

ΕN

DE

2023

Product Guide

European Union North America 60Hz South America 60Hz **International 50Hz**







The company

Giordano Riello, founder of Aermec, assisted by his son Alessandro and daughter Raffaella, has solidly associated the Company name with precise values:

Respect for the environment

By using new eco-friendly refrigerants as well as innovative installations using water as the carrier fluid.

Noise pollution control

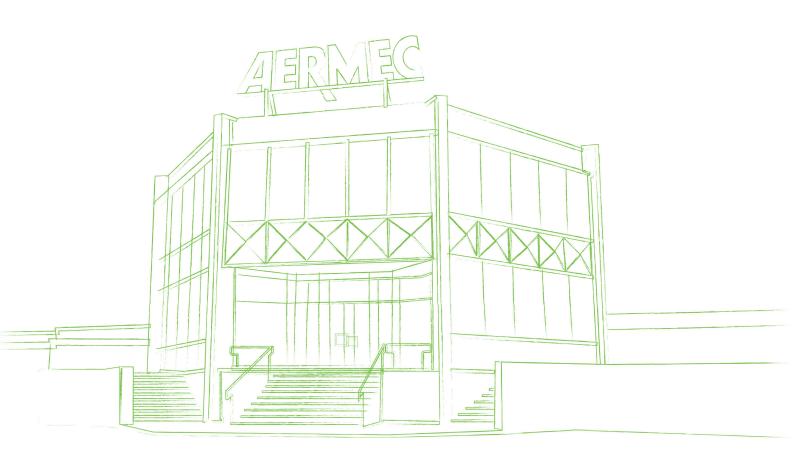
With low-noise emission products, which undergo scrupulous testing before being put on the market.

Energy saving

The great challenge of the Third Millennium, with the development of combined heating and air conditioning systems where appliances are used only as and when necessary.

Health care

With special filters that hold back the smallest suspension particles, the Cold Plasma Generator system that guarantees effective air purification (making for a healthier environment), and the new photocatalytic device, this air purification system is ideal for places where the highest degree of hygiene is required.



History

1961

Giordano Riello sets up Riello Condizionatori, initially producing for contractors only. The story begins.

1963

The Aermec brand is born and marks all future company products designed and manufactured on site. The brand name gains a stronghold as a major product name in Italy and throughout Europe.

1970

Aermec can already supply fresh and warm air. Aermec presents the first dual section conditioner: the first "split-system". Fancoil production starts.

1973

Aermec receives European Award Gold Mercury.

1980

The Eighties sees the development of water chillers and air handling units.

1990

The Nineties mark the definitive consolidation of the company on the market. The Aermec brand is associated with advanced technology and high quality design.

1998

The name makes the company. From 1 January Aermec becomes the company name as well as product brand.

2002

Design and technology: Aermec launched Omnia a new generation of fancoils, designed for domestic applications. OMNIA is the result of co operation with a worldwide prestigious designer.

2004

The international market ask for number and Aermec answer. Giordano Riello make the producing system more technogical. High producing, quality and assistance: the success of Aermec is going to continue.

2008

Aermec responds with more and more efficient units to the world challenge of energy saving with a special attention for our environment.

2011

Aermec turns 50. The company has developed and enlarged, always willing to understand and anticipate the needs of the market. Quality in innovation, in products, in pre-sales and after-sales services. Promoter of "integrated design" between designer and architect. Past success represents the commitment to the future.

2015

The news Europe's largest test facility for air conditioning applications was inaugurated.

2017

Aermec receives Innovation Award from the US Organizations ASHRAE, AHRI and AHR. Aermec receives "Prime Company" certificate for the economic strength and commercial reliability from the international rating company Dun & Bradstreet.

2018

Aermec awards first prize in "RAC Cooling Industry Award 2018" in London by an Internationally qualified Jury. 2019 Sales force Business plan, takes place for the first time at the new Centre of Research "Raffaello Riello".

2019

Aermec receives the prizes: "NATIONAL ACR & HEAT PUMPS AWARDS 2019" in the category of Data Centre Rooftop Chiller installation, "H&V News Awards 2019" attributed by a HVAC technical jury the United Kingdom.

2020

For the second year in a row, Aermec receives the prize ACR NEWS AWARDS for Data Centers category in the UK.

2021

Aermec is celebrating its 60th birthday.

This year, sadly distinguished by Covid-19 pandemic, corresponds to the 60th birth anniversaries of Aermec. The Company has decided to remember this event by opening a vaccination hub not only for his employees but also for all the local population.

2022

Aermec breaks through the barrier of 300 million turnover

LOGO INDEX:

 ϵ CE marking

REFRIGERANT:

R1234

R1234ze refrigerant

R134

R134a refrigerant

R32

R32 refrigerant

^{баз} **R407**с

R407C refrigerant

R410

R410A refrigerant

XP10

XP10 refrigerant

OPERATIONAL TYPES:

Evaporating unit

Cooling and heating

Cooling only



DHW



Condensing unit

Free-Cooling

Heating only





Multipurpose



For four pipes plants



For three pipes plants



For two pipes plants

INSTALLATION TYPES:

န္ဂ

Cassette installation



Ceiling installation



Ducted installation



Floor installation



Wall installation



Air indoor unit



Air outdoor unit



Water indoor unit

KINDS OF EXCHANGERS:



Heat recovery



Plate exchanger



Pump kit



Shell and tube exchanger



Water tank

KINDS OF COMPRESSORS:



Centrifugal compressor



Inverter centrifugal compressor



Rotary compressor



Inverter rotary compressor



Scroll compressor



Inverter scroll compressor



Twin screw compressor



Inverter twin screw compressor

KINDS OF FANS:



Axial fan



Inverter axial fan



Centrifugal fan



Inverter centrifugal fan



EC fan



Inverter EC fan



Plug fan



Inverter plug fan

EXTRA:



Inverter device



Compatible with ModBus protocol



Cold Plasma device



Touch control



Compatible with VMF system (Variable Multi Flow)



Aermec is one of the companies belonging to Giordano Riello International Group and takes part to Eurovent programme for NCD series.



Aermec takes part to EUROVENT Programmes: FCH - FCHP for fan coil series. Aermec is involved in EUROVENT Programme: LCP for chiller range. The products involved appear on the website www.eurovent-certification.com

INDEX

| | TAN COULC | | Air flow rate | | Heat. Cap. | Page |
|-----|----------------------------|--|----------------------|------------|--------------------|------|
| | FAN COILS | and the state of t | (m³/h) | (kW) | (kW) | 9- |
| | With cabinet; universal i | | 440 400 | 0.65 = 65 | 4 45 45 | 4.5 |
| | FCZ | On/Off | 110-1300 | 0,65-7,62 | 1,45-17,02 | 12 |
| | FCZI | Inverter | 140-1140 | 0,89-6,91 | 2,02-17,10 | 25 |
| | FCZ-D | On/Off | 140-720 | 0,89-4,25 | 2,02-8,50 | 34 |
| | FCZI-D | Inverter | 140-720 | 0,89-4,25 | 2,02-8,50 | 39 |
| | FCZ-H | On/Off | 140-1140 | 0,89-8,60 | 2,02-17,10 | 43 |
| | FCZI-H | Inverter | 140-1140 | 0,89-8,60 | 2,02-17,10 | 49 |
| | Omnia HL | On/Off | 80-460 | 0,53-2,79 | 0,53-5,94 | 55 |
| | Omnia ULS | On/Off | 47-390 | 0,30-3,00 | 0,30-6,15 | 59 |
| new | Omnia ULSI | Inverter | 47-390 | 0,30-3,00 | 0,30-6,15 | 63 |
| | Omnia UL | On/Off | 80-460 | 0,53-2,79 | 0,52-5,94 | 67 |
| | Omnia ULI | Inverter | 110-460 | 0,69-2,79 | 0,76-5,94 | 71 |
| | Omnia Radiant | On/Off o inverter with radiant panel | 190-460 | 1,42-2,83 | 2,89-5,94 | 74 |
| | | led installation with low static pressure | | | | |
| | FCY | On/Off | 148-1050 | 0,93-5,80 | 1,05-12,09 | 78 |
| | FCYI | Inverter | 123-799 | 0,80-4,70 | 0,90-10,15 | 87 |
| | FCZ P - PO | On/Off | 110-1300 | 0,65-7,62 | 1,45-17,02 | 96 |
| | FCZI P | Inverter | 140-1140 | 0,89-8,60 | 2,02-17,02 | 112 |
| | Omnia UL P | On/Off | 80-460 | 0,53-2,79 | 0,52-5,94 | 124 |
| | Omnia ULI P | Inverter | 110-460 | 0,69-2,79 | 0,76-5,94 | 127 |
| | Without cabinet; duct in | stallation with high static pressure | | | | |
| | VED 030-340 | On/Off with static pressure 21-66Pa | 161-775 | 0,97-5,26 | 0,90-10,95 | 130 |
| | VED 030I-340I | Inverter with static pressure 21-66Pa | 161-775 | 0,98-5,27 | 0,90-10,95 | 136 |
| | VED 430-741 | On/Off with static pressure 24-75Pa | 750-2350 | 4,54-16,10 | 5,20-31,71 | 141 |
| | VED 530I-741I | Inverter with static pressure 32-69Pa | 1060-2358 | 6,05-16,08 | 6,70-31,71 | 147 |
| | VES 030-340 | On/Off with static pressure21-66Pa | 161-775 | 1,25-5,71 | 1,82-10,95 | 153 |
| | VES 030-340 I | Inverter with static pressure 21-66Pa | 285-775 | 1,26-5,71 | 1,82-10,95 | 159 |
| | VES 5300I-7400I | Inverter with static pressure 29-60Pa | 640-1650 | 4,44-11,81 | 9,91-25,37 | 165 |
| | MZC | Plenum with motor-driven dampers for channelling fan coils | - | - | - | 168 |
| | Cassette; ceiling installa | | | | | |
| | VEC | On/Off with coanda effect | 130-613 | 0,80-4,28 | 0,95-9,18 | 172 |
| | VEC-I | Inverter with coanda effect | 130-613 | 0,80-4,28 | 0,95-9,18 | 176 |
| | FCL | On/Off | 300-1750 | 1,14-10,83 | 1,74-21,75 | 179 |
| | FCLI | Inverter | 300-1750 | 1,15-10,87 | 1,10-21,75 | 186 |
| | With cabinet; wall instal | lation | | | | |
| | FCW | On/Off | 280-1082 | 1,37-7,00 | 1,42-14,00 | 193 |
| | FCW I | Inverter | 280-1082 | 1,37-7,00 | 1,42-14,00 | 197 |
| | Floating floor installatio | on | | | | |
| | UFB | Booster unit for floating floor installation | 140-290 | 0,84-1,50 | 1,13-2,96 | 200 |
| | Chilled beams | | | | | |
| | EHT | Active chilled beams | 17-947 | 0,4-5,0 | - | 202 |
| | Control panels | Range of control panels for fan coils | - | - | - | 209 |
| | VMF | Variable Multi Flow system | - | - | - | 213 |
| | | | Air Assurate | Cool Con | Heat Can | 1 |
| | HEAT RECOVER | RY UNITS | Air flow rate (m³/h) | (kW) | Heat. Cap. (kW) | Page |
| | REPURO | With cross-flow exchanger | 100-650 | - | - | 224 |
| | TRS | Heat recovery unit with enthalpy exchanger | 250-1300 | - | - | 230 |
| | RPLI | Counter-current flow heat recovery unit with inverter motor | 200-3900 | _ | - | 232 |
| | RTD | Thermodynamic recovery unit with integrated heat pump | 1100-3200 | - | - | 237 |
| | RPF | High performance heat recovery unit with cross-current recuperator | 790-4250 | _ | - | 241 |
| | URX-CF | With cross-flow exchanger and refrigerant circuit | 750-3300 | _ | - | 245 |
| | URHE-CF | High efficiency version with cross-flow exchanger and refrigerant circuit | | - | - | 249 |
| | ERSR | High-efficiency heat recovery with rotary recovery unit | 1100-16100 | _ | _ | 253 |
| | -11911 | ringin emissioney near recovery with rotary recovery unit | 1100 10100 | | | 233 |

| | AIR HANDLIN | G UNITS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|----|--|--|-------------------------|-------------------------|---|------------------|
| | Compact air handling u | | | | | |
| ew | TVS | Air flow rate 800÷5200 m³/h | 800-5200 | 4,40-27,80 | 5,20-32,70 | 260 |
| | TUN | Air flow rate 900÷4000 m³/h | 900-4000 | 4,16-29,40 | 5,07-56,10 | 269 |
| | TS | Air flow rate 810÷4225 m³/h | 810-4225 | 4,39-24,93 | 8,89-52,44 | 275 |
| | TDA | Air flow rate 800÷3500 m³/h | 800-3500 | 4,90-22,30 | 2,50-45,40 | 279 |
| | TA | Air flow rate 800÷5000 m ³ /h | 800-5000 | 4,2-39,6 | 3,9-72,8 | 281 |
| | TN | Air flow rate 3000÷23000 m ³ /h | 3000-23000 | 12,6-127,8 | 14,7-277,3 | 286 |
| | Modular air handling u | nits | | | | |
| | NCD | Air handling units | 1134-79475 | - | - | 293 |
| | SPL 025-130 | For wellness areas | 4000-13000 | - | - | 296 |
| | SPL 160-250 | For wellness areas | 16000-25000 | - | - | 300 |
| | Packaged ROOF-TOP up | nits | | | | |
| | RTX N1-N8 | For medium crowding applications | - | 12,70-49,95 | 13,50-50,79 | 304 |
| | RTX 09-16 | For medium crowding applications | - | 50-135 | 49-141 | 309 |
| | RTX 17-23 | For medium crowding applications | - | 151-307 | 152-310 | 315 |
| | RTY 01-10 | For high crowding applications | - | 30,2-133,6 | 29,3-137,9 | 320 |
| | | | Air flow rate | Cool. Cap. | Heat. Cap. | Daws |
| | | HILLERS AND HEAT PUMPS | (m³/h) | (kW) | (kW) | Page |
| | Units with scroll compre ANKI 020-080 | | | E 0 2/10 | 61 20 0 | 226 |
| | ANKI 020-080 HMI | Reversible heat pumps inverter | - | 5,8-24,8 | 6,1-20,8 | 326 |
| | BHP | Reversible air/water heat pump | - | 3,0-14,5 | 4,0-15,5 | 330 |
| | HMG | Air/Water split type reversible heat pump Reversible air/water heat pump | - | 3,2-8,5 32-60 | 4,0-9,5 35-65 | 336 348 |
| | ANLI | | - | 28,9 | | 353 |
| | ANK 020-150 | Reversible heat pumps inverter | - | 6,8-39,8 | 31,5 | |
| | SWP | Reversible air/water heat pump High temperature air cooled heat pumps for production of DHW | - | 0,0-39,0 | 8,0-35,3 1,9 | 359 366 |
| | ANL 021-202 | Air-water chiller | - | 5,7-43,3 | 1,9 | 369 |
| | | | - | | | |
| | ANL 021H-203H | Reversible air/water heat pump | - | 5,7-49,1 | 6,2-43,3 | 375 382 |
| | NRK 0090-0150 | Reversible air/water heat pump | - | 18,4-31,0 | 20,8-34,4 | |
| | NRK 0200-0700 | Reversible air/water heat pump | - | 35,5-148,0 | 42,3-175,0 | 386 |
| | NRV 0550 | Air-water chiller Air-water chiller | - | 108,3 | - | 391 |
| | NRL 0280-0350 | | - | 56,0-82,0 | - | 395 |
| | NRL 0280H-0350H | Reversible air/water heat pump | - | 51,0-76,0 | 58,0-86,0 | 400 |
| | NRB 0282-0754 | Air-water chiller | - | 56-202 | - | 405 |
| | NRB 0282H-0754H NRG 0282-0804 | Reversible air/water heat pump | | 52-261 | 57-193 | 414 |
| | | Air-water chiller | - | 33/0 22 1/0 | - | 422 |
| | NRG 0282H-0804H | Reversible air/water heat pump | - | 52,5-212,0 | 56,6-214,4 | 431 |
| | NRGI 151-602 | Air-water chiller | - | 31,0-132,2 | - | 439 |
| | NRGI 151H-602H | Reversible air/water heat pump | - | 28,9-123,7 | 31,6-133,9 | 444 |
| | NRG 0800-2400 NRG 0800H-3600H | Air-water chiller | - | 225,7-725,0 | - | 450 |
| W | | Reversible air/water heat pump Air-water chiller (plate heat exchanger) | - | 195,2-962,3 217-1049 | 209,3-991,9 | 458 466 |
| | NRB 0800-3600 NRB 0800-3600 T | Air-water chiller (shell and tube heat exchanger) | - | 217-1049 | - | 475 |
| | NRB 0800H-3600H | Reversible air/water heat pump (plate heat exchanger) | - | 196-971 | 209-1006 | 483 |
| | NRB 0800H-3600H-T | Reversible air/water heat pump (shell and tube heat exchanger) | _ | 196-971 | 209-1006 | 492 |
| | CL 025-200 | Air-water chiller with Plug Fan | _ | | - | 500 |
| | CL 025-200 CL 025H-200H | Reversible air/water heat pump with Plug Fan | - | 5,8-41,0 6,5-50,9 | - 7,7-44,8 | 505 |
| | NLC 0280-1250 | Air-water chiller with Plug Fan | | 53-322 | ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 511 |
| | NLC 0280H-1250H | Reversible air/water heat pump with Plug Fan | - | 53-322 | 55-342 | 518 |
| | Units with screw compr | | | JJ JLL | JJ J7L | 210 |
| | NSM 1402-9603 | Air-water chiller | _ | 302-2100 | _ | 523 |
| | NSMI 1251-6102 | Chiller with Inverter screw compressors | _ | 285,6-1342,6 | _ | 538 |
| | NSH | Reversible air/water heat pump | _ | 251-731 | - 281-786 | 542 |
| | NSG | Air-water chiller (with R1234ze) | - | 228-1580 | - | 548 |
| | Units with centrifugal c | | | 220-1300 | | J 1 0 |
| | TBA 1300-4325 | Air-water chiller | | 328-1404 | _ | 559 |
| | TBG 1230-4310 | Air-water chiller | - | 200-1165 | - | 564 |
| | 100 1230-4310 | All-water Chiller | - | 200-1100 | - | 304 |

| AIR / WATER CH | ILLERS WITH FREECOOLING | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pag |
|---------------------------|--|-------------------------|-------------------------|--------------------|------|
| Units with scroll compres | | | | | |
| NRG 0282-0754 F | Air-water chiller with free-cooling | - | 58-190 | - | 572 |
| NRB 0800-3600 F | Air-water chiller with free-cooling | - | 211-1010 | - | 577 |
| NRB 0800-3600 B | Air-water chiller with free-cooling glycol free | | 211-1010 | - | 585 |
| NRV 0550 F | Air-water chiller with free-cooling | - | 99,9-105,4 | - | 592 |
| Units with screw compre | ssors | | | | |
| NSM 1402-9603 F | Air-water chiller with free-cooling | - | 306-2028 | - | 596 |
| NSM 1402-9603 B | Air-water chiller with free-cooling glycol free | - | 305,8-2028,1 | - | 607 |
| NSM-HWT-1402-9603-F | Air-water chiller with free-cooling | - | 306-2001 | - | 617 |
| NSM-HWT-1402-9603-B | Air-water chiller with free-cooling glycol free | - | 306-1991 | - | 626 |
| NSMI 1251-6102 F | Air-water chiller with free-cooling and Inverter screw compressors | - | 286-1280 | - | 634 |
| TBA 1300-3350 F | Air-water chiller with free-cooling | - | 317,2-1223,6 | - | 639 |
| TBG 1230-4310 F | Air-water chiller with free-cooling | - | 238-1110 | - | 644 |
| WATER / WATER | CHILLERS AND HEAT PUMPS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pag |
| Units with scroll compres | | (111 /11) | (KVV) | (KVV) | |
| VENICE H | Reversible water-cooled heat pump, gas side | _ | 6,9-9,8 | 8,3-11,6 | 652 |
| WRL 026H-161H | Reversible water-cooled heat pump, gas side | _ | 6,0-40,0 | 8,0-48,0 | 655 |
| WRL 026-161 | Water cooled heat pump reversible water side | _ | 6,6-44,2 | 7,5-48,0 | 662 |
| WRL 180H-650H | Reversible water-cooled heat pump, gas side | - | 44,9-157,4 | 53,0-183,3 | 668 |
| WRL 1801-6501 | Water cooled heat pump reversible water side | - | 49,0-174,0 | 55,0-192,0 | 672 |
| WRK | Reversible water-cooled heat pump, gas side | - | 38,9-165,9 | 48,5-207,7 | 677 |
| WKK WWB 0300-0900 | Water-water heat pumps only | - | ک _ا رک11-درن | | 684 |
| WWB 0300-0900 | | - | 06 | 56,7-265,9 | |
| | Water cooled heat pump reversible water side | - | 96 | 110 | 688 |
| NXW 0503-1654 | Water cooled heat pump reversible water side | - | 111-511 | 127-582 | 694 |
| NXW 0503H - 1654H | Reversible water-cooled heat pump, gas side | - | 106-477 | 125-565 | 699 |
| Jnits with screw compre | | | 1.47 700 | 164 770 | 70.4 |
| WS 0601-2802 | Water cooled heat pump reversible water side | - | 147-700 | 164-778 | 704 |
| HWS 0601 - 2802 | Water cooled heat pump reversible water side | - | 147-369 | 165-778 | 708 |
| HWSG | Water cooled heat pump reversible water side | - | 110-396 | 122-595 | 712 |
| WSH | Reversible water-cooled heat pump, gas side | - | 165,8-269,7 | 183,3-300,3 | 716 |
| WFGI | Water cooled heat pump reversible water side | - | 217-1765 | 243-1960 | 720 |
| WFGN | Water cooled heat pump reversible water side | - | 136-1727 | 153-1921 | 729 |
| WFI | Water cooled heat pump reversible water side | - | 291-2406 | 326-2664 | 736 |
| WFN | Water cooled heat pump reversible water side | - | 182-2349 | 205-2610 | 745 |
| Jnits with centrifugal co | • | | | | |
| WMX | Water/water chiller (with R134a) | - | /- | - | 753 |
| WMG | Water/water chiller (with R1234ze) | - | 282,3-312,4 | - | 756 |
| WTX | Water/water chiller | - | 222,9-1958,4 | | 759 |
| NTG | Water/water chiller (with R1234ze) | | 246,6-1959,4 | - | 764 |
| MULTI-PURPOS | JE | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pa |
| NRP 0200-0750 | Air-water multipurpose (plate heat exchanger) | - | 43-185 | 46-205 | 770 |
| NRP 0804-3606 | Air-water multipurpose (plate heat exchanger) | _ | 207-963 | 208-988 | 777 |
| CPS | Multifunction unit with multiple temperature level capability | _ | 164-491 | 176-505 | 788 |
| NXP 0500-1650 | Water-water multipurpose (plate heat exchanger) | - | 108-502 | 122-549 | 793 |
| DRECISION AID | CONDITIONING | Air flow rate | | Heat. Cap. | Pag |
| | | (m³/h) | (kW) | (kW) | |
| 2 10-932 5 070 1343 | Direct expansion (air or water cooled); chilled water | - | 7-160 | - | 800 |
| G 070-1342 | Direct expansion (air or water cooled); chilled water | - | 50-222 | - | 805 |
| R 20-361 | Direct expansion (air or water cooled); chilled water | - | 10-37 | - | 809 |

| | ROOM AIR CO | NDITIONERS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pag |
|---|---|---|-------------------------|---|----------------------------------|---|
| | Monobloc | | | | | |
| | FK | Monobloc window | - | 2,7-3,6 | - | 816 |
| | CMP (COMPACT) | Monobloc without outdoor unit | - | 2,35 | 2,36 | 819 |
| | PSL | Portable air conditioner | - | 2,6-3,4 | 2,3-2,7 | 822 |
| | Monosplit | | | , , | | |
| | SPG | Monosplit | _ | 2,5-6,2 | 2,8-6,5 | 825 |
| | SGE | Monosplit | _ | 2,77-5,86 | 2,93-6,00 | 830 |
| | SCG | Monosplit | _ | 7,2-12,5 | 7,9-13,5 | 834 |
| | CKG | Monosplit | _ | 2,7-6,6 | 2,9-6,8 | 838 |
| w | LPG | Monosplit | _ | 3,5-16,0 | 4,0-17,0 | 843 |
| | LCG | Monosplit | _ | 3,5-16,0 | 4,0-17,0 | 852 |
| | MVAS | Monosplit high head duct | _ | 22,4-28,0 | 24,0-30,0 | 862 |
| | Multisplit | Monospit high head daet | | 22,7 20,0 | 24,0 30,0 | 002 |
| | MLG | Multisplit | _ | 4,1-12,0 | 4,4-13,0 | 865 |
| w | MPG | Multisplit | _ | 4,1-12,0 | 4,4-13,0 4,4-9,5 | 882 |
| w | MGE | Multisplit | _ | 4,1-8,0 4,1-7,9 | 4,4-9,5 4,4-8,2 | 899 |
| w | MGE | Multispiit | - | 4,1-7,9 | 4,4-8,2 | 895 |
| | VRF SYSTEM | | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pag |
| | MVBM - MVAS | Direct expansion variable refrigerant flow system VRF | - | 12,1-246,0 | 14,0-276,0 | 906 |
| | COMPLEMENT | TARY PRODUCTS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Pa |
| | Sistemi e kit solari A.C.S. | | | | | |
| W | GSA - KSA - CXS | DHW Systems and solar kits | | | | 930 |
| | Thermal Buffers tank | | | | | |
| | SAF | Thermal Buffer tank kit with instantaneous Domestic Hot Water production | - | - | - | 934 |
| | SAP | Buffer tank with capacity from 75 to 3500 litres | - | - | - | 936 |
| | Plug&Play hydronic kit | | | | | |
| | WST evo | Hydronic kit plug & play | - | 80-1500 | - | 939 |
| | Cooling towers | | | | | |
| | TRA | Cooling towers | - | - | - | 942 |
| | Remote condensers - Dry | y coolers | | | | |
| | CSE | Remote condensers | - | 3-650 | - | 944 |
| | CVR | Remote condensers | - | 44-500 | - | 946 |
| | CDR | Remote condensers | - | 150-590 | - | 948 |
| | CGA | Remote condensers | - | 240-1500 | - | 950 |
| | CMV | Remote condensers | - | 140-1200 | - | 952 |
| | | Dry cooler | _ | 3-500 | - | 954 |
| | WIE | | | | | |
| | WTE WTR | • | _ | 56-350 | _ | 956 |
| | WTR | Dry cooler | - | 56-350 90-430 | - | |
| | WTR WDR | Dry cooler Dry cooler | - | 90-430 | - | 958 |
| | WTR WDR WGA | Dry cooler Dry cooler Dry cooler | - - - | 90-430 180-1100 | - | 958 960 |
| | WTR WDR WGA WMV | Dry cooler Dry cooler Dry cooler Dry cooler | - - - | 90-430 | - - - | 958 960 |
| | WTR WDR WGA WMV Water cooled condensing | Dry cooler Dry cooler Dry cooler Dry cooler Dry cooler | - - - | 90-430 180-1100 100-950 | - | 958 960 962 |
| | WTR WDR WGA WMV Water cooled condensin MEC-W | Dry cooler Dry cooler Dry cooler Dry cooler Bry cooler Water-cooled packaged air conditioners | - | 90-430 180-1100 100-950 | | 958 960 962 964 |
| | WTR WDR WGA WMV Water cooled condensin MEC-W FW-R | Dry cooler Dry cooler Dry cooler Dry cooler Bry cooler Ury cooler Ury cooler Unit Water-cooled packaged air conditioners Water-cooled air conditioner | - | 90-430 180-1100 100-950 11-55 2,9-4,0 | - - - - - 4,3-5,2 | 958 960 962 964 966 |
| | WTR WDR WGA WMV Water cooled condensin MEC-W | Dry cooler Dry cooler Dry cooler Dry cooler Bry cooler Water-cooled packaged air conditioners | - | 90-430 180-1100 100-950 | - - - - 4,3-5,2 | 956 958 960 962 964 966 968 |

972 975

DML

DMH-DMV

Dehumidifier portable

Dehumidifier



FAN COILS

In this area of climate control, Aermec is real leader:

a major company in Italy and one of the top in Europe.

A leading position gained through long-standing experience that has gained ground year after year. Special attention to detail, quality materials state-of-the-art technology ensure optimal performance with virtually imperceptible noise levels, especially at low speed;

attention paid to dimensions and overall size, comparable to those of standard radiators, to enable installation in all residential and commercial environments;

exclusive design, anticipating trends and in harmony with interior design requirements;

new electronic control panel to enable automatic operation and achieve the most user-friendly climatisers to date. Aermec fancoils boast all these features and more.

| | FAN COILS | | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|-----|-----------------------------|--|-------------------------|--------------------|--------------------|------|
| | With cabinet; universal in | stallation | | | | |
| | FCZ | On/Off | 110-1300 | 0,65-7,62 | 1,45-17,02 | 12 |
| | FCZI | Inverter | 140-1140 | 0,89-6,91 | 2,02-17,10 | 25 |
| | FCZ-D | On/Off | 140-720 | 0,89-4,25 | 2,02-8,50 | 34 |
| | FCZI-D | Inverter | 140-720 | 0,89-4,25 | 2,02-8,50 | 39 |
| | FCZ-H | On/Off | 140-1140 | 0,89-8,60 | 2,02-17,10 | 43 |
| | FCZI-H | Inverter | 140-1140 | 0,89-8,60 | 2,02-17,10 | 49 |
| | Omnia HL | On/Off | 80-460 | 0,53-2,79 | 0,53-5,94 | 55 |
| | Omnia ULS | On/Off | 47-390 | 0,30-3,00 | 0,30-6,15 | 59 |
| new | Omnia ULSI | Inverter | 47-390 | 0,30-3,00 | 0,30-6,15 | 63 |
| | Omnia UL | On/Off | 80-460 | 0,53-2,79 | 0,52-5,94 | 67 |
| | Omnia ULI | Inverter | 110-460 | 0,69-2,79 | 0,76-5,94 | 71 |
| | Omnia Radiant | On/Off o inverter with radiant panel | 190-460 | 1,42-2,83 | 2,89-5,94 | 74 |
| | Without cabinet; conceal | ed installation with low static pressure | | | | |
| | FCY | On/Off | 148-1050 | 0,93-5,80 | 1,05-12,09 | 78 |
| | FCYI | Inverter | 123-799 | 0,80-4,70 | 0,90-10,15 | 87 |
| | FCZ P - PO | On/Off | 110-1300 | 0,65-7,62 | 1,45-17,02 | 96 |
| | FCZI P | Inverter | 140-1140 | 0,89-8,60 | 2,02-17,02 | 112 |
| | Omnia UL P | On/Off | 80-460 | 0,53-2,79 | 0,52-5,94 | 124 |
| | Omnia ULI P | Inverter | 110-460 | 0,69-2,79 | 0,76-5,94 | 127 |
| | Without cabinet; duct ins | tallation with high static pressure | | | | |
| | VED 030-340 | On/Off with static pressure 21-66Pa | 161-775 | 0,97-5,26 | 0,90-10,95 | 130 |
| | VED 030I-340I | Inverter with static pressure 21-66Pa | 161-775 | 0,98-5,27 | 0,90-10,95 | 136 |
| | VED 430-741 | On/Off with static pressure 24-75Pa | 750-2350 | 4,54-16,10 | 5,20-31,71 | 141 |
| | VED 530I-741I | Inverter with static pressure 32-69Pa | 1060-2358 | 6,05-16,08 | 6,70-31,71 | 147 |
| | VES 030-340 | On/Off with static pressure21-66Pa | 161-775 | 1,25-5,71 | 1,82-10,95 | 153 |
| | VES 030-340 I | Inverter with static pressure 21-66Pa | 285-775 | 1,26-5,71 | 1,82-10,95 | 159 |
| | VES 5300I-7400I | Inverter with static pressure 29-60Pa | 640-1650 | 4,44-11,81 | 9,91-25,37 | 165 |
| | MZC | Plenum with motor-driven dampers for channelling fan coils | | | | 168 |
| | Cassette; ceiling installat | ion | | | | |
| | VEC | On/Off with coanda effect | 130-613 | 0,80-4,28 | 0,95-9,18 | 172 |
| | VEC-I | Inverter with coanda effect | 130-613 | 0,80-4,28 | 0,95-9,18 | 176 |
| | FCL | On/Off | 300-1750 | 1,14-10,83 | 1,74-21,75 | 179 |
| | FCLI | Inverter | 300-1750 | 1,15-10,87 | 1,10-21,75 | 186 |
| | With cabinet; wall installa | ation | | | | |
| | FCW | On/Off | 280-1082 | 1,37-7,00 | 1,42-14,00 | 193 |
| | FCW I | Inverter | 280-1082 | 1,37-7,00 | 1,42-14,00 | 197 |
| | Floating floor installation | | | | | |
| | UFB | Booster unit for floating floor installation | 140-290 | 0,84-1,50 | 1,13-2,96 | 200 |
| | Chilled beams | | | | | |
| | EHT | Active chilled beams | 17-947 | 0,4-5,0 | | 202 |
| | Control panels | Range of control panels for fan coils | | | | 209 |
| | VMF | Variable Multi Flow system | | | | 213 |























FCZ



- Very quiet
- Touch controller mounted on-board. allows remote control with smart devices

Fan coil for universal and floor installation

Cooling capacity 0,65 ÷ 7,62 kW Heating capacity 1,45 ÷ 17,02 kW





DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic. **Depending on the version, the distribution grille may be adjustable.**

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main coil, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

In the APC version, air purification is guaranteed by the Cold Plasma purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.

VERSIONS

A High, with fixed air distribution grille and built-in command ACT High, with air distribution grille and electronic thermostat

AF High, without built-in command but with front intake

APC High, with air distribution grille, electronic thermostat and Cold Plasma purifier

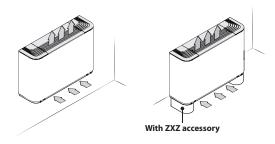
AS High, with air distribution grille without built-in command

 $\boldsymbol{\mathsf{U}}$ Universal, with adjustable air distribution grille but without built-in thermostat

UA Universal, with fixed air distribution grille but without built-in thermostat

UF Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

Versions with fixed grille (high cabinet)



FCZ A

With built-in selector.

FCZ_AS

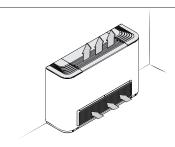
- Compatibility with VMF system.
- Without installed switch

FCZ ACT

With electronic thermostat for 2-pipe systems only.

FCZ_APC

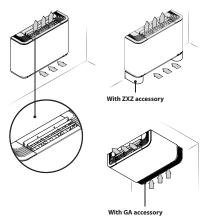
- With electronic thermostat for 2-pipe systems only.
- Cold Plasma purifier



FCZ AF

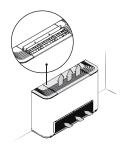
- Without installed switch
- Compatibility with VMF system.
- Front intake grille.

Versions with adjustable and fixed grille (universal)



FCZ U

- Compatibility with VMF system.
- Without installed switch
- Distribution grille with adjustable louvers. Sizes 1, 2 and 3 have a single grille, whereas sizes 4, 5, 6, 7, 8, 9 and 10 have three grilles fully independent of each other. When all the fins have closed, the unit switches off.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.



FCZ_UF

- Compatibility with VMF system.
- Without installed switch
- Air delivery grille with adjustable louvers.
- Front intake grille.

FCZ_UA

- Compatibility with VMF system.
- Without installed switch
- Air distribution grille with fixed louvers.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.

ThermApp

In units with a $\mbox{{\bf T-Touch-I}}$ electronic thermostat and the $\mbox{{\bf ThermApp}}$ application, the operating mode can be set and the weekly timer programmed by simply resting the smart device on the fan coil. The graphic interface of the app also gives access to a lot more information such as the alarm list, the closest SAT, etc.

Available for Android operating systems.



| Fiel | ld | Description |
|------|-----|---|
| 1,2, | ,3 | FCZ |
| 4 | | Size 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| 5 | | Main coil |
| | 0 | Standard |
| | 5 | Oversized |
| 6 | | Secondary coil |
| | 0 | Without coil |
| | 1 | Standard |
| | 2 | Oversized |
| 7 | | Version |
| | | Only vertical installation. |
| | Α | High, with fixed air distribution grille and built-in command |
| | ACT | High, with air distribution grille and electronic thermostat |
| | AF | High, without built-in command but with front intake |
| | APC | High, with air distribution grille, electronic thermostat and Cold Plasma purifier |
| | AS | Free standing without installed switch |
| | | Vertical and horizontal installation. |
| | U | Universal, with adjustable air distribution grille but without built-in thermostat |
| | UA | Universal, with fixed air distribution grille but without built-in thermostat |
| | UF | Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille |

SIZE AVAILABLE FOR VERSION

| Size | | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|--------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| Versions produced | (by size) | | | | | | | | | | | | | | | | | | | | |
| Vancione available | A,AS,U,UA | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • |
| Versions available | ACT,APC | • | - | - | • | • | - | - | • | • | - | - | • | • | - | - | • | | - | - | • |
| (by size) | AF,UF | • | - | - | • | • | - | - | • | • | - | - | • | ٠ | - | - | • | • | - | - | • |
| Size | | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 | | | |
| Versions produced | (by size) | | | | | | | | | | | | | | | | | | | | |
| V!! - - - | A,AS,U,UA | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| Versions available | ACT,APC | • | - | - | | • | - | - | • | | - | - | • | • | - | • | | - | | | |
| (by size) | AF,UF | - | - | - | - | - | - | - | - | - | - | - | - | | - | | • | - | | | |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PX2Z: On-board electromechanical switch.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L=15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH: Touch control on board the machine, for controlling fan coils with asynchronous motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZ-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualiet).

TXB: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2Z: User interface on the machine, to be combined with the VMF-E0X, VMF-E19 or VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - **45** - **for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Single row hot water heat exchanger.

RX: Armoured electric coil with safety thermostat.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

AMP: Wall mounting kit

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|-------------|---------------------|-----|----------|-------------|-----|-----|---------------------------------------|----------|-----|
| ER503IR (1) | AF,UF | • | | | • | • | | | • |
| (ו) עוכטכעד | AS,U,UA | • | • | • | • | • | • | • | • |
| V 2 7 | AF,UF | • | | | • | • | | | • |
| X2Z | AS,U | • | • | • | • | • | • | • | • |
| 4.5 (2) | AF,UF | • | | | • | • | | | |
| A5 (2) | AS,U,UA | • | • | • | • | • | • | • | |
| SIT3 (3) | AS,U,UA | • | | | • | • | • | • | |
| SIT5 (4) | AS,U,UA | • | • | • | • | • | • | • | |
| | AF,AS,UF | • | <u> </u> | • | • | • | · · · · · · · · · · · · · · · · · · · | <u> </u> | • |
| SW3 (2) | U,UA | · · | • | • | • | • | • | • | • |
| | AF,UF | | • | • | | | • | • | |
| SW5 (2) | | • | | | • | • | | | • |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| T-TOUCH (5) | AF,UF | • | | | • | • | | | • |
| | AS,U | • | • | • | • | • | • | • | • |
| TX (1) | AF,UF | • | | | • | • | | | • |
| A(1) | AS,U,UA | • | • | • | • | • | • | • | • |
| XB (5) | AF,UF | • | | | • | • | | | • |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| VMT05 (1) | AF,AS,U,UA,UF | • | | | • | • | | | • |
| | AF,UF | | | | | • | | | |
| VMT06 (1) | AS,U | • | • | • | • | • | • | • | |
| | AF,UF | • | | | • | • | | | |
| WMT10 (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| ladal . | | | | | | | | | |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| ER503IR (1) | AF,UF | • | | | • | • | | | • |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| X2Z | AF,UF | • | | | • | • | | | • |
| NZL | AS,U | • | • | • | • | • | • | • | • |
| ·ΛΓ (2) | AF,UF | • | | | • | • | | | • |
| SA5 (2) | AS,U,UA | • | • | | | | • | | |
| SIT3 (3) | AS,U,UA | • | • | • | • | • | • | • | • |
| SIT5 (4) | AS,U,UA | • | | | | | | • | |
| | AF,AS,UF | • | | | • | • | | | |
| SW3 (2) | U,UA | • | • | • | • | • | • | • | |
| | AF,UF | • | | | • | • | | | • |
| SW5 (2) | AS,U,UA | • | | | • | • | | | |
| | | • | • | • | • | | • | • | • |
| T-TOUCH (5) | AF,UF | | | | | • | | | • |
| . , | AS,U | • | • | • | • | • | • | • | • |
| TX (1) | AF,UF | • | | | • | • | | | • |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| TXB (5) | AF,UF | • | | | • | • | | | • |
| (כ) טא | AS,U,UA | • | • | • | • | • | • | • | • |
| VMT05 (1) | AF,AS,U,UA,UF | • | | | • | • | | | |
| | AF,UF | | | | | | | | |
| VMT06 (1) | AS,U | • | • | • | | • | • | • | |
| | AF,UF | • | | | • | • | | | |
| VMT10 (1) | AS,U,UA | • | • | • | • | • | • | | • |
| | | | | | | | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| ER503IR (1) | AF,UF | • | | | • | | | | |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| X2Z | AF,UF | • | | | • | | | | |
| N44 | AS,U | • | • | • | • | • | • | • | • |
| ΛΓ (2) | AF,UF | • | | | • | | | | |
| A5 (2) | AS,U,UA | | • | • | | • | | | |
| IT3 (3) | AS,U,UA | • | | • | • | • | • | • | |
| (3) | AS,U,UA | • | • | • | • | • | • | • | • |
| IT5 (4) | U2,U,UN | • | • | • | | • | • | • | • |
| IT5 (4) | | | | | | | | | |
| | AF,UF | • | | | • | | | | |
| | AF,UF AS | • | | | • | • | • | • | • |
| N3 (2) | AF,UF AS U,UA | | • | • | • | • | • | • | • |
| | AF,UF AS | • | • | • | • | | | | |

| T TOUCH (r) | AF,UF | • | | | • | | | | |
|--|---|---------|----------|-----|-----|-----|---------------------|-----|-------------------------|
| T-TOUCH (5) | AS,U | • | | • | • | • | • | | • |
| T1/ (4) | AF,UF | • | | | • | | | | |
| TX (1) | AS,U,UA | • | | • | | | • | | • |
| | AF,UF | | | | • | | | | |
| TXB (5) | AS,U,UA | • | • | • | • | • | • | | • |
| | AF,UF | • | | | • | | | | |
| WMT05 (1) | AS,U,UA | • | | | • | • | | | |
| | AF,UF | | | | | • | | | • |
| WMT06 (1) | | • | | | • | | | | |
| | AS,U | • | • | • | • | • | • | • | • |
| WMT10 (1) | AF,UF | • | | | • | | | | |
| | AS,U,UA | • | • | • | • | • | • | • | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| AER503IR (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| PX2Z | AS,U | • | | • | • | • | • | | • |
| SA5 (2) | AS,U,UA | • | • | • | • | • | • | • | • |
| SIT3 (3) | AS,U,UA | • | • | • | • | • | • | • | • |
| | | | | | | | | | |
| SIT5 (4) | AS,U,UA | • | • | • | • | • | • | • | • |
| SW3 (2) | AS,U,UA | • | • | • | • | • | • | • | • |
| SW5 (2) | AS,U,UA | • | • | • | • | • | • | • | • |
| T-TOUCH (5) | AS,U | • | • | • | • | • | • | • | • |
| TX (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| TXB (5) | AS,U,UA | • | • | • | • | • | • | • | • |
| WMT05 (1) | AS,U,UA | • | | | • | • | | | • |
| WMT06 (1) | AS,U | • | | • | • | • | | • | |
| WMT10 (1) | AS,U,UA | • | • | | | • | • | • | • |
| WINIT TO (I) | nJ,U,Un | | • | • | • | • | | | |
| | | | <u> </u> | | | | | | |
| Model | Ver | 900 | • | 901 | 9. | 50 | 1000 | - | 1001 |
| | Ver AF,UF | 900 | • | 901 | 9. | 50 | 1000 | • | 1001 |
| Model | Ver AF,UF AS,U,UA | | | | 9. | 50 | 1000 | | |
| Model AER503IR (1) | Ver AF,UF AS,U,UA AF,UF | 900 | | 901 | 9. | 50 | 1000 • • | | 1001 |
| Model | Ver AF,UF AS,U,UA AF,UF AS,U | 900 | | 901 | 9. | | 1000 • • • | | 1001 |
| Model AER503IR (1) PX2Z | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | 1001 |
| Model AER503IR (1) PX2Z SA5 (2) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SAS (2) SIT3 (3) SIT5 (4) | Ver AF,UF AS,U,UA AF,UF AS,U AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SAS (2) SIT3 (3) SIT5 (4) | Ver AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) | Ver AF,UF AS,U,UA | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) | Ver AF,UF AS,U,UA AF,UF AS | 900 | | 901 | 9. | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) | Ver AF,UF AS,U,UA AF,UF AS | 900 | | 901 | 9 | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) | Ver AF,UF AS,U,UA AF,UF AS | 900 | | 901 | 9 | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) T-TOUCH (5) | Ver AF,UF AS,U,UA AF,UF AS | 900 | | 901 | 9 | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) T-TOUCH (5) | Ver AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS U,UA AF,UF AS U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9 | | 1000 | | 1001 · · · · · · · · |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) T-TOUCH (5) | Ver AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS U,UA AF,UF AS U,UA AF,UF AS U,UA AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9 | | 1000 | | |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) T-TOUCH (5) TX (1) | Ver AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS,U,UA AF,UF AS U,UA AF,UF AS U,UA AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| Model AERS03IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) T-TOUCH (5) TX (1) TXB (5) | Ver AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 · · · · · · · · |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) T-TOUCH (5) TX (1) TXB (5) | Ver AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| Model AER503IR (1) PX2Z SAS (2) SIT3 (3) SIT5 (4) SW3 (2) T-TOUCH (5) TX (1) TXB (5) WMT05 (1) | Ver AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) T-TOUCH (5) TX (1) TXB (5) WMT05 (1) | Ver AF,UF AS,U,UA AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| Model AER503IR (1) PX2Z SA5 (2) SIT3 (3) SIT5 (4) SW3 (2) SW5 (2) T-TOUCH (5) TX (1) | Ver AF,UF AS,U,UA | 900 | | 901 | 9 | 50 | 1000 | | 1001 |

Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
 Probe for AERSO3IR-TX thermostats, if fitted.
 Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 Probe for AERSO3IR-TX thermostats, if fitted.
 Installation on the fan coil.

VMF system

Model

Ver

500

501

502

550

600

601

602

650

For more information about VMF system, refer to the dedicated documentation.

VMF system

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 |
|---------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E0X (1) | AF,UF | • | | | • | • | | | • | • | |
| VIVIT-EUX (I) | AS,U,UA | • | • | • | • | • | • | • | • | | • |
| VMF-E19 (1) | AF,UF | • | | | • | • | | | • | • | |
| VIVIT-E19 (1) | AS,U,UA | • | • | • | • | • | • | • | • | • | • |
| VMF-E2Z | AF,UF | • | | | • | • | | | • | • | |
| VIVIT-EZZ | AS,U,UA | • | • | | | • | • | • | • | | |

| Min | Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 |
|---|---|--|---------------------------------------|-----|---------------------------------------|-----|-----|----------|---------------------------------------|----------|-----|-----|
| | VMF-E3 | | | • | • | | | • | | | | • |
| Marie | VME EADV | AF,UF | | | | | • | | | | | |
| Margraph | VIVIT-E4UA | | | • | • | | | • | • | | | • |
| ME SHE | VMF-E4X | | | | | | | • | • | | | • |
| MATS | VME ID | | | | | | | | | | | |
| Marie Mari | VIVIT-IN | | | • | • | | | • | • | | | • |
| Mag | VMF-SW | | | | | | | | | | | |
| Marie | VME_CW1 | AF,UF | | | | | | | | | | |
| Marie Mari | INIC-JINI | | | • | • | | | • | • | | | • |
| Model No. 322 358 408 407 402 458 508 507 502 558 108 507 108 10 | VMHI | | | | | | | | | | | |
| War 1910 ASUM | Model | | | | | | | | | | | 550 |
| Marie Mari | | | 302 | | | 701 | 102 | | | 301 | 302 | |
| Marter M | VMF-EUX (1) | | • | • | • | • | • | • | • | • | • | • |
| MIF | VMF-E19 (1) | | | | | | | | | | | |
| Martin M | VALE 527 | | <u> </u> | | | • | | | | <u> </u> | • | |
| WARF-FLOX MAJE | VMF-E2Z | AS,U,UA | • | • | • | • | • | • | • | • | • | • |
| MAP FERTING MAP | VMF-E3 | | | | | | | | | | | |
| MASUMA | | | • | | | • | • | | | • | • | |
| Martin | VMF-E4DX | AS,U,UA | • | • | • | • | • | • | • | • | | • |
| MATERIAN | VMF-E4X | | | | | | | | | | | |
| WAF-SW MASUF | | | • | | | • | • | | | • | • | |
| MAS-SVI | VMF-IR | U,UA | • | • | • | • | • | • | • | • | • | • |
| MAF-SYNT ABUF | VMF-SW | | | | | | | | | | | |
| MANIFERN ASJUR | | | • | | | • | • | | | • | • | |
| Model Ver 600 601 602 650 700 701 702 750 800 801 80 | VMF-SW1 | AS,U | • | | | • | • | | | • | • | |
| Mode Ver | VMHI | | | | | | | | | | | |
| WHF-EDX (1) | | A3,U,UA | • | • | • | • | | <u> </u> | <u> </u> | | | |
| \text{VMF-E19 (1)} \begin{tabular}{cccccccccccccccccccccccccccccccccccc | Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 |
| VINF-E2Z | | | | | | | | | | | | |
| VMF-E2Z | | AS,UA U | • | • | • | • | • | • | • | • | • | • |
| VMF-EQV VMF- | VMF-E0X (1) | AS,UA U AS,UA | • | • | • | • | • | • | • | • | • | • |
| WHF-E4DX | VMF-E0X (1) VMF-E19 (1) | AS,UA U AS,UA U AS,UA | | • | • | • | • | • | • | | • | • |
| VMF-E4DX AS,UA | Model VMF-E0X (1) VMF-E19 (1) VMF-E2Z | AS,UA U AS,UA U AS,UA U | | | • | | | | | | • | |
| VMF-EAX AS,UA | VMF-E0X (1) VMF-E19 (1) VMF-E2Z | AS,UA U AS,UA U AS,UA U AF,UF | | | | | | | | | | |
| VMF-EV | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 | AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U U AF,UF U,UA | | | | | • | | | | | |
| VMF-IR AF, UF . <th< td=""><td>VMF-E0X (1) VMF-E19 (1) VMF-E2Z</td><td>AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | VMF-E0X (1) VMF-E19 (1) VMF-E2Z | AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U | | | | | | | | | | |
| MAS | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX | AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA | | | | | | | | | | |
| VMF-SW1 U . </td <td>VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X</td> <td>AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AF,UF</td> <td></td> | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AF,UF | | | | | | | | | | |
| VMF-SW1 AS | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA | | | | | | | | | | |
| Model Ver 802 850 900 901 950 1000 1001 | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA AF,UF U,UA | | | | | | | | | | |
| Ver 802 850 900 901 950 1000 1001 | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA | | | | | | | | | | |
| Model Ver 802 850 900 901 950 1000 1001 | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AF,UF U,UA AS U AS | | | | | | | | | | |
| MF-EOX (1) AS, UA AS, UA C AF, UF VMF-E19 (1) AS, UA AS, UA C AF, UF VMF-E22 AS, UA C AF, UF VMF-E22 AF, UF VMF-E22 AF, UF VMF-E22 AF, UF VMF-E23 U AF, UF C AF, U | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS | | | | | | | | | | |
| U | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW1 VMHI | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA | | | | | | | | | | |
| MF-E19(1) AS,UA AS AS,UA AS A | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW VMF-SW1 VMHI Model | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AS,UA | | | | | | | | | | |
| VMF-E19(1) AS,UA U VMF-EZZ AS,UA U VMF-E3 U,UA | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW1 | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA AS U AS,UA | | | | | | | | | | |
| MF-EZZ AS,UA · · · · · · · · · · · · · · · · · · · | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW VMF-SW1 VMHI Model | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS,UA U Ver | | | | | | | | | | |
| VMF-EZZ AS,UA U AF VMF-E3 U,UA | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW VMF-SW1 VMHI Model | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS,UA | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| U • | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW1 VMHI Model VMF-E0X (1) | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U Ver AF,UF AS,UA U AF,UF AS,UA U | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| VMF-E3 U,UA · · · · · · · | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-E4X VMF-SW VMF-SW VMF-SW1 VMHI Model VMF-E0X (1) | AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA AS U AS,UA U AF,UF AS,UA U AF,UF AS,UA U AF,UF AS,UA U AF,UF | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-IR VMF-SW VMF-SW1 VMHI Model VMF-E0X (1) | AS,UA U AS,UA U AS,UA U AS,UA U AF,UF U,UA AS,UA U AF,UF U,UA AS,UA U AF,UF U,UA AS U AF,UF U,UA U U,UA U U AF,UF U,UA U U AS U AS U AS U AS U AS U AS,UA U AS U AS U AS U AS U AS U AS,UA U AS U AS U AS U AS U AS U AS,UA U AS U AS,UA U AS,UA U AS,UA U AS,UA U AS,UA U AF,UF AS,UA U AS,UA U AF,UF AS,UA U AS,UA | | | · · · · · · · · · · · · · · · · · · · | | | | · · · · · · · · · · · · · · · · · · · | | | |
| un · · · · · · · · · · · · · · · · · · · | VMF-E0X (1) VMF-E19 (1) VMF-E2Z VMF-E3 VMF-E4DX VMF-E4X VMF-E4X VMF-SW VMF-SW VMF-SW1 VMHI Model VMF-E0X (1) VMF-E19 (1) | AS,UA U AF,UF U,UA AS U AS,UA U AF,UF U,UA U AS U AS U AS U AS U AS,UA U AS U AS U AS U AS U AS,UA U AS U AS U AS U AS U AS U AF,UF AS,UA U AF,UF AS,UA | · · · · · · · · · · · · · · · · · · · | | | 900 | | | | | | |

| Model | Ver | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
|----------|-------|-----|-----|-----|-----|-----|------|------|
| | AF,UF | | | | | • | | |
| VMF-E4DX | AS,UA | • | • | • | • | • | • | |
| | U | • | | • | • | • | • | • |
| | AF,UF | | | | | • | | |
| /MF-E4X | AS,UA | • | • | • | • | • | • | • |
| | U | • | | • | • | • | • | • |
| | AF | | • | • | | • | | |
| /MF-IR | U,UA | • | • | • | • | • | • | • |
| | UF | | • | • | | • | • | |
| | AF,UF | | | | | • | | |
| /MF-SW | AS | • | • | • | • | • | • | • |
| | U | • | | • | • | • | • | |
| | AF,UF | | | | | • | | |
| /MF-SW1 | AS | • | • | • | • | • | • | • |
| | U | • | | • | • | • | • | • |
| | AF,UF | | | | | • | | |
| /MHI | AS,UA | • | • | • | • | • | • | • |
| | U | • | | • | • | • | • | • |

| | U | • | | | | • | | | • | | • | | • | | • | |
|---------------------------------|---------------------------|------------------|------------------|----------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| (1) Also the accessory VMF-SIT. | 3V is mandatory if the un | it exceeds (| 0.7 Amperes | 5. | | | | | | | | | | | | |
| Water valves | | | | | | | | | | | | | | | | |
| 3 way valve kit | | | | | | | | | | | | | | | | |
| | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Main coil | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ42 |
| | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4224 |
| Secondary coil | - | VCF44 VCF4424 | VCF44 VCF4424 | - | - | VCF44 VCF4424 | VCF44 VCF4424 | - | - | VCF44 VCF4424 | VCF44 VCF4424 | - | - | VCF44 VCF4424 | VCF44 VCF4424 | - |
| | VCF44 | VCI 4424 | VCI 4424 | | VCF44 | VCI 4424 | VCI 4424 | | VCF44 | VCI 4424 | VCI 4424 | | VCF44 | VCI 4424 | VCI 4424 | |
| Additional coil "BV" | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - |
| | | | | | | | | | - | | | | | | | |
| | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| Main coil | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 | VCZ42 VCZ4224 |
| | VCZ4ZZ4 | VCF44 | VCF44 | VCZ4ZZ4 | VCZ4ZZ4 | VCF44 | VCF44 | VCZ4ZZ4 | VCZ4ZZ4 | VCF44 | VCF44 | VCZ4ZZ4 | VCZ4ZZ4 | VCF44 | VCF44 | VCZ4ZZ4 |
| Secondary coil | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - |
| Additional coil "BV" | VCF44 | | | | VCF44 | | | | VCF44 | | | | VCF44 | | | |
| Additional coll. BV | VCF4424 | | | | VCF4424 | | | | VCF4424 | | | | VCF4424 | | | |
| | | | | | | | | | | | | | | | | |
| | 900 | 901 | 950 | 1000 | 1001 | | | | | | | | | | | |
| Main coil | VCZ43 VCZ4324 | VCZ43 VCZ4324 | VCZ43 VCZ4324 | VCZ43 VCZ4324 | VCZ43 VCZ4324 | | | | | | | | | | | |
| | VCZ43Z4 | VCF4524 | VCZ43Z4 | VCZ43Z4 | VCF45 | | | | | | | | | | | |
| Secondary coil | - | VCF4524 | - | - | VCF4524 | | | | | | | | | | | |
| Additional coil "BV" | VCF45 | | | VCF45 | | | | | | | | | | | | |
| Additional Con DV | VCF4524 | | | VCF4524 | | | | | | | | | | | | |
| 2 way valve kit | | | | | | | | | | | | | | | | |
| 2 may varre kit | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD2 |
| Main coil | VCZD124 | VCZD124 | | VCZD124 | VCZD124 | | VCZD124 | VCZD124 | VCZD224 |
| Secondary coil | _ | VCFD4 | VCFD4 | _ | | VCFD4 | VCFD4 | _ | _ | VCFD4 | VCFD4 | _ | | VCFD4 | VCFD4 | |
| | | VCFD424 | VCFD424 | | | VCFD424 | VCFD424 | | | VCFD424 | VCFD424 | | | VCFD424 | VCFD424 | |
| Additional coil "BV" | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - |
| | VCFD424 | | | | VCFD4Z4 | | | | VCFD424 | | | | VCFD424 | | | |
| | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| Main wil | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 |
| Main coil | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 |
| Secondary coil | _ | VCFD4 | VCFD4 | _ | _ | VCFD4 | VCFD4 | _ | _ | VCFD4 | VCFD4 | _ | _ | VCFD4 | VCFD4 | _ |
| | VCEDA | VCFD424 | VCFD424 | | VCEDA | VCFD424 | VCFD424 | | VCEDA | VCFD424 | VCFD424 | | VCEDA | VCFD424 | VCFD424 | |
| Additional coil "BV" | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - | VCFD4 VCFD424 | - | - | - |
| | VCI D424 | | | | VCI D424 | | | | VCI D424 | | | | VCID424 | | | |
| | | | | | | | | | | | | | | | | |
| | 900 | 901 | 950 | 1000 | 1001 | - | | | | | | | | | | |
| - Afain cail | 900 VCZD3 | 901 VCZD3 | 950 VCZD3 | 1000 VCZD3 | 1001 VCZD3 | . | | | | | | | | | | |
| Main coil | | | | | | - | | | | | | | | | | |
| Main coil Secondary coil | VCZD3 | VCZD3 | VCZD3 | VCZD3 | VCZD3 | - | | | | | | | | | | |

VCFD4 VCFD424

VCFD4

VCFD424

Additional coil "BV"

Valve Kit for 4 pipe systems-Requires a thermost at with valve management

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|-------------|---------------|-----|-----|-----|-----|-----|------|-----|------|
| VCZ1X4L (1) | AF,AS,U,UA,UF | • | | | • | • | | | • |
| VCZ1X4R (1) | AF,AS,U,UA,UF | • | | | • | • | | | • |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| VCZ2X4L (1) | AF,AS,U,UA,UF | • | | | • | • | | | • |
| VCZ2X4R (1) | AF,AS,U,UA,UF | • | | | • | • | | | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| VCZ2X4L (1) | AF,UF | • | | | • | | | | |
| VCZZX4L (1) | AS,U,UA | • | | | • | | | | • |
| VC72V4D (1) | AF,UF | • | | | • | | | | |
| VCZ2X4R (1) | AS,U,UA | • | | | • | • | | | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| VCZ2X4L (1) | AS,U,UA | • | | | • | • | | | • |
| VCZ2X4R (1) | AS,U,UA | • | | | • | • | | | • |
| Model | Ver | 900 | | 901 | 95 | 50 | 1000 | | 1001 |
| VCZ3X4L (1) | AF,AS,U,UA,UF | • | | | • | | • | | |
| VCZ3X4R (1) | AF,AS,U,UA,UF | • | | | | | • | | |

⁽¹⁾ The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancina Valve Kit

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|----------------|---------|-----|-----|-----|-----|-----|------|-----|------|
| /ID060 (1) | ACT,APC | • | | | • | • | | | • |
| /JP060 (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| /JP060M (2) | ACT,APC | • | | | • | • | | | • |
| VJPUOUM (2) | AS,U,UA | • | • | • | • | • | • | • | • |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| /JP060 (1) | ACT,APC | • | | | • | | | | |
| 7,7,000 (1) | AS,U,UA | • | • | • | • | | | | |
| /JP060M (2) | ACT,APC | • | | | • | | | | |
| :JP000W (2) | AS,U,UA | • | • | • | • | | | | |
| /ID000 (1) | ACT,APC | | | | | • | | | • |
| /JP090 (1) | AS,U,UA | | | | | • | • | • | • |
| VIDOOOM (2) | ACT,APC | | | | | • | | | |
| VJP090M (2) | AS,U,UA | | | | | • | • | • | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| /ID000 /1\ | ACT,APC | • | | | • | • | | | • |
| /JP090 (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| /JP090M (2) | ACT,APC | • | | | • | • | | | • |
| 7JP090W (2) | AS,U,UA | • | • | • | • | • | • | | • |
| /ID150 /1) | ACT,APC | | | | | • | | | • |
| /JP150 (1) | AS,U,UA | | | | | • | • | | • |
| /ID450M (2) | ACT,APC | | | | | • | | | • |
| /JP150M (2) | AS,U,UA | | | | | • | • | • | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| UD1E0 (1) | ACT,APC | • | | | • | • | | | |
| 'JP150 (1) | AS,U,UA | • | • | • | • | • | • | • | • |
| /ID1EOM (2) | ACT,APC | • | | | • | • | | | • |
| /JP150M (2) | AS,U,UA | • | • | • | • | • | • | • | • |
| Model | Ver | 900 | | 901 | 9: | 50 | 1000 | | 1001 |
| /JP150 (1) | ACT,APC | • | | | | • | • | | |
| ו) טכו זור (ו) | AS,U,UA | • | | • | | | • | | • |
| /JP150M (2) | ACT,APC | • | | | | • | • | | |
| JP IDUNI (Z) | AS,U,UA | • | | | | | | | |

^{(1) 230}V~50Hz (2) 24V

(Heating only) additional coil

Heating only additional coil

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| BV117 (1) | A,AF,AS,U,UA,UF | • | | | | | | | |
| BV122 (1) | A,AF,AS,U,UA,UF | | | | | • | | | |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| BV132 (1) | A,AF,AS,U,UA,UF | • | | | | | | | |
| BV142 (1) | A,AF,AS,U,UA,UF | | | | | • | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| BV142 (1) | A,AF,AS,U,UA,UF | • | | | | | | | |
| BVZ800 (1) | A,AS,U,UA | | | | | • | | | |

| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
|------------|--------------------|-----|-----|-----|-----|-----|------|-----|------|
| BVZ800 (1) | A,AS,U,UA | • | | | | • | | | |
| Model | Ver | 900 | | 901 | 9: | 50 | 1000 | | 1001 |
| BV162 (1) | 4 45 46 11 114 115 | | | | | | | | |

⁽¹⁾ Not available for sizes with oversized main coil.

Electric coil - Requires a thermostat with heater management. Not available for sizes with an oversized main coil.

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|------------|---------------|-----|-----|-----|-----|-----|------|-----|------|
| RX17 (1) | AF,AS,U,UA,UF | • | | | | | | | |
| RX22 (1) | AF,AS,U,UA,UF | | | | | • | | | |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| RX32 (1) | AF,AS,U,UA,UF | • | | | | | | | |
| RX42 (1) | AF,AS,U,UA,UF | | | | | • | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| RX52 (1) | AF,AS,U,UA,UF | • | | | | | | | |
| RXZ800 (1) | AS,U,UA | | | | | • | | | |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| RXZ800 (1) | AS,U,UA | • | | | | • | | | |
| Model | Ver | 900 | | 901 | 9: | 50 | 1000 | | 1001 |
| RX62 (1) | AF,AS,U,UA,UF | | | | | | | | |

⁽¹⁾ It requires a thermostat with heater management and the units without a housing also require the PCR1 or PCR2 accessory, depending on the unit. The heater is not available for sizes with a larger main battery.

Installation accessories

Wall mounting kit

| Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| U,UA | AMP20 |
| UF | AMP20 | - | - | AMP20 | AMP20 | - | - | AMP20 |
| Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| U,UA | AMP20 |
| UF | AMP20 | - | - | AMP20 | AMP20 | - | - | AMP20 |
| Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| U,UA | AMP20 | AMP20 | AMP20 | AMP20 | AMPZ | AMPZ | AMPZ | AMPZ |
| UF | AMP20 | - | - | AMP20 | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

| Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
|------|------|------|------|------|------|------|------|------|
| U,UA | AMPZ |
| Ver | 900 | | 901 | 9: | 50 | 1000 | | 1001 |
| U,UA | AMPZ | | AMPZ | AN | APZ | AMPZ | | AMPZ |

Condensate recirculation device

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|-----------|-----------|-----|-----|-----|-----|-----|------|-----|------|
| | A,AS,U,UA | • | • | • | • | • | • | • | • |
| DSCZ4 (1) | ACT,APC | • | | | | • | | | • |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| DSCZ4 (1) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| D3CZ4 (1) | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| DCC74 (1) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| DSCZ4 (1) | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| DCC74 (1) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| DSCZ4 (1) | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| DCC74 (1) | A,AS,U,UA | • | | • | | • | • | | • |
| DSCZ4 (1) | ACT,APC | • | | | | • | • | | |

⁽¹⁾ DSC4 cannot be mounted if even just one of these accessories is also installed: AMP - AMPZ valve VCZ1-2-3-4 X4L/R and all the condensate collection trays.

Condensate drip

| comaciii | sate arip | | | | | | | | |
|------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
| BCZ4 (1) - | A,AS,U,UA | • | • | • | • | • | • | • | • |
| DCZ4 (1) | ACT,APC | • | | | • | • | | | • |
| DC7F (2) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| BCZ5 (2) - | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| DC74 (1) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| BCZ4 (1) - | ACT,APC | • | | | • | • | | | • |
| | | | | | | | | | |

| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|------------|-----------|-----|-----|-----|-----|-----|------|-----|------|
| DC7F (2) | A,AS,U,UA | • | • | • | • | • | • | • | |
| BCZ5 (2) - | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| DC74 (1) _ | A,AS,U,UA | • | • | • | • | • | • | • | |
| BCZ4 (1) - | ACT,APC | • | | | • | • | | | • |
| DC7F (2) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| BCZ5 (2) - | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| DC74 (1) | A,AS,U,UA | • | • | • | • | • | • | • | |
| BCZ4 (1) - | ACT,APC | • | | | • | • | | | • |
| DC7F (2) | A,AS,U,UA | • | • | • | • | • | • | • | • |
| BCZ5 (2) - | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 900 | | 901 | 9: | 50 | 1000 | | 1001 |
| DC74 (1) | A,AS,U,UA | • | | • | | • | • | | • |
| BCZ4 (1) - | ACT,APC | • | | | | • | • | | |
| BCZ6 (2) - | A,AS,U,UA | • | | • | | • | • | | |
| h(/h(/) - | ACT,APC | • | | | | | | | |

Panel closing the rear of the unit

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|----------|-----------|-----|-----|-----|-----|-----|------|-----|------|
| 0.67100 | A,AS,U,UA | • | • | • | • | | | | |
| PCZ100 | ACT,APC | • | | | • | | | | |
| 0.7700 | A,AS,U,UA | | | | | • | • | • | |
| PCZ200 | ACT,APC | | | | | • | | | • |
| Nodel | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| 0.67200 | A,AS,U,UA | • | • | • | • | | | | |
| PCZ300 | ACT,APC | • | | | • | | | | |
| 0.67500 | A,AS,U,UA | | | | | • | • | • | |
| PCZ500 | ACT,APC | | | | | • | | | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| PCZ500 | A,AS,U,UA | • | • | • | • | | | | |
| r(Z)00 | ACT, APC | • | | | • | | | | |
| PCZ800 | A,AS,U,UA | | | | | • | • | • | • |
| 12000 | ACT,APC | | | | | • | | | • |
| Nodel | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| 0.67000 | A,AS,U,UA | • | • | • | • | • | • | • | • |
| PCZ800 | ACT,APC | • | | | • | • | | | • |
| Model | Ver | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| 0.671000 | A,AS,U,UA | • | | • | | • | • | | • |
| PCZ1000 | ACT,APC | | | | | | | | |

Lower intake arille

| Lower Intak | e grille | | | | | | | | |
|-------------|----------|-----|-----|-----|-----|-----|------|-----|------|
| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
| GA100 | U,UA | • | • | • | • | | | | |
| GA200 | U,UA | | | | | • | • | • | • |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| GA300 | U,UA | • | • | • | • | | | | |
| GA500 | U,UA | | | | | • | • | • | • |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| GA500 | U,UA | • | • | • | • | | | | |
| GA800 | U,UA | | | | | • | • | • | • |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| GA800 | U,UA | • | • | • | • | • | • | • | • |
| Model | Ver | 900 | | 901 | 9 | 50 | 1000 | | 1001 |
| GA800 | U,UA | | | | ' | | | | |

${\it Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil}$

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
|-------------------|-------------------------|-----|----------|-----|----------|-----|-----|-----|-----|
| FIKIT100 | A,AS,U,UA | • | • | • | • | | | | |
| FINIT TOU | ACT,AF,APC,UF | • | | | • | | | | |
| FIKIT200 | A,AS,U,UA | | | | | • | • | | • |
| FINITZUU | ACT,AF,APC,UF | | | | | • | | | • |
| | | | | | | | | | |
| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| | Ver A,AS,U,UA | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Model FIKIT300 | | 300 | 301 • | 302 | 350 • | 400 | 401 | 402 | 450 |

⁽²⁾ For horizontal installation.

| Model | Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|---|---|------------|----------------------|-----------------|-----|------------|-----------------|-----------------|----------|
| FII/ITEGO | A,AS,U,U | A | | | | | • | • | |
| FIKIT500 | ACT,AF,APC | ,UF | | | | • | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 |
| FIKIT500 | A,AS,U,U | | • | • | • | | | | |
| 11111300 | ACT,AF,APC | | | | • | | | | |
| FIKIT800 | A,AS,U,U | | | | | • | • | • | • |
| | ACT,APC | - | | | | • | | | |
| Model | Ver | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| FIKIT800 | ACT,APC | • | | | • | • | | | • |
| | U,UA | • | • | • | • | • | • | • | • |
| Model | Ver | | 900 | 901 | | 950 | 1000 | | 1001 |
| FIKIT800 | A,AS,U,U | | • | • | | • | • | | • |
| 11111000 | ACT,AF,APC | ,UF | • | | | • | • | | |
| | | | | | | | | | |
| | ish structural feet | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
| | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
| Model | | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 |
| Model ZXZ | Ver A,AS,U,UA | • | | | • | • | | | • |
| Model ZXZ Model | Ver A,AS,U,UA ACT,APC | • | • | • | • | • | • | • | • |
| Model ZXZ Model | Ver A,AS,U,UA ACT,APC Ver | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Model ZXZ Model ZXZ | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Model ZXZ Model ZXZ Model | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Model ZXZ Model ZXZ Model | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver | 300 | 301 · | 302 • | 350 | 400 | 401 • | 402 | 450 · |
| Model ZXZ Model ZXZ Model ZXZ | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver Ver | 300 | 301 · | 302 • | 350 | 400 600 | 401 • | 402 | 450 |
| Model ZXZ Model ZXZ Model ZXZ Model | Ver | 300 500 | 301 • | 302 • 502 | | 400 600 | 401 • 601 | 402 • 602 | 450 |
| Model ZXZ Model ZXZ Model ZXZ Model | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver Ver | | 301 • 501 • | 302 502 | | | 401 601 | 402 · 602 · | 450 |
| Model ZXZ Model ZXZ Model ZXZ Model ZXZ | Ver | | 301 • 501 • | 302 502 | | | 401 601 | 402 · 602 · | 450 |
| Model ZXZ Model ZXZ Model ZXZ Model ZXZ Model ZXZ | Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA ACT,APC Ver A,AS,U,UA | | 301 • 501 • | 302 502 | | | 401 601 | 402 · 602 · | 450 |

PERFORMANCE SPECIFICATIONS

| _ | | | |
|----|----|---|---|
| 7- | ni | n | 0 |
| _ | h: | ۲ | ٠ |

| | | - | CZ10 | 0 | | FCZ15 | 0 | | CZ20 | <u> </u> | | CZ25 | 0 | | CZ30 | 0 | | FCZ35 | 0 | | CZ40 | 0 | | FCZ45 | 0 | | CZ50 | 0 | | CZ550 | |
|----------------------------------|--------|------|------|-------|------|-------|-------|------|------|----------|------|------|-------|------|------|--------|--------|-------|-------|------|------|-------|------|-------|-------|------|------|-------|------|-------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | Ĺ | M | H | Ė | M | H | Ė | M | H | t | M | H | Ĺ | M | H | Η | M | H | Ĺ | M | H | Ĺ | M | H | Ė | M | H | Ĺ | M | H |
| Heating performance 70 °C / 60 | °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,45 | 2,00 | 2,40 | 1,55 | 2,19 | 2,65 | 2,02 | 2,95 | 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 | 5,50 | 3,77 | 4,92 | 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 | 5,27 | 7,31 | 8,50 | 5,82 | 8,34 | 9,75 |
| Water flow rate system side | l/h | 125 | 172 | 206 | 136 | 192 | 232 | 177 | 258 | 324 | 193 | 278 | 355 | 304 | 391 | 482 | 330 | 431 | 539 | 379 | 503 | 627 | 400 | 551 | 685 | 462 | 641 | 745 | 510 | 731 | 855 |
| Pressure drop system side | kPa | 4 | 7 | 9 | 5 | 9 | 12 | 6 | 12 | 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 | 20 | 9 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Heating performance 45 °C / 40 | °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,72 | 0,99 | 1,19 | 0,77 | 1,09 | 1,31 | 1,00 | 1,46 | 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 | 2,73 | 1,87 | 2,44 | 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 | 2,62 | 3,63 | 4,22 | 2,89 | 4,14 | 4,85 |
| Water flow rate system side | l/h | 126 | 173 | 207 | 134 | 189 | 229 | 174 | 254 | 319 | 190 | 274 | 350 | 299 | 385 | 475 | 325 | 425 | 531 | 373 | 495 | 617 | 394 | 543 | 675 | 455 | 631 | 734 | 502 | 720 | 842 |
| Pressure drop system side | kPa | 4 | 7 | 10 | 5 | 9 | 12 | 6 | 12 | 18 | 8 | 15 | 22 | 8 | 12 | 18 | 8 | 14 | 20 | 10 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Cooling performance 7 °C / 12 °C | C (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,65 | 0,84 | 1,00 | 0,80 | 1,06 | 1,27 | 0,89 | 1,28 | 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | 2,17 | 2,65 | 1,89 | 2,46 | 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 | 2,68 | 3,69 | 4,25 | 2,91 | 4,13 | 4,79 |
| Sensible cooling capacity | kW | 0,51 | 0,69 | 0,83 | 0,57 | 0,80 | 0,97 | 0,71 | 1,05 | 1,33 | 0,79 | 1,20 | 1,52 | 1,26 | 1,65 | 2,04 | 1,33 | 1,76 | 2,18 | 1,59 | 2,14 | 2,67 | 1,69 | 2,30 | 2,90 | 1,94 | 2,73 | 3,18 | 2,07 | 2,98 | 3,49 |
| Water flow rate system side | l/h | 112 | 144 | 172 | 138 | 182 | 219 | 153 | 221 | 275 | 182 | 267 | 334 | 288 | 374 | 456 | 350 | 460 | 560 | 379 | 503 | 619 | 414 | 552 | 694 | 460 | 634 | 731 | 501 | 711 | 824 |
| Pressure drop system side | kPa | 4 | 6 | 8 | 6 | 12 | 13 | 6 | 12 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 | 18 | 25 | 10 | 16 | 24 | 9 | 15 | 22 | 13 | 22 | 29 | 12 | 22 | 28 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | | | | Centr | ifugal | | | | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | | | ı | Asynch | ronou | S | | | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 110 | 160 | 200 | 110 | 160 | 200 | 140 | 220 | 290 | 140 | 220 | 290 | 260 | 350 | 450 | 260 | 350 | 450 | 330 | 460 | 600 | 330 | 460 | 600 | 400 | 600 | 720 | 400 | 600 | 720 |
| Input power | W | 19 | 29 | 35 | 19 | 29 | 35 | 25 | 29 | 33 | 25 | 29 | 33 | 25 | 33 | 44 | 25 | 33 | 44 | 30 | 43 | 57 | 30 | 43 | 57 | 38 | 52 | 76 | 38 | 52 | 76 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 31,0 | 38,0 | 45,0 | 31,0 | 38,0 | 45,0 | 35,0 | 46,0 | 51,0 | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 | 42,0 | 51,0 | 56,0 |
| Sound pressure | dB(A) | 23,0 | 30,0 | 37,0 | 23,0 | 30,0 | 37,0 | 27,0 | 38,0 | 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 34,0 | 43,0 | 48,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | 230V~ | ~50Hz | | | | | | | | | | | | | | |

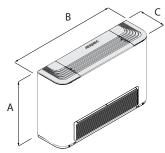
| | | | FCZ600 |) | | FCZ650 |) | | FCZ70 |) | | F CZ 75(|) | | FCZ80 |) | | FCZ850 |) | | FCZ90(|) | | FCZ95(|) | F | CZ100 | 0 |
|---------------------------------------|------|------|--------|-------|------|--------|-------|------|-------|-------|------|-----------------|-------|------|----------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) |) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity k | kW | 6,50 | 8,10 | 10,00 | 7,19 | 9,15 | 11,50 | 8,10 | 9,80 | 11,00 | 9,10 | 11,30 | 12,50 | 9,80 | 10,80 | 12,00 | 11,30 | 12,35 | 14,00 | 10,77 | 13,35 | 15,14 | 11,20 | 14,42 | 17,10 | 12,53 | 15,24 | 17,02 |
| Water flow rate system side | l/h | 570 | 710 | 877 | 631 | 802 | 1008 | 710 | 860 | 964 | 798 | 991 | 1096 | 859 | 947 | 1052 | 991 | 1083 | 1227 | 945 | 1171 | 1328 | 982 | 1264 | 1500 | 1101 | 1337 | 1493 |
| Pressure drop system side k | (Pa | 12 | 18 | 26 | 14 | 21 | 31 | 17 | 24 | 29 | 10 | 15 | 18 | 22 | 27 | 32 | 17 | 20 | 25 | 12 | 17 | 22 | 16 | 24 | 33 | 22 | 32 | 38 |
| Heating performance 45 °C / 40 °C (2) |) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 3,32 | 4,03 | 4,97 | 3,57 | 4,55 | 5,72 | 4,03 | 4,87 | 5,47 | 4,52 | 5,62 | 6,21 | 4,87 | 5,37 | 5,97 | 5,62 | 6,14 | 6,96 | 5,35 | 6,64 | 7,53 | 5,57 | 7,17 | 8,50 | 6,24 | 7,58 | 8,46 |
| Water flow rate system side | l/h | 561 | 699 | 863 | 621 | 790 | 993 | 699 | 846 | 950 | 786 | 975 | 1079 | 846 | 932 | 1036 | 975 | 1066 | 1209 | 930 | 1152 | 1307 | 967 | 1245 | 1476 | 1084 | 1316 | 1469 |
| Pressure drop system side k | (Pa | 12 | 18 | 26 | 14 | 20 | 31 | 16 | 24 | 29 | 10 | 14 | 18 | 22 | 26 | 32 | 6 | 20 | 25 | 12 | 17 | 22 | 15 | 24 | 33 | 22 | 31 | 38 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity k | κW | 3,22 | 3,90 | 4,65 | 3,95 | 4,80 | 5,67 | 3,92 | 4,89 | 5,50 | 4,27 | 5,34 | 6,14 | 4,84 | 5,66 | 6,10 | 5,26 | 6,29 | 6,91 | 4,29 | 5,00 | 6,91 | 5,77 | 7,32 | 8,60 | 5,69 | 6,88 | 7,62 |
| Sensible cooling capacity | kW | 2,56 | 3,17 | 3,92 | 2,78 | 3,43 | 4,12 | 2,99 | 3,76 | 4,30 | 3,20 | 4,05 | 4,72 | 3,72 | 4,42 | 4,83 | 4,00 | 4,83 | 5,36 | 2,97 | 3,78 | 5,68 | 3,80 | 4,87 | 5,78 | 4,42 | 5,34 | 5,53 |
| Water flow rate system side | l/h | 554 | 671 | 800 | 595 | 825 | 975 | 675 | 841 | 946 | 734 | 918 | 1056 | 833 | 974 | 1049 | 904 | 1082 | 1189 | 738 | 860 | 1189 | 992 | 1259 | 1479 | 979 | 1183 | 1311 |
| Pressure drop system side k | (Pa | 14 | 19 | 26 | 15 | 21 | 28 | 16 | 24 | 30 | 10 | 14 | 18 | 20 | 26 | 30 | 14 | 20 | 23 | 10 | 12 | 22 | 15 | 22 | 30 | 22 | 31 | 36 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type ty | ype | | | | | | | | | | | | | C | entrifug | al | | | | | | | | | | | | |
| Fan motor ty | ype | | | | | | | | | | | | | Asy | nchron | ous | | | | | | | | | | | | |
| Number r | 10. | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | |
| Air flow rate m | 1³/h | 520 | 720 | 920 | 520 | 720 | 920 | 700 | 930 | 1140 | 700 | 930 | 1140 | 900 | 1120 | 1300 | 900 | 1120 | 1300 | 700 | 930 | 1140 | 700 | 930 | 1140 | 900 | 1120 | 1300 |
| Input power | W | 38 | 60 | 91 | 38 | 60 | 91 | 59 | 80 | 106 | 59 | 80 | 106 | 80 | 100 | 131 | 80 | 100 | 131 | 59 | 80 | 106 | 59 | 80 | 106 | 80 | 100 | 131 |
| Electrical wiring | | ٧1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level di | B(A) | 42,0 | 51,0 | 57,0 | 42,0 | 51,0 | 57,0 | 50,0 | 57,0 | 62,0 | 50,0 | 57,0 | 62,0 | 56,0 | 61,0 | 66,0 | 56,0 | 61,0 | 66,0 | 51,0 | 57,0 | 62,0 | 51,0 | 57,0 | 62,0 | 56,0 | 61,0 | 66,0 |
| Sound pressure di | B(A) | 34,0 | 43,0 | 49,0 | 34,0 | 43,0 | 49,0 | 42,0 | 49,0 | 54,0 | 42,0 | 49,0 | 54,0 | 48,0 | 53,0 | 58,0 | 48,0 | 53,0 | 58,0 | 43,0 | 49,0 | 54,0 | 43,0 | 49,0 | 54,0 | 48,0 | 53,0 | 58,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | | | | | | | | | 3/4" | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | 23 | 80V~50 | Hz | | | | | | | | | | | | |

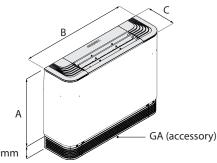
| - pipe | | ı | CZ10 | 1 | | FCZ20 | 1 | | CZ30 | 1 | | CZ40 | 1 | | FCZ50 | 1 | | FCZ60 | 1 | | FCZ70 | 1 | | FCZ80 | 1 | | FCZ90 | 1 | F | CZ100 | 1 |
|-------------------------------------|-------|------|------|------|------|-------|------|------|------|------|------|------|------|------|-------|--------|--------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C | (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,75 | 1,01 | 1,17 | 1,02 | 1,35 | 1,60 | 1,80 | 2,18 | 2,56 | 2,21 | 2,65 | 3,12 | 2,59 | 3,34 | 3,73 | 2,96 | 3,67 | 4,36 | 3,66 | 4,29 | 4,94 | 4,20 | 4,79 | 5,35 | 4,73 | 5,63 | 5,72 | 4,85 | 5,56 | 6,08 |
| Water flow rate system side | l/h | 65 | 89 | 102 | 89 | 118 | 140 | 158 | 191 | 224 | 186 | 232 | 273 | 227 | 293 | 327 | 259 | 321 | 381 | 320 | 375 | 437 | 368 | 419 | 467 | 414 | 492 | 501 | 424 | 487 | 532 |
| Pressure drop system side | kPa | 2 | 4 | 4 | 4 | 8 | 10 | 16 | 23 | 30 | 4 | 6 | 8 | 6 | 8 | 10 | 8 | 12 | 16 | 11 | 14 | 18 | 16 | 20 | 24 | 8 | 12 | 12 | 10 | 14 | 16 |
| Cooling performance 7 °C / 12 °C (2 | !) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,65 | 0,84 | 1,00 | 0,89 | 1,28 | 1,60 | 1,68 | 2,17 | 2,65 | 2,20 | 2,92 | 3,60 | 2,68 | 3,69 | 4,25 | 3,22 | 3,90 | 4,65 | 3,92 | 4,89 | 5,50 | 4,84 | 5,66 | 6,10 | 4,29 | 5,00 | 6,91 | 5,69 | 6,88 | 7,62 |
| Sensible cooling capacity | kW | 0,51 | 0,69 | 0,83 | 0,71 | 1,05 | 1,33 | 1,26 | 1,65 | 2,04 | 1,59 | 2,14 | 2,67 | 1,94 | 2,73 | 3,18 | 2,56 | 3,17 | 3,92 | 2,99 | 3,76 | 4,30 | 3,72 | 4,42 | 4,83 | 2,97 | 3,78 | 5,68 | 4,42 | 5,34 | 5,53 |
| Water flow rate system side | l/h | 112 | 144 | 172 | 153 | 221 | 275 | 288 | 374 | 456 | 379 | 503 | 619 | 460 | 634 | 731 | 554 | 671 | 800 | 675 | 841 | 946 | 833 | 974 | 1049 | 738 | 860 | 1189 | 979 | 1183 | 1311 |
| Pressure drop system side | kPa | 4 | 6 | 8 | 6 | 12 | 18 | 8 | 13 | 18 | 10 | 16 | 24 | 13 | 22 | 29 | 14 | 19 | 26 | 16 | 24 | 30 | 20 | 26 | 30 | 10 | 12 | 22 | 22 | 31 | 36 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | | | | Centr | ifugal | | | | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | | | I | Asynch | ronou | S | | | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 110 | 160 | 200 | 140 | 220 | 290 | 260 | 350 | 450 | 330 | 460 | 600 | 400 | 600 | 720 | 520 | 720 | 920 | 700 | 930 | 1140 | 900 | 1120 | 1300 | 700 | 930 | 1140 | 900 | 1120 | 1300 |
| Input power | W | 19 | 29 | 35 | 25 | 29 | 33 | 25 | 33 | 44 | 30 | 43 | 57 | 38 | 52 | 76 | 38 | 60 | 91 | 59 | 80 | 106 | 80 | 100 | 131 | 59 | 80 | 106 | 80 | | 131 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 |
| Fan coil sound data (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 31,0 | 38,0 | 45,0 | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 | 42,0 | 51,0 | 57,0 | 50,0 | 57,0 | 62,0 | 56,0 | 61,0 | 66,0 | 51,0 | 57,0 | 62,0 | 56,0 | 61,0 | 66,0 |
| | dB(A) | 23,0 | 30,0 | 37,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 34,0 | 43,0 | 49,0 | 42,0 | 49,0 | 54,0 | 48,0 | 53,0 | 58,0 | 43,0 | 49,0 | 54,0 | 48,0 | 53,0 | 58,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | | | | | | | | | | | | | | 1/ | 2" | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | 230V- | ~50Hz | | | | | | | | | | | | | | |

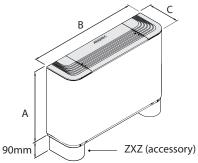
⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS







| | | | 801 | mm 🏳 | | | | | | | 7011 | | |) • | 2,12 | (uccc) | 30177 |
|------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| | | FCZ100 | FCZ101 | FCZ102 | FCZ150 | FCZ200 | FCZ201 | FCZ202 | FCZ250 | FCZ300 | FCZ301 | FCZ302 | FCZ350 | FCZ400 | FCZ401 | FCZ402 | FCZ450 |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |
| В | mm | 640 | 640 | 640 | 640 | 750 | 750 | 750 | 750 | 980 | 980 | 980 | 980 | 1200 | 1200 | 1200 | 1200 |
| C | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| Empty weight | kg | 13 | 14 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 33 | 23 | 23 | 24 |
| | | FCZ500 | FCZ501 | FCZ502 | FCZ550 | FCZ600 | FCZ601 | FCZ602 | FCZ650 | FCZ700 | FCZ701 | FCZ702 | FCZ750 | FCZ800 | FCZ801 | FCZ802 | FCZ850 |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |
| В | mm | 1200 | 1200 | 1200 | 1200 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 |
| C | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| Empty weight | kg | 24 | 22 | 23 | 24 | 24 | 29 | 31 | 33 | 29 | 31 | 33 | 33 | 29 | 29 | 31 | 33 |
| | | | FCZ900 | | | FCZ9 | 01 | | FCZ | 950 | | F | CZ1000 | | | FCZ1001 | |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | mm | | 591 | | | 591 | | | 5! | 91 | | | 591 | | | 591 | |
| В | mm | | 1320 | | | 1320 | 0 | | 13 | 320 | | | 1320 | | | 1320 | |
| (| mm | | 220 | | | 220 |) | | 2. | 20 | | | 220 | | | 220 | |
| Empty weight | kg | | 34 | | | 34 | | | 3 | 34 | | | 34 | | | 34 | |



















FCZI

Fan coil with brushless inverter motor, for universal and floor installation

Cooling capacity 0,89 ÷ 6,91 kW Heating capacity 2,02 ÷ 17,10 kW



- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Touch controller mounted on-board. allows remote control with smart devices
- Very quiet





DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Depending on the version, the distribution grille may be adjustable.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional

They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main coil, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

Versions

ACT High, with air distribution grille and electronic thermostat

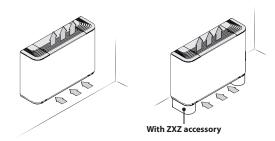
AF High, without built-in command but with front intake

AS Free standing without installed switch

 $\boldsymbol{\mathsf{U}}$ Universal, with adjustable air distribution grille but without built-in thermostat

UF Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

Versions with fixed grille (high cabinet)



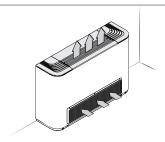
FCZI_AS

Compatibility with VMF system.

Without installed switch

FCZI ACT

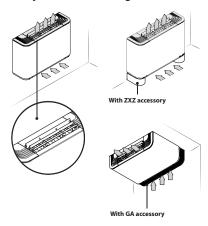
With electronic thermostat for 2-pipe systems only.



FCZI_AF

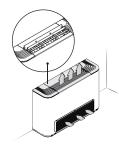
- Without installed switch
- Compatibility with VMF system.
- Front intake grille.

Versions with adjustable and fixed grille (universal)



FCZI_U

- Compatibility with VMF system.
- Without installed switch
- Distribution grille with adjustable fins. Sizes 2 and 3 have a single grille, whereas sizes 4, 5, 7 and 9 have three grilles fully independent of each other. When all the louvers have closed, the unit switches off.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.



FCZI_UF

- Compatibility with VMF system.
- Without installed switch
- Air delivery grille with adjustable louvers.
- Vertical and horizontal installation.

ThermApp

In units with a T-TOUCH-I electronic thermostat and the **ThermApp** application, the operating mode can be set and the weekly timer programmed by simply resting the smart device on the fan coil. The graphic interface of the app also gives access to a lot more information such as the alarm list, the closest SAT, etc.

Available for Android operating systems.



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|---------|---|
| 1,2,3,4 | FCZI |
| 5 | Size 2, 3, 4, 5, 7, 9 |
| 6 | Main coil |
| 0 | Standard |
| 5 | Oversized |
| 7 | Secondary coil |
| 0 | Without coil |
| 1 | Standard |
| 2 | Oversized |
| 8,9,10 | Version |
| | Only vertical installation. |
| ACT | High, with air distribution grille and electronic thermostat |
| AF | High, without built-in command but with front intake |
| AS | Free standing without installed switch |
| | Vertical and horizontal installation. |
| U | Universal, with adjustable air distribution grille but without built-in thermostat |
| | Universal, with adjustable air distribution grille but without built-in thermostat and |
| | with front intake grille |
| UF | Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille |

SIZE AVAILABLE FOR VERSION

| SIZE MOMIEMBEE | OIL VEILS | 1011 | | | | | | | | | | | |
|------------------------------|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Size | | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Versions produced (by size) | | | | | | | | | | | | | |
| Varriana available (bu sine) | AS,ACT,U | • | | | | • | | | | | | | • |
| Versions available (by size) | AF,UF | • | - | - | • | • | - | - | • | • | - | - | • |
| | | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| Versions produced (by size) | | | | | | | | | | | | | |
| Varcione available (by size) | A,AS,U,UA | | | • | • | • | • | • | • | • | • | • | |
| Versions available (by size) | AF,UF | • | - | - | • | - | - | - | - | | - | | |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH-I: Touch control on board the machine, for controlling fan coils with brushless motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZI-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBI: On board thermostat for fan coils 2/4 pipes of the FCZI series with brushless motor, complete with water probe and air probe to be positioned in the dedicated housings. The thermostat in 2-pipe systems it can control standard fan coils or those equipped with electrical resistors, with purification devices (Cold Plasma and germicidal lamp) with the radiating plate or with double flow FCZI-D (Dualjet).

VMF system

VMF-E19I: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features:In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/ presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected

VMF-E22: User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E0,VMF-E19, VMF-E19I.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4X: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 ed VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air

purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - **45** - **for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Additional coil

BV: Single row hot water heat exchanger.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

AMP: Wall mounting kit

ZXZ: Pair of stylish and structural feet.

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AFDFORID (1) | AF,UF | | | | • | | | | | | | | • |
| AER503IR (1) | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| DDOLOS | AF,UF | • | | | • | • | | | | • | | | • |
| PR0503 | AS,U | • | | • | • | | • | • | | | • | | • |
| CAE (2) | AF,UF | • | | | • | • | | | • | • | | | • |
| SA5 (2) | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | AF,UF | • | | | • | • | | | • | • | | | • |
| 3W3 (2) | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 (2) | AF,UF | • | | | • | • | | | • | • | | | • |
| JVVJ (2) | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| T-TOUCH-I | AF,UF | • | | | • | • | | | • | • | | | • |
| 1-10001-1 | AS,U | • | • | • | • | • | | • | • | • | • | • | • |
| TV (1) | AF,UF | • | | | • | • | | | • | • | | | • |
| TX (1) | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| TXBI (3) | AF,UF | • | | | • | • | | | • | • | | | • |
| (כ) ומאז | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 701 | | 702 | 750 | 900 | 901 | 950 |
| AEDE031D (1) | AF,UF | • | | | | | | | | | • | | |
| AER503IR (1) | | | | | | | | | | | | | |
| | AS,U | • | • | • | • | • | • | | • | • | • | • | • |
| DDOCOS | AS,U AF,UF | • | • | • | • | • | • | | • | • | • | • | • |
| PR0503 | | | • | • | | | • | | • | | | • | |
| | AF,UF | • | | | • | • | | | | • | • | | • |
| PR0503 SA5 (2) | AF,UF AS,U | • | | | • | • | | | | • | • | | • |
| SA5 (2) | AF,UF AS,U AF,UF | • | • | • | • | • | • | | • | • | • | • | • |
| | AF,UF AS,U AF,UF AS,U | • | • | • | • | • | • | | • | • | • | • | • |
| SA5 (2) SW3 (2) | AF,UF AS,U AF,UF AS,U AF,UF | | | | • | • | | | | | | | • |
| SA5 (2) | AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U | | | | | • | | | | | | | • |
| SA5 (2) SW3 (2) SW5 (2) | AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF | | | | | | • | | | | | | |
| SA5 (2) SW3 (2) | AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF | | | | | | • | | | | | | |
| SA5 (2) SW3 (2) SW5 (2) T-TOUCH-I | AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF AS,U AF,UF | | | • | | | | | | | | | |
| SA5 (2) SW3 (2) SW5 (2) | AF,UF AS,U | | | • | | | | | | | | | |
| SA5 (2) SW3 (2) SW5 (2) T-TOUCH-I | AF,UF AS,U AF,UF | | | | | | | | | | | | |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted. (3) Installation on the fan coil.

VMF system For more information about VMF system, refer to the dedicated documentation.

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|----------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | AF,UF | • | | | • | • | | | • | • | | | • |
| VMF-E19I | AS,U | • | | | | | | | | | • | | |
| VIAE E27 | AF,UF | • | | | | | | | | | | | |
| VMF-E2Z | AS,U | • | | • | | • | • | • | | | • | • | • |
| VME E2 | AF,UF | • | | | • | • | | | • | • | | | • |
| VMF-E3 | AS,U | • | • | • | • | • | • | • | | • | • | • | • |
| VMF FAV | AF,UF | • | | | | • | | | | | | | • |
| VMF-E4X | AS,U | • | • | • | • | • | • | • | | • | • | • | • |
| VME IO | AF,UF | • | | | | • | | | | • | | | • |
| VMF-IO | AS,U | • | | • | | • | • | • | • | • | • | • | • |
| VMF-IR | AF,UF | • | | | • | • | | | | | | | • |
| VMF-IK | AS,U | • | | • | | • | • | • | | | • | • | • |
| VME ION | AF,UF | • | | | • | • | | | • | • | | | • |
| VMF-LON | AS,U | • | | • | | • | • | • | | | • | • | |
| VMF CW | AF,UF | • | | | • | • | | | • | • | | | • |
| VMF-SW | AS,U | • | • | • | • | • | • | • | | | • | • | |
| VMF CW1 | AF,UF | • | | | | • | | | | | | | |
| VMF-SW1 | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| VMHI | AF,UF | | | | | • | | | | | | | |
| VIMILI | AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |
| | AF,UF | | | | | | | | | | | | |
| VMF-E19I | AS,U | • | | | | | | | • | | | • | |
| VMF F27 | AF,UF | | | | | | | | | | | | |
| VMF-E2Z | AS,U | | | | | | | | | | | | |
| VME E2 | AF,UF | • | | | | | | | | • | • | | |
| VMF-E3 | AS,U | • | | | | | | | | | | | |

| Model | Ver | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|-------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF FAV | AF,UF | • | | | • | | | | | • | | • |
| VMF-E4X | AS,U | • | | • | • | | | | | • | • | |
| VMF-IO | AF,UF | • | | | • | | | | | • | | |
| VIVIT-IU | AS,U | • | • | • | • | • | • | • | • | • | • | • |
| VMF-IR | AF,UF | • | | | • | • | | | • | • | | |
| VIVIT-IN | AS,U | • | • | • | • | • | • | • | • | • | • | |
| /MF-LON | AF,UF | • | | | • | | | | | • | | • |
| VIVIT-LUIN | AS,U | • | • | • | • | • | • | • | • | • | • | |
| VMF-SW | AF,UF | • | | | • | | | | | • | | • |
| /IVIT-3VV | AS,U | • | • | • | • | • | • | • | • | • | • | |
| /MF-SW1 | AF,UF | • | | | • | | | | | • | | |
| I VVC-JIVIT | AS,U | • | • | • | • | • | • | • | • | • | • | |
| /MHI | AF,UF | • | | | • | | | | | • | | |
| INILI | AS.U | | | | | | | | | | | |

Water valves

3 way valve kit

| 5 Way varve Kit | | | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Main coil | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ42 |
| Main Coil | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4224 |
| C | | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | |
| Secondary coil | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - |
| A 1.1141 1 11 // D.W/ | VCF44 | | | | VCF44 | | | | VCF44 | | | |
| Additional coil "BV" | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - |
| | | | | | | | | | | | | |
| | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| Main coil | VCZ42 | VCZ43 | VCZ43 | VCZ43 | |
| Main coil | VCZ4224 | VCZ4324 | VCZ4324 | VCZ4324 | |
| Casandami sail | | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF45 | | |
| Secondary coil | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4524 | - | |
| A 1.1141 1 11 // DV// | VCF44 | | | | VCF44 | | | | VCF45 | | | |
| Additional coil "BV" | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4524 | - | - | |

VCZ41 - 42 - 43; VCF44 - 45 (230V~50Hz) VCZ4124 - 4224 - 4324; VCF4224 - 4524 (24V)

2 way valve kit

| 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|---------|---|---|--|---|--|--|--|---|---|---|---------|
| VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 |
| VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 |
| | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | |
| - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - |
| VCFD4 | | | | VCFD4 | | | | VCFD4 | | | |
| VCFD424 | | | | VCFD424 | | | | VCFD424 | | | |
| | | | | | | | | | | | |
| 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD3 | VCZD3 | VCZD3 | |
| VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD324 | VCZD324 | VCZD324 | |
| | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | | |
| - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - | - | VCFD424 | - | |
| VCFD4 | | | | VCFD4 | | | | VCFD4 | | | |
| VCFD424 | - | - | - | VCFD424 | - | - | - | VCFD424 | - | - | |
| | VCZD1 VCZD124 - VCFD4 VCFD424 500 VCZD2 VCZD224 - VCFD4 | VCZD1 VCZD1 VCZD124 VCZD124 VCFD4 VCFD424 VCFD424 S00 S01 VCZD2 VCZD2 VCZD224 VCZD224 VCFD424 VCFD424 VCFD424 VCFD424 | VCZD1 VCZD1 VCZD124 VCZD124 VCZD124 VCZD124 VCFD4 VCFD4 VCFD424 VCFD4 VCFD424 VCFD424 VCFD4 - - S00 S01 S02 VCZD2 VCZD2 VCZD2 VCZD24 VCZD224 VCZD224 VCFD4 VCFD424 VCFD424 VCFD4 VCFD424 VCFD424 | VCZD1 VCZD1 VCZD1 VCZD124 VCZD124 VCZD124 VCZD124 VCZD124 VCFD4 VCFD4 VCFD424 VCFD424 VCFD4 VCFD424 VCFD424 - VCFD4 - - - VCFD424 - - - SO0 SO1 SO2 SSO VCZD2 VCZD2 VCZD2 VCZD2 VCZD224 VCZD224 VCZD224 VCZD224 VCFD4 VCFD424 VCFD424 - VCFD4 - - - | VCZD1 VCZD1 VCZD1 VCZD1 VCZD2 VCZD124 VCZD124 VCZD124 VCZD124 VCZD224 VCFD4 VCFD4 VCFD424 VCFD424 VCFD4 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 S00 S01 S02 S50 700 VCZD2 VCZD2 VCZD2 VCZD2 VCZD2 VCZD24 VCZD224 VCZD224 VCZD224 VCZD224 VCFD4 VCFD424 VCFD424 VCFD424 VCFD424 VCFD4 VCFD424 VCFD424 VCFD424 VCFD424 | VCZD1 VCZD1 VCZD1 VCZD1 VCZD2 VCZD24 VCZD124 VCZD124 VCZD124 VCZD124 VCZD224 VCZD224 VCFD4 VCFD4 VCFD4 VCFD424 VCFD424 VCFD4 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 SOO SO1 SO2 S50 700 701 VCZD2 VCZD2 VCZD2 VCZD2 VCZD2 VCZD2 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCFD4 VCFD424 VCFD424 VCFD424 VCFD424 VCFD424 | VCZD1 VCZD1 VCZD1 VCZD2 VCZD2 VCZD2 VCZD2 VCZD24 VCZD24 VCZD224 VCZD24 VCFD424 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCZD224 VCFD424 VCFD424 | VCZD1 VCZD1 VCZD1 VCZD2 VCZD2 VCZD2 VCZD2 VCZD2 VCZD24 VCZD24 VCZD224 VCZD24 VCZD24 VCZD24 VCZD24 VCZD24 VCZD24 VCZD22 VCZD2 VCZD2 VCZD2 VCZD22 VCZD22 VCZD224 VCZD22 | VCZD1 VCZD1 VCZD1 VCZD2 VCZD224 VCZD24 VCZD24 VCFD424 VCFD4 | VCZD1 VCZD1 VCZD1 VCZD1 VCZD2 VCZD224 VCZD24 VCFD424 VCFD | VCZD1 |

VCZD1 - 2 - 3; VCFD4 (230V~50Hz) VCZD124 - 224 - 324; VCFD424 (24V)

Valve Kit for 4 pipe systems

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VCZ1X4L (1) | AF,AS,U,UF | • | | | • | | | | | | | | |
| VCZ1X4R (1) | AF,AS,U,UF | • | | | • | | | | | | | | |
| VCZ2X4L (1) | AF,AS,U,UF | | | | | • | | | • | • | | | |
| VCZ2X4R (1) | AF,AS,U,UF | | | | | • | | | • | • | | | • |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7(|)1 | 702 | 750 | 900 | 901 | 950 |
| VC70V4L (1) | AF,UF | • | | | • | | | | | | | | |
| VCZ2X4L (1) | AS,U | • | | | • | • | | | | • | | | |
| VCZ2X4R (1) | AF,UF | • | | | • | | | | | | | | |
| VCZZA4K (1) | AS,U | • | | | • | | | | | • | | | |
| VCZ3X4L (1) | AF,AS,U,UF | | | | | | | | | | • | | • |
| VCZ3X4R (1) | AF,AS,U,UF | | | | | | | | | | • | | • |

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancina Valve Kit

| Combined Adjustmer Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|---------------------------------|----------------------------|------------------|-----------------|-----------------|---------------|------------------|-----------|--------------|----------|-----|-----|-----|----------|
| | ACT,AS,U | | • | • | | • | • | | | 400 | 401 | 402 | 430 |
| /JP060 (1) | AF,UF | • | • | • | • | • | | - | • | | | | |
| | ACT,AS,U | • | | • | • | • | | • | • | | | | |
| 'JP060M (2) | AF,UF | • | | | | | | | | | | | |
| | ACT,AS,U | | | | | | | | | • | • | • | |
| /JP090 (1) | AF,UF | | | | | | | | | | | | |
| | ACT,AS,U | | | | | | | | | | | | |
| /JP090M (2) | AF,UF | | | | | | | | | | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7 | 01 | 702 | 750 | 900 | 901 | 950 |
| viouei | ACT,AS,U | | | . 502 | | 700 | | U I | /02 | /30 | 900 | 901 | 930 |
| /JP090 (1) | ACT,AS,U AF,UF | <u> </u> | • | • | • | | | | | | | | |
| | ACT,AS,U | | • | • | • | | | | | | | - | |
| VJP090M (2) | ACI,AS,U AF,UF | _ <u>:</u> | • | • | <u>:</u> | | | | | | | | |
| | ACT,AS,U | | | | · · | | | • | | | | | |
| /JP150 (1) | AF,UF | | | | | · · | | • | • | | • | | • |
| | ACT,AS,U | | | | | | | • | • | | • | • | · |
| /JP150M (2) | AF,UF | | | | | • | | • | <u> </u> | | • | | • |
| 4) 2201/ 501/ | 711,01 | | | | | | | | | | - | | |
| 1) 230V~50Hz 2) 24V | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Heating only) add | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| BV122 (1) | ACT,AF,AS,U,UF | • | | | | | | | | | | | |
| BV132 (1) | ACT,AF,AS,U,UF | | | | | • | | | | | | | |
| BV142 (1) | ACT,AF,AS,U,UF | | | | | | | | | • | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7 | 01 | 702 | 750 | 900 | 901 | 950 |
| | | | 301 | 302 | 330 | 700 | | U I | 702 | /30 | 700 | 701 | 930 |
| BV142 (1) | ACT,AF,AS,U,UF | • | | | | | | | | | | | |
| 8V162 (1) 8VZ800 (1) | ACT,AF,AS,U,UF ACT,AS,U | | | | | | | | | | • | | |
| Model AMP20 | Ver U | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| AMPZ | U | • | | • | • | • | | | | | • | • | |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7 | 01 | 702 | 750 | 900 | 901 | 950 |
| AMP20 | U | • | • | • | • | 700 | | • | 702 | 750 | 700 | | |
| AMPZ | U | • | | | | | | | | | | | |
| | | | 204 | 202 | 250 | 200 | 204 | 202 | 250 | 400 | 404 | 402 | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| DSCZ4 (1) | ACT,AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| | AF,UF | • | | | • | • | | | • | • | | | <u> </u> |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7 | 01 | 702 | 750 | 900 | 901 | 950 |
| DSCZ4 (1) | ACT,AS,U | • | • | • | • | • | | • | • | • | • | • | • |
| J3CET (1) | AF,UF | • | | | • | | | | | | • | | • |
| 1) DSC4 cannot be mounted if e | even just one of these ac | cessories is als | o installed: AM | IP - AMPZ valve | VCZ1-2-3-4 X4 | IL/R and all the | condensat | e collection | trays. | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| | ACT,AS,U | • | • | • | • | | • | • | | • | • | | • |
| BCZ4 (1) | AF,UF | • | | | • | • | | | | • | | | |
| DC7F (2) | ACT,AS,U | • | • | • | • | | | | • | • | • | | |
| BCZ5 (2) | AF,UF | • | | | • | • | | | | • | | | |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 7 | 01 | 702 | 750 | 900 | 901 | 950 |
| | ACT,AS,U | • | | | | | | • | • | | • | • | • |
| BCZ4 (1) | ACT,AS,U AF,UF | <u> </u> | • | • | • | • | | - | • | • | • | • | |
| | | | | | | | | | | | • | | |
| 3CZ5 (2) | ACT,AS,U AF,UF | • | • | • | • | • | | • | • | • | | | |
| | | • | | | • | | | | | | | | |
| BCZ6 (2) | ACT,AS,U AF,UF | | | | | | | | | | • | • | • |
| For vertical installation. | ΛΙ,UI | | | | | | | | | | - | | |
| 2) For horizontal installation. | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| PCZ200 | ACT,AS,U | • | • | • | • | | | | | | | | |
| | AF,UF | • | | | • | | | | | | | | |
| PCZ300 | ACT,AS,U | | | | | • | • | • | • | | | | |
| | AF,UF | | | | | • | | | • | | | | |
| | ACT AS II | | | | | | | | | | | | |

ACT,AS,U

AF,UF

PCZ500

| Model | Ver | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |
|---|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PCZ1000 | ACT,AS,U | | | | | | | | | | • | • | • |
| 1 (21000 | AF,UF | | | | | | | | | | • | | • |
| PCZ500 | ACT,AS,U | • | • | • | • | | | | | | | | |
| 1 (2)00 | AF,UF | • | | | • | | | | | | | | |
| PCZ800 | ACT,AS,U | | | | | • | • | | • | • | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| GA200 | AF,UF | • | | | • | | | | | | | | |
| unzoo | AS,U | • | • | • | • | | | | | | | | |
| GA300 | AF,UF | | | | | • | | | • | | | | |
| UAJ00 | AS,U | | | | | • | • | • | • | | | | |
| GA500 | AF,UF | | | | | | | | | • | | | • |
| | AS,U | | | | | | | | | • | • | • | |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |
| GA500 | AF,UF | • | | | • | | | | | | | | |
| UNCAD | AS,U | • | • | • | • | | | | | | | | |
| GA800 | AF,UF | | | | | | | | | | • | | • |
| UA000 | AS,U | | | | | • | • | | • | • | • | • | • |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| FIKIT200 | AF,UF | • | | | • | | | | | | | | |
| FINITZUU | AS,U | • | • | • | • | | | | | | | | |
| FIKIT300 | AF,UF | | | | | • | | | • | | | | |
| | AS,U | | | | | • | • | • | • | | | | |
| FIKIT500 | AF,UF | | | | | | | | | • | | | • |
| 111111111111111111111111111111111111111 | AS,U | | | | | | | | | • | • | • | • |
| Model | Ver | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |
| FIVITCOO | AF,UF | | | | • | | | | | | | | |
| FIKIT500 | AS,U | | | • | | | | | | | | | |
| FIKIT800 | AF,UF | | | | | | | | | | • | | • |
| - FINITOUU | AS,U | | | | | • | • | | • | • | • | • | • |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| 7.17 | ACT,AS,U | • | • | • | • | • | • | • | • | • | • | • | • |
| | AF,UF | • | | | • | • | | | • | • | | | • |
| ZXZ | AI,UI | | | | | | | | | | | | |
| ZXZ Model | Ver | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |
| | | 500 | 501 | 502 | 550 | 700 | 70 | 1 | 702 | 750 | 900 | 901 | 950 |

PERFORMANCE SPECIFICATIONS

Technical data - 2-pipe systems (main coil)

| _ | | | |
|----|---|----|---|
| 7. | n | in | Δ |
| | | | |

| 2-pipe | | FCZI | 200 | Т | FCZI250 | | | CZI300 | <u> </u> | | CZI35 | ·n | | CZI40 | n | | CZ145 | | | FCZI50 | ^ | | FCZI55 | 0 |
|---|---|---|---|--|---|---|--|--|--|--|---|--|--|--|--|--|--|---|---|--|---|--|--|--|
| | | 1 1 | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 7 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | | ΙĖ | M | H | Ĺ | M | H | Ė | M | H | i | M | Н | ÷ | M | H | Ė | M | H | Η | M | H |
| Heating performance 70 °C / 60 °C (1) | | 1 | | | | | | | | | | | _ | | | | | | | | | | | |
| Heating capacity | kW | 2,02 2, | 95 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 | 5,50 | 3,77 | 4,92 | 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 | 5,27 | 7,31 | 8,50 | 5,82 | 8,34 | 9,75 |
| Water flow rate system side | I/h | 177 25 | | | | 355 | _ | 391 | 482 | 330 | 431 | 539 | 379 | 503 | 627 | 400 | 551 | 685 | 462 | 641 | 745 | 510 | 731 | 855 |
| Pressure drop system side | kPa | 6 1 | 2 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 | 20 | 9 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,00 1,4 | 6 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 | 2,73 | 1,87 | 2,44 | 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 | 2,62 | 3,63 | 4,22 | 2,89 | 4,14 | 4,85 |
| Water flow rate system side | l/h | 174 25 | 4 319 | 190 | 274 | 350 | 299 | 385 | 475 | 325 | 425 | 531 | 373 | 495 | 617 | 394 | 543 | 675 | 455 | 631 | 734 | 502 | 720 | 842 |
| Pressure drop system side | kPa | 6 1 | 2 18 | 8 | 15 | 22 | 8 | 12 | 18 | 9 | 14 | 21 | 10 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 1,2 | 8 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | 2,17 | 2,65 | 1,89 | 2,46 | 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 | 2,68 | 3,69 | 4,25 | 2,91 | 4,13 | 4,79 |
| Sensible cooling capacity | kW | 0,71 1,0 | 5 1,33 | 0,79 | 1,20 | 1,52 | 1,26 | 1,65 | 2,04 | 1,33 | 1,76 | 2,18 | 1,59 | 2,14 | 2,67 | 1,69 | 2,30 | 2,90 | 1,94 | 2,73 | 3,18 | 2,07 | 2,98 | 3,49 |
| Water flow rate system side | l/h | 153 22 | 1 275 | 182 | 267 | 334 | 288 | 374 | 456 | 350 | 460 | 560 | 379 | 503 | 619 | 414 | 552 | 694 | 460 | 634 | 731 | 501 | 711 | 824 |
| Pressure drop system side | kPa | 6 1 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 | 18 | 25 | 10 | 17 | 24 | 9 | 15 | 22 | 13 | 23 | 29 | 12 | 22 | 28 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | Centri | fugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | Inve | rter | | | | | | | | | | | |
| Number | no. | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 140 22 | | 140 | | 290 | 260 | 350 | 450 | 260 | 350 | 450 | 330 | 460 | 600 | 330 | 460 | 600 | 400 | 600 | 720 | 400 | 600 | 720 |
| Input power | W | 5 8 | | 5 | 8 | 14 | 5 | 7 | 13 | 5 | 7 | 13 | 5 | 10 | 18 | 5 | 10 | 18 | 7 | 18 | 34 | 7 | 18 | 38 |
| Signal 0-10V | % | 44 6 | 8 90 | 44 | 68 | 90 | 52 | 70 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 49 | 68 | 90 | 50 | 74 | 90 | 50 | 74 | 90 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 35,0 46 | | - | | 51,0 | | 41,0 | 48,0 | - | 41,0 | | 37,0 | 44,0 | 51,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 | 42,0 | | 56,0 |
| Sound pressure | dB(A) | 27,0 38 | ,0 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 34,0 | 43,0 | 48,0 |
| Diametre hydraulic fittings | | | | _ | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | 1/ | 2" | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | 230V- | ~50Hz | | | | | | | | | | | |
| | | | FC | 21700 | | | | | FCZ | 750 | | | | | FCZ | 900 | | | | | FCZ | 1950 | | |
| | | 1 | | 2 | 3 | | 1 | | | 2 | | 3 | | 1 | - 2 | 2 | : | 2 | 1 | 1 | | 2 | | 3 |
| | | | | | | | _ | | | | | | | | | | | | | 1 | | | | |
| | | L | | М | Н | l | L | | ١ | Л | | Н | | L | Λ | Л | ŀ | | | L | | M | | H |
| Heating performance 70 °C / 60 °C (1) | | L | | | | | | | | | | | | | | | ŀ | 1 | | L | I | | | |
| Heating capacity | kW | 8,10 | 9 | ,80 | 11, | 00 | 9,1 | 10 | 11 | ,30 | 12 | 2,50 | 10 | ,77 | 13, | ,35 | 15 | ,14 | 11 | ,20 | 14 | ,42 | 17 | ',10 |
| Heating capacity Water flow rate system side | l/h | 8,10 710 | 9 |),80 360 | 11, 96 | 00 | 9,1 79 | 10 | 11, | ,30 91 | 12 | 2,50 096 | 10 | ,77 45 | 13, | ,35 71 | 15, 13 | ,14 28 | 11 | ,20 82 | 14 | ,42 164 | 17 15 | 7,10 500 |
| Heating capacity Water flow rate system side Pressure drop system side | | 8,10 | 9 | ,80 | 11, | 00 | 9,1 | 10 | 11, | ,30 | 12 | 2,50 | 10 | ,77 | 13, | ,35 71 | 15 | ,14 28 | 11 | ,20 | 14 | ,42 | 17 15 | ',10 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) | I/h kPa | 8,10 710 17 | 9 | 1,80 360 23 | 11, 96 29 | 00 64 9 | 9,1 79 10 | 10 8 | 11, 99 | ,30 91 5 | 12 10 | 2,50 096 18 | 10 94 | ,77 45 2 | 13, 11 | ,35 71 7 | 15, 13 | 14 28 2 | 11 | ,20 82 | 14 12 2 | ,42 164 15 | 17 15 3 | 7,10 500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 8,10 710 17 | 9 | 360 23 | 11, 96 29 5,4 | 00 64 9 | 9,1 79 10 | 10 8 0 | 11, 99 1 | ,30 91 5 | 122 | 2,50 096 18 | 10 94 1 | ,77 45 2 | 13, 11 1 6, | ,35 71 7 | 15, 13 2 | 14 28 2 | 111 9 | ,20 82 16 | 14 12 2 7, | ,42 164 15 | 17 15 3 | 7,10 500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa kW I/h | 8,10 710 17 4,03 699 | 9 8 | 1,80 360 23 4,87 | 11, 96 29 5,4 | 000 64 99 | 9,1 79 10 4,5 | 10 8 0 50 66 | 11, 99 1 5, | ,30 91 5 60 | 12 10 1 6, | 2,50 096 18 ,20 | 10 94 1 5, | ,77 45 2 35 30 | 13, 111 1 6, | ,35 71 7 64 52 | 15, 13 2 7, | 14 28 2 53 07 | 111 9 1 5, | ,20 82 16 .57 | 14 12 2 7, | ,42 264 25 17 | 17 15 3 8, | 7,10 500 33 50 476 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW | 8,10 710 17 | 9 8 | 360 23 | 11, 96 29 5,4 | 000 64 99 | 9,1 79 10 | 10 8 0 50 66 | 11, 99 1 5, | ,30 91 5 | 12 10 1 6, | 2,50 096 18 | 10 94 1 5, | ,77 45 2 | 13, 11 1 6, | ,35 71 7 64 52 | 15, 13 2 | 14 28 2 53 07 | 111 9 1 5, | ,20 82 16 | 14 12 2 7, | ,42 164 15 | 17 15 3 8, | 7,10 500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) | I/h kPa kW I/h kPa | 8,10 710 17 4,03 699 17 | 9 8 | 1,80 360 23 4,87 346 24 | 11,1 96 29 5,4 95 | 00 64 9 17 60 | 9,1 79 10 4,5 78 | 10 18 0 50 66 | 11, 99 1 5, 97 | ,30 91 5 60 75 | 12 10 1 6, 10 | 2,50 096 18 ,20 079 | 10 94 1 5, 93 | ,77 45 2 35 30 2 | 13, 11 1 6, 11 | ,35 71 7 64 52 7 | 15, 13 2 7, 13 2 | 1 ,14 28 2 53 07 | 55, 9 | ,20 82 16 .57 .67 | 14 12 2 7, 12 2 | ,42 64 5 17 45 | 177 155 33 8, 14 | 7,10 500 33 50 50 476 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | l/h kPa kW l/h kPa | 8,10 710 17 4,03 699 17 | 4 8 | 7,80 360 23 4,87 346 24 | 11,/ 96 29 5,4 95 29 | 00 64 9 17 60 9 | 9,1 79 10 4,5 78 10 | 10 18 0 50 66 0 | 11 99 1 5, 97 1 | ,30 91 5 60 75 5 | 12 10 1 6, 10 | 2,50 096 18 ,20 079 18 | 100 94 1 5, 93 1 | ,77 45 2 35 30 2 | 13, 11 1 6, 11 1 1 | 35 71 7 64 52 7 | 15, 13 2 7, 13 2 | 1 ,14 28 2 53 07 2 | 111 9 1 5, 9 | ,20 82 16 .57 67 | 14 12 2 7, 12 2 | ,42 264 25 17 245 24 | 177 155 33 8, 14 3 | 7,10 500 33 50 476 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa kW kW | 8,10 710 17 4,03 699 17 3,92 2,99 | 4 4 3 | 3,80 360 23 4,87 346 24 4,89 | 11, 96 29 5,4 95 29 5,5 4,3 | 000 64 99 17 60 99 | 9,1 79 10 4,5 78 10 4,2 3,2 | 10 18 10 10 10 10 10 10 10 10 10 10 10 10 10 | 11, 99 1 5, 97 1 5, | ,30 91 5 60 75 5 | 12 10 1 6, 10 1 6, | 2,50 096 18 ,20 079 18 | 100 94 11 5, 93 11 | ,77 45 2 35 30 2 29 97 | 13, 111 1 6, 111 1 5, 3, | ,35 71 7 64 52 7 | 15, 13, 2, 7,, 13, 2, 6,, | 1 1,14 228 22 25 353 07 22 291 | 5, 9 | ,20 82 16 .57 67 15 | 14 12 2 7, 12 2 7, | ,42 64 55 17 45 44 32 87 | 177 153 3 8, 14 3 8, 5, | 7,10 500 33 50 476 33 60 78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW L/h | 8,10 710 17 4,03 699 17 3,92 2,99 675 | 9 8 8 4 4 8 8 3 3 8 8 | 3,80 360 23 4,87 346 24 4,89 4,76 | 11,1 966 29 5,4 95 29 5,5 4,3 | 000 644 99 77 700 99 750 80 80 | 9,1 79 10 4,5 78 10 4,2 3,2 | 00 88 00 00 00 00 00 00 00 00 00 00 00 0 | 11 99 1 5, 97 1 5, 4, | ,30 91 5 60 75 5 34 05 | 122 100 100 100 100 100 100 100 100 100 | 2,50 096 18 ,20 079 18 ,14 ,72 | 10 94 1 5, 93 1 4, 2, | ,77 45 2 35 30 2 29 97 | 13, 11 1 6, 11 1 5,, 86 | ,35 71 7 64 52 7 00 78 | 15, 133 2 2 7, 7, 131 2 2 6, 5, 111 | 1 1,14 28 22 22 553 007 22 291 668 889 | 5, 5, 9, 5, 3, 9, 9, 9, 1 | ,20 82 16 .57 67 15 .77 .80 | 144 122 27 77,7 122 27 77,4,4,12 | ,42 264 25 17 245 24 32 87 | 177 155 3 8, 144 3 8, 5, | 7,10 500 33 50 476 33 60 ,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side | I/h kPa kW I/h kPa kW kW | 8,10 710 17 4,03 699 17 3,92 2,99 | 9 8 8 4 4 8 8 3 3 8 8 | 3,80 360 23 4,87 346 24 4,89 | 11, 96 29 5,4 95 29 5,5 4,3 | 000 644 99 77 700 99 750 80 80 | 9,1 79 10 4,5 78 10 4,2 3,2 | 00 88 00 00 00 00 00 00 00 00 00 00 00 0 | 11 99 1 5, 97 1 5, 4, | ,30 91 5 60 75 5 | 122 100 100 100 100 100 100 100 100 100 | 2,50 096 18 ,20 079 18 | 10 94 1 5, 93 1 4, 2, | ,77 45 2 35 30 2 29 97 | 13, 11 1 6, 11 1 5,, 86 | ,35 71 7 64 52 7 | 15, 13, 2, 7,, 13, 2, 6,, | 1 1,14 28 22 22 553 007 22 291 668 889 | 5, 5, 9, 5, 3, 9, 9, 9, 1 | ,20 82 16 .57 67 15 | 144 122 27 77,7 122 27 77,4,4,12 | ,42 64 55 17 45 44 32 87 | 177 155 3 8, 144 3 8, 5, | 7,10 500 33 50 476 33 60 78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW L/h kPa kW kW I/h kPa | 8,10 710 17 4,03 699 17 3,92 2,99 675 | 9 8 8 4 4 8 8 3 3 8 8 | 3,80 360 23 4,87 346 24 4,89 4,76 | 11,1 966 29 5,4 95 29 5,5 4,3 | 000 644 99 77 700 99 750 80 80 | 9,1 79 10 4,5 78 10 4,2 3,2 | 00 88 00 00 00 00 00 00 00 00 00 00 00 0 | 11 99 1 5, 97 1 5, 4, | ,30 91 5 60 75 5 34 05 | 122 100 100 100 100 100 100 100 100 100 | 2,50 096 118 18 18 18 18 18 18 17 17 17 17 17 17 17 17 17 17 17 17 17 | 10 9.4 5, 9.5 1 1 4, 2, | ,77 45 2 35 30 2 29 97 | 13, 11 1 6, 11 1 5,, 86 | ,35 71 7 64 52 7 00 78 | 15, 133 2 2 7, 7, 131 2 2 6, 5, 111 | 1 1,14 28 22 22 553 007 22 291 668 889 | 5, 5, 9, 5, 3, 9, 9, 9, 1 | ,20 82 16 .57 67 15 .77 .80 | 144 122 27 77,7 122 27 77,4,4,12 | ,42 264 25 17 245 24 32 87 | 177 155 3 8, 144 3 8, 5, | 7,10 500 33 50 476 33 60 ,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fressure drop system side Fan Type | kW I/h kPa kW I/h kPa kW kW I/h kPa type | 8,10 710 17 4,03 699 17 3,92 2,99 675 | 9 8 8 4 4 8 8 3 3 8 8 | 3,80 360 23 4,87 346 24 4,89 4,76 | 11,1 966 29 5,4 95 29 5,5 4,3 | 000 644 99 77 700 99 750 80 80 | 9,1 79 10 4,5 78 10 4,2 3,2 | 00 88 00 00 00 00 00 00 00 00 00 00 00 0 | 11 99 1 5, 97 1 5, 4, | ,30 91 5 60 75 5 34 05 | 122 100 100 100 100 100 100 100 100 100 | 2,50 18 18 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10 94 1 5, 92 1 4, 2, 73 1 1 ifugal | ,77 45 2 35 30 2 29 97 | 13, 11 1 6, 11 1 5,, 86 | ,35 71 7 64 52 7 00 78 | 15, 133 2 2 7, 7, 131 2 2 6, 5, 111 | 1 1,14 28 22 22 553 007 22 291 668 889 | 5, 5, 9, 5, 3, 9, 9, 9, 1 | ,20 82 16 .57 67 15 .77 .80 | 144 122 27 77,7 122 27 77,4,4,12 | ,42 264 25 17 245 24 32 87 | 177 155 3 8, 144 3 8, 5, | 7,10 500 33 50 476 33 60 ,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor | kW I/h kPa kW I/h kPa type type | 8,10 710 17 4,03 699 17 3,92 2,99 675 | 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 8,80 860 23 846 24 846 24 8,89 8,76 841 | 11,1 966 29 5,4 95 29 5,5 4,3 | 000 644 99 77 700 99 750 80 80 | 9,1 79 10 4,5 78 10 4,2 3,2 | 00 88 00 00 00 00 00 00 00 00 00 00 00 0 | 11, 99, 1 5, 90, 1 5, 4,, 9, | 334 005 18 55 | 122 100 100 100 100 100 100 100 100 100 | 2,50 18 18 20 20 20 20 20 20 20 20 20 20 20 20 20 | 10 9.4 5, 9.5 1 1 4, 2, | ,77 45 2 35 30 2 29 97 | 13, 111 1 1 1 1 1 5, 3, 86 | 77 77 77 77 77 77 77 77 77 77 77 77 78 78 | 15, 133 2 2 7, 7, 131 2 2 6, 5, 111 | 1 1,14 28 22 22 553 007 22 291 668 889 | 5, 5, 9, 5, 3, 9, 9, 9, 1 | ,20 82 16 .57 67 15 .77 .80 | 14 12 2 7, 12 2 2 7, 4, 4, | 17 17 145 145 145 145 159 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15 | 177 155 3 8, 144 3 8, 5, | 7,10 500 33 50 476 33 60 ,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | kW I/h kPa kW kW I/h kPa type type no. | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 99 8 | 360 360 23 3846 24 5,89 7,76 3841 225 | 11,/ 9669 25,4,3 955 25,5,4,3 4,3,3 944 36 | 000 144 199 147 170 199 199 190 190 190 190 190 19 | 9,1,1 799 10 4,5,2 78 10 4,2 7,3,2 7,3,2 | 100 188 100 150 166 166 100 177 177 177 177 177 177 177 177 177 | 11, 99, 11, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14 | 33 33 33 | 122 100 10 10 10 10 10 10 10 10 10 10 10 10 | 2,50 188 188 2,20 779 188 7,72 1956 | 10 94 1 1 5, 92 1 1 4, 4, 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7,77 45 2 335 80 2 2 2 29 997 338 0 | 13, 111 1 1 6, 6, 111 1 5, 86 1 | 77 77 77 77 77 77 77 77 77 77 77 77 77 | 15, 133 2 7, 133 2 6, 5, 111 2 | 1 1,14 28 22 553 07 22 91 68 89 22 | 5, 99 1 5, 3, 99 1 1 | L ,20 ,20 ,882 | 14 12 2 2 7,7,1 2 2 7,7,4,4,1 12 2 | 17 17 145 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | 177 155 3 8, 144 3 8, 5, 14 | 7,10 500 333 33 476 476 4776 4779 4779 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 99 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 8,87 8,89 7,76 841 3 3 3 | 11,/ 9669 25,/ 5,4,2 25,5 25,5 31,4,3 31,4 31,4 31,4 31,4 31,4 31,4 31 | 000 144 199 177 170 199 190 190 190 190 190 190 19 | 9,1,79 79 10 4,5,78 10 4,2 73 10 | 100 188 100 100 100 100 100 100 | 111 99 1 5, 99 1 1 | 334 005 188 338 338 | 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 2,50 18 18 2,20 20 20 779 18 18 4 4 14 14 19 | 100 9.4 1 1 5.5, 9.5 1 1 4., 2.2, 7.5 1 1 ifugal erter | 7,77 45 2 2 335 880 2 2 2 29 997 888 0 | 13, 111 1 1 6, 111 1 1 5, 3, 3, 1 | 771 77 77 77 77 77 77 77 77 78 8 60 9 3 3 3 | 15, 13, 22, 7,, 13, 23, 6,, 5,, 111, 22, | H 14 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 5, 99 11 5, 3, 3, 99 11 77 | L ,20 ,20 ,882 | 144 122 2 7,7,1 12 2 7,7,4,4,1 12 2 2 | 17 17 145 4 4 32 87 759 33 | 177 155 3 3 8, 144 3 3 8, 5, 144 3 3 | 7,10 500 500 333 550 476 333 660 778 4779 300 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h W | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 8,87 8,89 4,76 8,89 1,76 8,81 1,76 1,76 1,76 1,76 1,76 1,76 1,76 1,7 | 11,7 966-969-969-969-969-969-969-969-969-969 | 000 644 99 99 99 99 90 90 90 90 90 90 90 90 90 | 9,1,1 799 10 4,5,2 788 10 4,2 733 10 700 30 | 00 00 00 00 00 00 | 111 99 1 5, 97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 55 55 55 55 55 55 55 55 55 55 55 55 | 122 100 1 100 100 100 100 100 100 100 10 | 2,50 096 18 079 18 8 079 18 18 14 14 19 19 | 10 9.4 1 5.5, 9.5 1 1 4.4, 2.7 1 1 1 iifugal erter 7 (1 3 3 | 7,77 45 2 2 2 335 80 2 2 2 2 997 88 0 | 13, 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 77 77 77 77 77 77 77 77 78 860 80 00 | 15, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13 | H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5, 99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | L ,20 ,20 ,82 | 1 144 122 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 17 17 1445 14 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 177 155 3 3 8, 144 3 3 3 3 3 111 8 | 7,10 500 500 550 476 83 83 86 80 80 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 8,87 8,89 7,76 841 3 3 3 | 11,/ 9669 25,/ 5,4,2 25,5 25,5 31,4,3 31,4 31,4 31,4 31,4 31,4 31,4 31 | 000 644 99 99 99 99 90 90 90 90 90 90 90 90 90 | 9,1,79 79 10 4,5,78 10 4,2 73 10 | 00 00 00 00 00 00 | 111 99 1 5, 97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 334 005 188 338 338 | 122 100 1 100 100 100 100 100 100 100 10 | 2,50 18 18 2,20 20 20 779 18 18 4 4 14 14 19 | 10 9.4 1 5.5, 9.5 1 1 4.4, 2.7 1 1 1 iifugal erter 7 (1 3 3 | 7,77 45 2 2 335 880 2 2 2 29 997 888 0 | 13, 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 771 77 77 77 77 77 77 77 77 78 8 60 9 3 3 3 | 15, 13, 22, 7,, 13, 23, 6,, 5,, 111, 22, | H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5, 99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | L ,20 ,20 ,882 | 1 144 122 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 17 17 145 4 4 32 87 759 33 | 177 155 3 3 8, 144 3 3 3 3 3 111 8 | 7,10 500 500 333 550 476 333 660 778 4779 300 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 | ,80 ,80 ,87 ,87 ,884 ,89 ,7,76 ,76 ,341 ,393 ,40 ,772 | 11,1 966 25 5,4,2 95 25 25 25 4,3 30 11,4 80 90 | 000 644 99 99 99 90 90 90 90 90 90 90 90 90 90 | 9,1 79 10 4,5 78 10 4,2 3,2 73 10 70 3(3,5) | 200 200 200 200 200 200 200 200 200 200 | 111 99 1 5, 99 1 1 1 1 99 4 7 | 330 55 56 660 660 775 55 55 88 88 90 90 90 90 90 90 90 90 90 90 | 122 100 100 100 100 100 100 100 100 100 | Centry Investigation (1990) | 10 94 1 5, 9: 1 1 4, 2, 7: 1 1 ifugal erter | 7,77 2 2 335 2 2 2 2 9 97 38 8 0 0 0 0 6 6 | 13, 111 1 1 5, 3, 86 1 1 1 2 3 4 7 | 77 77 664 6552 77 78 660 33 3 | 15, 13, 22, 7, 13, 22, 6,, 5,, 111, 22, 111, 8, 9, | 1 14 228 22 2553 007 22 2 2 2 40 0 0 | 55,99 55,33,399 77 | L ,20 ,20 ,382 ,366 ,377 ,377 ,380 ,392 ,355 ,377 ,377 ,380 ,380 ,380 ,380 ,380 ,380 ,380 ,380 | 144 122 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 17 145 14 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 | 177 155 3 8, 144 3 8, 5, 5, 144 3 3 | 7,10 500 83 83 83 83 83 83 86 80 80 80 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) Sound power level | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W % dB(A) | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 3,87 3,89 7,76 341 225 3 3 3 40 772 | 11,1 966 5,4,2 95 25 25 25 4,3 36 31 4,2 94 86 96 | 000 44 99 147 100 99 166 166 170 170 170 170 170 170 170 170 170 170 | 9,1 799 10 4,5 788 10 4,2,2 73 11 70 30 50 | 10 18 10 10 10 10 10 10 10 10 10 10 | 111, 999 1 1 5, 99, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 56 660 660 775 55 55 880 00 00 77,0 | 122 100 100 100 100 100 100 100 100 100 | 2,50 1996 188 2,20 1979 188 2,14 1,72 1956 19 19 19 19 19 19 19 19 19 19 19 19 19 | 10 94 1 1 5, 99 1 1 1 4, 2, 7 1 1 1 ifugal enter 7 (3 3 5 5) | 7,77 145 2 2 335 330 2 2 2 997 88 8 0 0 0 0 6 6 | 13,3 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 664 6552 77 78 660 33 3 3 3 0 0 2 2 | 15, 13 13 2 2 5, 11 1 1 1 8 8 9 9 62 | 1 1,14 228 2 2 2 2 3 53 07 2 2 2 40 0 0 0 | 111 99 15 5, 99 17 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18 | L ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 | 14 12 2 7, 7, 12 2 2 7, 4, 4, 12 2 2 2 2 3 3 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2,42 664 65 117 145 14 14 1332 887 1559 13 13 13 14 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 177 155 3 8, 8, 144 3 8, 5, 5, 144 111 8 9 | 7,10 500 33 33 50 776 60 778 779 78 79 79 79 79 79 79 79 79 79 79 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) Sound power level Sound pressure | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | ,80 ,80 ,87 ,87 ,884 ,89 ,7,76 ,76 ,341 ,393 ,40 ,772 | 11,1 966 25 5,4,2 95 25 25 25 4,3 30 11,4 80 90 | 000 44 99 147 100 99 166 166 170 170 170 170 170 170 170 170 170 170 | 9,1 79 10 4,5 78 10 4,2 3,2 73 10 70 3(3,5) | 10 18 10 10 10 10 10 10 10 10 10 10 | 111, 999 1 1 5, 99, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 56 660 660 775 55 55 88 88 90 90 90 90 90 90 90 90 90 90 | 122 100 100 100 100 100 100 100 100 100 | Centry Investigation (1990) | 10 94 1 1 5, 99 1 1 1 4, 2, 7 1 1 1 ifugal enter 7 (3 3 5 5) | 7,77 2 2 335 2 2 2 2 9 97 38 8 0 0 0 0 6 6 | 13,3 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 664 6552 77 78 660 33 3 | 15, 13, 22, 7, 13, 22, 6,, 5,, 111, 22, 111, 8, 9, | 1 1,14 228 2 2 2 2 3 53 07 2 2 2 40 0 0 0 | 111 99 15 5, 99 17 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18 | L ,20 ,20 ,382 ,366 ,377 ,377 ,380 ,392 ,355 ,377 ,377 ,380 ,380 ,380 ,380 ,380 ,380 ,380 ,380 | 14 12 2 7, 7, 12 2 2 7, 4, 4, 12 2 2 2 2 3 3 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 17 145 14 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 | 177 155 3 8, 8, 144 3 8, 5, 5, 144 111 8 9 | 7,10 500 83 83 83 83 83 83 86 80 80 80 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W % dB(A) | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 3,87 3,89 7,76 341 225 3 3 3 40 772 | 11,1 966 5,4,2 95 25 25 25 4,3 36 31 4,2 94 86 96 | 000 44 99 147 100 99 166 166 170 170 170 170 170 170 170 170 170 170 | 9,1 799 10 4,5 788 10 4,2,2 73 11 70 30 50 | 10 18 10 10 10 10 10 10 10 10 10 10 | 111, 999 1 1 5, 99, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 56 660 660 775 55 55 880 00 00 77,0 | 122 100 100 100 100 100 100 100 100 100 | 2,50 1996 18 18 20 20 779 18 18 14 14 17,72 19 19 19 140 180 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | 10 9.0 1 1 1 5.5, 99:0 1 1 4.4, 2.7, 7:1 1 1 ifugal erter 7 (1 3 3 5 5 1 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 | 7,77 145 2 2 335 330 2 2 2 997 88 8 0 0 0 0 6 6 | 13,3 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 664 6552 77 78 660 33 3 3 3 0 0 2 2 | 15, 13 13 2 2 5, 11 1 1 1 8 8 9 9 62 | 1 1,14 228 2 2 2 2 3 53 07 2 2 2 40 0 0 0 | 111 99 15 5, 99 17 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18 | L ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 | 14 12 2 7, 7, 12 2 2 7, 4, 4, 12 2 2 2 2 3 3 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2,42 664 65 117 145 14 14 1332 887 1559 13 13 13 14 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 177 155 3 8, 8, 144 3 8, 5, 5, 144 111 8 9 | 7,10 500 33 33 50 776 60 778 779 78 79 79 79 79 79 79 79 79 79 79 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings Main coil | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W % dB(A) | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 3,87 3,89 7,76 341 225 3 3 3 40 772 | 11,1 966 5,4,2 95 25 25 25 4,3 36 31 4,2 94 86 96 | 000 44 99 147 100 99 166 166 170 170 170 170 170 170 170 170 170 170 | 9,1 799 10 4,5 788 10 4,2,2 73 11 70 30 50 | 10 18 10 10 10 10 10 10 10 10 10 10 | 111, 999 1 1 5, 99, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 56 660 660 775 55 55 880 00 00 77,0 | 122 100 100 100 100 100 100 100 100 100 | 2,50 1996 18 18 20 20 779 18 18 14 14 17,72 19 19 19 140 180 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | 10 94 1 1 5, 99 1 1 1 4, 2, 7 1 1 1 ifugal enter 7 (3 3 5 5) | 7,77 145 2 2 335 330 2 2 2 997 88 8 0 0 0 0 6 6 | 13,3 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 664 6552 77 78 660 33 3 3 3 0 0 2 2 | 15, 13 13 2 2 5, 11 1 1 1 8 8 9 9 62 | 1 1,14 228 2 2 2 2 3 53 07 2 2 2 40 0 0 0 | 111 99 15 5, 99 17 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18 | L ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 | 14 12 2 7, 7, 12 2 2 7, 4, 4, 12 2 2 2 2 3 3 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2,42 664 65 117 145 14 14 1332 887 1559 13 13 13 14 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 177 155 3 8, 8, 144 3 8, 5, 5, 144 111 8 9 | 7,10 500 33 33 50 776 60 778 779 78 79 79 79 79 79 79 79 79 79 79 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W % dB(A) | 8,10 710 17 4,03 699 17 3,92 2,99 675 17 | 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3,80 360 23 3,87 3,87 3,89 7,76 341 225 3 3 3 40 772 | 11,1 966 5,4,2 95 25 25 25 4,3 36 31 4,2 94 86 96 | 000 44 99 147 100 99 166 166 170 170 170 170 170 170 170 170 170 170 | 9,1 799 10 4,5 788 10 4,2,2 73 11 70 30 50 | 10 18 10 10 10 10 10 10 10 10 10 10 | 111, 999 1 1 5, 99, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 330 55 56 660 660 775 55 55 880 00 00 77,0 | 122 100 100 100 100 100 100 100 100 100 | 2,50 2,50 18 18 18 18 20 18 18 19 19 11 10 10 10 10 10 10 10 10 10 | 10 9.0 1 1 1 5.5, 99:0 1 1 4.4, 2.7, 7:1 1 1 ifugal erter 7 (1 3 3 5 5 1 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 | 7,77 145 2 2 335 330 2 2 2 997 88 8 0 0 0 0 6 6 | 13,3 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 77 77 664 6552 77 78 660 33 3 3 3 0 0 2 2 | 15, 13 13 2 2 5, 11 1 1 1 8 8 9 9 62 | 1 1,14 228 2 2 2 2 3 53 07 2 2 2 40 0 0 0 | 111 99 15 5, 99 17 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18 | L ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 ,20 | 14 12 2 7, 7, 12 2 2 7, 4, 4, 12 2 2 2 2 3 3 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2,42 664 65 117 145 14 14 1332 887 1559 13 13 13 14 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 177 155 3 8, 8, 144 3 8, 5, 5, 144 111 8 9 | 7,10 500 33 33 50 776 60 778 779 78 79 79 79 79 79 79 79 79 79 79 |

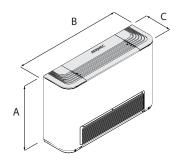
⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45°C/40°C; EUROVENT
(3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

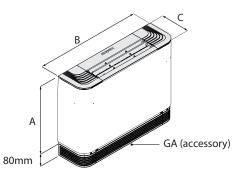
Technical data - 4-pipe systems (main coil + secondary coil)

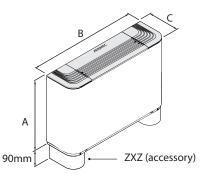
| | | | FCZI201 | | | FCZI301 | | | FCZI401 | | | FCZI501 | | | FCZI701 | | | FCZI901 | |
|---------------------------------------|-------|------|---------|------|------|---------|------|------|---------|-------|--------|---------|------|------|---------|------|------|---------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | • | | | • | | | • | | | • | | |
| Heating capacity | kW | 1,02 | 1,35 | 1,60 | 1,80 | 2,18 | 2,56 | 2,21 | 2,65 | 3,12 | 2,59 | 3,34 | 3,73 | 3,66 | 4,29 | 4,94 | 4,73 | 5,63 | 5,72 |
| Water flow rate system side | I/h | 89 | 118 | 140 | 158 | 191 | 224 | 186 | 232 | 273 | 227 | 293 | 327 | 320 | 375 | 437 | 414 | 492 | 501 |
| Pressure drop system side | kPa | 5 | 8 | 11 | 17 | 23 | 31 | 5 | 7 | 9 | 6 | 9 | 11 | 11 | 15 | 19 | 9 | 12 | 12 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 | 1,28 | 1,60 | 1,68 | 2,17 | 2,65 | 2,20 | 2,92 | 3,60 | 2,68 | 3,69 | 4,25 | 3,92 | 4,89 | 5,50 | 4,29 | 5,00 | 6,91 |
| Sensible cooling capacity | kW | 0,71 | 1,05 | 1,33 | 1,26 | 1,65 | 2,04 | 1,59 | 2,14 | 2,67 | 1,94 | 2,73 | 3,18 | 2,99 | 3,76 | 4,30 | 2,97 | 3,78 | 5,68 |
| Water flow rate system side | I/h | 153 | 221 | 275 | 289 | 374 | 456 | 379 | 503 | 619 | 461 | 635 | 731 | 675 | 841 | 946 | 738 | 860 | 1188 |
| Pressure drop system side | kPa | 7 | 13 | 18 | 8 | 13 | 18 | 14 | 24 | 34 | 13 | 23 | 29 | 17 | 25 | 30 | 10 | 15 | 10 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor | type | | | | | | | | | Inve | erter | | | | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 260 | 350 | 450 | 330 | 460 | 600 | 400 | 600 | 720 | 700 | 930 | 1140 | 700 | 930 | 1140 |
| Sound pressure level (10 m) | dB(A) | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 42,0 | 49,0 | 54,0 | 43,0 | 49,0 | 54,0 |
| Sound power level (3) | dB(A) | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 | 50,0 | 57,0 | 62,0 | 51,0 | 57,0 | 62,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | - | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Input power | W | 7 | 8 | 14 | 5 | 7 | 13 | 5 | 10 | 18 | 7 | 16 | 31 | 30 | 40 | 80 | 30 | 40 | 80 |
| Signal 0-10V | % | 44 | 68 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 50 | 74 | 90 | 56 | 72 | 90 | 56 | 72 | 90 |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |

- (1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
 (2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS







| z-hihe | | | FCZ1200 FCZ1250 FCZ1300 FCZ1350 FCZ1 | | | | | | | | | | | | | | | | | | | | | | | | | | , | | | | | | | | |
|----------------|---------------------|-----|--------------------------------------|---|-----|------|---|---|-------|---|--------------------|-------|----|---|-------|----|---|-------|---|---|------|----|---|------|----|---|-------|----|---|------|----|---|-------|----|---|-------|---|
| | | FC2 | Z1200 | | FC2 | (125 |) | F | CZ130 | 0 | F | CZI3: | 50 | | FCZI4 | 00 | F | CZI45 | 0 | F | CZI5 | 00 | F | CZ15 | 50 | | FCZ17 | 00 | F | CZI7 | 50 | F | CZI90 | 00 | F | CZ195 | 0 |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 3 1 2 3 H I M H | | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Dimensions and | ensions and weights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | mm | 4 | 186 | | 4 | 186 | | | 486 | | | 486 | | | 486 | | | 486 | | | 486 | | | 486 | | | 486 | | | 486 | | | 591 | | | 591 | |
| В | mm | 7 | 750 | | 7 | 50 | | | 980 | | | 980 | | | 1200 |) | | 1200 | | | 1200 |) | | 1200 |) | | 1320 |) | | 1320 |) | | 1320 |) | | 1320 | |
| C | mm | 2 | 220 | | 2 | 220 | | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | 1 | | 220 | | | 220 | | | 220 | | | 220 | | | 220 | |
| Empty weight | kg | | 15 | | | 16 | | | 17 | | | 18 | | | 22 | | | 24 | | | 22 | | | 24 | | | 29 | | | 31 | | | 34 | | | 34 | |

| | | | FCZI201 | | | FCZI301 | | | FCZI401 | | | FCZI501 | | | FCZI701 | | | FCZI901 | |
|----------------|-----------|---|---------|---|-----|---------|---|---|---------|---|---|---------|---|---|---------|---|---|---------|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | M | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Dimensions and | l weights | | | | | | | | | | | | | | | | | | |
| A | mm | | 486 | | | 486 | | | 486 | | | 486 | | | 486 | | | 591 | |
| В | mm | | 750 | | | 980 | | | 1200 | | | 1200 | | | 1320 | | | 1320 | |
| (| mm | | 220 | | 220 | | | | 220 | | | 220 | | | 220 | | | 220 | |
| Empty weight | kg | | 15 | | 17 | | | | 23 | | | 23 | | | 30 | | | 34 | |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A. Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com





















FCZ-D

- Fully silent operation
- Backlit touch command with programming via a smart device
- · Total comfort in every season

Fan coil for vertical wall-mounting or free-standing installation

Cooling capacity 0,89 \div 4,25 kW Heating capacity 2,02 \div 8,50 kW





DESCRIPTION

The perception of uneven temperature distribution in various settings, especially in the vertical direction, is one of the main factors leading to a drastic reduction in the well-being perceived by occupants.

FCZ D are able to provide a pleasant sensation of comfort by directing the air in a way that ensures uniform temperature distribution throughout the setting. In winter, hot air is direct downwards; in summer, cool air is directed upwards.

Air supply switching at the front or from the top by operating directly on the orientable grille.

They can be installed in any type of 2 / 4 pipe system and in combination with any heat generator even at low temperatures. Thanks to the availability of several versions and configurations, it is easy to choose the optimal solution for every requirement.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Heat exchanger coil

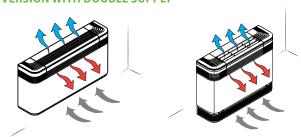
With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The hydraulic connections can be inverted during installation.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSION WITH DOUBLE SUPPLY



FCZ D

— With on-board thermostat.

FCZ_DS

- Compatibility with VMF system.
- Without installed switch

ThermApp

In units DS version with a **T-Touch-I** electronic thermostat (accessory) and the **ThermApp** application, the operating mode can be set and the weekly timer programmed by simply resting the smart device on the fan coil. The graphic interface of the app also gives access to a lot more information such as the alarm list, the closest SAT, etc.

Available for Android operating systems.



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|-------|---|
| 1,2,3 | FCZ |
| 4 | Size |
| | 2, 3, 4, 5 |
| 5 | Main coil |
| 0 | Standard |
| 6 | Secondary coil |
| 0 | Without coil |
| 7 | Version |
| D | Dualjet with thermostat TXB on-board the system |
| D: | Dualjet without on-board thermostat |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH: Touch control on board the machine, for controlling fan coils with asynchronous motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZ-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2Z: User interface on the machine, to be combined with the VMF-E0X, VMF-E19 or VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grev front panel PANTONE

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/ E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_ X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 200 | 300 | 400 | 500 | | |
|--------------|-----|-----|-----|-----|-----|--|--|
| AER503IR (1) | DS | • | • | • | • | | |
| PR0503 | DS | • | • | • | • | | |
| SA5 (2) | DS | • | • | • | • | | |
| SW3 (2) | DS | • | • | • | • | | |
| SW5 (2) | DS | • | • | • | • | | |
| T-TOUCH (3) | DS | • | • | • | • | | |
| TX (1) | DS | • | • | • | • | | |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.
- (3) Installation on the fan coil.

VMF system

For more information about VMF system, refer to the dedicated documentation.

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|-----|-----|-----|-----|-----|
| VMF-E0X (1) | DS | • | • | • | • |
| VMF-E19 (1) | DS | • | • | • | • |
| VMF-E2Z | DS | • | • | • | • |
| VMF-E3 | DS | • | • | • | • |
| VMF-E4DX | DS | • | • | • | • |
| VMF-E4X | DS | • | • | • | • |
| VMF-IO | DS | • | • | • | • |
| VMF-IR | DS | • | • | • | • |
| VMHI | DS | • | • | • | • |

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Water valves

3 way valve kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|------|-----|-----|-----|-----|
| VCZ41 (1) | D,DS | • | | | |
| VCZ4124 (2) | D,DS | • | | | |
| VCZ42 (1) | D,DS | | • | • | • |
| VCZ4224 (2) | D,DS | | • | • | • |

(1) 230V~50Hz (2) 24V

2 way valve kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|------|-----|-----|-----|-----|
| VCZD1 (1) | D,DS | • | | | |
| VCZD124 (2) | D,DS | • | | | |
| VCZD2 (1) | D,DS | | • | • | • |
| VCZD224 (2) | D,DS | | • | • | • |

(1) 230V~50Hz (2) 24V

Valve Kit for 4 pipe systems - Requires a thermostat with valve management

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|------|-----|-----|-----|-----|
| VCZ1X4L (1) | D,DS | • | | | |
| VCZ1X4R (1) | D,DS | • | | | |
| VCZ2X4L (1) | D,DS | | • | • | • |
| VCZ2X4R (1) | D,DS | | • | • | • |

 $(1) \ \ The \ valves \ can \ be \ combined \ with \ the \ units \ if \ there \ is \ a \ control \ panel \ for \ managing \ them.$

Combined Adjustment and Balancing Valve Kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|------|-----|-----|-----|-----|
| VJP060 (1) | D,DS | • | • | | |
| VJP060M (2) | D,DS | • | • | | |
| VJP090 (1) | D,DS | | | • | • |
| VJP090M (2) | D,DS | | | • | • |

(1) 230V~50Hz (2) 24V

Installation accessories

Condensate recirculation device

| Model | Ver | 200 | 300 | 400 | 500 |
|-----------|------|-----|-----|-----|-----|
| DSCZ4 (1) | D,DS | • | • | • | • |

(1) DSC4 cannot be mounted if even just one of these accessories is also installed: AMP - AMPZ valve VCZ1-2-3-4 X4L/R and all the condensate collection trays.

Condensate drip

| Model | Ver | 200 | 300 | 400 | 500 |
|----------|------|-----|-----|-----|-----|
| BCZ4 (1) | D,DS | • | • | • | • |

(1) For vertical installation.

Panel closing the rear of the unit

| Model | Ver | 200 | 300 | 400 | 500 |
|--------|------|-----|-----|-----|-----|
| PCZ200 | D,DS | • | | | |
| PCZ300 | D,DS | | • | | |
| PCZ500 | D.DS | | | • | • |

Ornamental grille

| Model | Ver | 200 | 300 | 400 | 500 |
|-------|------|-----|-----|-----|-----|
| GA200 | D,DS | • | | | |
| GA300 | D,DS | | • | | |
| GA500 | 20.0 | | | | |

Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil

| supports to be combined with the ornamental grine (cri) for noon installation of the fall con | | | | | | | | |
|---|------|-----|-----|-----|-----|--|--|--|
| Model | Ver | 200 | 300 | 400 | 500 | | | |
| FIKIT200 | D,DS | • | | | | | | |

37

| Model | Ver | 200 | 300 | 400 | 500 |
|----------|------|-----|-----|-----|-----|
| FIKIT300 | D,DS | | • | | |
| FIKIT500 | D,DS | | | • | • |

Pair of stylish structural feet

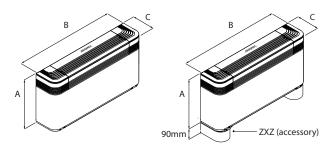
| Model | Ver | 200 | 300 | 400 | 500 |
|-------|------|-----|-----|-----|-----|
| ZXZ | D,DS | • | • | • | • |

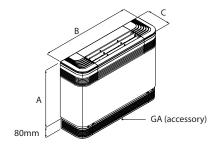
PERFORMANCE SPECIFICATIONS

| z-pipe | | | FCZ200D | | | FCZ300D | | | FCZ400D | | | FCZ500D | |
|---------------------------------------|-------|------|---------|------|------|---------|--------|--------|---------|------|------|---------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | , | | |
| Heating capacity | kW | 2,02 | 2,95 | 3,70 | 3,47 | 4,46 | 5,50 | 4,32 | 5,74 | 7,15 | 5,27 | 7,31 | 8,50 |
| Water flow rate system side | l/h | 177 | 258 | 324 | 304 | 391 | 482 | 379 | 503 | 627 | 462 | 641 | 745 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 7 | 12 | 18 | 9 | 16 | 24 | 12 | 21 | 28 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 1,00 | 1,46 | 1,84 | 1,72 | 2,21 | 2,73 | 2,14 | 2,85 | 3,55 | 2,62 | 3,63 | 4,22 |
| Water flow rate system side | l/h | 174 | 254 | 319 | 299 | 385 | 475 | 373 | 495 | 617 | 455 | 631 | 734 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 8 | 12 | 18 | 10 | 16 | 24 | 12 | 21 | 28 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 | 1,28 | 1,60 | 1,68 | 2,17 | 2,65 | 2,20 | 2,92 | 3,60 | 2,68 | 3,69 | 4,25 |
| Sensible cooling capacity | kW | 0,71 | 1,05 | 1,33 | 1,26 | 1,65 | 2,04 | 1,59 | 2,14 | 2,67 | 1,94 | 2,73 | 3,18 |
| Water flow rate system side | l/h | 153 | 221 | 275 | 288 | 374 | 456 | 379 | 503 | 619 | 460 | 634 | 731 |
| Pressure drop system side | kPa | 7 | 13 | 18 | 8 | 13 | 18 | 10 | 17 | 24 | 13 | 23 | 29 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centr | ifugal | | | | | |
| Fan motor | type | | | | | | Asynch | ronous | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 260 | 350 | 450 | 330 | 460 | 600 | 400 | 600 | 720 |
| Input power | W | 13 | 25 | 35 | 25 | 33 | 44 | 30 | 43 | 57 | 38 | 52 | 76 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 |
| Sound pressure | dB(A) | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | I | | 0,5 | | | 0,8 | | | 1,0 | | | 1,0 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | | | | | 230V- | ~50Hz | | | | | |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS





| | | FCZ200D | FCZ300D | FCZ400D | FCZ500D |
|------------------------|----|---------|---------|---------|---------|
| Dimensions and weights | 1 | | | | |
| A | mm | 486 | 486 | 486 | 486 |
| В | mm | 750 | 980 | 1200 | 1200 |
| C | mm | 220 | 220 | 220 | 220 |
| Empty weight | kg | 15 | 17 | 23 | 22 |





















FCZI-D

Fan coil for vertical wall-mounting or free-standing installation

Cooling capacity 0,89 ÷ 4,25 kW Heating capacity 2,02 ÷ 8,50 kW



- Total comfort in every season
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Fully silent operation
- Backlit Touch command with programming via a smart device (DT vesion)



DESCRIPTION

The perception of uneven temperature distribution in various settings, especially in the vertical direction, is one of the main factors leading to a drastic reduction in the well-being perceived by occupants.

FCZI D are able to provide a pleasant sensation of comfort by directing the air in a way that ensures uniform temperature distribution throughout the setting. In winter, hot air is direct downwards; in summer, cool air is directed upwards.

Air supply switching at the front or from the top by operating directly on the orientable grille.

They can be installed in any type of 2 / 4 pipe system and in combination with any heat generator even at low temperatures. Thanks to the availability of several versions and configurations, it is easy to choose the optimal solution for every requirement.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Heat exchanger coil

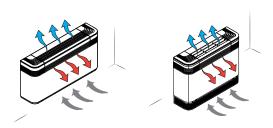
With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The hydraulic connections can be inverted during installation.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSION WITH DOUBLE SUPPLY



FCZI_D

— With on-board thermostat.

FCZI_D

- With thermostat T-TOUCH-I on-board the system
- Compatibility with VMF system.

FCZI_DS

- Without installed switch
- Compatibility with VMF system.

ThermApp

In units DT version with a **T-Touch-I** electronic thermostat and the **ThermApp** application, the operating mode can be set and the weekly timer programmed by simply resting the smart device on the fan coil. The graphic interface of the app also gives access to a lot more information such as the alarm list, the closest SAT, etc.

Available for Android operating systems.



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description | | | | | | |
|---------|--|--|--|--|--|--|--|
| 1,2,3,4 | FCZI | | | | | | |
| 5 | Size 2, 3, 4, 5 | | | | | | |
| 6 | Main coil | | | | | | |
| 0 | Standard | | | | | | |
| 7 | Secondary coil | | | | | | |
| 0 | Without coil | | | | | | |
| 8 | Version | | | | | | |
| D | Dualjet with thermostat TXBI on-board the system | | | | | | |
| D | 5 Dualjet without on-board thermostat | | | | | | |
| D | Dualjet with T-Touch-I thermostat | | | | | | |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: Water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-E191: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E22: User interface on the machine, to be combined with the VMF-E0X, VMF-E19 or VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

ZXZ: Pair of stylish and structural feet

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 200 | 300 | 400 | 500 |
|--------------|-----|-----|-----|-----|-----|
| AER503IR (1) | DS | • | • | • | • |
| PR0503 | DS | • | • | • | • |
| SA5 (2) | DS | • | • | • | • |
| SW3 (2) | DS | • | • | • | • |
| SW5 (2) | DS | • | • | • | • |
| TX (1) | DS | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
- (2) Probe for AER503IR-TX thermostats, if fitted

VMF system

For more information about VMF system, refer to the dedicated documentation.

| Model | Ver | 200 | 300 | 400 | 500 |
|----------|-------|-----|-----|-----|-----|
| VMF-E19I | DS | • | • | • | • |
| VMF-E2Z | DS | • | • | • | • |
| VMF-E3 | DS,DT | • | • | • | • |
| VMF-E4DX | DS,DT | • | • | • | • |
| VMF-E4X | DS,DT | • | • | • | • |
| VMF-I0 | DS | • | • | • | • |
| VMF-IR | DS | • | | • | • |
| VMF-SW | DS | • | • | • | • |
| VMHI | DS | • | • | • | • |

Water valves

3 way valve kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|---------|-----|-----|-----|-----|
| VCZ41 (1) | D,DS,DT | • | | | |
| VCZ4124 (2) | D,DS,DT | • | | | |
| VCZ42 (1) | D,DS,DT | | • | • | • |
| VCZ4224 (2) | D,DS,DT | | • | • | • |

^{(1) 230}V~50Hz (2) 24V

2 way valve kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|---------|-----|-----|-----|-----|
| VCZD1 (1) | D,DS,DT | • | | | |
| VCZD124 (2) | D,DS,DT | • | | | |
| VCZD2 (1) | D,DS,DT | | • | • | • |
| VCZD224 (2) | D,DS,DT | | • | | • |

^{(1) 230}V~50Hz (2) 24V

Valve Kit for 4 pipe systems

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|---------|-----|-----|-----|-----|
| VCZ1X4L (1) | D,DS,DT | • | | | |
| VCZ1X4R (1) | D,DS,DT | • | | | |
| VCZ2X4L (1) | D,DS,DT | | • | • | • |
| VCZ2X4R (1) | D,DS,DT | | • | • | • |

 $^{(1) \ \} The \ valves \ can \ be \ combined \ with \ the \ units \ if \ there \ is \ a \ control \ panel \ for \ managing \ them.$

Combined Adjustment and Balancing Valve Kit

| Model | Ver | 200 | 300 | 400 | 500 |
|-------------|---------|-----|-----|-----|-----|
| VJP060 (1) | D,DS,DT | • | • | | |
| VJP060M (2) | D,DS,DT | • | • | | |
| VJP090 (1) | D,DS,DT | | | • | • |
| VJP090M (2) | D,DS,DT | | | • | |

^{(1) 230}V~50Hz (2) 24V

Installation accessories

Condensate recirculation device

| Model | Ver | 200 | 300 | 400 | 500 |
|-----------|---------|-----|-----|-----|-----|
| DSCZ4 (1) | D,DS,DT | • | • | • | • |

⁽¹⁾ DSC4 cannot be mounted if even just one of these accessories is also installed: AMP - AMPZ valve VCZ1-2-3-4 X4L/R and all the condensate collection trays.

Condensate drip

| Model | Ver | 200 | 300 | 400 | 500 |
|----------|---------|-----|-----|-----|-----|
| BCZ4 (1) | D,DS,DT | • | • | • | |

⁽¹⁾ For vertical installation.

Panel closing the rear of the unit

| Model | Ver | 200 | 300 | 400 | 500 |
|--------|---------|-----|-----|-----|-----|
| PCZ200 | D,DS,DT | • | | | |
| PCZ300 | D,DS,DT | | • | | |
| PCZ500 | D,DS,DT | | | • | • |

Ornamental grille

| Model | Ver | 200 | 300 | 400 | 500 |
|-------|---------|-----|-----|-----|-----|
| GA200 | D,DS,DT | • | | | |
| GA300 | D,DS,DT | | • | | |
| GA500 | D.DS.DT | | | • | • |

Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil

| Model | Ver | 200 | 300 | 400 | 500 |
|----------|---------|-----|-----|-----|-----|
| FIKIT200 | D,DS,DT | • | | | |
| FIKIT300 | D,DS,DT | | • | | |

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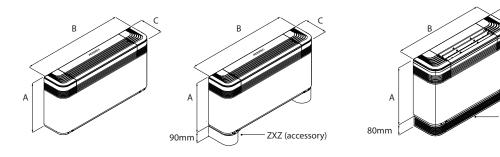
| Model | Ver | 200 | 300 | 400 | 500 |
|-------------------|----------------|-----|-----|-----|-----|
| FIKIT500 | D,DS,DT | | | • | • |
| Pair of stylish s | tructural feet | | | | |
| Model | Ver | 200 | 300 | 400 | 500 |
| 7V7 | D DC DT | | - | | |

PERFORMANCE SPECIFICATIONS

| | | | FCZI200D | | | FCZI300D | | | FCZI400D | | FCZI500D | | |
|---------------------------------------|-------|------|----------|------|------|----------|-------|--------|----------|------|----------|------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | |
| Heating capacity | kW | 2,02 | 2,95 | 3,70 | 3,47 | 4,46 | 5,50 | 4,32 | 5,74 | 7,15 | 5,27 | 7,31 | 8,50 |
| Water flow rate system side | I/h | 177 | 258 | 324 | 304 | 391 | 482 | 379 | 503 | 627 | 462 | 641 | 745 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 7 | 12 | 18 | 9 | 16 | 24 | 12 | 21 | 28 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 1,00 | 1,46 | 1,84 | 1,72 | 2,21 | 2,73 | 2,14 | 2,85 | 3,55 | 2,62 | 3,63 | 4,22 |
| Water flow rate system side | l/h | 174 | 254 | 319 | 299 | 385 | 475 | 373 | 495 | 617 | 455 | 631 | 734 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 8 | 12 | 18 | 10 | 16 | 24 | 12 | 21 | 28 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 | 1,28 | 1,60 | 1,68 | 2,17 | 2,65 | 2,20 | 2,92 | 3,60 | 2,68 | 3,69 | 4,25 |
| Sensible cooling capacity | kW | 0,71 | 1,05 | 1,33 | 1,26 | 1,65 | 2,04 | 1,59 | 2,14 | 2,67 | 1,94 | 2,73 | 3,18 |
| Water flow rate system side | l/h | 153 | 221 | 275 | 288 | 374 | 456 | 379 | 503 | 619 | 460 | 634 | 731 |
| Pressure drop system side | kPa | 7 | 13 | 18 | 8 | 13 | 18 | 10 | 17 | 24 | 13 | 23 | 29 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centr | ifugal | | | | | |
| Fan motor | type | | | | | | Inve | erter | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 260 | 350 | 450 | 330 | 460 | 600 | 400 | 600 | 720 |
| Input power | W | 5 | 8 | 14 | 5 | 7 | 13 | 5 | 10 | 18 | 8 | 18 | 34 |
| Signal 0-10V | % | 44 | 68 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 50 | 74 | 90 |
| Fan coil sound data (4) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 31,0 | 43,0 | 50,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 41,0 | 42,0 | 51,0 | 56,0 |
| Sound pressure | dB(A) | 23,0 | 35,0 | 42,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 53,0 | 34,0 | 43,0 | 48,0 |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | I | | 0,5 | | | 0,8 | | | 1,0 | | | 1,0 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | | | | | 230V- | ~50Hz | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | FCZI200D | FCZI300D | FCZI400D | FCZI500D |
|------------------------|----|----------|----------|----------|----------|
| Dimensions and weights | 1 | | | | |
| A | mm | 486 | 486 | 486 | 486 |
| В | mm | 750 | 980 | 1200 | 1200 |
| (| mm | 220 | 220 | 220 | 220 |
| Empty weight | kg | 15 | 17 | 23 | 22 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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GA (accessory)





















FCZ-H

Fan coil with the photocatalytic device, for universal and floor installation



- Photocatalytic device
- Tested effectiveness against viruses, bacteria and allergens
- Active against the SARS-CoV-2 virus, even on surfaces
- Backlit touch command with programming via a smart device (accessory)





DESCRIPTION

Fan coil with built-in **photocatalytic device**.

Active against the airborne Sars-CoV-2 virus (95%-99% abatement efficacy after 20 minutes of operation tested at the Virostatics laboratory in Alghero).

Active against the SARS-CoV-2 virus, even on surfaces - 84% effectiveness after 12 h (tests carried out in collaboration with the Department of Microbiology of the University of Padua).

Suitable for air conditioning in places requiring optimum hygiene levels, such as:

- Hospitals
- Dentists' surgeries
- Doctors' and vets' surgeries
- Analysis laboratories
- Waiting rooms
- Public premises

They can be installed in any type of 2-pipe system (version for 4-pipe systems available upon request) and in combination with any heat generator, even at low temperatures. Thanks to the availability of several versions and configurations, it's easy to find the right solution for every need.

VERSIONS

- H Unit with shell without thermostat vertical and horizontal installation.
- HP Unit without shell and without thermostat vertical and horizontal installation. Can also be supplied in a configuration equipped with a boosted asynchronous motor (HPO).
- **HT** Unit with shell and thermostat vertical installation.

FEATURES

Case

Metallic protective cabinet with rustproofing polyester paint RAL 9003. The head with adjustable air distribution grille is made of plastic RAL 7047. When the grille closes, the fan coil automatically switches off.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase and asynchronous, mounted on anti-vibration supports, and has a permanently engaged condenser. The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

 Apart from the traditional asynchronous motor, each unit can also be supplied with an inverter (brushless) motor. Refer to the relative FCZI - H datasheet

Heat exchanger coil

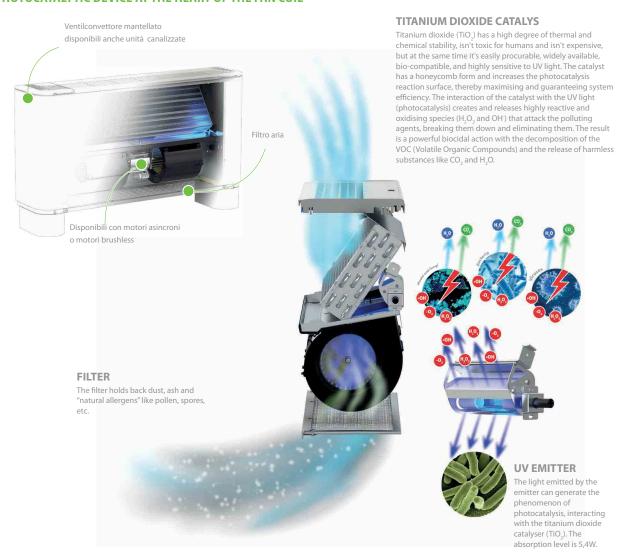
With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The coil is not reversible during installation but, when ordering, you can choose units with the coil water connections on the right (at no extra charge).

Air 6lta

Air filter class **COARSE 25%** for all versions; easy to pull out and clean. Shrouds can be pulled out and inspected for easy and effective cleaning.

PHOTOCATALYTIC DEVICE AT THE HEART OF THE FAN COIL



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Configuration options FCZ - H

| ield | Description |
|-------|---|
| 1,2,3 | FCZ |
| | Size |
| • | 2, 3, 4, 5, 6, 9 |
| 5 | Main coil |
| 0 | Standard |
| 5 | Oversized |
| 5 | Secondary coil |
| 0 | Without coil |
| 7 | Version |
| Н | Unit with shell without thermostat - vertical and horizontal mount |
| HP | Unit without shell and thermostat - vertical and horizontal mount |
| HP0 | Unit without shell and thermostat with upgraded motor - vertical and horizontal mount |
| HPOR | Unit without shell and thermostat with upgraded motor - vertical and horizontal installation - water connections on the right |
| HPR | Unit without shell and thermostat - vertical and horizontal installation - water connections on the right |
| HR | Unit with shell without thermostat - vertical and horizontal installation - water connections on the right |
| HT | Unit with shell with thermostat - vertical mount |
| HTR | Unit with shell with thermostat - vertical mount - water connections on the right |

ACCESSORIES

Control panels and dedicated accessories - FCZ-H

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils

and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric

heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH: Touch control on board the machine, for controlling fan coils with asynchronous motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZ-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXB: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

■ The fan coil can also be teamed up with the VMF system; please contact headquarters about compatibility with the various system

Common accessories

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the

VCF41 - 42 - 43 - for main coil: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit.

AMP: Wall mounting kit

DSC: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

ZXZ: Pair of stylish and structural feet

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

SPCZ: Brackets to fix the fan coil to the floor.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories - FCZ-H

| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
|--------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| PR0503 | H,HP | • | | | | | • | • | | • | • | • | |
| SA5 (2) | H,HP,HT | • | • | • | • | • | • | • | • | • | • | • | • |
| SIT3 (3) | H,HP,HT | • | • | • | • | | • | • | • | • | • | | • |
| SIT5 (4) | H,HP,HT | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | H,HP,HT | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 (2) | H,HP,HT | • | | • | | • | • | • | • | • | • | • | • |
| TX (1) | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| TVD (C) | Н | • | • | • | • | • | • | • | • | • | • | • | • |
| TXB (5) | HP | | • | | | | • | • | • | | • | | |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AER503IR-TX thermostats, if fitted.
- (3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
- (4) Probe for AER503IR-TX thermostats, if fitted.
- (5) Installation on the fan coil.

Common accessories

3 way valve kit

| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
|-------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VCZ41 (1) | H,HP,HT | • | • | | | | | | | | | | |
| VCZ4124 (2) | H,HP,HT | • | • | | | | | | | | | | |
| VCZ42 (1) | H,HP,HT | | | • | • | • | • | | • | • | • | | |
| VCZ4224 (2) | H,HP,HT | | | • | • | • | • | • | • | • | • | | |
| VCZ43 (1) | H,HP,HT | | | | | | | | | | | • | • |

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| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
|--|---|---|---|---|--|---|---|--|--|---|--|---|---|
| VCZ4324 (2) | H,HP,HT | | | | | | | | | | | • | • |
| (1) 230V~50Hz | ,, | | | | | | | | | | | | |
| 2) 24V | | | | | | | | | | | | | |
| 2 way valve kit | | | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
| VCZD1 (1) | H,HP,HT | | | 300 | 330 | 700 | 730 | 300 | 330 | 000 | 030 | 700 | 730 |
| VCZD124 (2) | Н,НР,НТ | • | • | | | | | | | | | | |
| VCZD2 (1) | H,HP,HT | | | • | | • | | | • | | | | |
| VCZD224 (2) | Н,НР,НТ | | | • | • | • | • | • | • | • | • | | |
| VCZD3 (1) | Н,НР,НТ | | | | | | | | | | | | |
| VCZD324 (2) | Н,НР,НТ | | | | | | | | | | | | |
| (1) 230V~50Hz (2) 24V | ,, | | | | | | | | | | | | |
| (2) 24V Combined Adjustment and B | alancing V | /alve Kit | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
| VJP060 (1) | H,HP,HT | • | • | • | • | | | | | | | | |
| VJP060M (2) | Н,НР,НТ | | | | | | | | | | | | |
| VJP090 (1) | Н,НР,НТ | | | | | | • | • | • | | | | |
| VJP090M (2) | Н,НР,НТ | | | | | • | | | | | | | |
| VJP150 (1) | Н,НР,НТ | | | | | | | | | | | | |
| VJP150M (2) | Н,НР,НТ | | | | | | | | | | | | |
| (1) 230V~50Hz | ,, | | | | | | | | | | | | |
| (1) 23UV~5UHZ (2) 24V | | | | | | | | | | | | | |
| Wall mounting kit | | | | | | | | | | | | | |
| Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 0 | 900 | 950 |
| H,HP | AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | AMP | | AMP20 | AMP20 |
| , | 71111 20 | 711111 20 | 711111 20 | 711111 20 | 711111 20 | 71111 20 | 74111 20 | 71111 20 | 71111 20 | 74111 | | 7tivii 20 | 71111 20 |
| Condensate drainage | | | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
| DSCZ4 (1) | HP | • | • | • | • | • | • | • | • | • | • | • | • |
| | | viac is also insta | Iladi AMD AA | AD7 valvo VC71 | 2.2.4.VAL/D - | nd all the cond | lancata callacti | ion trace | | | | | |
| (1) DSC4 cannot be mounted if even just one | or these accesso | ries is also insta | iled: AIVIP - AIV | NPZ Valve VCZ I | -2-3-4 X4L/K a | ing all the cond | iensate collecti | ion trays. | | | | | |
| Condensate drip | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | | 900 | 950 |
| Ver | 200 BCZ4 (1), | 250 BCZ4 (1), | 300 BCZ4 (1), | 350 BCZ4 (1), | 400 BCZ4 (1), | 450 BCZ4 (1), | 500 BCZ4 (1), | 550 BCZ4 (1), | 600 BCZ4 (1), | | | | |
| · | | | | | | | | | | BCZ4 | (1), | 900 BCZ6 (2) | 950 BCZ6 (2) |
| Ver H,HP,HT (1) For vertical installation. | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 | (1), | | |
| Ver H,HP,HT (1) For vertical installation. | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 (1), | BCZ4 | (1), | | |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), | BCZ4 (1), BCZ5 (2) | BCZ4 (1), | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 | (1), (2) | | |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 BCZ5 | (1), (2) | BCZ6 (2) | BCZ6 (2) |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 BCZ5 | (1), (2) | BCZ6 (2) | BCZ6 (2) |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. | BCZ4 (1), BCZ5 (2) 200 BC8 (1) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 (1), BCZ5 (2) | BCZ4 BCZ5 | (1), (2) | BCZ6 (2) | BCZ6 (2) |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. | BCZ4 (1), BCZ5 (2) 200 BC8 (1) | BCZ4 (1), BCZ5 (2) 250 BC8 (1) | BCZ4 (1), BCZ5 (2) 300 BC8 (1) | BCZ4 (1), BCZ5 (2) 350 BC8 (1) | BCZ4 (1), BCZ5 (2) 400 BC8 (1) | BCZ4 (1), BCZ5 (2) 450 BC8 (1) | BCZ4 (1), BCZ5 (2) 500 BC8 (1) | BCZ4 (1), BCZ5 (2) 550 BC8 (1) | BCZ4 (1), BCZ5 (2) 600 BC8 (1) | BCZ4 BCZ5 650 BC8 (| (1), (2) 0 (1) | 900 BC9 (1) | 950 BC9 (1) |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. | BCZ4 (1), BCZ5 (2) 200 BC8 (1) | BCZ4 (1), BCZ5 (2) 250 BC8 (1) | BCZ4 (1), BCZ5 (2) 300 BC8 (1) | BCZ4 (1), BCZ5 (2) 350 BC8 (1) | BCZ4 (1), BCZ5 (2) 400 BC8 (1) | BCZ4 (1), BCZ5 (2) 450 BC8 (1) | BCZ4 (1), BCZ5 (2) 500 BC8 (1) | BCZ4 (1), BCZ5 (2) 550 BC8 (1) | BCZ4 (1), BCZ5 (2) 600 BC8 (1) | BCZ4 BCZ5 650 BC8 (| (1), (2) 0 (1) | 900 BC9 (1) | 950 BC9 (1) |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the logs with the logs w | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) | BCZ4 (1), BCZ5 (2) 350 BC8 (1) | BCZ4 (1), BCZ5 (2) 400 BC8 (1) | BCZ4 (1), BCZ5 (2) 450 BC8 (1) | BCZ4 (1), BCZ5 (2) 500 BC8 (1) | BCZ4 (1), BCZ5 (2) 550 BC8 (1) | BCZ4 (1), BCZ5 (2) 600 BC8 (1) | 650 BCZ4 BCZ5 | (1), (2) 0 (1) | 900 BC9 (1) | 950 BC9 (1) |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the over the first the second of the s | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 | BCZ4 (1), BCZ5 (2) 600 BC8 (1) 600 PCZ800 | 651 651 651 652 651 | (1), (2) 0 (1) 0 | 900 BC9 (1) 900 PC21000 | 950 BC9 (1) 950 PCZ1000 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the ever H,HT Grille also applicable for floo | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 pr installat | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 | 600 BCZ5 (2) 600 BC8 (1) 600 PCZ800 | 651 651 652 653 653 653 | (1), (2) 0 (1) 0 800 | 900 BC9 (1) 900 PCZ1000 | 950 BC9 (1) 950 PC21000 |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the over the form t | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 pr installat | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 | 600 BCZ5 (2) 600 BC8 (1) 600 PCZ800 | 651 651 652 653 653 653 | (1), (2) 0 (1) 0 800 | 900 BC9 (1) 900 PCZ1000 | 950 BC9 (1) 950 PC21000 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the over the following the rear of the following t | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 or installati 200 GA200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 350 GA300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 400 GA500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 450 GA500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 550 GA500 | 600 BCZ5 (2) 600 BC8 (1) 600 PCZ800 600 GA800 | 651 651 652 653 653 653 653 653 653 | (1), (2) 0 (1) 0 (1) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 | 950 BC9 (1) 950 PCZ1000 950 GA800 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the experiment of the experi | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 or installat. 200 GA200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 GA300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 400 GA500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 450 GA500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 | 550 BC8 (1) 550 BC8 (1) 550 PCZ500 550 GA500 | 600 600 600 600 600 600 600 600 | 651 651 652 651 653 654 654 658 | (1), (2) 0 0 (1) (1) 0 0 0 0 0 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 | 950 BC9 (1) 950 PCZ1000 950 GA800 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the over H,HT Grille also applicable for flood Ver H,HP,HT Metal supports for GA grille | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 or installati 200 GA200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 350 GA300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 400 GA500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 450 GA500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 550 GA500 | 600 BCZ5 (2) 600 BC8 (1) 600 PCZ800 600 GA800 | 651 651 652 651 653 654 654 658 | (1), (2) 0 0 (1) (1) 0 0 0 0 0 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 | 950 BC9 (1) 950 PCZ1000 950 GA800 |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the experiment of the experi | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 GA200 FIKIT200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 FIKIT200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 | 350 BC8 (1) 350 PC7300 350 GA300 FIKIT300 | ## BCZ4 (1), ## BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## GAS00 ## 400 ## FIKITS00 ## 400 ## 400 ## 400 ## 400 ## 400 ## 400 ## 400 | BC74 (1), BC25 (2) 450 BC8 (1) 450 PC2500 450 GA500 FIKIT500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 FIKIT500 | BCZ4 (1), BCZ5 (2) 550 BC8 (1) 550 PCZ500 550 GA500 FIKIT500 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 GA800 | 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 00 0 00 0 00 | 900 BC9 (1) 900 PCZ1000 900 GA800 FIKIT800 | 950 BC9 (1) 950 PCZ1000 950 GA800 FIKIT800 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the ever h,HT Grille also applicable for floor Ver H,HT Metal supports for GA grille Ver H,HP,HT Ventilcassaforma | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 GA200 FIKIT200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 FIKIT200 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 | BCZ4 (1), BCZ5 (2) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 | BCZ4 (1), BCZ5 (2) 400 BC8 (1) 400 PCZ500 400 GA500 FIKIT500 | BCZ4 (1), BCZ5 (2) 450 BC8 (1) 450 PCZ500 450 GA500 FIKIT500 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 FIKITS00 | 550 BC8 (1) 550 BC8 (1) 550 PCZ500 550 GA500 FIKIT500 | 600 BCZ5 (2) 600 BC8 (1) 600 PCZ800 600 GA800 | 651 651 652 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 00 0 00 0 00 | 900 BC9 (1) 900 PC21000 900 GA800 FIKIT800 | 950 BC9 (1) 950 PCZ1000 GA800 FIKIT800 |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the ever H,HT Grille also applicable for floor Ver H,HP,HT Metal supports for GA grille Ver H,HP,HT Ventilcassaforma Ver HP Brackets to fix the fan coil to | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 or installat 200 GA200 FIKIT200 CHF22 the floor. | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 FIKIT200 CHF22 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 CHF32 | 350 BC8 (1) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 | ## BCZ4 (1), BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## GA500 ## 400 ## FIKIT500 ## 400 ## CHF42 | BC74 (1), BC25 (2) 450 BC8 (1) 450 PC2500 450 GA500 FIKIT500 450 CHF42 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 FIKIT500 CHF42 | 550 BC8 (1) 550 BC8 (1) 550 PCZ500 550 GA500 FIKIT500 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 FIKIT800 600 CHF62 | 651 651 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 00 0 00 0 00 0 0662 | 900 BC9 (1) 900 PCZ1000 900 GA800 FIKIT800 CHF62 | 950 BC9 (1) 950 PCZ1000 950 GA800 FIKIT800 CHF62 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the ever h,HT Grille also applicable for flood Ver H,HP,HT Metal supports for GA grille Ver H,HP,HT Ventilcassaforma Ver HP Brackets to fix the fan coil to Ver | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 or installate 200 GA200 FIKIT200 CHF22 the floor. 200 | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 300 250 GA200 FIKIT200 CHF22 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 CHF32 | 350 BC8 (1) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 CHF32 | ## BCZ4 (1), ## BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## GA500 ## 400 ## FIKIT500 ## 400 ## CHF42 | ## BC74 (1), BC75 (2) ## 450 ## 8C8 (1) ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 FIKIT500 CHF42 | 550 BC8 (1) 550 BC8 (1) 550 FCZ500 550 GA500 550 FIKIT500 CHF42 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 FIKIT800 600 CHF62 | 651 651 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 000 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 FIKIT800 CHF62 | 950 BC9 (1) 950 PCZ1000 950 GA800 FIKIT800 CHF62 |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the experiment of the experi | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 PCZ200 GA200 FIKIT200 CHF22 the floor. 200 SPCZ | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 300 250 GA200 FIKIT200 CHF22 | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 CHF32 | 350 BC8 (1) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 CHF32 | ## BCZ4 (1), ## BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## GA500 ## 400 ## FIKIT500 ## 400 ## CHF42 | ## BC74 (1), BC75 (2) ## 450 ## 8C8 (1) ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 ## 450 | BCZ4 (1), BCZ5 (2) 500 BC8 (1) 500 PCZ500 500 GA500 FIKIT500 CHF42 | 550 BC8 (1) 550 BC8 (1) 550 FCZ500 550 GA500 550 FIKIT500 CHF42 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 FIKIT800 600 CHF62 | 651 651 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 000 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 FIKIT800 CHF62 | 950 BC9 (1) 950 PCZ1000 950 GA800 FIKIT800 CHF62 |
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| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the experiments of t | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 or installat. 200 GA200 FIKIT200 CHF22 the floor. 200 SPCZ | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 FIKIT200 CHF22 250 SPCZ | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 CHF32 300 SPCZ | 350 BC8 (1) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 CHF32 350 SPCZ | ## BCZ4 (1), BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## 400 ## 400 ## FIKIT500 ## 400 | ## BC74 (1), BC75 (2) ## 450 ## 850 | \$67.4 (1), BCZ5 (2) \$00 \$C8 (1) \$00 PCZ500 \$00 GA500 FIKIT500 CHF42 \$00 \$PCZ \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$ | ## BCZ4 (1), ## BCZ5 (2) ## S50 ## BC8 (1) ## S50 ## S50 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 FIKIT800 600 CHF62 | 651 651 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 000 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 900 FIKIT800 CHF62 900 SPCZ | 950 PCZ1000 950 GA800 950 GIKIT800 950 CHF62 |
| Ver H,HP,HT (1) For vertical installation. (2) For horizontal installation. Ver HP (1) For horizontal installation. Panel closing the rear of the experiment of the experi | BCZ4 (1), BCZ5 (2) 200 BC8 (1) unit 200 PCZ200 or installat. 200 GA200 FIKIT200 CHF22 the floor. 200 SPCZ | BCZ4 (1), BCZ5 (2) 250 BC8 (1) 250 PCZ200 ion 250 GA200 FIKIT200 CHF22 250 SPCZ | BCZ4 (1), BCZ5 (2) 300 BC8 (1) 300 PCZ300 300 GA300 FIKIT300 CHF32 300 SPCZ | 350 BC8 (1) 350 BC8 (1) 350 PCZ300 350 GA300 FIKIT300 CHF32 | ## BCZ4 (1), ## BCZ5 (2) ## 400 ## BC8 (1) ## 400 ## FIKIT500 ## 400 ## CHF42 ## 400 ## SPCZ | ## BC74 (1), BC75 (2) ## 450 ## 850 | \$67.4 (1), BCZ5 (2) \$00 \$C8 (1) \$00 PCZ500 \$00 GA500 FIKIT500 CHF42 \$900 \$PCZ | ## BCZ4 (1), ## BCZ5 (2) ## S50 ## BC8 (1) ## S50 ## S60 ## S60 | 600 BC8 (1) 600 BC8 (1) 600 BC8 (1) 600 GA800 600 FIKIT800 600 CHF62 | 651 651 651 651 651 651 651 651 651 651 | (1), (2) 0 (1) 0 (1) 0 0 0 000 0 | 900 BC9 (1) 900 PCZ1000 900 GA800 FIKIT800 CHF62 | 950 BC9 (1) 950 PCZ10000 950 GA800 FIKIT800 CHF62 950 SPCZ |

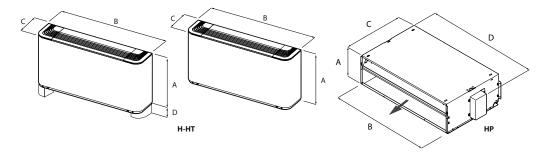
PERFORMANCE SPECIFICATIONS

2-pipe

| 2-pipe | | | F.C72001 | 1 | Ι | F.C72F01 | | | F.C72001 | | | F.C72.FAL | | | F.C74001 | | | FC74FALI | |
|---|---|---|---|---|---|--|---|---|---|---|---|--|--|--|--|---|---|---|--|
| | | 1 | FCZ200H 2 | 3 | 1 | FCZ250H | 3 | 1 | FCZ300H 2 | 3 | 1 | FCZ350H 2 | 3 | 1 | FCZ400H 2 | 3 | 1 | FCZ450H 2 | 3 |
| | | i | M | H | Ė | M | H | Ė | M | Н | i | M | Н | Ĺ | M | H | Ĺ | M | H |
| Heating performance 70 °C / 60 °C (1) | | _ | | | | | | _ | | | | | | | | | | | |
| Heating capacity | kW | 2,02 | 2,95 | 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 | 5,50 | 3,77 | 4,92 | 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 |
| Water flow rate system side | I/h | 177 | 258 | 324 | 193 | 278 | 355 | 304 | 391 | 482 | 330 | 431 | 539 | 379 | 503 | 627 | 400 | 551 | 685 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 | 20 | 9 | 16 | 24 | 6 | 11 | 16 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,00 | 1,46 | 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 | 2,73 | 1,87 | 2,44 | 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 |
| Water flow rate system side | I/h | 174 | 254 | 319 | 190 | 274 | 350 | 299 | 385 | 475 | 325 | 425 | 531 | 373 | 495 | 617 | 394 | 543 | 675 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 8 | 15 | 22 | 8 | 12 | 18 | 8 | 14 | 20 | 10 | 16 | 24 | 6 | 11 | 16 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 | 1,28 | 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | 2,17 | 2,65 | 1,89 | 2,46 | 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 |
| Sensible cooling capacity | kW | 0,71 | 1,05 | 1,33 | 0,79 | 1,20 | 1,52 | 1,26 | 1,65 | 2,04 | 1,33 | 1,76 | 2,18 | 1,59 | 2,14 | 2,67 | 1,69 | 2,30 | 2,90 |
| Water flow rate system side | l/h | 153 | 221 | 275 | 182 | 267 | 334 | 288 | 374 | 456 | 350 | 460 | 560 | 379 | 503 | 619 | 414 | 552 | 694 |
| Pressure drop system side | kPa | 7 | 13 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 | 18 | 25 | 10 | 17 | 24 | 9 | 15 | 22 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | (| .entrifuga | ıl | (| Centrifuga | | (| .entrifuga | ıl | (| Centrifuga | al | (| entrifuga | ıl | - | Centrifuga | al |
| Fan motor | type | As | ynchrono | us | As | synchrono | us | As | ynchrono | us | As | ynchrono | us | As | ynchrono | us | A: | synchrono | ous |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 140 | 220 | 290 | 260 | 350 | 450 | 260 | 350 | 450 | 330 | 460 | 600 | 330 | 460 | 600 |
| Input power | W | 25 | 29 | 33 | 25 | 29 | 33 | 25 | 33 | 44 | 25 | 33 | 44 | 30 | 43 | 57 | 30 | 43 | 57 |
| <u>Electrical wiring</u> | | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Туре | type | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Fan coil sound data (4) | 18/11 | | | | | | | | | | | | | | | | T | | |
| Sound power level | dB(A) | 35,0 | 46,0 | 51,0 | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 37,0 | 44,0 | 51,0 |
| Sound pressure | dB(A) | 27,0 | 38,0 | 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 |
| Power supply | | - | 201/ 501 | | | 201/ 501 | | _ | 201/ 501 | | | 201/ 501 | | _ | 201/ 501 | | | 201/ 501 | |
| Power supply | | | 30V~50H | łz | | 230V~50H | Z | | 30V~50l | 1Z | | 30V~50H | 12 | | 30V~50l | 1Z | | :30V~50H | 1Z |
| | | | | | | | | | | | | | | | | | | | |
| | | | FCZ500H | | _ | FCZ550H | | | FCZ600H | | _ | FCZ650H | | _ | FCZ900H | | | FCZ950H | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| H 11 | | | | | _ | | | | | | _ | | | _ | | | | | |
| • • | LAM | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H |
| Heating capacity | kW | 1 L | 2 M | 3 H 8,50 | 1 L | 2 M 8,34 | 3 H 9,75 | 1 L | 2 M 8,10 | 3 H | 1 L | 2 M 9,15 | 3 H 11,50 | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H |
| Heating capacity Water flow rate system side | l/h | 1 L 5,27 462 | 2 M 7,31 641 | 3 H 8,50 745 | 1 L 5,82 510 | 2 M 8,34 731 | 3 H 9,75 855 | 1 L 6,50 570 | 2 M 8,10 710 | 3 H 10,00 877 | 7,19 631 | 2 M 9,15 802 | 3 H 11,50 1008 | 1 L 10,77 945 | 2 M 13,35 1171 | 3 H 15,14 1328 | 1 L 11,20 982 | 2 M 14,42 1264 | 3 H 17,10 1500 |
| Water flow rate system side Pressure drop system side | | 1 L | 2 M | 3 H 8,50 | 1 L | 2 M 8,34 | 3 H 9,75 | 1 L | 2 M 8,10 | 3 H | 1 L | 2 M 9,15 | 3 H 11,50 | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) | I/h kPa | 1 L 5,27 462 12 | 2 M 7,31 641 21 | 3 H 8,50 745 28 | 1 L 5,82 510 10 | 2 M 8,34 731 20 | 3 H 9,75 855 26 | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 7,19 631 14 | 2 M 9,15 802 21 | 3 H 11,50 1008 31 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 15,14 1328 22 | 1 L 11,20 982 16 | 2 M 14,42 1264 25 | 3 H 17,10 1500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 1 L 5,27 462 12 | 2 M 7,31 641 21 | 3 H 8,50 745 28 | 5,82 510 10 | 2 M 8,34 731 20 | 3 H 9,75 855 26 | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 7,19 631 14 | 2 M 9,15 802 21 | 3 H 11,50 1008 31 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 15,14 1328 22 7,53 | 1 L 11,20 982 16 | 2 M 14,42 1264 25 | 3 H 17,10 1500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa kW I/h | 1 L 5,27 462 12 2,62 455 | 2 M 7,31 641 21 3,63 631 | 3 H 8,50 745 28 4,22 734 | 5,82 510 10 2,89 502 | 2 M 8,34 731 20 4,14 720 | 3 H 9,75 855 26 4,85 842 | 1 L 6,50 570 12 3,32 561 | 2 M 8,10 710 18 4,03 699 | 3 H 10,00 877 26 4,97 863 | 7,19 631 14 3,57 621 | 2 M 9,15 802 21 4,55 790 | 3 H 11,50 1008 31 5,72 993 | 1 L 10,77 945 12 5,35 930 | 2 M 13,35 1171 17 6,64 1152 | 3 H 15,14 1328 22 7,53 1307 | 1 L 11,20 982 16 5,57 967 | 2 M 14,42 1264 25 7,17 1245 | 3 H 17,10 1500 33 8,50 1476 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW | 1 L 5,27 462 12 | 2 M 7,31 641 21 | 3 H 8,50 745 28 | 5,82 510 10 | 2 M 8,34 731 20 | 3 H 9,75 855 26 | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 7,19 631 14 | 2 M 9,15 802 21 | 3 H 11,50 1008 31 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 15,14 1328 22 7,53 | 1 L 11,20 982 16 | 2 M 14,42 1264 25 | 3 H 17,10 1500 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) | I/h kPa kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 | 7,31 641 21 3,63 631 21 | 3 H 8,50 745 28 4,22 734 28 | 5,82 510 10 2,89 502 | 2 M 8,34 731 20 4,14 720 20 | 3 H 9,75 855 26 4,85 842 26 | 1 L 6,50 570 12 3,32 561 12 | 2 M 8,10 710 18 4,03 699 18 | 3 H 10,00 877 26 4,97 863 26 | 7,19 631 14 3,57 621 14 | 2 M 9,15 802 21 4,55 790 20 | 3 H 11,50 1008 31 5,72 993 31 | 1 L 10,77 945 12 5,35 930 12 | 2 M 13,35 1171 17 6,64 1152 | 3 H 15,14 1328 22 7,53 1307 22 | 1 L 11,20 982 16 5,57 967 15 | 2 M 14,42 1264 25 7,17 1245 24 | 3 H 17,10 1500 33 8,50 1476 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | I/h kPa kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 | 2 M 7,31 641 21 3,63 631 21 | 3 H 8,50 745 28 4,22 734 28 | 5,82 510 10 2,89 502 10 | 2 M 8,34 731 20 4,14 720 20 | 3 H 9,75 855 26 4,85 842 26 | 1 L 6,50 570 12 3,32 561 12 | 2 M 8,10 710 18 4,03 699 18 | 3 H 10,00 877 26 4,97 863 26 | 7,19 631 14 3,57 621 14 3,95 | 2 M 9,15 802 21 4,55 790 20 | 3 H 11,50 1008 31 5,72 993 31 | 1 L 10,77 945 12 5,35 930 12 | 2 M 13,35 1171 17 6,64 1152 17 | 3 H 15,14 1328 22 7,53 1307 22 | 1 L 11,20 982 16 5,57 967 15 | 2 M 14,42 1264 25 7,17 1245 24 | 3 H 17,10 1500 33 8,50 1476 33 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 | 5,82 510 10 2,89 502 10 2,91 2,07 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 | 7,19 631 14 3,57 621 14 3,95 2,78 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 460 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 | 1 L 7,19 631 14 3,57 621 14 3,95 2,78 595 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side | I/h kPa kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 | 5,82 510 10 2,89 502 10 2,91 2,07 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 | 7,19 631 14 3,57 621 14 3,95 2,78 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW I/h kPa kW kW I/h kPa | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 1 L 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 1 L 7,19 631 14 3,57 621 14 3,95 2,78 595 15 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type | I/h kPa kW I/h kPa kW I/h kPa type | 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 7,31 641 21 3,63 631 21 21 3,69 2,73 634 23 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,97 501 12 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 1 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 1189 22 | 1 L 11,20 982 16 5,57 15 5,77 15 5,77 3,80 992 15 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | kW I/h kPa kW I/h kPa type type | 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 vynchronod | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,97 501 12 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 1 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 1189 22 | 1 L 11,20 982 16 5,57 15 5,77 15 5,77 3,80 992 15 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | kW I/h kPa kW I/h kPa type type no. | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 vnchrono 2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (As | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (Ass | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 3 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C Ass | 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga ynchronod 3 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Eintrifuga 3 720 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 700 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 3 930 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power | kW I/h kPa kW I/h kPa type type no. | 1 L 5,27 462 12 12 2,62 455 12 2,68 1,94 460 13 400 38 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 600 52 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 38 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As | 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga ynchronod 3 720 60 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 A: | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 3 930 80 | 3 H 17,10 1500 33 38,50 1476 33 38,60 5,78 1479 30 1140 1106 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h | 1 L 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As | 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga ynchronod 3 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Eintrifuga 3 720 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 17 6,64 1152 17 5,00 3,78 860 13 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 700 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 3 930 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 5,27 462 12 12 2,62 455 12 2,68 1,94 460 13 400 38 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 600 52 V2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 38 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Sentrifuga ynchrono 3 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 icentrifuga ynchrono 3 930 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 A: | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 23 23 24 25 26 27 27 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | 3 H 17,10 1500 33 38,50 1476 33 38,60 5,78 1479 30 1140 1106 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 5,27 462 12 12 2,62 455 12 2,68 1,94 460 13 400 38 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 600 52 V2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 38 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 5 600 52 V2 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 centrifugg ynchronc 3 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 Eentrifuga ynchronod 3 930 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 A: | 2 M 14,42 1264 25 7,17 1245 24 4,87 1259 23 Centrifuga synchrono 3 930 V2 | 3 H 17,10 1500 33 38,50 1476 33 38,60 5,78 1479 30 1140 1106 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type Main coil | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 5,27 462 12 12 2,62 455 12 2,68 1,94 460 13 400 38 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 eentrifuga ynchrono 2 600 52 V2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 | 1 L 5,82 510 10 10 2,89 502 10 2,91 2,07 501 12 400 38 | 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Sentrifuga ynchrono 3 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (0 As | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 icentrifuga ynchrono 3 930 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 | 1 L 11,20 982 16 5,57 15 5,77 3,80 992 15 A: | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 23 23 24 25 26 27 27 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | 3 H 17,10 1500 33 38,50 1476 33 38,60 5,78 1479 30 1140 1106 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type Main coil Fan coil sound data (4) | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L S,27 462 12 2,62 455 12 2,68 1,94 460 13 C As 400 38 V1 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 2 ynchrono 2 600 52 V2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 V3 | 1 L 5,82 510 10 2,89 502 10 2,91 12 6 A: | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 1 us | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 11 uus | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 900 91 V3 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (As | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 Eentrifuga ynchronod 3 930 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 V3 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 15 6 A: | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 80 V2 | 3 H 17,10 1500 33 8,50 1476 33 38,60 5,78 1479 30 1140 106 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type Main coil Fan coil sound data (4) Sound power level | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W type Ø dB(A) | 1 L S,27 462 12 2,62 455 12 2,68 1,94 460 13 C As V1 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 entrifuga 2 600 52 V2 Gas-F 3,4" | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 V3 | 1 L 5,82 510 10 10 2,89 502 10 10 2,91 12 400 38 V1 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 Gas-F 3/4" | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 720 76 V3 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 4 14 C 6,50 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga 720 60 V2 Gas-F 3/4" | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 11 V3 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 42,0 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 Gas - F 3/4" 51,0 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 900 91 V3 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (Ass. 2017) 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 13 Eentrifuga ynchrond 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 V3 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 23 23 24 Entrifuga 80 V2 Gas - F 3,4" | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 1140 106 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type Main coil Fan coil sound data (4) Sound power level Sound pressure | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L S,27 462 12 2,62 455 12 2,68 1,94 460 13 C As 400 38 V1 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 2 ynchrono 2 600 52 V2 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 720 76 V3 | 1 L 5,82 510 10 10 2,89 502 10 10 2,91 12 6 A: | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 1 us | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 11 uus | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 As | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 900 91 V3 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (As | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 Eentrifuga ynchronod 3 930 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 V3 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 15 6 A: | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 Centrifuga 80 V2 | 3 H 17,10 1500 33 8,50 1476 33 38,60 5,78 1479 30 1140 106 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Diametre hydraulic fittings Type Main coil Fan coil sound data (4) Sound power level | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W type Ø dB(A) | 1 L S,27 462 12 2,62 455 12 2,68 1,94 460 13 C As V1 42,0 34,0 | 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 23 entrifuga 2 600 52 V2 Gas-F 3,4" | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 71 720 76 V3 56,0 48,0 | 1 L 5,82 510 10 10 2,89 502 10 10 2,91 2,07 501 12 42,0 38 V1 | 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 Centrifuga 2 600 52 V2 Gas-F 3/4" | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 (C As 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 Eentrifuga 720 60 V2 Gas-F 3/4" | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 11 V3 | 7,19 631 14 3,57 621 14 3,95 2,78 595 15 62 42,0 34,0 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuga 3 720 60 V2 Gas - F 3/4" 51,0 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 900 91 V3 | 1 L 10,77 945 12 5,35 930 12 4,29 2,97 738 10 (CA) 59 V1 51,0 43,0 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 13 13 Eentrifuga ynchrond 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 106 V3 | 1 L 11,20 982 16 5,57 967 15 5,77 3,80 992 15 700 59 V1 | 2 M 14,42 1264 25 7,17 1245 24 7,32 4,87 1259 23 23 23 24 Entrifuga 80 V2 Gas - F 3,4" | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 1140 106 V3 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| Ci | | | 200 | 250 | 200 | 250 | 400 | 450 | F00 | - FFA | | (F0 | 000 | 050 |
|------------------------|------|----|-----|-----|-----|-----|------|-----|------|-------|---------|------------|------|------|
| Size | | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 900 | 950 |
| Dimensions and weights | | | | | | | | | | | | | | |
| Λ | H,HT | mm | 486 | - | 486 | - | 486 | - | 486 | - | 486 | - | 591 | 591 |
| A | HP | mm | 216 | - | 216 | - | 216 | - | 216 | - | 216 | - | 216 | 216 |
| В | H,HT | mm | 750 | - | 980 | - | 1200 | - | 1200 | - | 1320 | - | 1320 | 1320 |
| В | HP | mm | 562 | - | 793 | - | 1013 | - | 1013 | - | 1147 | - | 1147 | 1147 |
| | H,HT | mm | 220 | - | 220 | - | 220 | - | 220 | - | 220 | - | 220 | 220 |
| C | HP | mm | 453 | - | 453 | - | 453 | - | 453 | - | 453 | - | 558 | 558 |
| | H,HT | mm | 90 | - | 90 | - | 90 | - | 90 | - | 90 | - | 90 | 90 |
| D | HP | mm | 522 | - | 753 | - | 973 | - | 973 | - | 1122 | - | 1122 | 1122 |
| F | H,HT | kg | 15 | - | 17 | - | 23 | - | 22 | - | 29 | - | 34 | 34 |
| Empty weight | HP | kg | 12 | - | 14 | - | 20 | - | 23 | - | 29 | - | 32 | 32 |





















FCZI-H

Fan coil with the photocatalytic device, for universal and floor installation



- Photocatalytic device
- Tested effectiveness against viruses, bacteria and allergens
- Active against the SARS-CoV-2 virus, even on surfaces
- Backlit touch command with programming via a smart device (accessory)





DESCRIPTION

Fan coil with built-in **photocatalytic device**.

Active against the airborne Sars-CoV-2 virus (95%-99% abatement efficacy after 20 minutes of operation tested at the Virostatics laboratory in Alghero).

Active against the SARS-CoV-2 virus, even on surfaces - 84% effectiveness after 12 h (tests carried out in collaboration with the Department of Microbiology of the University of Padua).

Suitable for air conditioning in places requiring optimum hygiene levels, such as:

- Hospitals
- Dentists' surgeries
- Doctors' and vets' surgeries
- Analysis laboratories
- Waiting rooms
- Public premises

They can be installed in any type of 2-pipe system (version for 4-pipe systems available upon request) and in combination with any heat generator, even at low temperatures. Thanks to the availability of several versions and configurations, it's easy to find the right solution for every need.

VERSIONS

- H Unit with shell without thermostat vertical and horizontal installation.
- HP Unit without shell and without thermostat vertical and horizontal installation.
- **HT** Unit with shell and thermostat vertical installation.

FEATURES

Case

Metallic protective cabinet with rustproofing polyester paint RAL 9003. The head with adjustable air distribution grille is made of plastic RAL 7047. When the grille closes, the fan coil automatically switches off.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Continuous air flow rate variation is made possible by a 0-10V signal generated by Aermec adjustment and control commands or by independent regulation systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

 Apart from the brushless motor, each unit can also be supplied with a single-phase asynchronous motor. Refer to the relative FCZ - H datasheet

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environ-

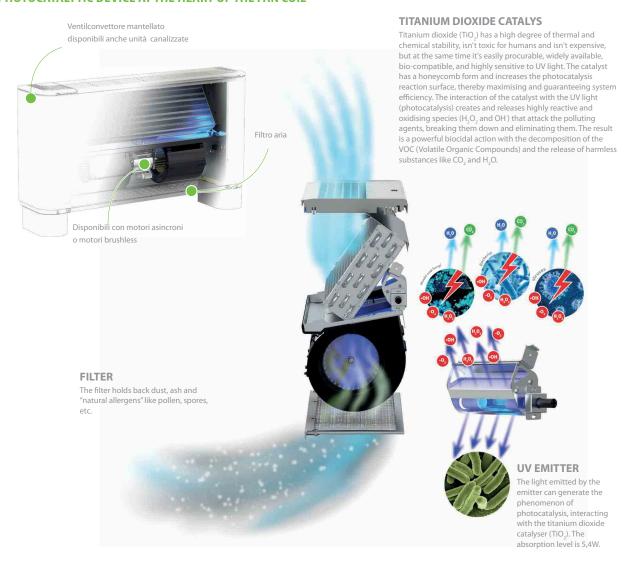
ments where aluminium may be subject to corrosion.

The coil is not reversible during installation but, when ordering, you can choose units with the coil water connections on the right (at no extra charae).

Air filter

Air filter class **COARSE 25%** for all versions; easy to pull out and clean. Shrouds can be pulled out and inspected for easy and effective cleaning.

PHOTOCATALYTIC DEVICE AT THE HEART OF THE FAN COIL



GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|---------|--|
| 1,2,3,4 | FCZI |
| 5 | Size 2, 3, 4, 5, 7, 9 |
| 6 | Main coil |
| 0 | Standard |
| 5 | Oversized |
| 7 | Secondary coil |
| 0 | Without coil |
| 8 | Version |
| Н | Unit with shell without thermostat - vertical and horizontal mount |
| HP | Unit without shell and thermostat - vertical and horizontal mount |
| HPR | Unit without shell and thermostat - vertical and horizontal installation - water connections on the right |
| HR | Unit with shell without thermostat - vertical and horizontal installation - water connections on the right |
| HT | Unit with shell with thermostat - vertical mount |
| HTR | Unit with shell with thermostat - vertical mount - water connections on the right |

ACCESSORIES

Control panels and dedicated accessories - FCZI-H

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF-E191: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E22: User interface on the machine, to be combined with the VMF-E0X, VMF-E19 or VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (MFTAL)

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMF system

■ The fan coil can also be teamed up with the VMF system; please contact headquarters about compatibility with the various system components.

Common accessories

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit.

AMP: Wall mounting kit

DSC: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

ZXZ: Pair of stylish and structural feet

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

SPCZ: Brackets to fix the fan coil to the floor.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|------------------------------|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | H,HP | • | • | • | • | • | • | • |
| PR0503 | H,HP | • | • | • | • | • | • | • |
| SA5 (2) | H,HP | • | • | • | • | • | • | • |
| SW3 (2) | H,HP,HT | • | • | • | • | • | • | • |
| SW5 (2) | H,HP | • | • | • | • | • | • | • |
| 3W3 (Z) | HT | | • | | • | | • | |
| TX (1) | H,HP,HT | • | • | • | • | • | • | • |
| Model | Ver | 550 | | 700 | 750 | 900 | | 950 |
| AER503IR (1) | ILLID | | | | | | | |
| תבוטטווו (ו) | H,HP | • | | • | • | • | | • |
| | н,нг Н,НР | • | | • | • | • | | • |
| PR0503 | · · · · · · · · · · · · · · · · · · · | • | | - | | | | • |
| PR0503 SA5 (2) | H,HP | | | • | • | • | | - |
| PR0503 SA5 (2) SW3 (2) | H,HP H,HP | • | | • | • | • | | • |
| PR0503 SA5 (2) | Н,НР Н,НР Н,НР,НТ | • | | | • | • | | • |

(1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

(2) Probe for AER503IR-TX thermostats, if fitted.

| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E19I | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E2Z | Н | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E3 | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4DX | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4X | H,HP | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-IO | Н | • | • | • | • | • | • | • | • | • | • | • | • |

| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
|--|--|--|--|---|---|--|--|---|---|-------|--|---|---|
| WMF-IR | H,HP | . 200 | | | | +00 | +30 | • | • | | 730 | , | • |
| VMF-LON | Н | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-SW1 | H,HP | • | • | • | | • | • | • | • | • | • | • | |
| Common accessories | | | | | | | | | | | | | |
| 3 way valve kit | | | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
| VCZ41 (1) | H,HP,HT | | | 300 | 330 | 700 | 770 | 300 | 330 | 700 | 730 | 700 | 730 |
| VCZ4124 (2) | H,HP,HT | • | • | | | | | | | | | | |
| VCZ42 (1) | H,HP,HT | | | • | | • | • | | | | • | | |
| VCZ4224 (2) | H,HP,HT | | | | | | | | | | | | |
| VCZ43 (1) | H,HP,HT | | | | | | | | | | | | • |
| VCZ4324 (2) | H,HP,HT | | | | | | | | | | | | • |
| (1) 230V~50Hz | | | | | | | | | | | | | |
| (2) 24V 2 way valve kit | | | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
| VCZD1 (1) | H,HP,HT | | | 500 | | | | | | | ,,,, | ,,,, | ,,,, |
| VCZD124 (2) | H,HP,HT | | | | | | | | | | | | |
| VCZD2 (1) | H,HP,HT | | | • | | • | • | • | | • | • | | |
| VCZD224 (2) | H,HP,HT | | | • | • | • | • | • | • | | • | | |
| VCZD3 (1) | H,HP,HT | | | | | | | | | | | • | • |
| VCZD324 (2) | H,HP,HT | | | | | | | | | | | • | • |
| (1) 230V~50Hz (2) 24V | | | | | | | | | | | | | |
| Combined Adjustment and | Balancing \ | /alve Kit | | | | | | | | | | | |
| Model | Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
| VJP060 (1) | H,HP,HT | • | • | • | • | | | | | | | | |
| VJP060M (2) | H,HP,HT | | • | | • | | | | | | | | |
| VJP090 (1) | H,HP,HT | | | | | • | • | | • | | | | |
| VJP090M (2) | H,HP,HT | | | | | | | | • | | | | |
| | | | | | | | | | | | | | |
| VJP150 (1) | H,HP,HT | | | | | | | | | | | | • |
| VJP150 (1) VJP150M (2) | H,HP,HT H,HP,HT | | | | | - | - | | | • | • | • | • |
| (1) 230V~50Hz | | | | | | · | - | | | | | | |
| VJP150M (2) | | | | | | · · | | | | | | | |
| VJP150M (2) (1) 230V~50Hz (2) 24V | | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | | | | |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit | Н,НР,НТ | 250 AMP20 | 300 AMP20 | 350 AMP20 | 400 AMP20 | | | | | • | • | ٠ | • |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP | Н,НР,НТ 200 | | | | | 450 | 500 | 550 | 700 | • | 750 | 900 | 950 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage | H,HP,HT 200 AMP20 | AMP20 | AMP20 | AMP20 | AMP20 | 450 AMP20 | 500 AMP20 | 550 AMP20 | 700 AMP20 | • | 750 AMP20 | 900 AMP20 | 950 AMP20 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model | H,HP,HT 200 AMP20 Ver | AMP20 200 | AMP20 250 | AMP20 300 | AMP20 350 | 450 AMP20 400 | 500 AMP20 450 | 550 AMP20 500 | 700 AMP20 | 700 | 750 AMP20 | 900 AMP20 | 950 AMP20 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage | H,HP,HT 200 AMP20 Ver HP | AMP20 200 | AMP20 250 | 300 • | 350 | 450 AMP20 400 | 500 AMP20 450 | 550 AMP20 500 | 700 AMP20 | • | 750 AMP20 | 900 AMP20 | 950 AMP20 |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) | H,HP,HT 200 AMP20 Ver HP | AMP20 200 | AMP20 250 | 300 • | 350 | 450 AMP20 400 | 500 AMP20 450 | 550 AMP20 500 | 700 AMP20 | 700 | 750 AMP20 | 900 AMP20 | 950 AMP20 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or | H,HP,HT 200 AMP20 Ver HP | AMP20 200 | AMP20 250 | 300 • | 350 | 450 AMP20 400 | 500 AMP20 450 | 550 AMP20 500 | 700 AMP20 | 700 | 750 AMP20 | 900 AMP20 | 950 AMP20 |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip | AMP20 Ver HP ne of these accessor | AMP20 200 ories is also insta | 250 • | AMP20 300 • MPZ valve VCZ1 | 350 • -2-3-4 X4L/R a | 450 AMP20 400 • | 500 AMP20 450 • | 550 AMP20 500 • | 700 AMP20 550 | 700 | 750 AMP20 750 | 900 AMP20 900 | 950 AMP20 |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP | 200 AMP20 Ver HP ne of these accessor | AMP20 200 ories is also insta | 250 • Illed: AMP - AM | 300 MPZ valve VCZ1 | 350 • -2-3-4 X4L/R 3 | 450 AMP20 400 • | 500 AMP20 450 • | 550 AMP20 500 • | 700 AMP20 550 | 700 | 750 AMP20 750 | 900 AMP20 900 | 950 AMP20 950 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. | Ver HP ne of these accessor BCZ4 (1) | 200 • ories is also insta 250 BCZ4 (1) | 250 • • • • • • • • • • • • • • • • • • • | 300 | 350 -2-3-4 X4L/R a 400 BCZ4 (1) | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 450 • Iensate collect 500 BCZ4(1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) | 700 AMP20 550 • | 700 | 750 AMP20 750 | 900 AMP20 900 • | 950 AMP20 950 • |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP | 200 AMP20 Ver HP ne of these accessor | AMP20 200 ories is also insta | 250 • Illed: AMP - AM | 300 MPZ valve VCZ1 | 350 • -2-3-4 X4L/R 3 | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 450 • | 550 AMP20 500 • ion trays. 550 BCZ4 (1) | 700 AMP20 550 | 700 · | 750 AMP20 750 | 900 AMP20 900 | 950 AMP20 950 • |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver | Ver HP ne of these accessor BCZ4 (1) | 200 • ories is also insta 250 BCZ4 (1) | 250 · · · · · · · · · · · · · · · · · · · | 300 | 350 | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) | 700 AMP20 550 • 700 BCZ4 (1) | 700 · | 750 AMP20 750 | 900 AMP20 900 • | 950 AMP20 950 • |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. | Ver HP ne of these accessor BCZ4 (1) 200 BC8 (1) | 200 • ories is also insta 250 BCZ4 (1) | 250 · · · · · · · · · · · · · · · · · · · | 300 | 350 | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) | 700 AMP20 550 • 700 BCZ4 (1) | 700 · | 750 AMP20 750 | 900 AMP20 900 • | 950 AMP20 950 • |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the | ### H.HP.HT 200 AMP20 Ver HP ne of these accessor 200 BCZ4 (1) 200 BC8 (1) | 200 • ories is also insta 250 BCZ4 (1) 250 BC8 (1) | 250 | 300 · · APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) | 350 -2-3-4 X4L/R; 400 BCZ4 (1) 400 BC8 (1) | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 • • • • • • • • • • • • • • • • • • • | 550 AMP20 500 • ion trays. 550 BCZ4 (1) 550 BC8 (1) | 700 AMP20 550 700 BC24 (1) | 700 · | 750 AMP20 750 750 BCZ4 (1) 750 BC8 (1) | 900 AMP20 900 • 900 BCZ4 (1) | 950 AMP20 950 |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. | Ver HP ne of these accessor BCZ4 (1) 200 BC8 (1) | 200 • ories is also insta 250 BCZ4 (1) | 250 · · · · · · · · · · · · · · · · · · · | 300 | 350 | 450 AMP20 400 • and all the cond 450 BCZ4 (1) | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) | 700 AMP20 550 • 700 BCZ4 (1) | 700 | 750 AMP20 750 | 900 AMP20 900 • | 950 AMP20 950 • |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver | 200 AMP20 Ver HP ne of these accessor 200 BCZ4 (1) 200 BC8 (1) e unit 200 PCZ200 | 200 • ories is also insta 250 BCZ4 (1) 250 BC8 (1) 250 PCZ200 | 250 | 300 · · APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) | 450 AMP20 400 • and all the cond 450 BCZ4 (1) 450 BC8 (1) | 500 AMP20 450 . lensate collect 500 BCZ4 (1) 500 BC8 (1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) 550 BC8 (1) | 700 AMP20 550 • 700 BCZ4 (1) 700 | 700 | 750 AMP20 750 750 BCZ4 (1) 750 BC8 (1) | 900 AMP20 900 • • 900 BCZ4 (1) | 950 AMP20 950 - 950 BCZ4(1) 950 BC9(1) |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT | 200 AMP20 Ver HP ne of these accessor 200 BCZ4 (1) 200 BC8 (1) e unit 200 PCZ200 | 200 • ories is also insta 250 BCZ4 (1) 250 BC8 (1) 250 PCZ200 | 250 | 300 · · APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) | 450 AMP20 400 • and all the cond 450 BCZ4 (1) 450 BC8 (1) | 500 AMP20 450 . lensate collect 500 BCZ4 (1) 500 BC8 (1) | 550 AMP20 500 • ion trays. 550 BCZ4 (1) 550 BC8 (1) | 700 AMP20 550 • 700 BCZ4 (1) 700 | 700 | 750 AMP20 750 750 BCZ4 (1) 750 BC8 (1) | 900 AMP20 900 • • 900 BCZ4 (1) | 950 AMP20 950 - 950 BCZ4(1) 950 BC9(1) |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for fla | ### H.HP.HT 200 AMP20 Ver HP ne of these accessor 200 BCZ4 (1) 200 BC8 (1) e unit 200 PCZ200 PCZ200 | 200 • ories is also insta 250 BCZ4 (1) 250 BC8 (1) 250 PCZ200 | 250 | 300 · · · APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) 350 PCZ300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 | 450 AMP20 400 and all the cond 450 BCZ4 (1) 450 BC8 (1) 450 PCZ500 | 500 AMP20 450 . lensate collect 500 BC74 (1) 500 BC8 (1) | 550 AMP20 500 · ion trays. 550 BC74 (1) 550 BC8 (1) | 700 AMP20 550 . 700 BCZ4 (1) 700 BC8 (1) 700 PCZ800 | 700 | 750 AMP20 750 | 900 AMP20 900 • 900 BCZ4 (1) 900 BC9 (1) | 950 AMP20 950 - 950 BCZ4 (1) 950 BC9 (1) |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for flo | Number N | 200 | 250 | 300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 | 450 AMP20 400 - and all the cond 450 BCZ4 (1) 450 BC8 (1) 450 PCZ500 | 500 AMP20 450 . lensate collect 500 BCZ4 (1) 500 PCZ500 | 550 AMP20 500 • ion trays. 550 BCZ4 (1) 550 BC8 (1) | 700 AMP20 550 - 700 BCZ4 (1) 700 BC8 (1) 700 PCZ800 | 700 | 750 AMP20 750 | 900 AMP20 900 . 900 BCZ4 (1) 900 BC9 (1) 900 PCZ1000 | 950 AMP20 950 - 950 BCZ4(1) 950 BC9(1) |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for flo | Number N | 200 | 250 | 300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 | 450 AMP20 400 - and all the cond 450 BCZ4 (1) 450 BC8 (1) 450 PCZ500 | 500 AMP20 450 . lensate collect 500 BCZ4 (1) 500 PCZ500 | 550 AMP20 500 • ion trays. 550 BCZ4 (1) 550 BC8 (1) | 700 AMP20 550 - 700 BCZ4 (1) 700 BC8 (1) 700 PCZ800 | 700 | 750 AMP20 750 | 900 AMP20 900 . 900 BCZ4 (1) 900 BC9 (1) 900 PCZ1000 | 950 AMP20 950 - 950 BCZ4(1) 950 BC9(1) |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for flo Ver H,HRHT Metal supports for GA grille | 200 AMP20 Ver HP ne of these accessor 200 BCZ4 (1) 200 BCS (1) e unit 200 PCZ200 PCZ200 GA200 | 200 | 250 | 300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 400 GA500 | 450 AMP20 400 • and all the cond 450 BCZ4 (1) 450 PCZ500 450 GA500 | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) 500 PCZ500 500 PCZ500 | 550 AMP20 500 - ion trays. 550 BCZ4 (1) 550 PCZ500 550 PCZ500 | 700 AMP20 550 - 700 BC24 (1) 700 PCZ800 700 GA800 | 700 | 750 AMP20 750 | 900 AMP20 900 C 900 BCZ4 (1) 900 PCZ1000 900 GA800 | 950 AMP20 950 - 950 BC74(1) 950 BC9(1) 950 PC71000 |
| VIP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for flor Ver H,HP,HT Metal supports for GA grille Ver H,HP,HT | H,HP,HT | 200 | 250 | 300 . APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) 350 PCZ300 ASSO GA300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 400 GA500 | 450 AMP20 400 - and all the cond 450 BC24 (1) 450 PC2500 450 GA500 | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) 500 PCZ500 500 GA500 | 550 AMP20 500 - ion trays. 550 BCZ4 (1) 550 PCZ500 6A500 | 700 AMP20 550 700 BC24 (1) 700 PC2800 700 GA800 | 700 | 750 AMP20 750 | 900 AMP20 900 900 BCZ4 (1) 900 BC9 (1) 900 PC71000 900 GA800 | 950 AMP20 950 - 950 BC74(1) 950 BC9(1) 950 PC71000 950 GA800 |
| VJP150M (2) (1) 230V~50Hz (2) 24V Wall mounting kit Ver H,HP Condensate drainage Model DSC4 (1) (1) DSC4 cannot be mounted if even just or Condensate drip Ver HP (1) For vertical installation. Ver HP (1) For horizontal installation. Panel closing the rear of the Ver H,HT Grille also applicable for flo Ver H,HPHT Metal supports for GA grille Ver | H,HP,HT | 200 | 250 | 300 . APZ valve VCZ1 350 BCZ4 (1) 350 BC8 (1) 350 PCZ300 ASSO GA300 | 350 -2-3-4 X4L/R: 400 BCZ4 (1) 400 BC8 (1) 400 PCZ500 400 GA500 | 450 AMP20 400 - and all the cond 450 BC24 (1) 450 PC2500 450 GA500 | 500 AMP20 450 • Iensate collect 500 BCZ4 (1) 500 PCZ500 500 GA500 | 550 AMP20 500 - ion trays. 550 BCZ4 (1) 550 PCZ500 6A500 | 700 AMP20 550 700 BC24 (1) 700 PC2800 700 GA800 | 700 | 750 AMP20 750 | 900 AMP20 900 900 BCZ4 (1) 900 BC9 (1) 900 PC71000 900 GA800 | 950 AMP20 950 - 950 BC74(1) 950 BC9(1) 950 PC71000 950 GA800 |

| Ver | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
|----------------------------------|------------|------|------|------|------|------|------|------|------|------|------|-----|
| H,HT | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPCZ | SPC |
| | | | | | | | | | | | | |
| air of stylish structural | teet | | | | | | | | | | | |
| iir of stylish structural Ver | <u>200</u> | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |

PERFORMANCE SPECIFICATIONS

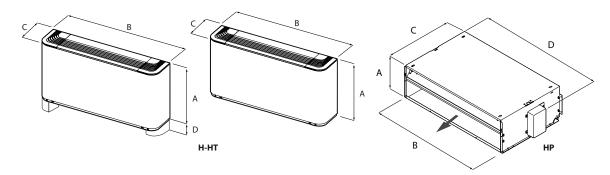
| 2- | pi | p | е |
|----|----|---|---|

| 1 | | | F | CZ12001 | Н | F | CZ1250 | Н | - | CZI300H | ł | | FCZI350I | H | F | CZI400I | 1 | I | CZ1450 | Н | F | CZ1500 | Н |
|--|--|---|---|---|---|---|---|---|---|--|---------|---|---|---|---|--|---|--|---|--|--|---|--|
| Marting papers Mart | | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Marke flow are specially Marke flow are spec | | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Mine from the system side | Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | |
| Present deport presented 9.5 1.0 | Heating capacity | kW | 2,02 | 2,95 | 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 | 5,50 | 3,77 | 4,92 | 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 | 5,27 | 7,31 | 8,50 |
| Marting performance NT / 40 ** | Water flow rate system side | l/h | 177 | 258 | 324 | 193 | 278 | 355 | 304 | 391 | 482 | 330 | 431 | 539 | 379 | 503 | 627 | 400 | 551 | 685 | 462 | 641 | 745 |
| Mathem found repeated by Mathem found repeat | Pressure drop system side | kPa | 6 | 12 | 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 | 20 | 9 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 |
| Mine Plane designes also Image 19 | Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | |
| Presented player parties of the property of th | Heating capacity | kW | 1,00 | 1,46 | 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 | 2,73 | 1,87 | 2,44 | 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 | 2,62 | 3,63 | 4,22 |
| Conting separation Conting | Water flow rate system side | l/h | 174 | 254 | 319 | 190 | 274 | 350 | 299 | 385 | 475 | 325 | 425 | 531 | 373 | 495 | 617 | 394 | 543 | 675 | 455 | 631 | 734 |
| Semile conting percent Wind Age 18 18 18 18 18 18 18 1 | . , | kPa | 6 | 12 | 18 | 8 | 15 | 22 | 8 | 12 | 18 | 8 | 14 | 20 | 10 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 |
| Seable conjugaçacity W | Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | |
| Mate flow price since 1/1 1/2 | Cooling capacity | | 0,89 | 1,28 | 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | 2,17 | 2,65 | 1,89 | 2,46 | 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 | 2,68 | 3,69 | 4,25 |
| Present depropriemente File File File Present depropriemente File | Sensible cooling capacity | | 0,71 | 1,05 | | 0,79 | 1,20 | | 1,26 | 1,65 | 2,04 | 1,33 | 1,76 | | 1,59 | 2,14 | - | _ | | 2,90 | 1,94 | 2,73 | 3,18 |
| Part | Water flow rate system side | l/h | 153 | 221 | 275 | 182 | 267 | 334 | 288 | 374 | 456 | 350 | 460 | 560 | 379 | 503 | 619 | 414 | 552 | 694 | 460 | 634 | 731 |
| Tam motion Tam | Pressure drop system side | kPa | 7 | 13 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 | 18 | 25 | 10 | 17 | 24 | 9 | 15 | 22 | 13 | 23 | 29 |
| Mumber Min. | Fan | | | | | | | | | | | | | | | | | | | | | | |
| Minther Nin | Туре | type | | | | | | | | | | (| Centrifug | al | | | | | | | | | |
| Productive control Product | Fan motor | type | | | | | | | | | | | | | | | | | | | | | |
| Imput power W S 8 14 S 8 14 S 8 14 S 7 13 S 3 S 10 18 S 7 18 3 S S 3 S 5 5 7 18 3 S S 5 5 5 5 5 5 5 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Ord O | Air flow rate | | | | | | | | _ | | | | | | | | | | | | | | |
| Page Type | Input power | | | | | _ | | | _ | | | _ | | | _ | | | - | | | | | |
| The main column The main c | | % | 44 | 68 | 90 | 44 | 68 | 90 | 52 | 70 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 49 | 68 | 90 | 50 | 74 | 90 |
| Main coll O | Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | |
| Part | Туре | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level GB(A) 35,0 46,0 51,0 35,0 46,0 51,0 35,0 46,0 51,0 37,0 40,0 51,0 37,0 40,0 51,0 37,0 40,0 51,0 40,0 51,0 40,0 51,0 40,0 51,0 40,0 51,0 40,0 51,0 40,0 | Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Sound pressure | Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | Sound power level | dB(A) | 35,0 | 46,0 | 51,0 | _ | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 37,0 | 44,0 | 51,0 | 42,0 | | 56,0 |
| Province supply Province P | | dB(A) | 27,0 | 38,0 | 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 |
| FC21550H | Power supply | | | | | | | | | | | | | | | | | | | | | | |
| The string capacity | Power supply | | | | | | | | | | | 2 | 30V~50l | Hz | | | | | | | | | |
| L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H L M H H L M H H Reating capacity NW 5,82 8,34 9,75 6,50 8,10 10,00 7,19 9,15 11,50 10,77 13,35 15,14 11,20 14,42 17,10 | | | | | | | | | | | | | | | | | | | | | | | |
| Heating performance 70 °C / 60 °C (1) | | | | FCZI | 1550H | | | FC | Z1700H | | | | FCZI750I | H | | | FCZI900 | DH | | | FCZ19 | 50H | |
| Heating capacity Name S,82 8,34 9,75 6,50 8,10 10,00 7,19 9,15 11,50 10,77 13,35 15,14 11,20 14,42 17,10 Water flow rate system side Name | | | 1 | | | 3 | 1 | | | 3 | + | | | | | 1 | | OH | 3 | 1 | | | 3 |
| Water flow rate system side V/h S10 731 855 S70 710 877 631 802 1008 945 1171 1328 982 1264 1500 Pressure drop system side V/h Rate flow rate system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 699 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 561 899 863 621 790 993 990 1152 1307 967 71245 1476 Pressure drop system side V/h S02 720 842 546 714 800 595 825 975 738 860 189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side V/h S01 771 824 554 671 800 595 825 975 738 860 1189 992 1152 1307 Pressure drop system side V/h S01 771 824 524 | | | | | 2 | | | | 2 | | _ | 1 | 2 | 3 | _ | | 2 | DH | | | 2 | | |
| Pressure drop system side RPa 10 20 26 12 18 26 14 21 31 12 17 22 16 25 33 Heating performance 45 °C / 40 °C (2) Heating capacity RW 2,89 4,14 4,85 3,32 4,03 4,97 3,57 4,55 5,72 5,35 6,64 7,53 5,57 7,17 8,50 Mater flow rate system side I/h 502 720 842 561 699 863 621 790 993 930 1152 1307 967 1245 1476 Pressure drop system side RPa 10 20 26 12 18 26 14 20 31 12 17 22 15 24 33 Cooling performance 7 °C / 12 °C (3) Cooling capacity RW 2,91 4,13 4,79 3,22 3,90 4,65 3,95 4,80 5,67 4,29 5,00 6,91 5,77 7,32 8,60 Emsible cooling capacity RW 2,07 2,98 3,49 2,56 3,17 3,02 2,78 3,48 4,12 2,97 3,78 5,68 3,80 4,87 5,78 Pressure drop system side I/h 501 711 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side RPa 12 22 28 14 19 26 15 21 28 10 13 22 15 23 30 Fan motor type | Heating performance 70 °C / 60 °C (1) | | | | 2 | | | | 2 | | _ | 1 | 2 | 3 | _ | | 2 | OH | | | 2 | | |
| Heating performance 45°C/40°C(2) | | kW | L | | 2 M | Н | L | | 2 M | Н | | 1 L | 2 M | 3 H | | Ĺ | 2 M | | Н | L | 2 N | l | Н |
| Heating capacity No | Heating capacity | | 5,82 | 8 | 2 M | H 9,75 | 6,5 | 0 | 2 M 8,10 | H 10,00 | 7 | 1 L | 2 M | 3 H | 50 | L 10,77 | 2 M | ; 1: | H 5,14 | L 11,20 | 2 N 14, | 42 | H 17,10 |
| Water flow rate system side | Heating capacity Water flow rate system side | l/h | 5,82 510 | 8 7 | 2 M 5,34 731 | 9,75 855 | 6,5 57 | 0 | 2 M 8,10 710 | H 10,00 877 | 7 | 1 L ,19 | 2 M 9,15 802 | 3 H 11,: | 50 08 | L 10,77 945 | 2 M 13,35 1171 | 1: | 5,14 328 | 11,20 982 | 2 N 14, | 42 54 | H 17,10 1500 |
| Pressure drop system side RPa 10 20 26 12 18 26 14 20 31 12 17 22 15 24 33 | Heating capacity Water flow rate system side Pressure drop system side | l/h | 5,82 510 | 8 7 | 2 M 5,34 731 | 9,75 855 | 6,5 57 | 0 | 2 M 8,10 710 | H 10,00 877 | 7 | 1 L ,19 | 2 M 9,15 802 | 3 H 11,: | 50 08 | L 10,77 945 | 2 M 13,35 1171 | 1: | 5,14 328 | 11,20 982 | 2 N 14, | 42 54 | H 17,10 1500 |
| Cooling performance 7°C/12°C(3) Cooling capacity kW 2,91 4,13 4,79 3,22 3,90 4,65 3,95 4,80 5,67 4,29 5,00 6,91 5,77 7,32 8,60 Sensible cooling capacity kW 2,07 2,98 3,49 2,56 3,17 3,92 2,78 3,43 4,12 2,97 3,78 5,68 3,80 4,87 5,78 Water flow rate system side l/h 501 711 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side kPa 12 22 28 14 19 26 15 21 28 10 13 22 15 23 30 Fan type Centrifugal Fan motor type Centrifugal Fan motor mo. 2 3 3 3 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) | l/h kPa | 5,82 510 10 | 8 7 7 | 2 M 3,34 731 20 | 9,75 855 26 | 6,5 57 | 0 0 | 2 M 8,10 710 18 | H 10,00 877 26 | 7 | 1 L ,19 531 | 2 M 9,15 802 21 | 3 H 11,, 100 | 50 08 1 | 10,77 945 12 | 2 M 13,35 1171 17 | 1. | H 5,14 328 22 | 11,20 982 16 | 2 N 14,120 2 ! | 42 64 5 | H 17,10 1500 33 |
| Cooling capacity kW 2,91 4,13 4,79 3,22 3,90 4,65 3,95 4,80 5,67 4,29 5,00 6,91 5,77 7,32 8,60 Sensible cooling capacity kW 2,07 2,98 3,49 2,56 3,17 3,92 2,78 3,43 4,12 2,97 3,78 5,68 3,80 4,87 5,78 Water flow rate system side l/h 501 711 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side kPa 12 22 28 14 19 26 15 21 28 10 13 22 15 23 30 Ear Type Centrifugal Inverter Number no. 2 3 3 3 3 3 3 3 <t< td=""><td>Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity</td><td>I/h kPa kW</td><td>5,82 510 10</td><td>88 77 2</td><td>2 M 731 20</td><td>9,75 855 26</td><td>6,5 57 12</td><td>0 0 0 2</td><td>2 M 8,10 710 18</td><td>H 10,000 877 26 4,97</td><td>3</td><td>1 L ,,19 531 14</td><td>2 M 9,15 802 21</td><td>3 H 11,, 100 31</td><td>50 08 1 1 72 </td><td>10,77 945 12 5,35</td><td>2 M 13,35 1171 17</td><td>i 1: 1</td><td>5,14 328 22 7,53</td><td>11,20 982 16</td><td>2 N 14,120 25</td><td>42 64 5</td><td>H 17,10 1500 33 8,50</td></t<> | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 5,82 510 10 | 88 77 2 | 2 M 731 20 | 9,75 855 26 | 6,5 57 12 | 0 0 0 2 | 2 M 8,10 710 18 | H 10,000 877 26 4,97 | 3 | 1 L ,,19 531 14 | 2 M 9,15 802 21 | 3 H 11,, 100 31 | 50 08 1 1 72 | 10,77 945 12 5,35 | 2 M 13,35 1171 17 | i 1: 1 | 5,14 328 22 7,53 | 11,20 982 16 | 2 N 14,120 25 | 42 64 5 | H 17,10 1500 33 8,50 |
| Sensible cooling capacity kW 2,07 2,98 3,49 2,56 3,17 3,92 2,78 3,43 4,12 2,97 3,78 5,68 3,80 4,87 5,78 Water flow rate system side I/h 501 711 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side kPa 12 22 28 14 19 26 15 21 28 10 13 22 15 23 30 Fam motor Type type System side type Solution of S | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa kW I/h | 5,82 510 10 2,89 502 | 8 7 2 4 7 | 2 M 3,34 731 220 | 9,75 855 26 4,85 842 | 6,5 57 12 3,3 56 | 0 0 2 2 1 | 2 M 8,10 710 18 4,03 699 | H 10,00 877 26 4,97 863 | 3 | 1 L ,19 531 14 ,57 | 2 M 9,15 802 21 4,55 790 | 3 H 11,, 100 31 5,7 | 50 08 1 72 33 | 10,77 945 12 5,35 930 | 2 M 13,35 1171 17 6,64 1152 | 1: 1 7 | H 5,14 328 22 7,53 307 | 11,20 982 16 5,57 967 | 2 N 14,120 25 7,11 | 42 64 5 | H 17,10 1500 33 8,50 1476 |
| Water flow rate system side I/h 501 711 824 554 671 800 595 825 975 738 860 1189 992 1259 1479 Pressure drop system side kPa 12 22 28 14 19 26 15 21 28 10 13 22 15 23 30 Fan Type Centrifugal Fan motor type Centrifugal Number no. 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1140 700 930 1140 700 930 1140 700 930 1140 700 930 1140 700 930 1140 700 930 1140 700 930 1140 700 90 56 72 90 56 72 90< | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW I/h | 5,82 510 10 2,89 502 | 8 7 2 4 7 | 2 M 3,34 731 220 | 9,75 855 26 4,85 842 | 6,5 57 12 3,3 56 | 0 0 2 2 1 | 2 M 8,10 710 18 4,03 699 | H 10,00 877 26 4,97 863 | 3 | 1 L ,19 531 14 ,57 | 2 M 9,15 802 21 4,55 790 | 3 H 11,, 100 31 5,7 | 50 08 1 72 33 | 10,77 945 12 5,35 930 | 2 M 13,35 1171 17 6,64 1152 | 1: 1 7 | H 5,14 328 22 7,53 307 | 11,20 982 16 5,57 967 | 2 N 14,120 25 7,11 | 42 64 5 | H 17,10 1500 33 8,50 1476 |
| Pressure drop system side | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | I/h kPa kW I/h kPa | 5,82 510 10 2,89 502 10 | 88 77 24 47 77 | 2 M 3,34 731 220 4,14 720 220 | 9,75 855 26 4,85 842 26 | 6,5 57 12 3,3 56 12 | 0 0 2 2 1 1 | 2 M 8,10 710 18 4,03 699 18 | H 10,000 877 26 4,97 863 26 | 3 6 | 1 L ,19 ,531 14,57,521 14,595 | 2 M 9,15 802 21 4,55 790 20 | 33 H 11,1 100 31 5,7 99 3 | 550 508 11 12 13 11 15 15 15 15 15 15 | 10,77 945 12 5,35 930 12 | 2 M 13,35 1171 17 6,64 1152 17 | 7 7 | H 55,14 328 222 7,53 307 22 5,91 | 11,20 982 16 5,57 967 15 | 22 N 14,120 2! 7,1120 20 7,7,2 | 42 64 5 17 45 4 | H 17,10 1500 33 8,50 1476 33 |
| Type type | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa kWa | 5,82 510 10 2,89 502 10 2,91 2,07 | 8 7 2 4 7 2 | 2 M 7,34 731 220 4,14 720 220 | H 9,75 855 26 4,85 842 26 4,79 3,49 | 3,3 3,3 566 12 3,2 2,5 | 0 0 0 2 2 1 1 2 2 2 2 6 6 | 2 M 8,10 710 18 4,03 699 18 | H 10,000 877 26 4,97 863 26 4,65 3,92 | 3 6 | 1 L 3,19 531 14 5,57 521 14 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 | 33 H 11,1 1000 33 5,7 999 37 | 50 50 50 50 50 50 50 50 | 10,77 945 12 5,35 930 12 4,29 2,97 | 2 M 13,35 1171 17 6,64 1152 17 | 7 1: 7 1 | H 328 22 7,53 307 22 5,91 6,68 | 11,20 982 16 5,57 967 15 5,77 3,80 | 22 N 14, 120 2! 7,1 124 24 | 42 55 17 45 4 32 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 |
| Type | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kWa | 5,82 510 10 2,89 502 10 2,91 2,07 | 88 77 34 47 77 34 42 27 | 2 M M 7,34 7,31 20 1,14 7,720 20 1,13 1,98 7,71 | H 9,75 855 26 4,85 842 26 4,79 3,49 | 3,3 3,3 566 12 3,2 2,5 | 0 0 0 2 2 1 1 2 2 2 2 6 6 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 | H 10,000 877 26 4,97 863 26 4,65 3,92 | 3 6 | 1 L 3,19 531 14 5,57 521 14 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 | 33 H 11,1 1000 33 5,7 999 3 5,6 4,1 | 50 | 10,77 945 12 5,35 930 12 4,29 2,97 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 | 7 1: 7 1 | H 328 22 7,53 307 22 5,91 6,68 | 11,20 982 16 5,57 967 15 5,77 3,80 | 22 N 14, 120 2! 7,1 124 24 | 42 55 17 45 4 32 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Number N | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW kW I/h | 5,82 510 10 2,89 502 10 2,91 2,07 501 | 88 77 34 47 77 34 42 27 | 2 M M 7,34 7,31 20 1,14 7,720 20 1,13 1,98 7,71 | H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 55 57 12 3,3 56 12 3,2 2,5 | 0 0 2 2 1 1 2 2 2 6 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 | 33 6 | 1 L ,19 .331 14 .,57 .521 14 .,78 .,78 .595 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 | 33 H 11,1 1000 33 5,7 999 3 5,6 4,1 | 50 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 7 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H 328 22 7,53 307 22 6,91 6,68 189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 22 N 14,4 120 2! 7,1 124 2. 7,3 4,8 | 42 54 55 17 45 4 4 32 87 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Number no. 2 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW kW I/h | 5,82 510 10 2,89 502 10 2,91 2,07 501 | 88 77 34 47 77 34 42 27 | 2 M M 7,34 7,31 20 1,14 7,720 20 1,13 1,98 7,71 | H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 55 57 12 3,3 56 12 3,2 2,5 | 0 0 2 2 1 1 2 2 2 6 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 | 33 6 | 1 L L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 3 H 11,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 50 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 7 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H 328 22 7,53 307 22 6,91 6,68 189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 22 N 14,4 120 2! 7,1 124 2. 7,3 4,8 | 42 54 55 17 45 4 4 32 87 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Air flow rate m³/h 400 600 720 520 720 900 520 720 900 700 930 1140 700 930 1140 [Input power W 7 18 34 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 80 30 40 80 80 80 80 80 80 80 80 80 80 80 80 80 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | kW I/h kPa kW kW I/h kPa | 5,82 510 10 2,89 502 10 2,91 2,07 501 | 88 77 34 47 77 34 42 27 | 2 M M 7,34 7,31 20 1,14 7,720 20 1,13 1,98 7,71 | H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 55 57 12 3,3 56 12 3,2 2,5 | 0 0 2 2 1 1 2 2 2 6 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 | 33 6 | 1 L L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 3 H 11,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 50 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 7 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H 328 22 7,53 307 22 6,91 6,68 189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 22 N 14,4 120 2! 7,1 124 2. 7,3 4,8 | 42 54 55 17 45 4 4 32 87 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Input power W 7 18 34 30 40 80 30 40 80 30 40 80 30 40 80 30 40 80 80 30 40 80 80 80 80 80 80 8 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | l/h kPa kW l/h kPa kW kW l/h kPa | 5,82 510 10 2,89 502 10 2,91 2,07 501 | 8 8 8 7 7 7 2 4 4 4 2 2 2 7 7 7 2 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 | 2 MM 3,34 M 31 M 31 M 32 M 31 M 32 M 31 M 32 M 32 | H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 55 57 12 3,3 56 12 3,2 2,5 | 0 0 2 2 1 1 2 2 2 6 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 | 33 6 | 1 L L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 | 3 3 H 11,1,1000 3 3 5,7,7 999 3 3 5,6,6,7 4,1,1 | 50 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 13 | 7 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H 328 22 7,53 307 22 6,91 6,68 189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 2 N N 14, 12(1 12) 14, 12(1 12) 14, 12(1 12) 15, 12(1 12) 16, 12(1 12) 17, 12(1 12) 17, 12(1 12) 18, 12(1 12) | 142 644 55 17 17 45 4 4 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Signal 0-10V 96 50 74 90 56 72 90 56 72 90 56 72 90 56 72 90 56 72 90 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | l/h kPa kW l/h kPa kW l/h kPa type type no. | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 44 44 44 22 77 | 2 MM M M M M M M M M M M M M M M M M M M | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 1. L L | 0 0 0 2 2 1 1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 | 3 3 H H 11,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 550 1 1 1 1 1 1 1 1 1 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 13 | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H | 11,20 982 16 5,57 15 5,77 3,80 992 15 | 2 N N 14,4 12(1 12) 14,4 12(1 12) 12,1 12,1 12,1 12,1 12,1 12,1 12,1 | 1 42 5 7 7 7 45 4 4 4 32 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Type type | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | l/h kPa kW l/h kPa kW l/h kPa type type no. m³/h | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 44 44 44 44 44 44 44 44 44 44 44 44 44 | 2 MM M M M M M M M M M M M M M M M M M M | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,57 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 0 0 2 2 2 1 1 1 2 2 2 2 2 2 4 4 4 4 4 4 4 4 | 2 M 8,10 7710 18 4,03 699 18 3,90 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 | 3 3 H H 11,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 772 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 13 | 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H | 11,20 982 16 5,57 15 5,77 3,80 992 15 | 2 N N 14,4 12 12 12 12 12 12 12 12 12 12 12 12 12 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Type type Gas - F Main coil Ø 3/4" Fan coil sound data (4) Sound power level dB(A) 42,0 51,0 56,0 42,0 51,0 57,0 57,0 57,0 57,0 57,0 62,0 51,0 57,0 61,0 Sound pressure dB(A) 34,0 48,0 34,0 49,0 34,0 49,0 49,0 49,0 49,0 54,0 49,0 53,0 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power | kW I/h kPa kW kW I/h kPa type type no. m³/h W | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 4444 | 2 MM / 3,34 / 31 / 31 / 320 / | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,77 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 720 40 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 1 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 17 6,64 1152 17 5,000 3,78 860 13 | 77 11 66 55 11 | H H 55,14 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12(1) 1 | 1 442 54 55 5 7 7 7 7 82 82 83 83 83 83 84 86 86 86 86 86 86 86 86 86 86 86 86 86 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Main coil Ø 3/4" Fan coil sound data (4) Sound power level dB(A) 42,0 51,0 56,0 42,0 51,0 57,0 42,0 51,0 57,0 51,0 57,0 51,0 57,0 51,0 57,0 62,0 51,0 57,0 61,0 Sound pressure dB(A) 34,0 48,0 34,0 49,0 34,0 49,0 43,0 49,0 54,0 49,0 53,0 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V | kW I/h kPa kW kW I/h kPa type type no. m³/h W | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 4444 | 2 MM / 3,34 / 31 / 31 / 320 / | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,77 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 720 40 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 1 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 17 6,64 1152 17 5,000 3,78 860 13 | 77 11 66 55 11 | H H 55,14 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12(1) 1 | 1 442 54 55 5 7 7 7 7 82 82 83 83 83 83 83 84 86 86 86 86 86 86 86 86 86 86 86 86 86 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Fan coil sound data (4) Sound power level dB(A) 42,0 51,0 56,0 42,0 51,0 57,0 42,0 51,0 57,0 62,0 51,0 57,0 61,0 Sound pressure dB(A) 34,0 48,0 34,0 49,0 34,0 49,0 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings | kW I/h kPa kW kW I/h kPa type type no. m³/h W % | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 4444 | 2 MM / 3,34 / 31 / 31 / 320 / | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,77 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 720 40 72 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 1 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 17 6,64 1152 17 5,000 3,78 860 13 | 77 11 66 55 11 | H H 55,14 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12(1) 1 | 1 442 54 55 5 7 7 7 7 82 82 83 83 83 83 83 84 86 86 86 86 86 86 86 86 86 86 86 86 86 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Sound power level dB(A) 42,0 51,0 56,0 42,0 51,0 57,0 42,0 51,0 57,0 62,0 51,0 57,0 61,0 Sound pressure dB(A) 34,0 48,0 34,0 43,0 49,0 34,0 49,0 43,0 49,0 54,0 43,0 49,0 53,0 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings Type | kW I/h kPa kW I/h kPa type no. m³/h W % | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 4444 | 2 MM / 3,34 / 31 / 31 / 320 / | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,77 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Sentrifug Inverter 3 720 40 72 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 1 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 17 6,64 1152 17 5,000 3,78 860 13 | 77 11 66 55 11 | H H 55,14 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12(1) 1 | 1 442 54 55 5 7 7 7 7 82 82 83 83 83 83 83 84 86 86 86 86 86 86 86 86 86 86 86 86 86 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Sound pressure dB(A) 34,0 43,0 48,0 34,0 43,0 49,0 34,0 43,0 49,0 43,0 49,0 54,0 49,0 53,0 | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings Type Main coil | kW I/h kPa kW I/h kPa type no. m³/h W % | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 4444 | 2 MM / 3,34 / 31 / 31 / 320 / | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 57,77 1: 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3, | 0 0 0 0 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Sentrifug Inverter 3 720 40 72 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 1 | 10,77 945 12 12 5,35 930 12 4,29 7,738 10 | 2 M 13,355 1171 17 17 6,64 1152 17 5,000 3,78 860 13 | 77 11 66 55 11 | H H 55,14 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12(1) 1 | 1 442 54 55 5 7 7 7 7 82 82 83 83 83 83 83 84 86 86 86 86 86 86 86 86 86 86 86 86 86 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings Type Main coil Fan coil sound data (4) | kW I/h kPa kW I/h kPa kW kW I/h kPa type no. m³/h W % | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 7 50 | 44422277 | 2 MM 7,34 731 720 720 720 731 720 731 732 731 731 732 731 731 731 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,57 577 11: 3,3,3 3,6 56 56 11: 12: 13: 14: 14: 15: 16: 16: 16: 16: 16: 16: 16: 16: 16: 16 | 0 0 0 0 1 2 2 1 1 2 2 2 6 6 4 4 4 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 2 5 | 1 L L ,19 ,531 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifug Inverter 3 720 40 72 | 3 3 H H 11,11 110 110 110 110 110 110 110 110 1 | 50 1 1 1 1 1 1 1 1 1 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,355 1171 17 6,64 1152 17 5,000 3,78 860 13 3 930 40 | 77 1 1 6 6 5 5 5 1 1 1 | H H S, 14 S S S S S S S S S S S S S S S S S S | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14, 12(1 12) 14, 12(1 12) 12(1 12 | 1 42 54 55 4 4 4 4 82 82 83 83 83 83 83 83 83 83 83 83 83 83 83 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Power supply | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings Type Main coil Fan coil sound data (4) Sound power level | kW I/h kPa kW kW I/h kPa type no. m³/h W % dB(A) | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 8 8 8 7 7 7 4 4 4 2 2 2 7 7 6 6 | 2 MM ,334 ,334 ,731 ,731 ,732 ,732 ,731 ,732 ,733 ,733 ,734 ,733 ,738 ,738 ,738 ,738 ,738 ,738 ,738 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,5 57 11: 3,3,3 566 11: 33,2,3,5 56 11: 552 33: 551 51 | 0 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 40 72 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L 19 19 19 19 19 19 19 19 19 19 19 19 19 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuge 172 40 72 Gas-F 3/4" | 3 3 H H 11, 11, 12, 1 | 550 108 11 11 12 12 13 14 15 15 15 16 16 16 16 16 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 13 3 930 40 72 | 77 11 11 11 11 11 11 11 11 11 11 11 11 1 | H | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12 12 12 12 12 12 12 12 12 12 12 12 12 | 1 42 42 45 4 4 4 4 4 4 82 82 83 87 80 90 90 90 90 90 90 90 90 90 90 90 90 90 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| | Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Signal 0-10V Diametre hydraulic fittings Type Main coil Fan coil sound data (4) Sound power level Sound pressure | kW I/h kPa kW kW I/h kPa type no. m³/h W % dB(A) | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | 8 8 8 7 7 7 4 4 4 2 2 2 7 7 6 6 | 2 MM ,334 ,334 ,731 ,731 ,732 ,732 ,731 ,732 ,733 ,733 ,734 ,733 ,738 ,738 ,738 ,738 ,738 ,738 ,738 | 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 6,5,5 57 11: 3,3,3 566 11: 33,2,3,5 56 11: 552 33: 551 51 | 0 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 40 72 | H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 3 3 6 | 1 L L 19 19 19 19 19 19 19 19 19 19 19 19 19 | 2 M 9,15 802 21 4,55 790 20 4,80 3,43 825 21 Centrifuge 172 40 72 Gas-F 3/4" | 3 3 H H 11, 11, 12, 1 | 550 108 11 11 12 12 13 14 15 15 15 16 16 16 16 16 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 13 3 930 40 72 | 77 11 11 11 11 11 11 11 11 11 11 11 11 1 | H | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | 2 N N 14,4 12 12 12 12 12 12 12 12 12 12 12 12 12 | 1 42 42 45 4 4 4 4 4 4 82 82 83 87 80 90 90 90 90 90 90 90 90 90 90 90 90 90 | H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |

| | FCZI550H | FCZ1700H | FCZ1750H | FCZI900H | FCZ1950H |
|--------------|----------|----------|-----------|----------|----------|
| Power supply | | | 230V~50Hz | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| Size | | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 750 | 900 | 950 |
|------------------------|------|----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | |
| Λ. | H,HT | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 591 | 591 |
| Α | HP | mm | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| D | H,HT | mm | 750 | 750 | 980 | 980 | 1200 | 1200 | 1200 | 1200 | 1320 | 1320 | 1320 | 1320 |
| D | HP | mm | 522 | 522 | 753 | 753 | 973 | 973 | 973 | 973 | 1122 | 1122 | 1122 | 1122 |
| (| H,HT | mm | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| | HP | mm | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 558 | 558 |
| n | H,HT | mm | 90 | - | 90 | - | 90 | - | 90 | - | 90 | - | 90 | 90 |
| V | HP | mm | 562 | - | 793 | - | 1013 | - | 1013 | - | 1147 | - | 1147 | 1147 |
| Formeronsiale | H,HT | kg | 15 | 16 | 17 | 18 | 22 | 24 | 22 | 24 | 29 | 31 | 34 | 34 |
| Empty weight | HP | kg | 12 | 14 | 14 | 16 | 20 | 22 | 23 | 24 | 26 | 31 | 32 | 32 |





















Omnia HL

Fan coil for universal and floor installation



- Very quiet
- Ideal for residential or office solutions
- · Version with Coldplasma Air purifier





DESCRIPTION

Fan coils for heating, cooling, and dehumidification.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

HL Metallic white cabinet with switch

L White cabinet with self-closing louver and electronic thermostat

N White cabinet with electronic thermostat VMF

PC White cabinet with electronic thermostat and Cold Plasma purifier

S Metallic withe cabinet without control board

FEATURES

Case

Top design metal protection cabinet with rounded design and painted with anti-corrosion polyester powders:

- Cover RAL 9002
- Top and supports RAL 7044.

The air distribution grid is adjustable. The fan coil switches off automatically when the grid is closed.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air yents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

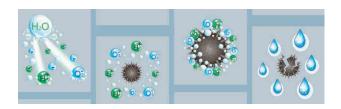
Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

APC versions equipped with Coldplasma Air purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.



ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant

floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PX2: Commutator switch.

PX2C6: Commutator switch. Kit to 6 pz.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWA: External probe accessory SWA (length L = 6m). It detects the temperature of the room air if connected to the connector (A) of the FMT21 panel. The room air temperature probe, incorporated in the panel, is automatically disabled. It detects the temperature of the water in the system for ventilation consent if connected to the connector (W) of the FMT21 panel. Two SWA probes can be connected simultaneously to the FMT21 panel.

TPF: Electronic thermostat, black, with thermostated or continuous ventilation.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF system

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2H: User interface on the machine, to be combined with the VMF-E19 accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/ E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Compatibility with VMF system: for more information about the system, refer to the dedicated documentation.

Valves for main coil

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

Installation accessories

BC10: Condensate drip.

DSC5: Condensate drainage device.

PCH: Panel closing the rear of the unit white

ZH1: White skirting for floor mounting.

ZH1B: White feet for floor mounting with skirting board.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 16 | 26 | 36 |
|--------------|-----|----|----|----|
| AER503IR (1) | S | | | • |
| FMT10 | S | • | • | • |
| PR0503 | S | • | • | • |
| PX2 | S | • | • | • |
| PX2C6 (2) | S | • | • | • |
| SA5 (3) | S | • | • | • |
| SIT3 (4) | S | • | • | • |
| SIT5 (5) | S | • | • | • |
| SW3 (3) | S | • | • | • |
| SW5 (3) | S | • | • | • |
| SWA | S | • | • | • |
| TPF | S | • | • | • |
| TX (1) | S | • | • | • |
| WMT05 (1) | S | • | • | • |
| WMT10 (1) | S | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

⁽²⁾ Only wall-mount installation
(3) Probe for AER503IR-TX thermostats, if fitted.

⁽⁴⁾ Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere. (5) Probe for AERSO3IR-TX thermostats, if fitted.

| Model | Ver | 16 | 26 | | 36 |
|------------------------------------|---|------|----------|----------|----------|
| /MF-E19 (1) | S | • | | | • |
| VMF-E2H | S | • | | | |
| /MF-E3 | S | • | | | |
| /MF-E4DX | ς | • | | | |
| VMF-E4X | S | • | • | | • |
| VMF-IO | S | • | • | | • |
| VMF-IR | S | • | • | | • |
| VMF-LON | ς | • | • | | • |
| VMHI | ς | • | • | | • |
| 1) Also the accessory VMF-SIT3\ | is mandatory if the unit exceeds 0.7 Ampe | res. | | | |
| 3 way valve kit | | | | | |
| Accessory | | | HL16 | HL26 | HL36 |
| VCH | | | • | • | |
| | | | | | |
| 2 way valve kit | | | | | |
| Accessory | | | HL16 | HL26 | HL36 |
| /CHD | | | • | • | • |
| Condensate drip | | | | | |
| | Ver | | 16 | 26 | 36 |
| | HL,L,N,PC,S | | BC10 (1) | BC10 (1) | BC10 (1) |
| 1) For vertical installation. | | | | | |
| Condensate drainage | 2 | | | | |
| | Ver | | 16 | 26 | 36 |
| | HL,L,N,PC,S | | DSC5 (1) | DSC5 (1) | DSC5 (1) |
| (1) The accessory cannot be fit if | the accessory BC10 or BC20 is installed. | | | | |
| Panel closing the rea | | | | | |
| Accessory | i or the unit | | HL16 | HL26 | HL36 |
| PCH16 | | | • | IILZU | IILJU |
| PCH26 | | | • | • | |
| PCH36 | | | | · | • |
| i Cilou | | | | | • |
| Wall mounting kit | | | | | |
| Accessory | | | HL16 | HL26 | HL36 |
| AMP10 | | | • | • | • |
| Pair of stylish structu | ral feet | | | | |
| un vi stynsn stiutta | | | | | |
| Model Model | | | Ver | 16 26 | 36 |

Ver

HL,L,N,PC,S

16

26

36

Model

ZH1B

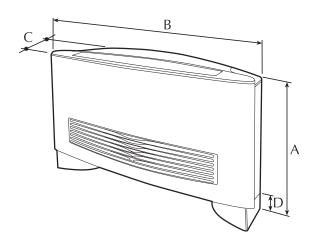
PERFORMANCE SPECIFICATIONS

2-pipe

| | | | HL16 | | | HL26 | | | HL36 | |
|---------------------------------------|-------|------|------|------|------|-------------|------|------|------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | • | | |
| Heating capacity | kW | 1,54 | 2,12 | 2,91 | 2,89 | 3,83 | 4,62 | 3,53 | 4,87 | 5,94 |
| Water flow rate system side | l/h | 135 | 186 | 255 | 254 | 336 | 405 | 310 | 427 | 521 |
| Pressure drop system side | kPa | 1 | 2 | 4 | 5 | 8 | 11 | 3 | 5 | 7 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 0,73 | 1,05 | 1,90 | 1,44 | 1,90 | 2,29 | 1,75 | 2,42 | 2,95 |
| Water flow rate system side | l/h | 126 | 183 | 331 | 249 | 331 | 399 | 305 | 420 | 513 |
| Pressure drop system side | kPa | 1 | 3 | 8 | 5 | 8 | 11 | 7 | 13 | 18 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | |
| Cooling capacity | kW | 0,69 | 0,87 | 1,17 | 1,26 | 1,65 | 1,99 | 1,63 | 2,26 | 2,79 |
| Sensible cooling capacity | kW | 0,52 | 0,69 | 0,96 | 0,97 | 1,30 | 1,61 | 1,13 | 1,59 | 2,00 |
| Water flow rate system side | l/h | 122 | 153 | 206 | 220 | 289 | 349 | 286 | 394 | 487 |
| Pressure drop system side | kPa | 2 | 3 | 5 | 5 | 8 | 11 | 7 | 13 | 19 |
| Fan | | | | | | | | | | |
| Туре | type | | | | | Centrifugal | | | | |
| Fan motor | type | | | | | On-Off | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 110 | 160 | 240 | 190 | 270 | 350 | 240 | 350 | 460 |
| Input power | W | 23 | 25 | 32 | 24 | 27 | 35 | 30 | 35 | 42 |
| Fan coil sound data (4) | | | | | | | | | | |
| Sound power level | dB(A) | 34,0 | 43,0 | 48,0 | 35,0 | 43,0 | 48,0 | 34,0 | 43,0 | 50,0 |
| Sound pressure | dB(A) | 26,0 | 35,0 | 40,0 | 27,0 | 35,0 | 40,0 | 26,0 | 33,0 | 40,0 |
| Diametre hydraulic fittings | | | | | | | | | | |
| Main coil | Ø | | | | | 1/2" | | | | |
| Power supply | | | | | | | | | | |
| Power supply | | | | | | 230V~50Hz | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Dimensions and weights

| | | HL16 | HL26 | HL36 |
|------------------------|----|------|------|------|
| Dimensions and weights | | | | |
| A | mm | 605 | 615 | 623 |
| C | mm | 189 | 191 | 198 |
| D | mm | 93 | 93 | 93 |
| Empty weight | kg | 15 | 18 | 21 |

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Omnia ULS

Vertical wall-mounting or freestanding installation



- Compact dimensions, thickness 130 mm
- Low operating temperature
- · Cooling, heating, and dehumidification





DESCRIPTION

The Omnia Slim fan coils have been designed to meet the need to combine the typical features of a classic radiator - namely reduced depth and quiet operation - with the ability of a fan coil to air-condition rooms throughout the year.

They can be installed on any system with a 2-pipe system and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

VERSIONS

ULS Standard without control board **ULS C** With on-board thermostat

FEATURES

Case

Structure in sheet metal, 12/10 and 8/10 mm.

Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.

Ventilation group

These fan coils have extremely silent ventilation by using special tangential fans, which guarantees maximum acoustic comfort.

The electric motor is a 3-speed single-phase motor with a permanently inserted condenser.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The coil has hydraulic connections on the left and is not reversible.

Control

With thermostatic adjustment and manual or no-adjustment switching, for combination with any wall panel or with the AERMEC VMF system.

ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: Water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH-S: Touch control installation on-board the fan coil. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBS: Thermostat installation on the fan coil.

KITSV: Kit for installing the VMF-E0X or VMF-E19/19I.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2S: User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E0X, VMF-E19 or VMF-E19I accessory is required. **VMF-E3:** Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

BCSV: Condensate collection tray, for valve kit.

DSC7: Condensate drainage device.

VCS2: 2-way motorised valve kit without insulating shell. The kit is made up of a valve, actuator and relative hydraulic fittings.

VCS3: 3-way motorised valve kit without insulating shell for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings.

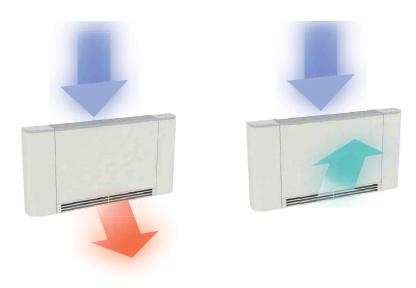
ZXS: Pair of stylish and structural feet.

MAIN FEATURES



- 1 Air/water exchange coils with aluminium louvers and copper piping, arranged across 2 rows.
- 2 Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.
- 3 Plastic recovery grille with air filter.
- 4 Tangential fan driven by a 3-speed motor.
- 5 Aluminium recovery grille and sheet metal delivery grille, with a special design conceived to create a homogeneous flow of air, both in summer and winter operation.

Flow rates



ACCESSORIES COMPATIBILITY

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|---------------|-----|----|----|----|----|----|
| AER503IR (1) | ULS | • | • | • | • | • |
| PR0503 | ULS | • | • | • | • | • |
| SA5 (2) | ULS | • | • | • | • | • |
| SW3 (2) | ULS | • | • | • | • | • |
| SW5 (2) | ULS | • | • | • | • | • |
| T-TOUCH-S (3) | ULS | • | • | • | • | • |
| TX (1) | ULS | • | • | • | • | • |
| TXBS (3) | ULS | • | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted. (3) Installation on the fan coil.

VMF system

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------------|-----|----|----|----|----|----|
| KITSV (1) | ULS | • | • | • | • | • |
| VMF-E19 (2) | ULS | • | • | • | • | • |
| VMF-E2S (3) | ULS | • | • | • | • | • |
| VMF-E3 | ULS | • | • | • | • | • |
| VMF-E4DX | ULS | • | • | • | • | • |
| VMF-E4X | ULS | • | • | • | • | • |
| VMF-IR | ULS | • | • | • | • | • |

- (1) Mandatory when the VMF-E19/19l or VMF-E0X thermostat is required.
 (2) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.
 (3) Installation on the fan coil.

3 way valve kit

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|----------|-----------|----|----|----|----|----|
| VCS3 (1) | ULS,ULS_C | • | • | • | • | • |

(1) Power supply 230V - Hydraulic connections Ø 1/2"

2 wav valve kit

| 2 may varre nit | | | | | | | _ |
|-----------------|-----------|----|----|----|----|----|---|
| Model | Ver | 10 | 20 | 30 | 40 | 50 | |
| VCS2 (1) | ULS.ULS C | • | • | • | • | • | _ |

(1) Power supply 230V - Hydraulic connections Ø 1/2"

Condensate drip

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-----------|----|----|----|----|----|
| BCSV | ULS,ULS_C | • | • | • | • | • |

Condensate drainage

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-----------|----|----|----|----|----|
| DSC7 | ULS,ULS_C | • | • | • | • | • |
| | | | | | | |

Pair of stylish structural feet

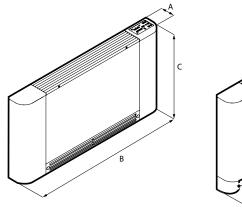
| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-----------|----|----|----|----|----|
| ZXS | ULS,ULS_C | • | • | • | • | • |

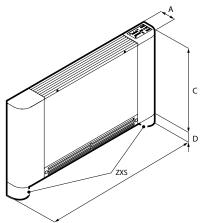
PERFORMANCE SPECIFICATIONS

| | | | ULS10 | | | ULS20 | | | ULS30 | | | ULS40 | | | ULS50 | |
|---------------------------------------|-------|------|-------|------|------|-------|------|------|------------|------|------|-------|------|------|-------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,61 | 1,16 | 1,64 | 1,14 | 2,18 | 3,08 | 1,48 | 2,84 | 4,00 | 1,89 | 3,64 | 5,13 | 2,27 | 4,37 | 6,15 |
| Water flow rate system side | l/h | 53 | 102 | 144 | 99 | 191 | 269 | 129 | 248 | 350 | 166 | 318 | 448 | 199 | 382 | 538 |
| Pressure drop system side | kPa | 1 | 4 | 7 | 4 | 11 | 21 | 3 | 8 | 15 | 4 | 13 | 25 | 3 | 9 | 16 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,30 | 0,58 | 0,82 | 0,56 | 1,09 | 1,53 | 0,73 | 1,41 | 1,99 | 0,94 | 1,81 | 2,55 | 1,13 | 2,17 | 3,06 |
| Water flow rate system side | l/h | 52 | 101 | 142 | 98 | 189 | 266 | 128 | 245 | 346 | 164 | 315 | 443 | 196 | 378 | 532 |
| Pressure drop system side | kPa | 1 | 4 | 7 | 4 | 12 | 22 | 3 | 9 | 16 | 4 | 14 | 26 | 3 | 9 | 17 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,30 | 0,57 | 0,80 | 0,55 | 1,07 | 1,50 | 0,72 | 1,38 | 1,95 | 0,92 | 1,78 | 2,50 | 1,11 | 2,13 | 3,00 |
| Sensible cooling capacity | kW | 0,22 | 0,43 | 0,62 | 0,42 | 0,81 | 1,17 | 0,54 | 1,05 | 1,52 | 0,69 | 1,35 | 1,95 | 0,83 | 1,62 | 2,34 |
| Water flow rate system side | l/h | 51 | 97 | 137 | 95 | 183 | 257 | 124 | 238 | 335 | 158 | 305 | 429 | 190 | 366 | 515 |
| Pressure drop system side | kPa | 1 | 4 | 8 | 4 | 13 | 25 | 3 | 10 | 18 | 5 | 16 | 29 | 3 | 10 | 19 |
| Fan | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | Tangential | | | | | | | |
| Fan motor | type | | | | | | | A | synchronou | IS | | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 36 | 75 | 134 | 62 | 141 | 241 | 76 | 164 | 301 | 91 | 204 | 370 | 103 | 243 | 427 |
| Input power | W | 8 | 15 | 21 | 15 | 21 | 32 | 17 | 32 | 42 | 21 | 39 | 53 | 18 | 26 | 56 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 42,0 | 49,0 | 52,0 | 42,0 | 49,0 | 52,0 | 43,0 | 50,0 | 53,0 | 44,0 | 51,0 | 54,0 | 45,0 | 52,0 | 55,0 |
| Sound pressure | dB(A) | 34,0 | 41,0 | 44,0 | 34,0 | 41,0 | 44,0 | 35,0 | 42,0 | 45,0 | 36,0 | 43,0 | 46,0 | 39,0 | 44,0 | 47,0 |
| Water coil | | | | | | | | | | | | | | | | |
| Water content main coil | - 1 | | 0,5 | | | 0,9 | | | 1,2 | | | 1,5 | | | 1,8 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | | | 1/2" | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | 230V~50Hz | 7 | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS





| Size | | | 10 | 20 | 30 | 40 | 50 |
|------------------------|-----------|----|-----|-----|------|------|------|
| Dimensions and weights | | | | | | | |
| A | ULS,ULS_C | mm | 130 | 130 | 130 | 130 | 130 |
| В | ULS,ULS_C | mm | 745 | 940 | 1134 | 1328 | 1524 |
| C | ULS,ULS_C | mm | 580 | 580 | 580 | 580 | 580 |
| D | ULS,ULS_C | mm | 80 | 80 | 80 | 80 | 80 |
| Empty weight | ULS,ULS_C | kg | 11 | 13 | 15 | 17 | 19 |

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Omnia ULSI

Vertical wall-mounting or freestanding installation



- Compact dimensions, thickness 130 mm
- Low operating temperature
- · Cooling, heating, and dehumidification





DESCRIPTION

The Omnia Slim fan coils have been designed to meet the need to combine the typical features of a classic radiator - namely reduced depth and quiet operation - with the ability of a fan coil to air-condition rooms throughout the year.

They can be installed on any system with a 2-pipe system and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

VERSIONS

ULSI Inverter without control board

ULSI C Inverter with on-board thermostat

FEATURES

Case

Structure in sheet metal, 12/10 and 8/10 mm.

Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.

Ventilation group

These fan coils have extremely silent ventilation by using special tangential fans, which guarantees maximum acoustic comfort.

Brushless motor with continuous speed variation.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The coil has hydraulic connections on the left and is not reversible.

Control

With thermostatic adjustment and manual or no-adjustment switching, for combination with any wall panel or with the AERMEC VMF system.

ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH-IS: Touch control installation on-board the fan coil. The ThermApp application is also available for remote control with smart devices with the Android operating system.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBIS: Thermostat installation on the fan coil.

KITSV: Kit for installing the VMF-E0X or VMF-E19/19I.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2S: User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E0X, VMF-E19 or VMF-E19I accessory is required. **VMF-E3:** Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

BCSV: Condensate collection tray, for valve kit.

DSC7: Condensate drainage device.

VCS2: 2-way motorised valve kit without insulating shell. The kit is made up of a valve, actuator and relative hydraulic fittings.

VCS3: 3-way motorised valve kit without insulating shell for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings.

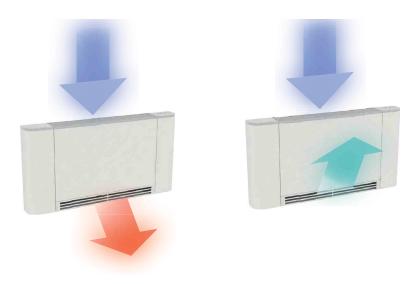
ZXS: Pair of stylish and structural feet.

MAIN FEATURES



- 1 Air/water exchange coils with aluminium louvers and copper piping, arranged across 2 rows.
- 2 Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.
- 3 Plastic recovery grille with air filter.
- 4 Tangential fan driven by a Brushless motor with continuous speed variation.
- 5 Aluminium recovery grille and sheet metal delivery grille, with a special design conceived to create a homogeneous flow of air, both in summer and winter operation.

Flow rates



ACCESSORIES COMPATIBILITY

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|--------------|------|----|----|----|----|----|
| AER503IR (1) | ULSI | • | • | • | • | • |
| PR0503 | ULSI | • | • | • | • | • |
| SA5 (2) | ULSI | • | • | • | • | • |
| SW3 (2) | ULSI | • | • | • | • | • |
| SW5 (2) | ULSI | • | • | • | • | • |
| T-TOUCH-IS | ULSI | • | • | • | • | • |
| TX (1) | ULSI | • | • | • | • | • |
| TXBIS | ULSI | • | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------------|------|----|----|----|----|----|
| KITSV (1) | ULSI | • | • | • | • | • |
| VMF-E19I | ULSI | • | • | • | • | • |
| VMF-E2S (2) | ULSI | • | • | • | • | • |
| VMF-E3 | ULSI | • | • | • | • | • |
| VMF-E4DX | ULSI | • | • | • | • | • |
| VMF-E4X | ULSI | • | • | • | • | • |
| VMF-IR | ULSI | • | • | • | • | • |

- (1) Mandatory when the VMF-E19/19I or VMF-E0X thermostat is required. (2) Installation on the fan coil.

3 way valve kit

| 5 may rante int | | | | | | | _ |
|-----------------|-------------|----|----|----|----|----|---|
| Model | Ver | 10 | 20 | 30 | 40 | 50 | |
| VCS3 (1) | IIISLIISI C | | | • | | • | _ |

(1) Power supply 230V - Hydraulic connections Ø 1/2"

2 way valve kit

| Model | Ver | 10 | 20 | 30 | 40 | 50 | |
|----------|------------|----|----|----|----|----|--|
| VCS2 (1) | ULSLULSI C | • | • | • | • | • | |

(1) Power supply 230V - Hydraulic connections Ø 1/2"

Condensate drip

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-------------|----|----|----|----|----|
| BCSV | ULSI,ULSI_C | | • | • | • | • |

Condensate drainage

| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-------------|----|----|----|----|----|
| DSC7 | ULSI,ULSI_C | • | • | • | • | • |

Pair of stylish structural feet

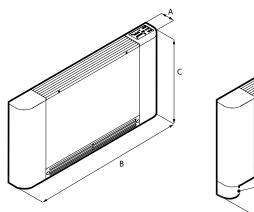
| Model | Ver | 10 | 20 | 30 | 40 | 50 |
|-------|-------------|----|----|----|----|----|
| ZXS | ULSI,ULSI_C | • | • | • | • | • |

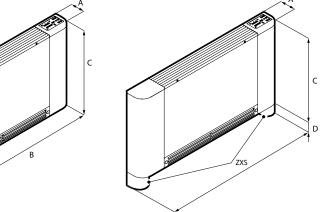
PERFORMANCE SPECIFICATIONS

| 2 pipe | | | ULSI10 | | | ULSI20 | | | ULSI30 | | | ULSI40 | | | ULSI50 | |
|---------------------------------------|-------|------|--------|------|------|--------|------|------|------------|------|------|--------|------|------|--------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | M | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,70 | 1,14 | 1,53 | 1,27 | 1,88 | 2,86 | 1,88 | 2,91 | 3,72 | 2,32 | 3,55 | 4,77 | 2,49 | 3,85 | 5,73 |
| Water flow rate system side | l/h | 61 | 100 | 134 | 111 | 165 | 251 | 165 | 254 | 326 | 203 | 311 | 418 | 218 | 337 | 501 |
| Pressure drop system side | kPa | 2 | 4 | 7 | 5 | 10 | 20 | 6 | 14 | 22 | 6 | 13 | 22 | 5 | 10 | 21 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,35 | 0,57 | 0,76 | 0,63 | 0,94 | 1,43 | 0,94 | 1,45 | 1,85 | 1,15 | 1,77 | 2,38 | 1,24 | 1,92 | 2,85 |
| Water flow rate system side | l/h | 61 | 99 | 132 | 110 | 163 | 248 | 163 | 251 | 322 | 201 | 307 | 413 | 216 | 333 | 495 |
| Pressure drop system side | kPa | 2 | 4 | 7 | 5 | 9 | 20 | 6 | 14 | 22 | 6 | 13 | 22 | 5 | 10 | 21 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,37 | 0,60 | 0,80 | 0,67 | 0,98 | 1,50 | 0,98 | 1,52 | 1,95 | 1,22 | 1,86 | 2,50 | 1,30 | 2,02 | 3,00 |
| Sensible cooling capacity | kW | 0,25 | 0,42 | 0,57 | 0,46 | 0,68 | 1,08 | 0,68 | 1,06 | 1,39 | 0,84 | 1,30 | 1,79 | 0,90 | 1,40 | 2,15 |
| Water flow rate system side | l/h | 63 | 103 | 137 | 114 | 169 | 257 | 169 | 261 | 335 | 209 | 319 | 429 | 224 | 346 | 515 |
| Pressure drop system side | kPa | 3 | 6 | 10 | 7 | 13 | 28 | 9 | 19 | 30 | 9 | 18 | 30 | 7 | 14 | 29 |
| Fan | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | Tangential | | | | | | | |
| Fan motor | type | | | | | | | | Inverter | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 46 | 82 | 134 | 78 | 128 | 241 | 109 | 188 | 301 | 126 | 218 | 370 | 127 | 225 | 427 |
| Input power | W | 5 | 8 | 10 | 6 | 9 | 15 | 7 | 12 | 17 | 7 | 14 | 20 | 7 | 13 | 21 |
| Signal 0-10V | % | 40 | 70 | 90 | 40 | 70 | 90 | 40 | 70 | 90 | 40 | 70 | 90 | 40 | 70 | 90 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 39,0 | 47,0 | 51,0 | 39,0 | 47,0 | 51,0 | 40,0 | 48,0 | 53,0 | 41,0 | 49,0 | 54,0 | 42,0 | 52,0 | 56,0 |
| Sound pressure | dB(A) | 31,0 | 39,0 | 43,0 | 31,0 | 39,0 | 43,0 | 32,0 | 40,0 | 45,0 | 33,0 | 41,0 | 46,0 | 34,0 | 44,0 | 48,0 |
| Water coil | | | | | | | | | | | | | | | | |
| Water content main coil | - 1 | | 0,5 | | | 0,9 | | | 1,2 | | | 1,5 | | | 1,8 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | | | 1/2" | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | 230V~50Hz | 7 | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45°C/40°C; EUROVENT
 (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS





| Size | | | 10 | 20 | 30 | 40 | 50 |
|------------------------|-------------|----|-----|-----|------|------|------|
| Dimensions and weights | | | | | | | |
| A | ULSI,ULSI_C | mm | 130 | 130 | 130 | 130 | 130 |
| В | ULSI,ULSI_C | mm | 745 | 940 | 1134 | 1328 | 1524 |
| (| ULSI,ULSI_C | mm | 580 | 580 | 580 | 580 | 580 |
| D | ULSI,ULSI_C | mm | 80 | 80 | 80 | 80 | 80 |
| Empty weight | ULSI,ULSI_C | kg | 11 | 13 | 15 | 17 | 19 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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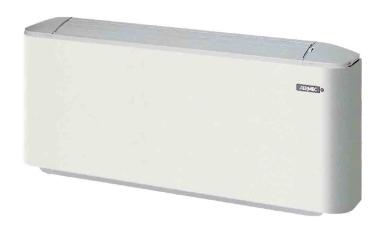


Omnia UL

Universal and floor installation



- Fully silent functioning
- Ideal for residential or office solutions





DESCRIPTION

Fan coils with inverter technology for heating, cooling, and dehumidifying. Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, which allows for precise adaptation of the actual indoor ambient requirements without temperature oscillations, for increased comfort, also in terms of noise, and electrical savings.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

C Vertical installation, intake at base, electronic thermostat

PC Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier

S Vertical and horizontal installation, intake at base, without commands **UL** Standard - Vertical installation, bottom intake, manual switch-over

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9002 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

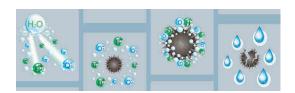
Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coils have, as standard, precharged electrostatic filters. These filters, thanks to their special execution, attracts and retains all suspended dust particles, thus garanteeing pure breathable air to the whole family. **APC versions equipped with Coldplasma Air purifier.**

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.



ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2D: User interface on the machine, to be combined with the VMF-E19 accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

AMP: Wall mounting kit

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU: Pair of stylish and structural feet.

ACCESSORIES COMPATIBILITY

| Model | Ver | 11 | 16 | 26 | 36 |
|--------------|--------|----|----|----|----|
| AER503IR (1) | ς | • | • | • | • |
| PR0503 | ς | • | • | • | • |
| SA5 (2) | ς | • | • | • | • |
| SW3 (2) | C,PC,S | • | • | • | • |
| SW5 (2) | S | • | • | • | • |
| TX (1) | ς | • | • | • | • |
| WMT05 (1) | S | • | • | • | • |
| WMT10 (1) | ς | • | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 11 | 16 | 26 | 36 |
|-------------|-----|----|----|----|----|
| VMF-EOX (1) | S | • | • | • | • |
| VMF-E19 (1) | S | • | • | • | • |
| VMF-E2D | S | • | • | • | • |
| VMF-E3 | S | • | • | • | • |
| VMF-E4DX | S | • | • | • | • |
| VMF-E4X | S | • | • | • | • |
| VMF-IR | S | • | • | • | • |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Condensate drip

| Model | Ver | 11 | 16 | 26 | 36 |
|----------|-----------|----|----|----|----|
| BC10 (1) | C,PC,S,UL | • | • | • | • |
| BC20 (2) | C,PC,S,UL | • | • | • | • |

⁽¹⁾ For vertical installation.

Condensate drainage

| Model | Ver | 11 | 16 | 26 | 36 |
|----------|-----------|----|----|----|----|
| DSC5 (1) | C,PC,S,UL | • | • | • | • |

⁽¹⁾ The accessory cannot be fit if the accessory BC10 or BC20 is installed.

3 way valve kit

| Model | Ver | 11 | 16 | 26 | 36 |
|-------|-----------|----|----|----|----|
| VCH | C,PC,S,UL | • | • | • | • |
| | | | | | |

| 2 way valve kit | | | | | |
|-----------------|-----------|----|----|----|----|
| Model | Ver | 11 | 16 | 26 | 36 |
| VCHD | C,PC,S,UL | • | • | • | • |

⁽²⁾ For horizontal installation.

Wall mounting kit

| Model | Ver | 11 | 16 | 26 | 36 |
|-------|------|----|----|----|----|
| AMP10 | C,PC | • | • | • | • |

Panel closing the rear of the unit

| Ver | 11 | 16 | 26 | 36 |
|-----------|-------|-------|-------|-------|
| C,PC,S,UL | PCU10 | PCU15 | PCU25 | PCU35 |

Intake grids

| Ver | 11 | 16 | 26 | 36 |
|-----------|----------|----------|----------|----------|
| C,PC,S,UL | GU10 (1) | GU15 (1) | GU25 (1) | GU35 (1) |

 $(1) \ \ The \ combination \ with \ a \ pair \ of \ stylish \ and \ structural \ feet \ is \ mandatory.$

Pair of stylish structural feet

| Model | Ver | 11 | 16 | 26 | 36 |
|-------|-----------|----|----|----|----|
| ZU | C,PC,S,UL | • | • | • | • |

Configuration

| Field | Description | | | |
|--------|--|--|--|--|
| 1,2 UL | | | | |
| 3,4 | Size | | | |
| J,4 | 11, 16, 26, 36 | | | |
| 5 | Version | | | |
| C | Vertical installation, intake at base, electronic thermostat | | | |
| PC | Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier | | | |
| S | Vertical and horizontal installation, intake at base, without commands | | | |
| UL | Standard - Vertical installation, bottom intake, manual switch-over | | | |

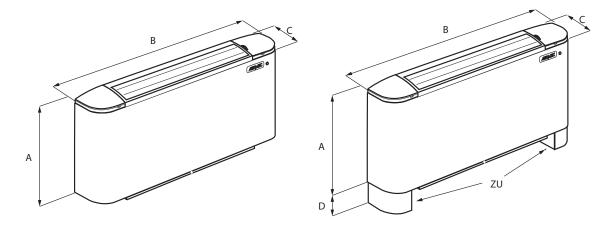
PERFORMANCE SPECIFICATIONS

2-pipe

| 2 ріре | | | UL11 | | | UL16 | | | UL26 | | | UL36 | |
|---------------------------------------|-------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | M | H | L | M | H | L | M | H | L | M | H |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | |
| Heating capacity | kW | 1,06 | 1,46 | 2,01 | 1,54 | 2,12 | 2,91 | 2,89 | 3,83 | 4,62 | 3,63 | 4,87 | 5,94 |
| Water flow rate system side | l/h | 93 | 128 | 176 | 135 | 186 | 255 | 254 | 336 | 405 | 310 | 427 | 521 |
| Pressure drop system side | kPa | 1 | 1 | 2 | 1 | 2 | 4 | 5 | 8 | 11 | 3 | 5 | 7 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 0,52 | 0,73 | 1,00 | 0,76 | 1,05 | 1,44 | 1,44 | 1,90 | 2,29 | 1,75 | 2,42 | 2,95 |
| Water flow rate system side | l/h | 92 | 126 | 174 | 133 | 183 | 251 | 249 | 331 | 399 | 305 | 420 | 513 |
| Pressure drop system side | kPa | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 11 | 7 | 13 | 18 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,53 | 0,67 | 0,82 | 0,69 | 0,87 | 1,17 | 1,26 | 1,65 | 1,99 | 1,63 | 2,26 | 2,79 |
| Sensible cooling capacity | kW | 0,38 | 0,52 | 0,68 | 0,52 | 0,69 | 0,96 | 0,97 | 1,30 | 1,61 | 1,13 | 1,59 | 2,00 |
| Water flow rate system side | l/h | 94 | 117 | 145 | 122 | 153 | 206 | 220 | 289 | 349 | 286 | 394 | 487 |
| Pressure drop system side | kPa | 1 | 2 | 2 | 2 | 3 | 5 | 5 | 8 | 11 | 7 | 13 | 19 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | Centrifugal | | | Centrifugal | | | Centrifugal | | | Centrifugal | |
| Fan motor | type | | 0n-0ff | | | 0n-0ff | | | 0n-0ff | | | On-Off | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 80 | 120 | 180 | 110 | 160 | 240 | 190 | 270 | 350 | 240 | 350 | 460 |
| Input power | W | 8 | 12 | 18 | 23 | 25 | 32 | 24 | 27 | 35 | 30 | 35 | 42 |
| Electrical wiring | | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 31,0 | 37,0 | 46,0 | 34,0 | 43,0 | 48,0 | 35,0 | 43,0 | 48,0 | 34,0 | 43,0 | 50,0 |
| Sound pressure | dB(A) | 23,0 | 29,0 | 38,0 | 26,0 | 35,0 | 40,0 | 27,0 | 35,0 | 40,0 | 26,0 | 33,0 | 40,0 |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | 1 | | 0,3 | | | 0,4 | | | 0,6 | | | 0,8 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| Size | | | 11 | 16 | 26 | 36 |
|------------------------|-----------|----|-----|-----|-----|------|
| Dimensions and weights | | | | | | |
| A | C,PC,S,UL | mm | 513 | 513 | 513 | 513 |
| В | C,PC,S,UL | mm | 640 | 750 | 980 | 1200 |
| C | C,PC,S,UL | mm | 173 | 173 | 173 | 173 |
| D | C,PC,S,UL | mm | 93 | 93 | 93 | 93 |
| Empty weight | C,PC,S,UL | kg | 12 | 14 | 16 | 20 |

















Omnia ULI

Universal and floor installation



- Electric saving equal to 50% compared to a fancoil with 3-speed motor.
- Fully silent functioning
- Ideal for residential or office solutions





DESCRIPTION

Fan coils with inverter technology for heating, cooling, and dehumidifying. Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, which allows for precise adaptation of the actual indoor ambient requirements without temperature oscillations, for increased comfort, also in terms of noise, and electrical savings.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

C Vertical installation, intake at base, electronic thermostat

PC Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier

S Vertical and horizontal installation, intake at base, without commands

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9002 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

Brushless motor with continuous speed variation 0-100%.

The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Condensate drip

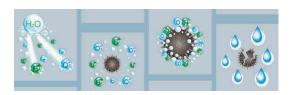
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coils have, as standard, precharged electrostatic filters. These filters, thanks to their special execution, attracts and retains all suspended dust particles, thus garanteeing pure breathable air to the whole family.

APC versions equipped with Coldplasma Air purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.



ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2D: User interface on the machine, to be combined with the VMF-E19 accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

AMP: Wall mounting kit

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU: Pair of stylish and structural feet.

26

36

ACCESSORIES COMPATIBILITY

| Model | Ver | 16 | 26 | 36 |
|--------------|--------|----|----|----|
| AER503IR (1) | S | • | • | • |
| PR0503 | S | • | • | • |
| SA5 (2) | S | • | • | • |
| SW3 (2) | C,PC,S | • | • | • |
| SW5 (2) | S | • | • | • |
| TX (1) | S | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 16 | 26 | 36 |
|----------|-----|----|----|----|
| VMF-E19I | S | • | • | • |
| VMF-E2D | S | • | • | • |
| VMF-E3 | S | | • | • |
| VMF-E4DX | S | • | • | • |
| VMF-E4X | S | | • | • |
| VMF-IR | S | • | • | • |

Condensate drip

| Model | Ver | 16 | 26 | 36 |
|----------|--------|----|----|----|
| BC10 (1) | C,PC,S | • | • | • |
| BC20 (2) | C,PC,S | • | • | • |

⁽¹⁾ For vertical installation.

Condensate drainage

| Model | Ver | 16 | 26 | 36 |
|----------|------|----|----|----|
| DSC5 (1) | C,PC | • | • | • |

⁽¹⁾ The accessory cannot be fit if the accessory BC10 or BC20 is installed.

Ver

3 way valve kit

Model

| VCH | C,PC | • | • | • |
|-----------------|------|----|----|----|
| | | | | |
| 2 way valve kit | | | | |
| Model | Ver | 16 | 26 | 36 |
| VCHD | C,PC | • | • | • |

16

Wall mounting kit

| Model | Ver | 16 | 26 | 36 |
|-------|-----|----|----|----|
| AMP10 | S | • | | • |
| | | | | |

Dair of stylich structural foot

| r dii oi stynsii structurur reet | | | | | | | | | | | |
|----------------------------------|--------|----|----|----|--|--|--|--|--|--|--|
| Model | Ver | 16 | 26 | 36 | | | | | | | |
| ZU | C,PC,S | • | • | • | | | | | | | |

⁽²⁾ For horizontal installation

Configuration

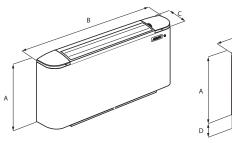
| Field | Description |
|-------|--|
| 1,2,3 | ULI |
| 4,5 | Size 16, 26, 36 |
| 6 | Version |
| С | Vertical installation, intake at base, electronic thermostat |
| PC | Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier |
| S | Vertical and horizontal installation, intake at base, without commands |

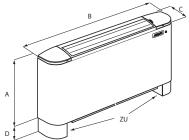
PERFORMANCE SPECIFICATIONS

| 2-ріре | | | | | | | | | | |
|---------------------------------------|-------|------|-------|------|------|-------------|------|------|-------|------|
| | | | ULI16 | | | ULI26 | | | ULI36 | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | M | Н | L | M | Н | L | M | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | |
| Heating capacity | kW | 1,54 | 2,12 | 2,91 | 2,89 | 3,83 | 4,62 | 3,53 | 4,87 | 5,94 |
| Water flow rate system side | l/h | 135 | 186 | 255 | 254 | 336 | 405 | 310 | 427 | 521 |
| Pressure drop system side | kPa | 1 | 2 | 4 | 5 | 8 | 11 | 3 | 5 | 7 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 0,76 | 1,05 | 1,44 | 1,44 | 1,90 | 2,29 | 1,75 | 2,42 | 2,95 |
| Water flow rate system side | l/h | 133 | 183 | 251 | 249 | 331 | 399 | 305 | 420 | 513 |
| Pressure drop system side | kPa | 2 | 2 | 2 | 5 | 8 | 11 | 7 | 12 | 18 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | |
| Cooling capacity | kW | 0,69 | 0,87 | 1,17 | 1,26 | 1,65 | 1,99 | 1,63 | 2,26 | 2,79 |
| Sensible cooling capacity | kW | 0,52 | 0,69 | 0,96 | 0,97 | 1,30 | 1,61 | 1,13 | 1,59 | 2,00 |
| Water flow rate system side | l/h | 122 | 153 | 206 | 220 | 289 | 349 | 286 | 394 | 487 |
| Pressure drop system side | kPa | 2 | 3 | 5 | 6 | 8 | 11 | 7 | 13 | 19 |
| Fan | | | | | | | | | | |
| Туре | type | | | | | Centrifugal | | | | |
| Fan motor | type | | | | | Inverter | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 110 | 160 | 240 | 190 | 270 | 350 | 240 | 350 | 460 |
| Input power | W | 23 | 25 | 32 | 24 | 27 | 35 | 30 | 35 | 42 |
| Signal 0-10V | % | 38 | 56 | 83 | 49 | 70 | 90 | 48 | 70 | 90 |
| Sound power level | dB(A) | 34,0 | 43,0 | 48,0 | 35,0 | 43,0 | 48,0 | 34,0 | 43,0 | 50,0 |
| Sound pressure level (10 m) | dB(A) | 26,0 | 35,0 | 40,0 | 27,0 | 35,0 | 40,0 | 26,0 | 33,0 | 42,0 |
| Water coil | | | | | | | | | | |
| Water content | | | 0,4 | | | 0,6 | | | 0,8 | |
| Diametre hydraulic fittings | | | | | | | | | | |
| Main coil | Ø | | | | | 1/2" | | | | |
| Power supply | | | | | | | | | | |
| Power supply | | | | | | 230V~50Hz | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C (2) Room air temperature 20°C d.b.; Water (in/out) 45°C/40°C; EUROVENT (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

DIMENSIONS





| Size | | | 16 | 26 | 36 |
|------------------------|--------|----|-----|-----|------|
| Dimensions and weights | | | | | |
| A | C,PC,S | mm | 513 | 513 | 513 |
| В | C,PC,S | mm | 750 | 980 | 1200 |
| (| C,PC,S | mm | 173 | 173 | 173 |
| D | C,PC,S | mm | 93 | 93 | 93 |
| Empty weight | C,PC,S | kg | 14 | 16 | 20 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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Omnia Radiant

Fan coils with radiant panel for residential use



- Low temperature radiation *
- Ventilated heating
- Cooling dehumidification
- Energy saving
- Low operating temperature





DESCRIPTION

* Radiant technology under licence.

Omnia Radiant and Omnia Radiant Plus Aermec innovative solutions. In this particular worldwide market evolution, we are pleased to present to you OMNIA Radiant, which represents the innovation of the OMNIA AERMEC series, fan coils especially designed for residential comfort.

OMNIA Radiant inherits all the advantages of the OMNIA UL series, and is characterized by the introduction of the frontal plate for radiant heating.

OMNIA Radiant Plus is provided with the DC Brushless electric engine, equipped with the latest Inverter technology, granting the highest energy efficiency and able to regulate the air flow through the continuous fan speed modulation. This allows to achieve up to 60% in energy saving when compared to the traditional On-Off fan system, in both air conditioning and heating.

OMNIA Radiant and Radiant Plus offer the following advantages when compared to the traditional systems:

- The radiant plate combination the finned coil allows the best winter comfort with the lower energy consumption because it provides heating with lower water temperature: only 45°C against the about 65°C needed for the traditional radiator. This not only increases the comfort for the user, but also significantly increases the overall efficiency in case of heat pumps usage;
- The fan system allows to quickly reach the desired temperature, meeting the requirement of a fast start-up;
- The unit can be combined other than the boiler, also to energy saving heat pumps: air to water, water to water and geothermic type;
- The electrostatic charge filter standard supplied, provides pure and clean air;

 During summer Omnia Radiant and Radiant Plus provide air conditioning and dehumidification in a fast and efficient way in every room.

THE FOUR DIFFERENT WORKING MODES OF OMNIA RADIANT ANNUAL FUNCTIONING









Radiant

Heating through radiation, comfortable and noiseless, is granted by the radiant plate placed on the front of the fan coil cover; if necessary, the triple-fins delivery head can be closed to increases the heating of the plate, thus maximizing the radiant effect.

Radiant + Natural Convection

With the triple-fins open, heating through natural convection, obtained thanks to the bigger coil exchange surface, is added to the radiant heating.

As for the radiant-only mode (see above), the fan groups are in off mode. This results in acoustic comfort and energy saving.

Radiant + Forced Convection

The electronic regulation, precise and reliable, continuously compares the effective indoor temperature with the desired temperature: whenever the difference between the two should prove to be too high (e.g. during the heating system start-up) the software will lead the fan system start-up. Start-up is fast and efficient and grants significant energy savings especially in rooms that are occasionally used.

FEATURES

- Radiant plate
- 2 Switching valve
- 3 Water probe
- Condensate storage container, hydraulic hoses

Omnia Radiant during summer provides air conditioning and dehumidification

Forced Convection

During summer, Omnia Radiant and Radiant Plus provide air conditioning and dehumidification for each room of the house in a fast and efficient way. Efficiency and quietness benefit from the quality that has always characterized the Omnia series.



OMNIA Radiant (UL_R) standard features:

- Radiant plate
- Centrifugal fan
- Three-speed cross flow fan
- Condensate storage container, hydraulic hoses
- Two way valve
- Water temperature probe
- VMF-thermostat for asynchronous motor
- Compatibility with VMF system

OMNIA Radiant (UL_RI) standard features:

- Radiant plate
- Centrifugal fan
- Electric DC Brushless motor with Inverter
- Condensate storage container, hydraulic hoses
- Two way valve
- Water temperature probe
- VMF thermostat for DC Brushless motor

ACCESSORIES

Accessories mandatory

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

Common accessories

AMP: Wall mounting kit

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU: Pair of stylish and structural feet.

VCHRAD: Kit consisting of motor-driven 3-way valve copper couplings and pipes.

VMF-E5B: White recessed panel with backlit graphic LCD display and capacitive keyboard, it allows the centralised command/control of a complete hydronic system consisting of Fan coils: up to 64 fan coil zones consisting of 1 master + up to 5 slaves; Chiller/heat pump (accessory required for RS 485 interface), pumps: up to 12 configurable zone pumps; boiler: boiler hook-up management for hot water production; heat recovery units: up to 3 hook-ups per programmable recovery units

Compatibility with VMF system

Ventilation group

Thanks to special centrifugal fans, Omnia Radiant fan coils are incredibly silent, making them the best buy when it comes to acoustic comfort, given the total lack of peak noise.

"The heating by radiation at top speed ensures total silence regime"

The fan blades on the Omnia Radiant are easy to clean. As a matter of fact, the new versions now offer the possibility of opening the worm screw of the fan (the casing that encloses the blades) to perform routine cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The heat exchanger is not reversible.

based on time periods and/or by measuring air quality with the VMF-VOC accessory; domestic water module: complete management of the domestic hot water production through the control of: diverter valve/pump, integrated heating element, storage tank temperature sensor, anti-legionella circuit system.

VMF-E5N: Black recessed panel with backlit graphic LCD display and capacitive keyboard, it allows the centralised command/control of a complete hydronic system consisting of Fan coils: up to 64 fan coil zones consisting of 1 master + up to 5 slaves; Chiller/heat pump (accessory required for RS 485 interface), pumps: up to 12 configurable zone pumps; boiler: boiler hook-up management for hot water production; heat recovery units: up to 3 hook-ups per programmable recovery units based on time periods and/or by measuring air quality with the VMF-VOC accessory; domestic water module: complete management of the domestic hot water production through the control of: diverter valve/pump, integrated heating element, storage tank temperature sensor, anti-legionella circuit system.

For compatibility of the VMF-E5N / VMF-E5B with sizes 26R-36R contact the office.

ACCESSORIES COMPATIBILITY

VMF system

| VIVIF SYSTEM | | | | |
|---------------------------------|-------|--------|-------|--------|
| Accessory | UL26R | UL26RI | UL36R | UL36RI |
| MF-E4DX | • | • | • | • |
| MF-E4X | • | • | • | • |
| /MF-E5B | | • | | • |
| /MF-E5N | | • | | • |
| ccessory | UL26R | UL26RI | UL36R | UL36RI |
| CU25 | • | • | | |
| PCU35 | | | • | • |
| Intake grids | | | | |
| Accessory | UL26R | UL26RI | UL36R | UL36RI |
| 5U25 | • | • | | |
| GU35 | | | • | • |
| 3 way valve kit | | | | |
| Accessory | UL26R | UL26RI | UL36R | UL36RI |
| /CHRAD | • | • | • | • |
| Wall mounting kit | | | | |
| Accessory | UL26R | UL26RI | UL36R | UL36RI |
| MP10 | • | • | • | • |
| Pair of stylish structural feet | | | | |
| Accessory | UL26R | UL26RI | UL36R | UL36RI |
| ZU | • | • | | • |

PERFORMANCE SPECIFICATIONS

2-pipe

| | | | UL26RI | | | UL26R | | | UL36RI | | UL36R | | |
|--------------------------------------|-------|------|-------------|------|------|--------------|------|------|-------------|------|-------|--------------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performances | | | | | | | | | | | | | |
| Heating capacity (70 °C) (1) | kW | 2,89 | 3,83 | 4,62 | 2,89 | 3,83 | 4,62 | 3,53 | 4,87 | 5,94 | 3,53 | 4,87 | 5,94 |
| Heating capacity (50 °C) (2) | kW | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 2,75 | 3,54 | 3,54 | 3,54 | 3,54 | 3,54 | 3,54 |
| Water flow rate system side | l/h | 397 | 397 | 397 | 397 | 397 | 397 | 511 | 511 | 511 | 511 | 511 | 511 |
| Pressure drop system side | kPa | 17 | 17 | 17 | 17 | 17 | 17 | 21 | 21 | 21 | 21 | 21 | 21 |
| Static heating power (70 °C) (3) | kW | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,65 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 | 0,75 |
| Static heating power (50 °C) (4) | kW | 0,39 | 0,39 | 0,39 | 0,39 | 0,39 | 0,39 | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 |
| Static heating power (35 °C) (5) | kW | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,23 | 0,23 | 0,23 | 0,23 | 0,23 | 0,23 |
| Cooling performance 7 °C / 12 °C (6) | | | | | | | | | | | | | - |
| Cooling capacity | kW | 1,42 | 1,78 | 2,03 | 1,42 | 1,78 | 2,03 | 1,73 | 2,31 | 2,83 | 1,73 | 2,31 | 2,83 |
| Sensible cooling capacity | kW | 1,05 | 1,37 | 1,64 | 1,05 | 1,37 | 1,64 | 1,28 | 1,79 | 2,04 | 1,28 | 1,79 | 2,04 |
| Water flow rate system side | l/h | 349 | 349 | 349 | 349 | 349 | 349 | 487 | 487 | 487 | 487 | 487 | 487 |
| Pressure drop system side | kPa | 18 | 18 | 18 | 18 | 18 | 18 | 22 | 22 | 22 | 22 | 22 | 22 |
| Fan | | | | | | | | | | | | | - |
| Туре | type | | Centrifugal | | | Centrifugal | | | Centrifugal | | | Centrifugal | |
| Fan motor | type | | Inverter | | | Asynchronous | 5 | | Inverter | | | Asynchronous | ; |
| Number | no. | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 190 | 270 | 350 | 190 | 270 | 350 | 240 | 350 | 460 | 240 | 350 | 460 |
| Fan coil sound data (7) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 35,0 | 43,0 | 48,0 | 35,0 | 43,0 | 48,0 | 34,0 | 43,0 | 50,0 | 34,0 | 43,0 | 50,0 |
| Sound pressure | dB(A) | 27,0 | 35,0 | 40,0 | 27,0 | 35,0 | 40,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 |
| Fan | | | | | | | | | | | | | |
| Input power | W | 12 | 12 | 12 | 35 | 35 | 35 | 16 | 16 | 16 | 42 | 42 | 42 |
| Electrical wiring | | - | - | - | V1 | V2 | V1 | - | - | - | V1 | V2 | V3 |
| Signal 0-10V | % | 5 | 7 | 9 | - | - | - | 5 | 7 | 9 | 5 | - | - |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | | | 0,8 | | | 0,8 | | | 1,1 | | | 1,1 | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | |

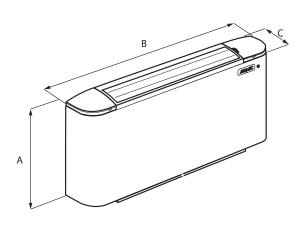
⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air 20 °C b.s.; Water (in) 50 °C; Water flow rate as in cooling mode (EUROVENT)
(3) Radiant power + natural convection; Hot water (in) 70 °C (water flow same as in heating cycle)
(4) Radiant power + natural convection; Hot water (in) *) 50°C; "C (water flow same as in heating cycle)
(5) Radiant power + natural convection; Hot water (in) *) 55°C; "C (water flow same as in heating cycle)
(6) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(7) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

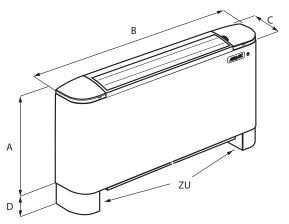
HEATING CAPACITY WITH FAN OFF





DIMENSIONS





| | | UL26RI | UL26R | UL36RI | UL36R |
|------------------------|----|--------|-------|--------|-------|
| Dimensions and weights | | | | | |
| A | mm | 513 | 513 | 513 | 513 |
| В | mm | 980 | 980 | 1200 | 1200 |
| С | mm | 173 | 173 | 173 | 173 |
| D | mm | 93 | 93 | 93 | 93 |
| Empty weight | kg | 20 | 20 | 24 | 24 |

















FCY

Fan coil unit for ducted installations



- Plug and play installation only in horizontal
- Reduced dimensions
- Inspectable ventilation group





DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

They were designed and built for flush horizontal installation in any type of 2/4 pipe system and in combination with any heat generator, also at low temperatures.

Thanks to the availability of various versions and configurations, with a standard or oversized coil, it is easy to select the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

Reversibility of the water connections during installation only for units with a main standard or oversized coil or standard with BV accessory. Not reversible in all other configurations.

Air filter

Where present, the Coarse 25% Class according to ISO16890 (G2 according to EN779) air filter, which is easy to remove and clean.

Condensate drip

In addition to the internal tray, all units are equipped with a **configurable external condensate collection tray** during installation.

The kit comprises a single element, which is made up of two pieces: the **tray** with a double drain to be installed on the right or left, and the **drip moulding**, which must be installed if mounting the valve kit and may not be used for installations without the valves with limited technical spaces.

Control

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|-------|--|
| 1,2,3 | FCY |
| 4 | Size |
| 4 | 2, 3, 4, 5, 6, 7 |
| 5 | Main coil (1) |
| 0 | Standard |
| 5 | Oversized |
| 6 | Secondary coil |
| 0 | Without coil |
| 1 | Standard (2) |
| 7 | Version |
| С | Compact |
| U | Universal (3) |
| 8 | Connections |
| D | Water connections and electrical panel on the right |
| G | Water connections and electrical panel on the left |
| L | Hydraulic connections on the left and electric connections on the opposite side |
| R | Hydraulic connections on the right and electric connections on the opposite side |
| 9 | Options |
| Н | Electric heater (500W) (4) |
| P | With the photocatalytic device (4) |
| Х | No present |
| 10 | Filter |
| F | With air filter |
| Х | No present |

Reversibility of the water connections during installation only for units with a main standard or oversized coil. They are not reversible for units with a secondary coil.
 Only for the standard main coil

SIZE AVAILABLE FOR VERSION

C version

| Size | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Versions produced (by size) | | | | | | | | | | | | | | | | | | |
| Versions available (by size) | | | • | • | • | • | • | | • | | • | | • | • | | | • | • |
| Version U | | | | | | | | | | | | | | | | | | |
| Size | | 200 | 20 | 01 | 250 | 30 | 0 | 301 | 350 | 4 | 100 | 401 | 45 | 50 | 500 | 501 | | 550 |
| Versions produced (by size) | | | | | | | | | | | | | | | | | | |
| Versions available (by size) | | • | | | • | | | • | | | | | | | • | | | • |

INSTALLATION VERSIONS AND EXAMPLES

C: Compact version.

Compact structure with opposed intake and delivery lines, for an "H"shaped configuration.

The unit is provided without openings and without flanges, which can be purchased separately as an accessory.

The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air. On the side, it can house Ø 125 or 100 mm flanges for the intake of outside air for delivery.

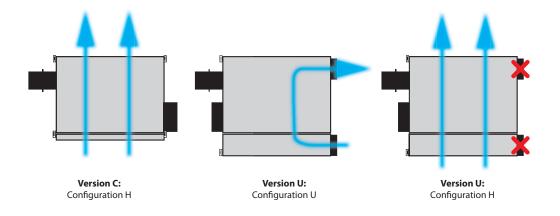
U: Universal version.

Structure for the "U" configuration with intake and delivery on the same side, opposite of the side with the water connections and the electrical box.

The unit is supplied with Ø 200 mm delivery and intake flanges.

The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake or delivery flanges can be replaced by a \emptyset 125 or 100 mm flange for the intake of outside

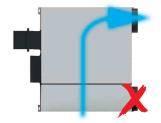
This version is called universal because it guarantees the possible installations permitted by the C version and adds additional possibilities.

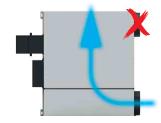


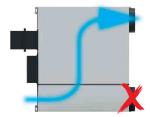
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⁽³⁾ Only for sizes from 2 to 5(4) Options "P and H" are available only in units for 2-pipe systems.

POSSIBLE ALTERNATIVE CONFIGURATIONS OF THE UVERSION







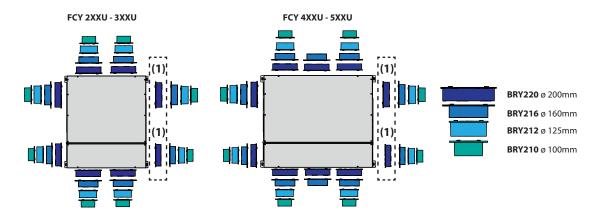
The performance data for the configurations shown here are equal to those for the U version in the U configuration.

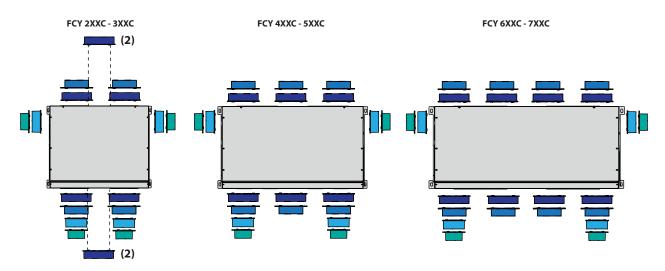
POSSIBLE POSITIONS FOR THE INSTALLATION OF THE BRY ACCESSORIES

In every unit it is possible to use a maximum of one flange accessory for the intake of outside air (BRY210 or BRY212). The number and position of the preparations for the installation of the BRY accessories varies based on the unit size and version.

The standard U version unit is supplied with 2 installed flanges (diameter 200 mm) in the U configuration.

The standard **C version unit is supplied without flanges**, which can be purchased separately as an accessory.





- 1 Accessories BRY220 supplied installed with the standard unit in the U version
- 2 There is a central preparation for the installation of an accessory BRY220 as an alternative to using the two more external preparations.

For the C version: it is necessary to use a number of recirculation air preparations at least equal to the maximum number possible for the size selected less 1.

Example: for FCY6xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

If the number of intake/delivery flanges used is less than the maximum possible for the considered size, their diameter must be 200 mm (BRY220).

For more information about the possible configurations for both versions, refer to the unit's selection software.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-E19Y: Thermostat to be fixed to the side of the fan coil, and fitted as standard with an air probe and water probe. Depending on the option chosen (P - X - H), the VMF-E19 must be completed with the compulsory electric completion unit accessory (VMF-YCC or VMF-YCCH).

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMF-YCC: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YCCH: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

Valves for main coil

VCY41 - 42 - for main coil: -

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

VDP15HF: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 230 V powered ac-

tuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HF24: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 24 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HFM: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 24 V powered actuator with modulating function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

Valves for secondary coil

VCY44 - for the secondary coil: 3-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

Additional hot water coil.

BV: Single row hot water heat exchanger.

Valve support kit

KITVPI: Main coil VDP valve support kit. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

KITVPI12H: VDP valve support kit for the secondary coil. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

Installation accessories

BDP: 200 mm plug.

BRY: Flange with hydraulic "spigot" connection.

GMYC: Plate flange that makes it possible to install the accessory GM either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

AFY: the kit is comprised of a Coarse 25% class filter according to ISO16890 (G2 according to EN779) and four fastening brackets to insert in the grille GM17. To be used together with fan coils supplied without a filter installed in unit "X".

GMYU: Plate flange that makes it possible to install the accessory GM17 either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

DSC: Condensate drainage device.

BC: Condensate drip.

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DAYKIT: Air deflector for U versions. To be installed in the delivery plenum, on the side opposite the air outlet, to facilitate the flow towards the delivery opening.

AMPY: Additional brackets for ceiling mount. Only for "U" version.

Accessories in multiple packages

DFA: Size of filter halved on the short side. The kit is comprised of two filters with a length equal to the standard filter and with half the height. This facilitates filter cleaning and/or replacement operations if there is a reduced space for vertical extraction. 20 piece package.

PPB: Protection for flanges to be used during installation to prevent dust from entering the unit before connecting the ducts. To be removed when making the connection. 100 piece package.

CHR12: Hydraulic connection kit for Ø 1/2" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 50 piece package.

CHR34: Hydraulic connection kit for Ø 3/4" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 30 piece package.

81

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AFDCOOLD (1) | (| | | • | • | • | | | | • | • | • | • | • | | • | • | • | • |
| AER503IR (1) | U | | • | | • | • | • | • | • | • | • | • | • | | | | | | |
| CAT (2) | C | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SA5 (2) | U | | • | • | • | • | • | • | • | • | • | • | | | | | | | |
| SIT3 (3) | C,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| CITE (A) | C | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SIT5 (4) | U | • | • | | • | | • | • | • | • | • | • | • | | | | | | |
| CW2 /2) | C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | U | | • | • | • | • | • | • | • | | • | • | • | | | | | | |
| CML (3) | C | | • | | • | • | • | • | | | • | • | • | • | • | • | | • | |
| SW5 (2) | U | | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| TV (1) | (| • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| TX (1) | U | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |

- Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
 Probe for AERSO3IR-TX thermostats, if fitted.
 Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WHE ELOY | (| • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E19Y — | U | | | | | | | | | | | | | | | | | | |
| WME ED | (| | | | | | | | | | | | | | | | | | |
| VMF-E3 — | U | • | • | | • | • | | | • | • | • | • | | | | | | | |
| VMF-E4DX — | (| | • | | • | • | | • | • | • | • | • | | | • | • | • | • | • |
| VINIT-E4UX — | U | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| VME FAV | (| • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • |
| VMF-E4X — | U | | • | • | | • | • | • | • | • | • | | • | | | | | | |
| VMF-IR — | (| | | | • | • | • | • | • | • | • | • | | • | • | | | | • |
| VIVIT-IK — | U | | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| VME CW | (| • | • | | • | • | • | • | • | | • | • | • | • | • | • | • | • | • |
| VMF-SW — | U | | • | | • | • | • | • | • | • | • | • | • | | | | | | |
| VME CW1 | C | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-SW1 — | U | | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| VME VCC | (| | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-YCC — | U | | • | • | • | • | • | • | • | | • | • | | | | | | | |
| VME VCCII | (| | | | | | | | | | | | | | | | | | |
| VMF-YCCH — | U | • | • | | • | | • | • | | | | | | | | | | | |

Additional heat only coil for only option "X" (without an electric heater and without a photocatalytic device)

| Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|--------|-----|-----|--------|-----|-----|
| (| BV122 | - | - | BV132 | - | - | BV142 | - | - | BV142 | - | - | BVZ800 | - | - | BVZ800 | - | - |
| U | BV122 | - | - | BV132 | - | - | BV142 | - | - | BV142 | - | - | - | - | - | - | - | - |

Combined adjustment and balancing valve

| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 |
|---------------------------|----------------------------|---|-----------|-----------------------|---|-----------------------|-----------------------|----------------------------------|-----------------------|
| | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF |
| Main coil | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 |
| | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM | VDP15HFM |
| | | VDP15HF | | | VDP15HF | | | VDP15HF | |
| Secondary coil | - | VDP15HF24 | - | - | VDP15HF24 | - | - | VDP15HF24 | - |
| | | VDP15HFM | | | VDP15HFM | | | VDP15HFM | |
| | VDP15HF | | | VDP15HF | | | VDP15HF | | |
| Additional coil "BV" | VDP15HF24 | - | - | VDP15HF24 | - | - | VDP15HF24 | - | - |
| | VDP15HFM | | | VDP15HFM | | | VDP15HFM | | |
| | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF | VDP15HF |
| | וווכו ועי | VUI IJIII | | | 101 13111 | | | | |
| Main coil | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 | VDP15HF24 |
| Main coil | | | | VDP15HF24 VDP15HFM | | VDP15HF24 VDP15HFM | VDP15HF24 VDP15HFM | VDP15HF24 VDP15HFM | VDP15HF24 VDP15HFM |
| Main coil | VDP15HF24 | VDP15HF24 | VDP15HF24 | | VDP15HF24 | | | | |
| Main coil Secondary coil | VDP15HF24 | VDP15HF24 VDP15HFM | VDP15HF24 | | VDP15HF24 VDP15HFM | | | VDP15HFM | |
| | VDP15HF24 | VDP15HF24 VDP15HFM VDP15HF | VDP15HF24 | | VDP15HF24 VDP15HFM VDP15HF | | | VDP15HFM VDP15HF | |
| | VDP15HF24 | VDP15HF24 VDP15HFM VDP15HF VDP15HF24 | VDP15HF24 | | VDP15HF24 VDP15HFM VDP15HF VDP15HF24 | | | VDP15HFM VDP15HF VDP15HF24 | |
| | VDP15HF24 VDP15HFM - | VDP15HF24 VDP15HFM VDP15HF VDP15HF24 | VDP15HF24 | VDP15HFM - | VDP15HF24 VDP15HFM VDP15HF VDP15HF24 | | VDP15HFM - | VDP15HFM VDP15HF VDP15HF24 | |

Valves combinations for main and secondary coil

3-way valve kit - main and secondary coil or accessory BV coil

| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | VCY41 | VCY41 | VCY41 | VCY42 |
| Main coil | VCY4124 | VCY4124 | VCY4124 | VCY4224 |
| Casandamissail | | VCY44 | |
| Secondary coil | - | VCY4424 | - | - | VCY4424 | |
| Additional coil "BV" | VCY44 | | |
| Additional coll BV | VCY4424 | | - | VCY4424 | - | |

2-way valve kit - main and secondary coil or accessory BV coil

| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-----------------------|---------|---------|---------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|
| Main coil | VCYD1 | VCYD1 | VCYD1 | VCYD2 | VCYD2 | VCYD2 |
| Maii Coii | VCYD124 | VCYD124 | VCYD124 | VCY224 | VCY224 | VCY224 |
| Ca a and a mu a a il | | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | |
| Secondary coil | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - |
| Additional cail//DW// | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | | | VCYD1 | | |
| Additional coil "BV" | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - | VCYD124 | - | - |

Valve support kit

Main coil VDP valve support kit.

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| KITVPI12 (1) | C,U | • | • | • | | | | | | | | | | | | | | | |
| VITVDI24 (2) | C | | | | • | • | • | • | | | • | • | • | • | | • | | • | • |
| KITVPI34 (2) | U | | | | | • | • | | | | | | | | | | | | |

⁽¹⁾ Connections Ø 1/2"
(2) Connections Ø 3/4"

Secondary coil VDP valve support kit.

| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 |
|----------------------|-----------|-----------|-----|-----------|-----------|-----|-----------|-----------|-----|-----------|-----------|-----|-----------|-----------|-----|
| Main coil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary coil | - | KITVPI12H | - |
| Additional coil "BV" | KITVPI12H | - | - |

| | 700 | 701 | 750 |
|----------------------|-----------|-----------|-----|
| Main coil | - | - | - |
| Secondary coil | - | KITVPI12H | - |
| Additional coil "BV" | KITVPI12H | - | - |

Ver

201

200

250

300

301

Connections ø 1/2"

Installation accessories

Plastic caps

Model

| BDP200 | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| BDP200 | U | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| Flange | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| DDV210 (1) | C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| BRY210 (1) | U | | • | • | • | • | • | • | • | | • | • | • | | | | | | |
| DDV212 (2) | C | | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| BRY212 (2) | U | | | | | | | | | | | | | | | | | | |

400

401

450

500

501

550

600

601

650

700

701

750

350

| DDV212 /2\ | (| • | • | • | • | • | • | • | • | • | • | • | • | | • | | • | • | • |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BRY212 (2) | U | | • | | • | • | | | • | | • | • | | | | | | | |
| DDV216 (2) | C | • | • | • | • | | | • | • | • | • | • | • | • | • | • | • | • | • |
| BRY216 (3) | U | | • | | • | • | • | • | • | • | • | | | | | | | | |
| DDV(220 (4) | C | • | • | | | | | • | • | | • | | | | • | | | | • |
| BRY220 (4) | U | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |

⁽¹⁾ Ø 100 mm (2) Ø 125 mm (3) Ø 160 mm (4) Ø 200 mm

Flange for the installation of the delivery grille GM

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GMY200C (1) | (| • | • | • | | | | | | | | | | | | | | | |
| GMY300C (1) | C | | | | • | • | • | | | | | | | | | | | | |
| GMY400C (1) | (| | | | | | | • | • | • | • | • | • | | | | | | |
| GMY600C (1) | (| | | | | | | | | | | | | • | • | | • | • | • |

⁽¹⁾ only for "C" version.

Flange for the installation of the grille GM17

| riunge for the | c mstanation | or tire g | inc or | **** | | | | | | | | | | | | | | | |
|----------------|--------------|-----------|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| GMYU (1) | U | | | • | | • | • | • | | • | | | | | | | | | |

⁽¹⁾ Only for "U" version with connections "G and D".

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|---------------------------|---------------------|------------------|-------------|------------|------------|------------|-----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| AFY100 (1) | U | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| (1) To be used with fan | coils supplied with | nout a filter ir | nstalled in | unit "X" a | nd in asso | ciation wi | th GM17 a | nd GMYU. | | | | | | | | | | | |
| Air deflector | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| DAYKIT | U | | • | • | • | | • | • | • | • | | | • | | | | | | |
| Brackets for cei | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 75 |
| AMPY (1) | U | | | | • | • | • | • | • | • | • | • | • | 000 | 001 | 030 | 700 | 701 | -/30 |
| (1) Only for "U" version. | | | | | | | | | | ı | | | | | | | | | |
| Condensate dis | charge dev | ice kit | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| DSC6 (1) — | (| • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | II. | | | | | | | | | | | | | | | | | | |

(1) Only for "L and R" connections.

Condensate drip

| | r | | | | | | | | | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
| DC0 (1) | (| • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| BC8 (1) | TI. | | | | | | | | | | | | | | | | | | |

⁽¹⁾ For horizontal installation.

Accessories in multiple packages

Hydraulic connection kit

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CHR12 (1) | C,U | • | • | • | | | | | | | | | | | | | | | |
| CUD24 (2) | C | | | | • | • | • | • | | • | • | • | • | • | • | | | • | • |
| CHR34 (2) | U | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Hydraulic connections Ø 1/2"
(2) Hydraulic connections Ø 3/4"

Half-size filter kit

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DFA2 | C,U | • | | • | | | | | | | | | | | | | | | |
| DFA3 | C,U | | | | • | • | • | | | | | | | | | | | | |
| DFA5 | C,U | | | | | | | • | • | • | • | • | • | | | | | | |
| DFA7 | (| | | | | | | | | | | | | • | • | | | | |

Protection for flange

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DDD | C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PPB - | U | | | | • | • | • | | | • | • | • | • | | | | | | |

PERFORMANCE DATA - FCY_C AND FCY_U (CONFIGURATION OF THE H NOZZLES) - 2 PIPES

2-pipe

| | | | FCY200C | | | FCY250C | | _ | FCY300C | | _ | FCY350C | | | FCY4000 | | _ | FCY450C | |
|---|---|--|---|---|--|--|--|--|--|--|---|--|--|--|---|--|--|---|---|
| | | 2 | 4 | 6 | 2 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 3 | 6 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | 1 | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 2,11 | 3,00 | 3,32 | 2,29 | 3,24 | 3,60 | 3,50 | 5,03 | 5,45 | 3,80 | 5,59 | 6,10 | 4,49 | 6,02 | 6,74 | 4,79 | 6,62 | 7,40 |
| Water flow rate system side | I/h | 182 | 258 | 285 | 197 | 179 | 310 | 301 | 433 | 469 | 327 | 481 | 524 | 386 | 517 | 580 | 412 | 569 | 637 |
| Pressure drop system side | kPa | 7 | 12 | 15 | 9 | 16 | 19 | 8 | 15 | 18 | 9 | 18 | 21 | 11 | 18 | 22 | 7 | 12 | 15 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,05 | 1,49 | 1,65 | 1,14 | 1,61 | 1,79 | 1,74 | 2,50 | 2,71 | 1,89 | 2,78 | 3,03 | 2,23 | 2,99 | 3,35 | 2,38 | 3,29 | 3,68 |
| Water flow rate system side | l/h | 160 | 224 | 248 | 196 | 277 | 308 | 299 | 430 | 466 | 325 | 478 | 521 | 383 | 514 | 576 | 409 | 566 | 633 |
| Pressure drop system side | kPa | 7 | 12 | 15 | 9 | 16 | 19 | 8 | 15 | 18 | 9 | 17 | 20 | 11 | 18 | 22 | 7 | 12 | 15 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,93 | 1,30 | 1,44 | 1,11 | 1,59 | 1,74 | 1,70 | 2,40 | 2,63 | 1,91 | 2,77 | 3,00 | 2,29 | 3,06 | 3,41 | 2,51 | 3,37 | 3,79 |
| Sensible cooling capacity | kW | 0,74 | 1,14 | 1,18 | 0,83 | 1,23 | 1,36 | 1,27 | 1,86 | 2,03 | 1,34 | 1,99 | 2,16 | 1,66 | 2,24 | 2,52 | 1,76 | 2,42 | 2,73 |
| Water flow rate system side | l/h | 160 | 224 | 248 | 191 | 273 | 299 | 292 | 413 | 452 | 328 | 476 | 516 | 394 | 526 | 586 | 432 | 580 | 652 |
| Pressure drop system side | kPa | 8 | 13 | 15 | 10 | 18 | 21 | 9 | 16 | 18 | 11 | 21 | 25 | 11 | 18 | 22 | 11 | 16 | 20 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor | type | | | | | | | | | Asynch | ronous | | | | | | | | |
| Air flow rate | m³/h | 148 | 226 | 254 | 148 | 226 | 254 | 263 | 404 | 446 | 263 | 404 | 446 | 346 | 487 | 559 | 346 | 487 | 559 |
| High static pressure | Pa | 21 | 50 | 63 | 21 | 50 | 63 | 21 | 50 | 61 | 21 | 50 | 61 | 25 | 50 | 66 | 25 | 50 | 66 |
| Sound power level (inlet + radiated) | dB(A) | 41,0 | 56,0 | 59,0 | 41,0 | 56,0 | 59,0 | 39,0 | 51,0 | 54,0 | 39,0 | 51,0 | 54,0 | 44,0 | 54,0 | 55,0 | 44,0 | 54,0 | 55,0 |
| Sound power level (outlet) | dB(A) | 37,0 | 52,0 | 55,0 | 37,0 | 52,0 | 55,0 | 35,0 | 47,0 | 49,0 | 35,0 | 47,0 | 49,0 | 40,0 | 50,0 | 52,0 | 40,0 | 50,0 | 52,0 |
| Input power | W | 28 | 41 | 74 | 28 | 41 | 74 | 38 | 55 | 78 | 38 | 55 | 78 | 53 | 63 | 102 | 53 | 63 | 102 |
| Water coil | | | | | | | | | | | | | | | | | | | |
| Water content | I | | 0,5 | | | 0,7 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,4 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | , | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |
| | | | FCVFOO | | | FCVFFAC | | | FCVCOOC | | | FCVCFAC | | | FCVZ00 | _ | | FCVTFAC | |
| | | 1 | FCY5000 5 | | 1 | FCY5500 5 | | 1 | FCY600C 4 | 7 | 1 | FCY6500 | 7 | 2 | FCY7000 | 7 | 2 | FCY750C 5 | 7 |
| | | - 1 | | 6 H | <u> </u> | M | 6 H | L | M | | <u> </u> | 4 M | H | L | | | | M | H |
| | | | | | | IVI | | | | п | l L | IVI | п | | | | | | |
| Heating performance 70 °C / 60 °C (1) | | L | IVI | - 11 | <u> </u> | | | L | IVI | | | | | | М | Н | L | IVI | |
| | LAM | L - C 27 | | | | | | | | | 7 () | | | | | | 10.02 | | |
| Heating capacity | kW | 5,27 | 7,22 | 7,59 | 5,81 | 8,25 | 8,67 | 6,86 | 8,55 | 10,00 | 7,63 | 9,72 | 11,51 | 8,77 | 10,10 | 10,52 | 10,02 | 11,65 | 12,09 |
| Water flow rate system side | l/h | 453 | 7,22 621 | 7,59 652 | 5,81 500 | 8,25 709 | 8,67 746 | 6,86 590 | 8,55 735 | 10,00 860 | 656 | 9,72 836 | 11,51 990 | 8,77 754 | 10,10 868 | 10,52 905 | 862 | 11,65 1002 | 12,09 1040 |
| Heating capacity Water flow rate system side Pressure drop system side | | | 7,22 | 7,59 | 5,81 | 8,25 | 8,67 | 6,86 | 8,55 | 10,00 | | 9,72 | 11,51 | 8,77 | 10,10 | 10,52 | - | 11,65 | 12,09 1040 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) | I/h kPa | 453 12 | 7,22 621 21 | 7,59 652 23 | 5,81 500 10 | 8,25 709 19 | 8,67 746 21 | 6,86 590 13 | 8,55 735 20 | 10,00 860 26 | 656 15 | 9,72 836 23 | 11,51 990 31 | 8,77 754 19 | 10,10 868 25 | 10,52 905 27 | 862 | 11,65 1002 15 | 12,09 1040 16 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 453 12 2,62 | 7,22 621 21 3,59 | 7,59 652 23 3,77 | 5,81 500 10 2,89 | 8,25 709 19 4,10 | 8,67 746 21 4,31 | 6,86 590 13 | 8,55 735 20 4,25 | 10,00 860 26 4,97 | 656 15 3,79 | 9,72 836 23 4,83 | 11,51 990 31 5,72 | 8,77 754 19 4,36 | 10,10 868 25 5,02 | 10,52 905 27 5,23 | 862 12 4,98 | 11,65 1002 15 5,79 | 12,09 1040 16 6,01 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa kW I/h | 453 12 2,62 451 | 7,22 621 21 3,59 617 | 7,59 652 23 3,77 648 | 5,81 500 10 2,89 497 | 8,25 709 19 4,10 705 | 8,67 746 21 4,31 741 | 6,86 590 13 3,41 586 | 8,55 735 20 4,25 731 | 10,00 860 26 4,97 855 | 656 15 3,79 652 | 9,72 836 23 4,83 831 | 11,51 990 31 5,72 984 | 8,77 754 19 4,36 750 | 10,10 868 25 5,02 863 | 10,52 905 27 5,23 899 | 862 12 4,98 856 | 11,65 1002 15 5,79 996 | 12,09 1040 16 6,01 1034 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW | 453 12 2,62 | 7,22 621 21 3,59 | 7,59 652 23 3,77 | 5,81 500 10 2,89 | 8,25 709 19 4,10 | 8,67 746 21 4,31 | 6,86 590 13 | 8,55 735 20 4,25 | 10,00 860 26 4,97 | 656 15 3,79 | 9,72 836 23 4,83 | 11,51 990 31 5,72 | 8,77 754 19 4,36 | 10,10 868 25 5,02 | 10,52 905 27 5,23 | 862 12 4,98 | 11,65 1002 15 5,79 | 12,09 1040 16 6,01 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) | I/h kPa kW I/h kPa | 453 12 2,62 451 12 | 7,22 621 21 3,59 617 21 | 7,59 652 23 3,77 648 23 | 5,81 500 10 2,89 497 10 | 8,25 709 19 4,10 705 | 8,67 746 21 4,31 741 21 | 6,86 590 13 3,41 586 | 8,55 735 20 4,25 731 | 10,00 860 26 4,97 855 25 | 656 15 3,79 652 15 | 9,72 836 23 4,83 831 23 | 11,51 990 31 5,72 984 31 | 8,77 754 19 4,36 750 | 10,10 868 25 5,02 863 25 | 10,52 905 27 5,23 899 27 | 862 12 4,98 856 12 | 11,65 1002 15 5,79 996 15 | 12,09 1040 16 6,01 1034 16 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | l/h kPa kW l/h kPa | 453 12 2,62 451 12 2,68 | 7,22 621 21 3,59 617 21 | 7,59 652 23 3,77 648 23 | 5,81 500 10 2,89 497 10 | 8,25 709 19 4,10 705 19 | 8,67 746 21 4,31 741 21 | 6,86 590 13 3,41 586 13 | 8,55 735 20 4,25 731 19 | 10,00 860 26 4,97 855 25 | 656 15 3,79 652 15 | 9,72 836 23 4,83 831 23 | 11,51 990 31 5,72 984 31 | 8,77 754 19 4,36 750 19 | 10,10 868 25 5,02 863 25 | 10,52 905 27 5,23 899 27 | 862 12 4,98 856 12 | 11,65 1002 15 5,79 996 15 | 12,09 1040 16 6,01 1034 16 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa kW W kW | 453 12 2,62 451 12 2,68 1,94 | 7,22 621 21 3,59 617 21 3,65 2,70 | 7,59 652 23 3,77 648 23 3,82 2,83 | 5,81 500 10 2,89 497 10 2,91 2,07 | 8,25 709 19 4,10 705 19 4,08 2,94 | 8,67 746 21 4,31 741 21 4,28 3,09 | 6,86 590 13 3,41 586 13 3,37 2,70 | 8,55 735 20 4,25 731 19 4,08 3,34 | 10,00 860 26 4,97 855 25 4,65 3,92 | 656 15 3,79 652 15 4,15 2,93 | 9,72 836 23 4,83 831 23 5,02 3,60 | 11,51 990 31 5,72 984 31 5,67 4,12 | 8,77 754 19 4,36 750 19 4,24 3,24 | 10,10 868 25 5,02 863 25 4,97 3,83 | 10,52 905 27 5,23 899 27 5,18 4,02 | 862 12 4,98 856 12 4,69 3,53 | 11,65 1002 15 5,79 996 15 5,53 4,20 | 12,09 1040 16 6,01 1034 16 5,80 4,41 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW I/h h | 453 12 2,62 451 12 2,68 1,94 461 | 7,22 621 21 3,59 617 21 3,65 2,70 628 | 7,59 652 23 3,77 648 23 3,82 2,83 657 | 5,81 500 10 2,89 497 10 2,91 2,07 500 | 8,25 709 19 4,10 705 19 4,08 2,94 702 | 8,67 746 21 4,31 741 21 4,28 3,09 736 | 6,86 590 13 3,41 586 13 3,37 2,70 580 | 8,55 735 20 4,25 731 19 4,08 3,34 702 | 10,00 860 26 4,97 855 25 4,65 3,92 800 | 656 15 3,79 652 15 4,15 2,93 714 | 9,72 836 23 4,83 831 23 5,02 3,60 863 | 11,51 990 31 5,72 984 31 5,67 4,12 975 | 8,77 754 19 4,36 750 19 4,24 3,24 729 | 10,10 868 25 5,02 863 25 4,97 3,83 855 | 10,52 905 27 5,23 899 27 5,18 4,02 891 | 862 12 4,98 856 12 4,69 3,53 807 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side | I/h kPa kW I/h kPa kW W kW | 453 12 2,62 451 12 2,68 1,94 | 7,22 621 21 3,59 617 21 3,65 2,70 | 7,59 652 23 3,77 648 23 3,82 2,83 | 5,81 500 10 2,89 497 10 2,91 2,07 | 8,25 709 19 4,10 705 19 4,08 2,94 | 8,67 746 21 4,31 741 21 4,28 3,09 | 6,86 590 13 3,41 586 13 3,37 2,70 | 8,55 735 20 4,25 731 19 4,08 3,34 | 10,00 860 26 4,97 855 25 4,65 3,92 | 656 15 3,79 652 15 4,15 2,93 | 9,72 836 23 4,83 831 23 5,02 3,60 | 11,51 990 31 5,72 984 31 5,67 4,12 | 8,77 754 19 4,36 750 19 4,24 3,24 | 10,10 868 25 5,02 863 25 4,97 3,83 | 10,52 905 27 5,23 899 27 5,18 4,02 | 862 12 4,98 856 12 4,69 3,53 | 11,65 1002 15 5,79 996 15 5,53 4,20 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW I/h kPa | 453 12 2,62 451 12 2,68 1,94 461 | 7,22 621 21 3,59 617 21 3,65 2,70 628 | 7,59 652 23 3,77 648 23 3,82 2,83 657 | 5,81 500 10 2,89 497 10 2,91 2,07 500 | 8,25 709 19 4,10 705 19 4,08 2,94 702 | 8,67 746 21 4,31 741 21 4,28 3,09 736 | 6,86 590 13 3,41 586 13 3,37 2,70 580 | 8,55 735 20 4,25 731 19 4,08 3,34 702 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 | 656 15 3,79 652 15 4,15 2,93 714 | 9,72 836 23 4,83 831 23 5,02 3,60 863 | 11,51 990 31 5,72 984 31 5,67 4,12 975 | 8,77 754 19 4,36 750 19 4,24 3,24 729 | 10,10 868 25 5,02 863 25 4,97 3,83 855 | 10,52 905 27 5,23 899 27 5,18 4,02 891 | 862 12 4,98 856 12 4,69 3,53 807 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | I/h kPa kW I/h kPa kW I/h kPa type | 453 12 2,62 451 12 2,68 1,94 461 | 7,22 621 21 3,59 617 21 3,65 2,70 628 | 7,59 652 23 3,77 648 23 3,82 2,83 657 | 5,81 500 10 2,89 497 10 2,91 2,07 500 | 8,25 709 19 4,10 705 19 4,08 2,94 702 | 8,67 746 21 4,31 741 21 4,28 3,09 736 | 6,86 590 13 3,41 586 13 3,37 2,70 580 | 8,55 735 20 4,25 731 19 4,08 3,34 702 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 | 656 15 3,79 652 15 4,15 2,93 714 16 | 9,72 836 23 4,83 831 23 5,02 3,60 863 | 11,51 990 31 5,72 984 31 5,67 4,12 975 | 8,77 754 19 4,36 750 19 4,24 3,24 729 | 10,10 868 25 5,02 863 25 4,97 3,83 855 | 10,52 905 27 5,23 899 27 5,18 4,02 891 | 862 12 4,98 856 12 4,69 3,53 807 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | kW I/h kPa kW I/h kPa type type | 453 12 2,62 451 12 2,68 1,94 461 13 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 | 656 15 3,79 652 15 4,15 2,93 714 16 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | I/h kPa kW I/h kPa kW I/h kPa type type m³/h | 453 12 2,62 451 12 2,68 1,94 461 13 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central Asynctics | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal arronous 567 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure | kW I/h kPa kW kW I/h kPa type type m³/h Pa | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central Asynch 920 71 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ironous 567 27 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) | I/h kPa kW I/h kPa kW I/h kPa type type m³/h | 453 12 2,62 451 12 2,68 1,94 461 13 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central Asynctics | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal arronous 567 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate | kW I/h kPa kW kW I/h kPa type type m³/h Pa | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central Asynch 920 71 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ironous 567 27 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) | kW I/h kPa kW I/h kPa type m³/h Pa dB(A) | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 | 8,67 746 21 4,31 741 21 4,28 3,09 736 23 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central 920 71 61,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal vironous 567 27 46,0 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,099 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) | kW I/h kPa kW I/h kPa type type m³/h Pa dB(A) dB(A) | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 51,0 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 51,0 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 54,0 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Centri Asynch 920 71 61,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ronous 567 27 46,0 44,0 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power | kW I/h kPa kW I/h kPa type type m³/h Pa dB(A) dB(A) | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 51,0 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 51,0 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 54,0 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Centri Asynch 920 71 61,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ronous 567 27 46,0 44,0 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,099 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Water coil | kW I/h kPa kW I/h kPa type type m³/h Pa dB(A) dB(A) | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 80 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 80 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 89 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Centri Asynch 920 71 61,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ronous 567 27 46,0 44,0 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 89 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,099 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Water coil Water content | kW I/h kPa kW I/h kPa type type m³/h Pa dB(A) dB(A) | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 80 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 80 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 89 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central 4,65 920 71 61,0 60,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ronous 567 27 46,0 44,0 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 89 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Fran Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Water coil Water content Diametre hydraulic fittings Main coil | I/h kPa kW I/h kPa kW I/h kPa type m³/h Pa dB(A) dB(A) W | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 80 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 80 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 89 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Central 4,65 920 71 61,0 60,0 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ironous 567 27 46,0 44,0 66 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 89 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Water coil Water content Diametre hydraulic fittings | I/h kPa kW I/h kPa kW I/h kPa type m³/h Pa dB(A) dB(A) W | 453 12 2,62 451 12 2,68 1,94 461 13 400 22 45,0 41,0 | 7,22 621 21 3,59 617 21 3,65 2,70 628 22 50 55,0 80 | 7,59 652 23 3,77 648 23 3,82 2,83 657 24 | 5,81 500 10 2,89 497 10 2,91 2,07 500 12 400 22 45,0 41,0 | 8,25 709 19 4,10 705 19 4,08 2,94 702 21 592 50 55,0 80 | 8,67 746 21 4,31 741 21 21 4,28 3,09 736 23 627 56 57,0 53,0 | 6,86 590 13 3,41 586 13 3,37 2,70 580 15 567 27 46,0 44,0 | 8,55 735 20 4,25 731 19 4,08 3,34 702 21 770 50 56,0 89 | 10,00 860 26 4,97 855 25 4,65 3,92 800 26 Centtr 4,970 61,0 60,0 118 | 656 15 3,79 652 15 4,15 2,93 714 16 ifugal ironous 567 27 46,0 44,0 66 | 9,72 836 23 4,83 831 23 5,02 3,60 863 23 770 50 56,0 54,0 89 | 11,51 990 31 5,72 984 31 5,67 4,12 975 28 | 8,77 754 19 4,36 750 19 4,24 3,24 729 20 785 32 54,0 52,0 | 10,10 868 25 5,02 863 25 4,97 3,83 855 26 978 50 60,0 59,0 | 10,52 905 27 5,23 899 27 5,18 4,02 891 28 | 862 12 4,98 856 12 4,69 3,53 807 12 785 32 54,0 52,0 | 11,65 1002 15 5,79 996 15 5,53 4,20 951 16 | 12,09 1040 16 6,01 1034 16 5,80 4,41 997 17 |

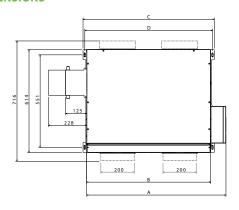
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
Refer to the selection software for performance data related to the different configurations.

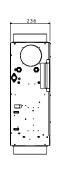
PERFORMANCE DATA FCY_C AND FCY_U (CONFIGURATION OF THE H NOZZLES) - 4 PIPES

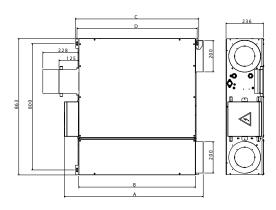
| | | | FCY201C | | | FCY3010 | : | | FCY401C | | | FCY501C | | | FCY601C | | | FCY7010 | |
|---------------------------------------|-------|------|---------|------|------|---------|------|------|---------|--------|--------|---------|------|------|---------|------|------|---------|------|
| | | 2 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 5 | 6 | 1 | 4 | 7 | 2 | 5 | 7 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | • | | | | • | | | • | | | • | | | | | | • | | |
| Heating capacity | kW | 1,06 | 1,37 | 1,48 | 1,82 | 2,39 | 2,55 | 2,19 | 2,75 | 2,99 | 2,59 | 3,30 | 3,34 | 3,13 | 3,85 | 4,35 | 4,13 | 4,40 | 4,60 |
| Water flow rate system side | l/h | 93 | 120 | 130 | 159 | 210 | 223 | 192 | 240 | 262 | 226 | 290 | 301 | 274 | 336 | 381 | 361 | 385 | 403 |
| Pressure drop system side | kPa | 5 | 8 | 9 | 8 | 12 | 14 | 5 | 7 | 8 | 6 | 9 | 9 | 9 | 13 | 16 | 16 | 15 | 17 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,93 | 1,30 | 1,44 | 1,70 | 2,40 | 2,63 | 2,29 | 3,06 | 3,41 | 2,68 | 3,65 | 3,82 | 3,37 | 4,08 | 4,65 | 4,24 | 4,97 | 5,18 |
| Sensible cooling capacity | kW | 0,74 | 1,14 | 1,18 | 1,27 | 1,86 | 2,03 | 1,66 | 2,24 | 2,52 | 1,94 | 2,70 | 2,83 | 2,70 | 3,34 | 3,92 | 3,24 | 3,83 | 4,02 |
| Water flow rate system side | l/h | 160 | 224 | 248 | 292 | 413 | 452 | 394 | 526 | 586 | 461 | 628 | 657 | 580 | 702 | 800 | 729 | 855 | 891 |
| Pressure drop system side | kPa | 8 | 13 | 15 | 9 | 16 | 18 | 11 | 18 | 22 | 13 | 22 | 24 | 15 | 21 | 26 | 20 | 26 | 28 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor | type | | | | | | | | | Asynch | ronous | | | | | | | | |
| Air flow rate | m³/h | 148 | 226 | 254 | 263 | 404 | 446 | 346 | 487 | 559 | 400 | 592 | 627 | 567 | 770 | 920 | 785 | 978 | 1050 |
| High static pressure | Pa | 21 | 50 | 63 | 21 | 50 | 61 | 25 | 50 | 66 | 22 | 50 | 56 | 27 | 50 | 71 | 32 | 50 | 58 |
| Sound power level (inlet + radiated) | dB(A) | 41,0 | 56,0 | 59,0 | 39,0 | 51,0 | 54,0 | 44,0 | 54,0 | 55,0 | 45,0 | 55,0 | 57,0 | 46,0 | 56,0 | 61,0 | 54,0 | 60,0 | 62,0 |
| Sound power level (outlet) | dB(A) | 37,0 | 52,0 | 55,0 | 35,0 | 47,0 | 49,0 | 40,0 | 50,0 | 52,0 | 41,0 | 51,0 | 53,0 | 44,0 | 54,0 | 60,0 | 52,0 | 59,0 | 61,0 |
| Input power | W | 28 | 41 | 74 | 38 | 55 | 78 | 53 | 63 | 102 | 49 | 80 | 96 | 66 | 89 | 118 | 92 | 117 | 138 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | | | | | | | | 1. | /2" | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
Refer to the selection software for performance data related to the different con-

DIMENSIONS







FCY-C

| Size | | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 600 | 601 | 650 | 700 | 701 | 750 |
|------------------------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | mm | 598 | 598 | 598 | 829 | 829 | 829 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1171 | 1171 | 1171 | 1171 | 1171 | 1171 |
| В | mm | 507 | 507 | 507 | 735 | 735 | 735 | 960 | 960 | 960 | 960 | 960 | 960 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 |
| (| mm | 550 | 550 | 550 | 781 | 781 | 781 | 1003 | 1003 | 1003 | 1003 | 1003 | 1003 | 1122 | 1122 | 1122 | 1122 | 1122 | 1122 |
| D | mm | 529 | 529 | 529 | 760 | 760 | 760 | 982 | 982 | 982 | 982 | 982 | 982 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Empty weight | kg | 19 | 20 | 21 | 23 | 24 | 26 | 31 | 32 | 33 | 31 | 32 | 33 | 41 | 43 | 46 | 41 | 43 | 46 |

FCY - U

| Size | | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 |
|------------------------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| A | mm | 647 | 647 | 647 | 878 | 878 | 878 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| В | mm | 508 | 508 | 508 | 739 | 739 | 739 | 960 | 960 | 960 | 960 | 960 | 960 |
| C | mm | 550 | 550 | 550 | 781 | 781 | 781 | 1003 | 1003 | 1003 | 1003 | 1003 | 1003 |
| D | mm | 529 | 529 | 529 | 760 | 760 | 760 | 982 | 982 | 982 | 982 | 982 | 982 |
| Empty weight | kg | 22 | 23 | 24 | 26 | 27 | 29 | 35 | 36 | 37 | 35 | 36 | 37 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCYI

Fan coil unit for ducted installations



- Plug and play installation only in horizontal
- Reduced dimensions
- Inspectable ventilation group





DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

They were designed and built for flush horizontal installation in any type of 2/4 pipe system and in combination with any heat generator, also at low temperatures.

Thanks to the availability of various versions and configurations, with a standard or oversized coil, it is easy to select the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional

They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

 Reversibility of the water connections during installation only for units with a main standard or oversized coil or standard with BV accessory. Not reversible in all other configurations.

Air filter

Where present, the Coarse 25% Class according to ISO16890 (G2 according to EN779) air filter, which is easy to remove and clean.

Condensate drip

In addition to the internal tray, all units are equipped with a **configurable external condensate collection tray** during installation.

The kit comprises a single element, which is made up of two pieces: the **tray** with a double drain to be installed on the right or left, and the **drip moulding**, which must be installed if mounting the valve kit and may not be used for installations without the valves with limited technical spaces.

Control

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|---------|--|
| 1,2,3,4 | FCYI |
| 5 | Size |
| | 2,3,4,5,7 |
| 6 | Main coil (1) |
| 0 | Standard |
| 5 | Oversized |
| 7 | Secondary coil |
| 0 | Without coil |
| 1 | Standard (2) |
| 8 | Version |
| C | Compact |
| U | Universal (3) |
| 9 | Connections |
| D | Water connections and electrical panel on the right |
| G | Water connections and electrical panel on the left |
| L | Hydraulic connections on the left and electric connections on the opposite side |
| R | Hydraulic connections on the right and electric connections on the opposite side |
| 10 | Options |
| Н | Electric heater (500W) (4) |
| P | With the photocatalytic device (4) |
| Х | No present |
| 11 | Filter |
| F | With air filter |
| X | No present |

Reversibility of the water connections during installation only for units with a main standard or oversized coil. They are not reversible for units with a secondary coil.
 Only for the standard main coil

SIZE AVAILABLE FOR VERSION

C version

| C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 | | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Size | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| Versions produced (by size) | | | | | | | | | | | | | | | |
| Versions available (by size) | • | • | • | | • | | • | | • | | • | • | • | • | • |
| Version U | | | | | | | | | | | | | | | |
| Size | | 200 | 201 | 250 | 300 | 301 | | 350 | 400 | 401 | 450 | 50 | 00 | 501 | 550 |
| Versions produced (by size) | | | | | | | | | | | | | | | |
| Versions available (by size) | | • | | • | | | | | • | | | | , | | |

INSTALLATION VERSIONS AND EXAMPLES

C: Compact version.

Compact structure with opposed intake and delivery lines, for an "H"shaped configuration.

The unit is provided without openings and without flanges, which can be purchased separately as an accessory.

The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air. On the side, it can house Ø 125 or 100 mm flanges for the intake of outside air for delivery.

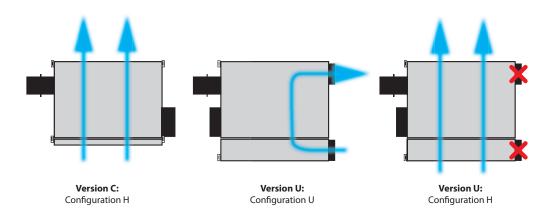
U: Universal version.

Structure for the "U" configuration with intake and delivery on the same side, opposite of the side with the water connections and the electrical box.

The unit is supplied with Ø 200 mm delivery and intake flanges.

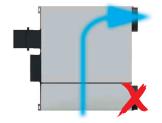
The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake or delivery flanges can be replaced by a \emptyset 125 or 100 mm flange for the intake of outside

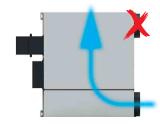
This version is called universal because it guarantees the possible installations permitted by the C version and adds additional possibilities.

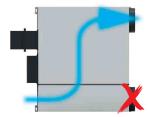


⁽³⁾ Only for sizes from 2 to 5(4) Options "P and H" are available only in units for 2-pipe systems.

POSSIBLE ALTERNATIVE CONFIGURATIONS OF THE U VERSION







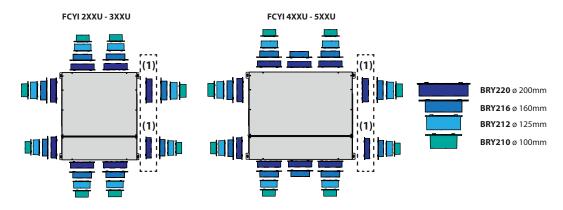
The performance data for the configurations shown here are equal to those for the U version in the U configuration.

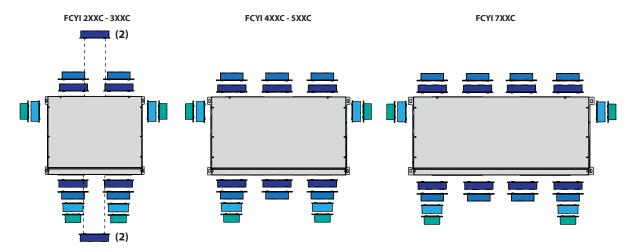
POSSIBLE POSITIONS FOR THE INSTALLATION OF THE BRY ACCESSORIES

In every unit it is possible to use a maximum of one flange accessory for the intake of outside air (BRY210 or BRY212). The number and position of the preparations for the installation of the BRY accessories varies based on the unit size and version.

The standard U version unit is supplied with 2 installed flanges (diameter 200 mm) in the U configuration.

The standard **C version unit is supplied without flanges**, which can be purchased separately as an accessory.





- 1 Accessories BRY220 supplied installed with the standard unit in the U version
- 2 There is a central preparation for the installation of an accessory BRY220 as an alternative to using the two more external preparations.

For the C version:it is necessary to use a number of recirculation air preparations at least equal to the maximum number possible for the size selected less 1.

Example: for FCY6xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

In both versions if the number of intake/delivery flanges used is less than the maximum possible for the considered size, their diameter must be 200 mm (BRY220).

Example: for FCYI7xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

For more information about the possible configurations for both versions, refer to the unit's selection software.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-E19Y: Thermostat to be fixed to the side of the fan coil, and fitted as standard with an air probe and water probe. Depending on the option chosen (P - X - H), the VMF-E19 must be completed with the compulsory electric completion unit accessory (VMF-YCC or VMF-YCCH).

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMF-YICC: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YICCH: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

Valves for main coil

VCY41 - 42 - for main coil: -

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

VDP15HF: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 230 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HF24: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 24 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HFM: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4'M water connections, a 24 V powered actuator with modulating function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

Valves for secondary coil

VCY44 - for the secondary coil: 3-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

Additional hot water coil.

BV: Single row hot water heat exchanger.

Valve support kit

KITVPI: Main coil VDP valve support kit. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

KITVPI12H: VDP valve support kit for the secondary coil. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

Installation accessories

BDP: 200 mm plug.

BRY: Flange with hydraulic "spigot" connection.

GMYC: Plate flange that makes it possible to install the accessory GM either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

AFY: the kit is comprised of a Coarse 25% class filter according to ISO16890 (G2 according to EN779) and four fastening brackets to insert in the grille GM17. To be used together with fan coils supplied without a filter installed in unit "X".

GMYU: Plate flange that makes it possible to install the accessory GM17 either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

DSC: Condensate drainage device.

BC: Condensate drip.

DAYKIT: Air deflector for U versions. To be installed in the delivery plenum, on the side opposite the air outlet, to facilitate the flow towards the delivery opening.

AMPY: Additional brackets for ceiling mount. Only for "U" version.

Accessories in multiple packages

DFA: Size of filter halved on the short side. The kit is comprised of two filters with a length equal to the standard filter and with half the height. This facilitates filter cleaning and/or replacement operations if there is a reduced space for vertical extraction. 20 piece package.

PPB: Protection for flanges to be used during installation to prevent dust from entering the unit before connecting the ducts. To be removed when making the connection. 100 piece package.

CHR12: Hydraulic connection kit for Ø 1/2" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 50 piece package

CHR34: Hydraulic connection kit for Ø 3/4" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 30 piece package.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AFDEONID (1) | C | | | | | | | | • | | • | | | • | | |
| AER503IR (1) | U | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| CAT (2) | C | | | | | | • | | | | | | • | • | | |
| SA5 (2) | U | | • | | | | | | | | | | • | | | |
| CW2 /2\ | C | • | • | • | • | • | | • | • | • | • | • | • | • | • | • |
| SW3 (2) | U | | • | | | | | | | | • | | • | | | |
| CML (3) | C | • | | • | • | • | | • | • | • | • | • | • | • | • | • |
| SW5 (2) | U | • | | | | | | | | | | | • | | | |
| TV (1) | C | • | | • | | • | | | | | | | | • | | • |
| TX (1) | U | • | • | • | • | • | • | • | | • | | | | | | |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E19Y | C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E19Y | U | | | | | | | | • | | | • | | | | |
| VME E2 | C | | • | | • | | • | • | | | | • | • | • | | • |
| VMF-E3 | U | • | • | | • | • | | • | • | | • | • | • | | | |
| VIME EADY | C | | • | | • | | | | | | • | • | • | | | • |
| VMF-E4DX | U | • | • | • | • | • | • | • | | | • | • | • | | | |
| WAS FAV | C | • | | | | • | | • | • | | • | | • | | | • |
| VMF-E4X | U | • | • | • | | • | • | | | • | • | | | | | |
| VALE ID | C | • | | • | | • | • | • | | | • | • | • | • | | • |
| VMF-IR | U | • | • | • | | | • | | | | • | | | | | |
| VME CW | C | • | • | • | | • | • | • | | • | • | | | • | • | • |
| VMF-SW | U | • | • | | | | • | | | | | | • | | | |
| VIME CIMA | C | • | • | | | • | • | • | | • | • | • | • | • | • | • |
| VMF-SW1 | U | • | • | • | | • | | • | | • | • | | • | | | |
| VIME VICE | C | • | • | • | | • | | • | | | • | | • | | | • |
| VMF-YICC | U | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| VME VICCII | C | • | | • | | • | | • | | | | | • | | | • |
| VMF-YICCH | U | | | | | | | | | | | | | | | |

Additional heat only coil for only option "X" (without an electric heater and without a photocatalytic device)

| | | | | <u> </u> | | | | | | | | | | | |
|-----|-------|-----|-----|----------|-----|-----|-------|-----|-----|-------|-----|-----|--------|-----|-----|
| Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| (| BV122 | - | - | BV132 | - | - | BV142 | - | - | BV142 | - | - | BVZ800 | - | - |
| Ш | RV122 | _ | - | RV132 | _ | - | RV142 | - | - | RV142 | - | _ | - | _ | _ |

Combined adjustment and balancing valve

| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | VDP15HF |
| Main coil | VDP15HF24 |
| | VDP15HFM |
| | | VDP15HF | | | VDP15HF | | | VDP15HF | |
| Secondary coil | - | VDP15HF24 | - | - | VDP15HF24 | - | - | VDP15HF24 | - |
| | | VDP15HFM | | | VDP15HFM | | | VDP15HFM | |
| | VDP15HF | | | VDP15HF | | | VDP15HF | | |
| Additional coil "BV" | VDP15HF24 | - | - | VDP15HF24 | - | - | VDP15HF24 | - | - |
| | VDP15HFM | | | VDP15HFM | | | VDP15HFM | | |
| | 500 | | 501 | 550 | | 700 | 701 | | 750 |
| | VDP15HF | | VDP15HF | VDP15HF | | VDP15HF | VDP15HF | | VDP15HF |
| Main coil | VDP15HF24 | | VDP15HF24 | VDP15HF24 | | VDP15HF24 | VDP15HF24 | | VDP15HF24 |
| | VDP15HFM | | VDP15HFM | VDP15HFM | | VDP15HFM | VDP15HFM | | VDP15HFM |
| | | | VDP15HF | | | | VDP15HF | | |
| Secondary coil | - | | VDP15HF24 | - | | - | VDP15HF24 | | - |
| | | | VDP15HFM | | | | VDP15HFM | | |
| | VDP15HF | | | | | VDP15HF | | | |
| | 101 10111 | | | | | | | | |
| Additional coil "BV" | VDP15HF24 | | - | - | | VDP15HF24 | - | | - |

Valves combinations for main and secondary coil

3-way valve kit - main and secondary coil or accessory BV coil

| 3-way varve kit - ilialii alia secolit | ury com | n acces | SUI Y DV | COII | | | | | | | | | | | |
|--|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| Main coil | VCY41 | VCY41 | VCY41 | VCY42 |
| Main Coil | VCY4124 | VCY4124 | VCY4124 | VCY4224 |
| Cocondonycoil | | VCY44 | | | VCY44 | | | VCY44 | | | VCY44 | | | VCY44 | |
| Secondary coil | - | VCY4424 | - | - | VCY4424 | - | - | VCY4424 | - | - | VCY4424 | - | - | VCY4424 | - |

| | | | 200 | 201 | 250 | 200 | 201 | 250 | 400 | 401 | 450 | 500 | E01 | | 700 | 701 | 750 |
|---|---|-----------------------------------|--------------------------------|--------------------------------|------------------|-------------------------|-----------------|-----------------|--------------------------------|-----------------|-----------------|-------------------------|-----------------|-----------------|-------------------------|-------------------------------|-----------------|
| Additional coil "BV" | | | 200 VCY44 VCY4424 | 201 | 250 | 300 VCY44 VCY4424 | 301 | 350 | 400 VCY44 VCY4424 | 401 | 450 | 500 VCY44 VCY4424 | 501 - | 550 | 700 VCY44 VCY4424 | <u>701</u> - | 750 - |
| | | | | | | | | | VC14424 | | | VC14424 | | | VC14424 | | |
| 2-way valve kit - | main and s | econda | ry coil c | | 250 250 | <i>coil</i> 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| Main coil | | | VCYD1 VCYD124 | 201 VCYD1 VCYD124 | VCYD1 VCYD124 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | VCYD2 VCY224 | 700 VCYD2 VCY224 | 701 VCYD2 VCY224 | VCYD2 VCY224 |
| Secondary coil | | | - | VCYD1 | - | - | VCYD1 | - | - | VCYD1 | - | - | VCYD1 | - | - | VCYD1 | - |
| Additional coil "BV" | | | VCYD1 | VCYD124 | | VCYD1 | VCYD124 | _ | VCYD1 | VCYD124 | _ | VCYD1 | VCYD124 | | VCYD1 | VCYD124 | _ |
| | | | VCYD124 | | | VCYD124 | | | VCYD124 | | | VCYD124 | | | VCYD124 | | |
| Valve support k | | | | | | | | | | | | | | | | | |
| Main coil VDP va | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 40 | 0 40 | 01 4 | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| KITVPI12 (1) KITVPI34 (2) | C,U C | • | • | • | | | • | | | • | | • | • | | • | • | • |
| (1) Connections Ø 1/2" | U | | | | • | • | • | • | | • | • | • | • | • | | | |
| (2) Connections Ø 3/4" | 00 | | .*. | | | | | | | | | | | | | | |
| Secondary coil VI | DP valve su | pport k | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| Main coil | | | | | | | | | | | | | | | | | |
| Secondary coil Additional coil "BV" | | | - KITVPI12H | KITVPI12H - | - | - KITVPI12H | KITVPI12H - | - | - KITVPI12H | KITVPI12H - | - | - KITVPI12H | KITVPI12H - | - | - KITVPI12H | KITVPI12H - | - |
| Connections ø 1/2 | 2" | | | | | | | | | | | | | | | | |
| Installation acc | essories | | | | | | | | | | | | | | | | |
| Plastic caps | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 40 | 0 40 | 01 4 | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| BDP200 — | C U | • | • | • | • | • | • | • | | | • | • | • | • | • | • | • |
| Flange | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 40 | | | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| BRY210 (1) —— | U | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| BRY212 (2) | C | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| | U | • | • | • | • | • | • | • | | • | • | • | • | • | | | |
| BRY216 (3) | C U | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| BRY220 (4) | C | • | • | • | • | • | • | | | | | | | • | • | • | • |
| (1) Ø 100 mm (2) Ø 125 mm (3) Ø 160 mm (4) Ø 200 mm | • | | | | • | • | | • | | - | - | • | - | - | | | |
| Flange for the ins | | | | | | 201 | 250 | 40 | n 44 | 01 4 | | F00 | F01 | FF0 | 700 | 701 | 750 |
| Model GMY200C (1) | Ver (| 200 | 201 | 250 | 300 | 301 | 350 | 40 | v 41 | 01 4 | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| GMY300C (1) | C | | | | • | • | • | | | | | | | | | | |
| CMV/400C (1) | (| | | | | | | • | | • | • | • | • | • | | | |
| GMY400C (1) | | | | | | | | | | | | | | | • | • | • |
| GMY600C (1) | (| | | | | | | | | | | | | | | | |
| | - | f the gr | ille GM | 17 | | | | | | | | | | | | | |
| GMY600C (1) (1) only for "C" version. Flange for the instance. Model | stallation o | f the gr 200 | <i>ille GM</i> 201 | 250 | 300 | 301 | 350 | 40 | 0 40 | 01 4 | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| GMY600C (1) (1) only for "C" version. Flange for the ins Model GMYU (1) | stallation o | 200 | | | 300 | 301 | 350 | 40 | | | 50 | 500 | 501 | 550 | 700 | 701 | 750 |
| GMY600C (1) (1) only for "C" version. Flange for the ins Model GMYU (1) | Ver U th connections "G | 200 • i and D". | 201 | 250 | | | | | | | | | | | 700 | 701 | 750 |
| GMY600C (1) (1) only for "C" version. Flange for the insomodel GMYU (1) (1) Only for "U" version with Coarse 25% class Model | Ver U th connections "G | 200 • i and D". | 201 | 250 | | | | | , | • | | | | | 700 | 701 | 750 750 |
| GMY600C (1) (1) only for "C" version. Flange for the ins Model GMYU (1) (1) Only for "U" version wi Coarse 25% class Model AFY100 (1) | Ver U th connections "G air filter ki Ver U | 200 • i and D". if t 200 | 201 | 250 | 300 | 301 | 350 | 40 | 0 40 | 01 4 | • | • | • | • | | | |
| GMY600C (1) (1) only for "C" version. Flange for the ins Model GMYU (1) (1) Only for "U" version wi Coarse 25% class Model AFY100 (1) (1) To be used with fan coi | Ver U th connections "G air filter ki Ver U | 200 • i and D". if t 200 | 201 | 250 | 300 | 301 | 350 | 40 | 0 40 | 01 4 | 50 | 500 | 501 | 550 | | | |
| GMY600C (1) (1) only for "C" version. Flange for the ins Model GMYU (1) (1) Only for "U" version wi Coarse 25% class Model AFY100 (1) | Ver U th connections "G air filter ki Ver U | 200 • i and D". if t 200 | 201 | 250 | 300 | 301 | 350 | 40 | D 41 | D1 4 | 50 | 500 | 501 | 550 | | | |

| Brackets | for | ceilina | mount. |
|-----------------|-----|---------|--------|
| | | | |

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AMPY (1) | U | • | • | • | • | • | • | | • | • | • | • | • | | | |

(1) Only for "U" version.

Condensate discharge device kit

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DSC6 (1) | C | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| עאכס (ו) | U | | | | • | • | | | • | • | | • | | | | |

⁽¹⁾ Only for "L and R" connections.

Condensate drip

| conachisate an | קיי | | | | | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| DC0 (1) | C | • | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| BC8 (1) | U | • | | | • | | | • | | | | | | | | |

 $^{(1) \ \} For \ horizontal \ installation.$

Accessories in multiple packages

Hydraulic connection kit

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CHR12 (1) | C,U | • | • | • | | | | | | | | | | | | |
| CUD24 (2) | C | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| CHR34 (2) | U | | | | | | • | | | | | | | | | |

⁽¹⁾ Hydraulic connections Ø 1/2"
(2) Hydraulic connections Ø 3/4"

Half-size filter kit

| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DFA2 | C,U | • | • | • | | | | | | | | | | | | |
| DFA3 | C,U | | | | • | | | | | | | | | | | |
| DFA5 | C,U | | | | | | | | | | • | • | | | | |
| DFA7 | C | | | | | | | | | | | | | • | • | • |

Protection for flange

| riotectionion | nunge | | | | | | | | | | | | | | | |
|---------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Ver | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| PPB | C | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| rrb | U | | | | | | | | | | | | | | | |

PERFORMANCE DATA - FCYI_C AND FCYI_U (H NOZZLES CONFIGURATION) 2 PIPES

| | | FCYI200C FCYI250C | | | | | | П | CY13000 | : | F | CY13500 | | | CYI400 | [| ı | CY1450 | C |
|--|-------------|-------------------|--------|-------------|------|--------|------|--------|---------|--------------|-------|---------|--------------|-------|--------|--------------|--------|--------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,81 | 3,16 | 3,34 | 2,01 | 3,40 | 3,62 | 3,08 | 4,83 | 5,23 | 3,32 | 5,43 | 5,83 | 3,96 | 5,85 | 6,34 | 4,10 | 6,44 | 6,96 |
| Water flow rate system side | I/h | 156 | 272 | 287 | 173 | 292 | 311 | 265 | 415 | 450 | 285 | 467 | 502 | 341 | 503 | 545 | 353 | 554 | 599 |
| Pressure drop system side | kPa | 6 | 13 | 16 | 7 | 17 | 19 | 7 | 14 | 16 | 7 | 17 | 19 | 9 | 17 | 19 | 5 | 12 | 13 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,57 | 1,66 | 1,00 | 1,69 | 1,80 | 1,53 | 2,40 | 2,60 | 1,65 | 2,70 | 2,90 | 1,97 | 2,91 | 3,15 | 2,04 | 3,20 | 3,46 |
| Water flow rate system side | l/h | 155 | 270 | 288 | 172 | 291 | 308 | 263 | 413 | 447 | 284 | 464 | 499 | 339 | 501 | 542 | 351 | 550 | 595 |
| Pressure drop system side | kPa | 6 | 13 | 16 | 7 | 17 | 19 | 7 | 14 | 16 | 7 | 17 | 19 | 9 | 17 | 19 | 5 | 12 | 13 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,80 | 1,37 | 1,45 | 0,95 | 1,67 | 1,76 | 1,40 | 2,38 | 2,53 | 1,66 | 2,70 | 2,88 | 2,03 | 2,98 | 3,21 | 2,22 | 3,28 | 3,55 |
| Sensible cooling capacity | kW | 0,63 | 1,13 | 1,20 | 0,70 | 1,29 | 1,37 | 1,10 | 1,82 | 1,94 | 1,15 | 1,94 | 2,07 | 1,45 | 2,18 | 2,36 | 1,54 | 2,35 | 2,56 |
| Water flow rate system side | l/h | 138 | 236 | 249 | 163 | 287 | 303 | 241 | 409 | 435 | 285 | 464 | 495 | 349 | 512 | 552 | 382 | 564 | 610 |
| Pressure drop system side | kPa | 5 | 14 | 16 | 8 | 19 | 21 | 7 | 15 | 17 | 9 | 21 | 23 | 9 | 13 | 20 | 8 | 16 | 18 |
| Fan | 2 | | | | | | | | | | | | | | | | | | |
| Air flow rate | m³/h | 123 | 240 | 257 | 123 | 240 | 257 | 225 | 390 | 424 | 225 | 390 | 424 | 300 | 470 | 515 | 300 | 470 | 515 |
| High static pressure | Pa | 13 | 50 | 57 | 13 | 50 | 57 | 16 | 50 | 59 | 16 | 50 | 59 | 20 | 50 | 60 | 20 | 50 | 60 |
| Sound power level (inlet + radiated) | dB(A) | 37,0 | 57,0 | 59,0 | 37,0 | 57,0 | 59,0 | 36,0 | 50,0 | 53,0 | 36,0 | 50,0 | 53,0 | 43,0 | 53,0 | 55,0 | 43,0 | 53,0 | 55,0 |
| Sound power level (outlet) | dB(A) | 33,0 | 53,0 | 55,0 | 33,0 | 53,0 | 55,0 | 32,0 | 47,0 | 49,0 | 32,0 | 47,0 | 49,0 | 39,0 | 49,0 | 52,0 | 39,0 | 49,0 | 52,0 |
| Input power | W | 7 | 27 | 31 | 7 | 27 | 31 | 10 | 30 | 40 | 10 | 30 | 40 | 14 | 38 | 48 | 14 | 38 | 48 |
| Diametre hydraulic fittings | | | 4 /2// | | | 4 /2// | | | 2/4// | | | 2/4// | | | 2/4// | | | 2/4// | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | 2201/ | FOLL | | | | | | | | |
| Power supply | | | | | | | | | | 2301 | ~50Hz | | | | | | | | |
| | | | FC\ | /1500C | | | | FCY155 | OC | | | FC | YI700C | | | | FCY175 | 00 | |
| | | 1 | | 2 | 3 | | 1 | 2 | | 3 | 1 | | 2 | 3 | | 1 | 2 | | 3 |
| T = 00 (50 05 (5) | | L | | М | Н | | L | М | | Н | L | | М | Н | | L | М | | Н |
| Heating performance 70 °C / 60 °C (1) | 1111 | | | | 7.40 | | F 00 | | | . =4 | | | | | | | 0.50 | | 40.45 |
| Heating capacity | kW | 5,39 | | 7,28 | 7,63 | | 5,92 | 8,37 | | 8,71 | 5,33 | | 8,34 | 8,88 | | 6,17 | 9,52 | | 10,15 |
| Water flow rate system side | I/h | 464 | | 626 | 656 | _ | 509 | 720 | | 749 | 468 | | 732 | 779 | _ | 541 | 835 | | 890 |
| Pressure drop system side | kPa | 12 | | 22 | 23 | | 11 | 20 | | 21 | 8 | | 17 | 20 | | 5 | 11 | | 12 |
| Heating performance 45 °C / 40 °C (2) | LAM | 2.00 | | 2.26 | 2.70 | | 2.04 | 410 | | 4 22 | 2.77 | | 4.15 | 4.40 | | 2.46 | 4.00 | | r 00 |
| Heating capacity | kW | 2,68 | | 3,26 | 3,79 | | 2,94 | 4,16 | | 4,33 | 2,67 | | 4,15 | 4,40 | _ | 2,46 | 4,69 | | 5,00 |
| Water flow rate system side | I/h | 461 | | 623 | 652 | | 506 | 715 | | 745 | 460 | | 720 | 767 | | 418 | 806 | | 860 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (3) | kPa | 12 | | 22 | 23 | | 12 | 22 | | 23 | 8 | | 18 | 20 | | 3 | 11 | | 12 |
| Cooling capacity | kW | 2,73 | | 3,68 | 3,84 | | 2,97 | 4,15 | | 4,31 | 2,20 | | 4,00 | 4,30 | | 2.60 | 4,41 | | 4,70 |
| Cooling capacity Sensible cooling capacity | kW | 1,98 | | 2,73 | 2,85 | | 2,97 | 2,98 | | 4,31 3,12 | 1,71 | | 4,00 3,00 | 3,20 | | 2,60 1,90 | 3,30 | | 3,50 |
| Water flow rate system side | I/h | 469 | | 2,73 633 | 660 | | 511 | 714 | | 3,12 741 | 378 | | 688 | 739 | | 447 | 760 | | 818 |
| Pressure drop system side | kPa | 13 | | 22 | 25 | | 13 | 22 | | 25 | 7 | | 18 | 20 | | 447 | 11 | | 12 |
| Fan | NI a | 13 | | 22 | | | נו | 22 | | 23 | 1 | | 10 | | | 7 | - 11 | | 12 |
| Air flow rate | m³/h | 410 | | 600 | 630 | | 410 | 600 | | 630 | 405 | | 730 | 799 | | 405 | 730 | | 799 |
| High static pressure | Pa | 23 | | 50 | 55 | | 23 | 50 | | 55 | 15 | | 50 | 60 | | 15 | 50 | | 60 |
| Sound power level (inlet + radiated) | dB(A) | 45,0 | | 56,0 | 57,0 | | 45,0 | 56,0 | | 57,0 | 38,0 | | 55,0 | 58,0 | | 38,0 | 55,0 | | 58,0 |
| Sound power level (outlet) | dB(A) | 42,0 | | 52,0 | 52,0 | | 42,0 | 52,0 | | 52,0 | 34,0 | | 51,0 | 54,0 | | 34,0 | 51,0 | | 54,0 |
| Input power | W W | 18 | | 50 | 60 | | 18 | 50 | | 60 | 21 | | 61 | 78 | | 21 | 61 | | 78 |
| Diametre hydraulic fittings | ** | 10 | | J0 | 00 | | 10 | 30 | | 30 | 41 | | VI. | - / 0 | | 41 | UI | | 70 |
| Main coil | Ø | | | | | | | | | 3, | /4" | | | | | | | | |
| Power supply | v | | | | | | | | | 31 | • | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |
| (1) Room air temperature 20 °C d h · Water (in/out) | 70.05/50.05 | | | | | | | | | | | | | | | | | | |

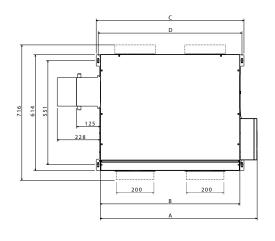
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
Refer to the selection software for performance data related to the different configurations.

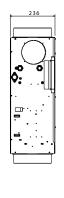
PERFORMANCE DATA FCYI_C AND FCYI_U (H NOZZLES CONFIGURATION) 4 PIPES

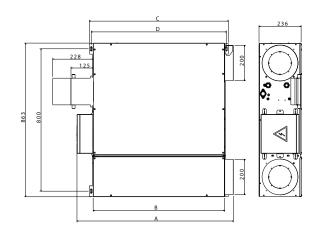
| | | | FCYI201C | | | FCYI301C | | | FCYI401C | | | FCYI501C | | | FCYI701C | |
|---------------------------------------|-------|------|----------|------|------|----------|------|------|----------|------|------|----------|------|------|----------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | M | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,94 | 1,42 | 1,49 | 1,60 | 2,34 | 2,47 | 1,99 | 2,69 | 2,85 | 2,62 | 3,59 | 3,45 | 2,99 | 3,70 | 3,92 |
| Water flow rate system side | I/h | 81 | 122 | 128 | 138 | 201 | 212 | 171 | 231 | 245 | 225 | 309 | 297 | 257 | 318 | 337 |
| Pressure drop system side | kPa | 4 | 9 | 9 | 6 | 12 | 13 | 4 | 7 | 8 | 6 | 9 | 9 | 8 | 12 | 13 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,80 | 1,37 | 1,45 | 1,40 | 2,38 | 2,53 | 2,03 | 2,98 | 3,21 | 2,73 | 3,68 | 3,84 | 2,20 | 4,00 | 4,30 |
| Sensible cooling capacity | kW | 0,63 | 1,13 | 1,20 | 1,10 | 1,82 | 1,94 | 1,45 | 2,18 | 2,36 | 1,98 | 2,73 | 2,85 | 1,71 | 3,00 | 3,20 |
| Water flow rate system side | l/h | 138 | 236 | 249 | 241 | 409 | 435 | 349 | 512 | 552 | 469 | 633 | 660 | 378 | 688 | 739 |
| Pressure drop system side | kPa | 5 | 14 | 16 | 7 | 15 | 17 | 9 | 13 | 20 | 13 | 22 | 25 | 7 | 18 | 20 |
| Fan | | | | | | | | | | | | | | | | |
| Air flow rate | m³/h | 123 | 240 | 257 | 225 | 390 | 424 | 300 | 470 | 515 | 410 | 600 | 630 | 405 | 730 | 799 |
| High static pressure | Pa | 13 | 50 | 57 | 16 | 50 | 59 | 20 | 50 | 60 | 23 | 50 | 55 | 15 | 50 | 60 |
| Sound power level (inlet + radiated) | dB(A) | 37,0 | 57,0 | 59,0 | 36,0 | 50,0 | 53,0 | 43,0 | 53,0 | 55,0 | 45,0 | 56,0 | 57,0 | 38,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 33,0 | 53,0 | 55,0 | 32,0 | 47,0 | 49,0 | 39,0 | 49,0 | 52,0 | 42,0 | 52,0 | 52,0 | 34,0 | 51,0 | 54,0 |
| Input power | W | 7 | 27 | 31 | 10 | 30 | 40 | 14 | 38 | 48 | 18 | 50 | 60 | 21 | 61 | 78 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | | | | | | | 1/2" | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | 230V~50H | Z | | | | | | |

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
Refer to the selection software for performance data related to the different configurations.

DIMENSIONS







FCYI - C

| 7611 6 | | | | | | | | | | | | | | | | |
|------------------------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| Size | | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 | 700 | 701 | 750 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | mm | 598 | 598 | 598 | 829 | 829 | 829 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1171 | 1171 | 1171 |
| В | mm | 507 | 507 | 507 | 735 | 735 | 735 | 960 | 960 | 960 | 960 | 960 | 960 | 1080 | 1080 | 1080 |
| C | mm | 550 | 550 | 550 | 781 | 781 | 781 | 1003 | 1003 | 1003 | 1003 | 1003 | 1003 | 1122 | 1122 | 1122 |
| D | mm | 529 | 529 | 529 | 760 | 760 | 760 | 982 | 982 | 982 | 982 | 982 | 982 | 1100 | 1100 | 1100 |
| Empty weight | kg | 19 | 20 | 21 | 23 | 24 | 26 | 31 | 32 | 33 | 31 | 32 | 33 | 41 | 43 | 46 |

FCYI - U

| Size | | 200 | 201 | 250 | 300 | 301 | 350 | 400 | 401 | 450 | 500 | 501 | 550 |
|------------------------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| A | mm | 647 | 647 | 647 | 878 | 878 | 878 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| В | mm | 508 | 508 | 508 | 739 | 739 | 739 | 960 | 960 | 960 | 960 | 960 | 960 |
| (| mm | 550 | 550 | 550 | 781 | 781 | 781 | 1003 | 1003 | 1003 | 1003 | 1003 | 1003 |
| D | mm | 529 | 529 | 529 | 760 | 760 | 760 | 982 | 982 | 982 | 982 | 982 | 982 |
| Empty weight | kg | 22 | 23 | 24 | 26 | 27 | 29 | 35 | 36 | 37 | 35 | 36 | 37 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCZ P - PO

Fan coil unit for ducted installations

Cooling capacity 0,65 ÷ 7,62 kW Heating capacity 1,45 ÷ 17,02 kW



- Very quiet
- Suitable for duct-type installations too
- Total comfort: reduced variations in temperature and relative humidity
- · Vertical and horizontal installation





DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main coil, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

In the PPC version, air purification is guaranteed by the Cold Plan

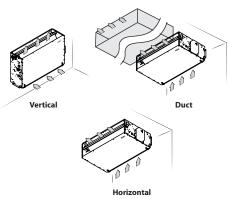
In the PPC version, air purification is guaranteed by the Cold Plasma purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in

the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.

VERSIONS

Flush-mounting and duct-type versions



FCZ_P

— Flush-mounting

FCZ PPC

Flush-mounting with Cold Plasma purifier

FCZ PO

- Flush-mounting, duct-type
- With useful head.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|-------|---|
| 1,2,3 | FCZ |
| 4 | Size 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| 5 | Main coil |
| 0 | Standard |
| 5 | Oversized |
| 6 | Secondary coil |
| 0 | Without coil |

| Field | 1 | Description |
|-------|-----|---|
| | 1 | Standard |
| | 2 | Oversized |
| 7 | | Version |
| | Р | Flush-mounting, without cabinet |
| | P0 | Flush-mounting, with boosted motor |
| | POR | Flush-mounting, with boosted motor, with water connections on right-hand side |
| | PPC | Flush-mounting with Cold Plasma purifier |
| | PR | Flush-mounting, without cabinet, with water connections on right-hand side |

SIZE AVAILABLE FOR VERSION

| Size | | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|--------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| Versions produced | (by size) | | | | | | | | | | | | | | | | | | | | |
| Varriana available | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Versions available | PO,POR | - | - | - | - | | • | • | • | • | | • | | • | • | • | • | | • | | • |
| (by size) | PPC | • | - | | • | • | - | - | • | • | - | - | • | • | - | - | • | • | - | - | • |
| Size | | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 | | | |
| Versions produced | (by size) | | | | | | | | | | | | | | | | | | | | |
| V!!! | P,PR | • | • | | • | • | • | • | • | • | • | • | • | • | | • | • | • | | | |
| Versions available | PO,POR | | • | • | • | • | • | • | • | - | - | - | - | • | • | • | - | - | | | |
| (by size) | PPC | | - | - | | • | - | - | • | • | - | - | • | • | - | • | • | - | | | |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PXAI: Thermostat on the machine for controlling the fan coils (both with asynchronous and brushless motors), complete with water and air probes to be positioned in the relative seats, and a plastic support to fix it on the side of the unit. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, purifier devices (Cold Plasma and germicidal lamp), or radiant plate.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Single row hot water heat exchanger.

RX: Armoured electric coil with safety thermostat.

PCR: Galvanised plate protection for the controls and the electrical element.

Installation accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

BC: Condensate drip.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

MZA: Cabinet housing with fixed fins.

MZU: Cabinet housing with adjustable fins.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

PA: Intake plenum in galvanised sheet metal, complete with suction couplings for circular-section ducts.

PAF: Intake plenum providing recovery and delivery on the same side, for all installations where the machine needs to be positioned outside the air conditioned rooms to minimise the noise levels and facilitate maintenance.

PM: Delivery plenum with circular flanges. Sandwich structure in hot galvanised steel, with interposed polyurethane foam (40 kg/m3). The

panel is 15 mm thick. It is installed in place of the delivery panel with a rectangular flange, using the same 4 self-threading screws.

RD: Straight delivery coupling for canalisation.

RDA: Straight suction coupling for canalisation.

RP: 90° delivery coupling. **RPA:** 90° suction coupling.

Accessories for ducting

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDA_C: Straight intake connection with circular flanges.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM_C: Straight discharge internally insulated, with circular flanges.

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|--------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | P,PR | | | | | | | | | | | | | | | | | | | | |
| AER503IR (1) | PO,POR | | | | | | • | • | • | • | | • | • | • | • | • | • | • | • | • | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | | | | • |
| | P,PR | | • | • | • | | • | • | • | • | • | • | | • | | • | • | • | • | | • |
| PR0503 | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | | • | | | • |
| | P,PR | • | • | | | | • | | • | | | | • | • | • | • | | | | • | |
| PXAI | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SA5 (2) | PO,POR | | | | | • | • | • | | • | • | • | • | | • | • | • | • | • | • | |
| | PPC | | | | • | | | | | | | | • | • | | | • | | | | • |
| | P,PR | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | PO,POR | | | | | | • | • | • | • | | • | • | • | • | • | • | | • | • | |
| | PPC | | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 (2) | PO,POR | | | | | | • | | | | | • | • | • | • | | • | | • | • | • |
| | PPC | | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | • | | • | | | • | • | • | | | | | • | • | • | • | | | • | |
| TX (1) | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | | • | | | • | • | | | • | • | | | • | • | | | |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | |
| WMT05 (1) | PO,POR | | | | | • | • | • | • | • | • | • | • | | • | • | | | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • |
| WMT06 (1) | PO,POR | | | | | | • | | • | • | | • | | | | | • | | • | | |
| | PPC | • | | | • | | | | • | | | | | • | | | • | • | | | |
| | P,PR | | | | • | | • | | | | | | • | | | • | | • | | • | |
| WMT10 (1) | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • |
| | PPC | | | | | | | | | | | | | | | | | | | | |

| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
|--------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | P,PR | • | • | • | | • | • | • | | • | | • | • | | • | • | | • |
| AER503IR (1) | PO,POR | • | | • | | | | • | | | | | | | | • | | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | • | | |
| | P,PR | • | | • | • | • | • | • | • | • | | • | | | • | • | | • |
| PR0503 | PO,POR | | | • | • | • | • | • | | | | | | | • | • | | |
| | PPC | • | | | • | • | | | • | • | | | • | | | • | • | |
| | P,PR | • | | | • | • | • | • | • | • | • | • | | | • | • | | • |
| PXAI | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | PPC | • | | | • | • | | | • | • | | | | | | • | | |
| | P,PR | • | | • | • | • | | • | • | • | • | • | • | | | • | | |
| SA5 (2) | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | PPC | • | | | • | | | | • | • | | | • | | | | | |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | PO,POR | | | | • | | | | • | | | | | | | | | |
| | PPC | • | | | • | | | | | | | | • | | | • | | |
| | P,PR | • | • | | • | • | • | | • | • | • | • | | | • | | • | • |
| SW5 (2) | PO,POR | | | | • | | | | • | | | | | | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | • | • | |
| | P,PR | | | | | | | | | | • | | | | | | • | |
| TX (1) | PO,POR | • | • | • | • | | • | | • | | | | | • | • | • | | |
| | PPC | | | | | | | | | | | | | | | | • | |
| | P,PR | | • | | | | | | • | | | | | | | | | • |
| WMT05 (1) | PO,POR | | | | • | • | • | | • | | | | | | | • | | |
| | PPC | | | | | | | | • | | | | | | | | | |
| | P,PR | | | | • | • | • | | • | | • | • | | | • | • | | |
| WMT06 (1) | PO,POR | | | | | | | • | | | | | | | | | | |
| | PPC | | | | • | • | | | | • | | | | • | | • | • | |
| | P,PR | | | | | | | | | • | | | | | | | | • |
| WMT10 (1) | PO,POR | • | | • | | • | | • | | | | | | • | | • | | |
| . , | PPC | • | | | | • | | | • | • | | | | | | | | |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

For more information about VMF system, refer to the dedicated documentation.

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|-------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | P,PR | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | |
| VMF-E0X (1) | PO,POR | | | | | | • | • | • | • | • | • | | • | • | • | • | • | • | | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | | | | • |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E19 (1) | PO,POR | | | | | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E3 | PO,POR | | | | | • | • | • | • | | • | | • | | • | • | • | • | | • | • |
| | PPC | • | | | | • | | | • | • | | | • | | | | • | • | | | |
| | P,PR | | | • | | • | | | | | • | | • | | • | | • | | | • | |
| VMF-E4DX | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4X | PO,POR | | | | | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-IR | PO,POR | | | | | • | • | | • | | • | • | • | • | • | • | | | • | • | • |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | P,PR | • | | | | | | | | | | | | | | | | | | | |
| VMF-SW | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| | PPC | • | | | | | | | | | | | | | | | | | | | |
| | P,PR | | | • | | • | | • | • | • | • | | • | | • | • | • | • | • | • | |
| VMF-SW1 | PO,POR | | | | | • | | | | • | | | • | | • | | • | | • | • | |
| | PPC | | | | | | | | | | | | • | | | | | | | | |

| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
|-------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | P,PR | • | • | | | • | | | | • | | • | | | | | | • |
| VMF-E0X (1) | PO,POR | • | | | • | • | | | • | | | | | | • | • | | |
| | PPC | • | | | | • | | | • | • | | | | • | | • | | |
| | P,PR | • | | | | | | | | • | | | | • | | • | | • |
| VMF-E19 (1) | PO,POR | • | | | | | | | | | | | | | | | | |
| | PPC | • | | | | | | | • | • | | | • | • | | • | • | |
| | P,PR | • | | | | | | | | • | • | | | | | | | |
| VMF-E3 | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | PPC | • | | | • | | | | | • | | | • | • | | • | • | |
| | P,PR | • | | | • | • | | | • | • | | • | | | • | • | | • |
| VMF-E4DX | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | PPC | • | | | • | • | | | • | | | | • | • | | • | • | |
| | P,PR | • | • | | • | | • | | • | • | • | | • | • | • | | • | |
| VMF-E4X | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | PPC | | | | | | | | | | | | | | | | | |
| | P,PR | • | • | • | • | | • | • | • | | • | | • | • | • | • | • | • |
| VMF-IR | PO,POR | | | | • | | • | | | | | | | | | | | |
| | PPC | • | | | • | | | | • | | | | • | • | | | • | |
| | P,PR | | • | | • | | • | | | | • | | • | | | | • | |
| VMF-SW | PO,POR | | • | • | • | | • | • | • | | | | | | • | | | |
| | PPC | • | | | • | • | | | • | | | | • | • | | • | • | |
| | P,PR | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | |
| VMF-SW1 | PO,POR | • | • | • | • | | • | • | • | | | | | • | • | | | |
| | PPC | • | | - | • | • | - | - | | • | | | • | • | | • | • | |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Water valves

3 way valve kit

| 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|---------|---|---|---|--|---|---|--|--|---------|---------|---------|---------|---|---------|---------|
| VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 |
| VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 |
| | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | |
| - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - |
| VCF44 | | | | VCF44 | | | | VCF44 | | | | VCF44 | | | |
| VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - |
| | | | | | | | | | | | | | | | |
| 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 |
| VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 |
| | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | |
| - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - |
| VCF44 | | | | VCF44 | | | | VCF44 | | | | VCF44 | | | |
| VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4424 | - | - | - |
| | | | | | | | | | | | | | | | |
| 900 | 901 | 950 | 1000 | 1001 | | | | | | | | | | | |
| VCZ43 | VCZ43 | VCZ43 | VCZ43 | VCZ43 | | | | | | | | | | | |
| VCZ4324 | VCZ4324 | VCZ4324 | VCZ4324 | VCZ4324 | | | | | | | | | | | |
| | VCF45 | | | VCF45 | | | | | | | | | | | |
| - | VCF4524 | - | - | VCF4524 | | | | | | | | | | | |
| VCF45 | | | VCF45 | | | | | | | | | | | | |
| VCF4524 | - | - | VCF4524 | - | | | | | | | | | | | |
| | VCZ41 VCZ4124 - VCF44 VCF4424 500 VCZ42 VCZ4224 - VCF44 VCF4424 900 VCZ43 VCZ4324 - VCZ4324 - VCZ4324 - VCF45 | VCZ41 VCZ41 VCZ4124 VCZ4124 VCF4424 VCF4424 VCF4424 SOO SO1 VCZ42 VCZ422 VCZ4224 VCZ4224 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCZ432 VCZ432 VCZ432 VCZ4324 VCZ4324 VCZ4324 VCZ432 VCZ4324 VCZ432 VCZ4324 VCZ452 VCF45 VCF45 | VCZ41 VCZ41 VCZ4124 VCZ4124 VCZ4124 VCZ4124 VCZ4124 VCZ4124 VCF44 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4224 VCZ42 VCZ42 VCZ422 VCZ4224 VCZ4224 VCZ4224 VCF4224 VCF4424 VC | VCZ41 VCZ41 VCZ41 VCZ41 VCZ4124 VCZ4224 VCZ42424 VCZ4224 VCZ4324 VCZ43 | VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ4124 VCZ424 VCZ424 VCZ424 VCZ424 VCZ422 VCZ42 VCZ42 VCZ422 VCZ422 VCZ422 VCZ4224 VCZ4324 VCZ4324 | VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ412 VCZ4124 VCZ424 VCZ424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ4224 VCF4424 VCF4424 | WCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ4124 VCF4424 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ422 VCZ4224 VCF4424 VCF4424 <th< td=""><td>VCZ41 VCZ41 VCZ4124 VCF4424 VCZ42 VCZ422 VCZ422 VCZ4224 VCF4424 VCF442</td><td> VCZ41</td><td> VCZ41</td><td> VCZ41</td><td> VCZ41</td><td> WCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ422 VCZ422 VCZ4224 VCZ4224</td><td> VCZ41</td><td> VCZ41</td></th<> | VCZ41 VCZ4124 VCF4424 VCZ42 VCZ422 VCZ422 VCZ4224 VCF4424 VCF442 | VCZ41 | VCZ41 | VCZ41 | VCZ41 | WCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ422 VCZ422 VCZ4224 VCZ4224 | VCZ41 | VCZ41 |

| 2 way valve kit | t | | | | | | | | | | | | | | | | |
|----------------------|-----------------|------------------|----------|---------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Main coil | | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD2 |
| | | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD224 |
| Secondary coil | | - | VCFD4 | VCFD4 | - | - | VCFD4 | VCFD4 | _ | - | VCFD4 | VCFD4 | - | _ | VCFD4 | VCFD4 | - |
| | | VICED 1 | VCFD424 | VCZD424 | | LICED 4 | VCFD424 | VCZD424 | | LICED 1 | VCFD424 | VCFD424 | | ucen. | VCFD424 | VCFD424 | |
| Additional coil "BV" | | VCFD4 | - | - | - | VCFD424 | - | - | - | VCFD4 | - | - | - | VCFD424 | - | - | - |
| | | VCFD424 | | | | VCFD424 | | | | VCFD424 | | | | VCFD424 | | | |
| | | 500 | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 |
| | | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 | VCZD2 |
| Main coil | | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 | VCZD224 |
| Ca samdamı sail | | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | |
| Secondary coil | | | VCFD424 | VCFD424 | | | VCFD424 | VCFD424 | | - | VCFD424 | VCFD424 | | | VCFD424 | VCFD424 | - |
| Additional coil "BV" | | VCFD4 | _ | _ | _ | VCFD4 | _ | _ | _ | VCFD4 | _ | _ | | VCFD4 | _ | _ | |
| Additional Con DV | | VCFD424 | | | | VCFD424 | | | | VCFD424 | | | | VCFD424 | | | |
| | | | | | | | - | | | | | | | | | | |
| | | 900 | 901 | 950 | 1000 | 1001 | _ | | | | | | | | | | |
| Main coil | | VCZD3 | VCZD3 | VCZD3 | VCZD3 | VCZD3 | | | | | | | | | | | |
| | | VCZD324 | VCZD324 | VCZD324 | VCZD324 | VCZD324 | - | | | | | | | | | | |
| Secondary coil | | - | VCFD4 | - | - | VCFD424 | | | | | | | | | | | |
| | | VCEDA | VCFD424 | | VCED4 | VCFD424 | - | | | | | | | | | | |
| Additional coil "BV" | | VCFD4 VCFD424 | - | - | VCFD4 VCFD424 | - | | | | | | | | | | | |
| | | VCFD424 | | | VCFD424 | | | | | | | | | | | | |
| Valve Kit for 4 | pipe systems | - Requi | res a th | ermosto | at with | valve n | nanage | ment | | | | | | | | | |
| Model | Ver | 100 | 101 1 | 02 150 | 200 | 201 | 202 2 | 50 300 | 301 | 302 | 350 4 | 00 401 | 402 | 450 | 500 5 | 01 502 | 2 550 |
| VCZ1X4L (1) | P,PPC,PR | • | | • | • | | | • | | | | | | | | | |
| VCZ 1A4L (1) | PO,POR | | | | • | | | • | | | | | | | | | |
| VCZ1X4R (1) | P,PPC,PR | • | | • | • | | | • | | | | | | | | | |
| VCL 1/411 (1) | PO,POR | | | | • | | | • | | | | | | | | | |
| VCZ2X4L (1) | P,PO,POR,PPC,PR | | | | | | | • | | | • | • | | • | • | | • |
| VCZ2X4R (1) | P,PO,POR,PPC,PR | | | | | | | • | | | • | • | | • | • | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 8 | 00 8 | 01 80 | 2 850 | 900 | 901 | 950 | 1000 | 1001 |
| VC72V4L (1) | P,PPC,PR | | | | | | | | | | | | | | | | |
| VCZ2X4L (1) | PO.POR | | | | | | | | | | | | | | | | |

Combined Adjustment and Balancing Valve Kit

PO,POR P,PPC,PR

PO,POR P,PPC,PR

PO,POR P,PPC,PR

PO,POR

VCZ2X4R (1)

VCZ3X4L (1)

VCZ3X4R (1)

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | |
| VJP060 (1) | PO,POR | | | | | • | • | • | • | • | • | • | | | | | | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | | | | | | | | |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | |
| VJP060M (2) | PO,POR | | | | | • | • | • | • | • | | • | | | | | | | | | |
| | PPC | • | | | • | | | | • | | | | • | | | | | | | | |
| VID000 (1) | P,PO,POR,PR | | | | | | | | | | | | | • | | • | • | | • | • | • |
| VJP090 (1) | PPC | | | | | | | | | | | | | • | | | • | | | | • |
| VIDOOM (2) | P,PO,POR,PR | | | | | | | | | | | | | • | • | • | • | • | • | • | |
| VJP090M (2) | PPC | | | | | | | | | | | | | • | | | • | | | | • |
| Model | Ver | 600 | 601 | 602 | 2 (| 550 | 700 | 701 | 702 | 750 | 8 | 00 | 801 | 802 | 850 | 900 | 90 | 1 9 | 950 | 1000 | 1001 |
| | | | | | | | | | | | | | | | | | | | | | |
| VID000 (1) | P,PO,POR,PR | • | • | • | | • | | | | | | | | | | | | | | | |
| VJP090 (1) | P,PO,POR,PR PPC | • | • | • | | • | | | | | | | | | | | | | | | |
| | | | • | • | | | | | | | | | | | | | | | | | |
| VJP090 (1) | PPC | • | | | | | | | | | | | | | | | | | | | |
| | PPC P,PO,POR,PR | • | | | | | • | • | • | • | | • | • | • | • | | | | • | • | • |
| | PPC P,PO,POR,PR PPC | • | • | • | | • | • | • | • | • | | | • | • | • | • | • | | • | • | • |
| VJP090M (2) | PPC P,PO,POR,PR PPC P,PR | • | • | • | | • | | | | | | • | • | • | • | | | | | • | • |
| VJP090M (2) | PPC P,PO,POR,PR PPC P,PR PO,POR | • | • | • | | • | • | | | • | | | • | • | | • | | | • | | • |
| VJP090M (2) | PPC P,PO,POR,PR PPC P,PR PO,POR PPC | • | • | • | | • | • | • | • | • | | • | | | • | • | • | | | | |

^{(1) 230}V~50Hz (2) 24V

 $^{(1) \ \} The \ valves \ can \ be \ combined \ with \ the \ units \ if \ there \ is \ a \ control \ panel \ for \ managing \ them.$

(Heating only) additional coil

Heating only additional coil

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|-------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|
| BV117 (1) | P,PR | • | | | | | | | | | | | | | | | | | | | |
| BV122 (1) | P,PO,POR,PR | | | | | • | | | | | | | | | | | | | | | |
| BV132 (1) | P,PO,POR,PPC,PR | | | | | | | | | • | | | | | | | | | | | |
| BV142 (1) | P,PO,POR,PPC,PR | | | | | | | | | | | | | • | | | | • | | | |
| Model | Ver | 600 | 601 | 602 | 2 6 | 50 | 700 | 701 | 702 | 750 | Q | 00 | 801 | 802 | 850 | 900 | 90 | | 50 | 1000 | 1001 |
| | | | | | | | | | 702 | 750 | 01 | 00 | 0U I | 002 | 030 | 700 | 90 | . , | '30 | 1000 | |
| DV1.C2 /1\ | P,PR | | | | | | | | 702 | 750 | 01 | JU | 001 | 002 | 030 | • | 90 | , | 750 | • | |
| BV162 (1) | | | | | | | | | 702 | 750 | 01 | JU | 001 | 002 | 830 | | 90 | , | 750 | • | |
| BV162 (1) BVZ800 (1) | P,PR | • | | | | | • | | 702 | 750 | 01 | • | 001 | 002 | 830 | • | 90 | , | | • | |

⁽¹⁾ Not available for sizes with oversized main coil.

Electric coil - Requires a thermostat with heater management. Not available for sizes with an oversized main coil.

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 |
|------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|
| RX17 (1) | P,PR | • | | | | | | | | | | | | | | | | |
| RX22 (1) | P,PO,POR,PR | | | | | | | | | | | | | | | | | |
| RX32 (1) | P,PO,POR,PPC,PR | | | | | | | | | • | | | | | | | | |
| RX42 (1) | P,PO,POR,PPC,PR | | | | | | | | | | | | | • | | | | |
| RX52 (1) | P,PO,POR,PPC,PR | | | | | | | | | | | | | | | | | • |
| Model | Ver | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 |
| RX62 (1) | P,PO,POR,PPC,PR | | | | | | | | | | | | | | | | | |
| DV7000 (1) | P,PPC,PR | | | | | | | | • | | | | | | | | | |
| RXZ800 (1) | PO,POR | | | | • | | | | • | | | | | | | | | |
| Model | Ver | | | 950 | 0 | | | | | 1000 | | | | | | 1001 | | |
| RX62 (1) | P,PR | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

⁽¹⁾ It requires a thermostat with heater management and the units without a housing also require the PCR1 or PCR2 accessory, depending on the unit. The heater is not available for sizes with a larger main battery.

Galvanised plate protection for the controls and the electrical element.

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 |
|-------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|
| PCR1 | P,PO,POR,PR | • | | | | • | | | | • | | | | • | | | | • |
| Model | Ver | 501 | 502 | 550 | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 |
| PCR1 | P,PO,POR,PR | | | | • | | | | • | | | | • | | | | | |
| PCR2 | P,PO,POR,PR | | | | | | | | | | | | | | | | • | |
| Model | Ver | | | 950 |) | | | | | 1000 | | | | | | 1001 | | |
| PCR2 | P,PO,POR,PR | | | | | | | | | | | | | | | | | |

Installation accessories

Wall mounting kit

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|-------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| | P,PR | | • | | | | | | | | | | | | | • | | | | | • |
| AMP20 | PO,POR | | | | | | • | • | | • | | | | • | | • | • | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| Model | Ver | 600 | 601 | 602 | 2 6 | 550 | 700 | 701 | 702 | 750 | 80 | 0 | 801 | 802 | 850 | 900 | 90 | 1 | 950 | 1000 | 1001 |
| | | | | | | | | | | ,,,, | - 00 | • | 001 | 002 | 050 | | | | | | |
| | P,PR | • | | | | | • | • | • | • | • | | • | • | • | • | • | | • | • | • |
| AMPZ | P,PR PO,POR | • | • | • | | | • | • | • | • | • | | • | • | • | • | • | | | • | • |

Condensate drip

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|----------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| BCZ4 (1) | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | PPC | • | | | • | | | | • | • | | | | • | | | • | | | | • |
| | Р | | | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | |
| DC7E (2) | PO,POR | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| BCZ5 (2) | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | | | • |
| | PR | • | | • | • | • | • | • | • | | • | | • | • | • | • | • | • | • | • | • |

| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | 0 | 1000 | 1001 |
|--|--|---|---|---|------------------------|-----------------------|---|--|---|---|------------|---------|----------------------------------|---------|---------------------|---------|-----|---------|------|
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | • | • |
| CZ4 (1) | PO,POR | | | • | | | | | | | | | | | | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | • | | | |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | |
| SCZ5 (2) | PO,POR | • | • | • | • | • | • | • | • | | | | | | | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | | | | | | |
| | P,PR | | | | | | | | | | | | | • | • | • | | • | • |
| SCZ6 (2) | PO,POR | | | | | | | | | | | | | • | • | • | | | |
| | PPC | | | | | | | | | | | | | • | | | | • | |
| For vertical ins For horizontal i | | | | | | | | | | | | | | | | | | | |
| Aodel | Ver | 100 | 101 | 102 1 | 150 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 55 |
| iouei | P,PR | • | • | | | . 201 | | | • | | . 330 | +00 | +01 | +02 | +30 | • | | | |
| C8 (1) | PO,POR | | | - | • | • | • | • | • | • • | | • | • | • | • | • | • | • | |
| (1) | PPC | | | | | | | • | • | | • | • | | | • | • | | | |
| | | | | | | 700 | 704 | | | | 204 | | 050 | | | | | 4000 | 400 |
| Model | Ver P,PR | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | 0 | 1000 | 100 |
| SC8 (1) | PO,POR | • | · · | • | • | • | • | • | • | • | • | • | • | | | | | | |
| ico (1) | PPC | <u> </u> | | <u>·</u> | · · | • | | <u> </u> | · | | | | • | | | | | | |
| | P,PR | • | | | | - | | | • | - | | | - | | | | | | |
| IC9 (1) | PO,POR | | | | | | | | | | | | | · | • | • | | | |
| (•) | PPC | | | | | | | | | | | | | • | - | | | | |
| 1) For horizontal i | | | | | | | | | | | | | | | | | | | |
| | recirculation de | ovico | | | | | | | | | | | | | | | | | |
| | | | 101 | 102 1 | 150 300 | 201 | 202 | 250 | 200 | 201 20 |) 250 | 400 | 401 | 402 | AFO | EOO | EV1 | Enz | |
| Model | Ver P,PR | 100 | 101 | | | 201 | 202 | 250 | 300 | 301 30 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 55 |
| OSCZ4 (1) | PO,POR | • | • | • | • • | • | • | • | · | • • | | • | · | · | • | • | • | · | |
| J3CZ4 (1) | PPC | | | | | • | • | ·- | ÷ | • • | | · | | • | ÷ | ÷ | • | • | |
| | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | | 1000 | 100 |
| | P,PR | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | | • | • |
| | 00.000 | | | | | | | | | | | | | | | | | | |
| DSCZ4 (1) | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | | |
| | PPC | | | | • | • | | | • | • | | | • | • | • | • | | • | |
| | | | | | • | • | | | • | | collection | trays. | • | | • | | | • | |
| | PPC e mounted if even just on | | | | • | • | e VCZ1-2 | | • | | collection | trays. | • | | • | | | • | |
| 1) DSC4 cannot b | PPC e mounted if even just on forma Ver | e of these a | | s is also inst | • | • AMPZ valv | | | • | | | trays. | 401 | | 450 | | | 502 | 55 |
| 1) DSC4 cannot be Ventilcassa: Model | PPC e mounted if even just on forma Ver P,PR | e of these | accessorie | s is also inst | • talled: AMP - | • AMPZ valv | e VCZ1-2 | -3-4 X4L/F | • R and all ti | ne condensate | | | | • | , | • | | | 55 |
| 1) DSC4 cannot by /entilcassar Model | PPC e mounted if even just on forma Ver P,PR PPC | e of these a | accessorie | s is also inst | talled: AMP - | • AMPZ valv | e VCZ1-2 | -3-4 X4L/F | • R and all ti | ne condensate | | | | • | , | • | | | 55 |
| 1) DSC4 cannot b | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR | e of these a | accessorie | s is also inst | • talled: AMP - | • AMPZ valv | e VCZ1-2 | 3-4 X4L/f | • R and all ti | ne condensate | | | | • | , | • | | | 55 |
| 1) DSC4 cannot be Ventilcassar Model CHF17 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC PPC | e of these a | accessorie | s is also inst | • talled: AMP - | AMPZ valv | e VCZ1-2 | 3-4 X4L/F 250 | R and all th | 301 30 | 2 350 | | | • | , | • | | | 55 |
| 1) DSC4 cannot be when the control of the control o | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR | e of these a | accessorie | s is also inst | • talled: AMP - | AMPZ valv | e VCZ1-2 | 3-4 X4L/f | 300 | ne condensate | 2 350 | | | • | , | • | | | 55 |
| 1) DSC4 cannot be when the control of the control o | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC | e of these a | accessorie | s is also inst | • talled: AMP - | AMPZ valv | e VCZ1-2 | 3-4 X4L/f | R and all th | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | |
| 1) DSC4 cannot b /entilcassar Model CHF17 CHF22 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR | e of these a | accessorie | s is also inst | • talled: AMP - | AMPZ valv | e VCZ1-2 | 3-4 X4L/f | 300 | 301 30 | 2 350 | 400 | | • | 450 | 500 | | | |
| 1) DSC4 cannot be fentile as said odel CHF17 CHF22 CHF32 CHF42 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC | e of these a | 101 | s is also inst | talled: AMP - | AMPZ valv | e VCZ1-2- | 250 | 300 | 301 30. | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | |
| 1) DSC4 cannot be Ventilcassar Model CHF17 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver | e of these a | accessorie | s is also inst | • talled: AMP - | AMPZ valv | e VCZ1-2 | 3-4 X4L/f | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | |
| 1) DSC4 cannot b Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR | 100 · · · · · · · · · · · · · · · · · · | 101 | s is also inst | talled: AMP - | AMPZ valv | 202 | 250 • • • • • • • • • • • • • • • • • • • | 300 | 301 30. | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 100 |
| 1) DSC4 cannot b Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR | 100 · · · · · · · · · · · · · · · · · · | 101 • | 102 1 · | talled: AMP - 150 200 | . AMPZ valv 201 | e VCZ1-2- 202 • | 250 • • | 300 | 301 303 303 303 303 303 303 303 303 303 | 2 350 | 400 | | 402 | 450 | | | . 1000 | 100 |
| 1) DSC4 cannot be fentile as said odel HF17 HF22 HF32 HF42 Model | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR | 100 · · · · · · · · · · · · · · · · · · | 101 • | 102 1 · · · · · · · · · · · · · · · · · · | talled: AMP - 150 200 | . AMPZ valv 201 . | 202 | 250 • • • • • • • • • • • • • • • • • • • | 300 | 301 30. | 2 350 | 400 | 401 • | 402 | 450 | | | 502 | 555 |
| 1) DSC4 cannot be //entilcassar Model CHF17 CHF22 CHF32 CHF42 Model | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC | 100 | 101 • | 102 1 · · · · · · · · · · · · · · · · · · | talled: AMP - 150 200 | . AMPZ valv 201 | 202 | 250 • • • • • • • • • • • • • • • • • • • | 300 | 301 303 303 303 303 303 303 303 303 303 | 2 350 | 400 | | 402 | 450 | | | . 1000 | 100 |
| 1) DSC4 cannot be /entilcassar Model HF17 HF22 HF32 HF42 Model HF62 Cabinet hou | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PO,POR PPC Ver P,PR PO,POR PPC Vsising with fixed in | 600 | 101 · · · · · · · · · · · · · · · · · · | 102 1 · · · · · · · · · · · · · · · · · · | 650 | 700 . | 202 | 250 | 750 | 800 . | 801 | | | 900 | | | | | 1000 |
| 1) DSC4 cannot be //entilcassar Model CHF17 CHF22 CHF42 Model CHF62 Cabinet how Model | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC | 100 | 101 • | 102 1 | talled: AMP - 150 200 | 700 . | 202 | 250 • • • • • • • • • • • • • • • • • • • | 300 | 301 303 303 303 303 303 303 303 303 303 | 801 | 400 | | 402 | 450 | | | . 1000 | 1000 |
| 1) DSC4 cannot be Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model CHF62 Cabinet how Model MZA100 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PO,POR PPC Ver P,PR PO,POR PPC Using with fixed in Ver | 600 | 101 • 601 • 101 | 102 1 | 650 | 700 . | 202 | 250 | 750 | 800 . | 801 | | | 900 | | | | | 1000 |
| 1) DSC4 cannot be Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model CHF62 Cabinet how MOdel MZA100 MZA200 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in Ver P,PPC,PR | 600 | 101 • 601 • 101 | 102 1 | 650 | 700 | 202 | 250 | 750 | 800 . | 801 | | | 900 | | | | | 1000 |
| 1) DSC4 cannot be Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model MCA100 MCA200 MCA300 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in the fix | 600 | 101 • 601 • 101 | 102 1 | 650 | 700 | 202 | 250 | 750 | 800 | 801 | | | 900 | | | | | 1000 |
| 1) DSC4 cannot be sent leaves and sent leaves | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ising with fixed in P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR | 600 | 601 · · · · · · · · · · · · · · · · · · · | 602 | 650 | 700 | 701 | 702 | 750 · · · · · · · · · · · · · · · · · · · | 800 | 801 | 400 | 850 | | | | 501 | | 1000 |
| 1) DSC4 cannot be seemed to be | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC ver P,PR PO,POR PPC Ver P,PPC,PR | 600 600 600 | 601 601 | 602 | 650 | 700 201 | 701 | 702 | 750 750 | 800 | 2 350 | 400 | 850 | 900 | 901 | 95500 | 501 | | 1000 |
| 1) DSC4 cannot be sentile as a | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ising with fixed in P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR | 600 | 601 · · · · · · · · · · · · · · · · · · · | 602 | 650 | 700 | 701 | 702 | 750 · · · · · · · · · · · · · · · · · · · | 800 | 801 | 400 | 850 | 900 | 901 450 | | 501 | | 555 |
| 1) DSC4 cannot be /entilcassar Model CHF17 CHF22 CHF32 CHF42 Model MZA100 MZA200 MZA300 MZA500 MOdel MZA800 MOdel MZA800 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC ver P,PR PO,POR PPC Ver P,PPC,PR | 600 600 600 | 601 601 | 602 | 650 | 700 201 | 701 | 702 | 750 750 | 800 | 2 350 | 400 | 850 | | | | 501 | | 555 |
| 1) DSC4 cannot b Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model CHF62 Model MZA100 MZA200 MZA300 MZA500 MZA900 MZA900 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ising with fixed in P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR P,PPC,PR | 600 | 601 | 602 | 650 | 700 201 | 701 | 702 | 750 750 | 800 | 2 350 | 400 | 850 | 900 | 901 450 | | 501 | | 555 |
| 1) DSC4 cannot b Ventilcassar Model CHF17 CHF22 CHF32 CHF42 Model CHF62 Model MZA100 MZA200 MZA300 MZA500 MZA900 MZA900 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in Ver P,PPC,PR | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 750 | 800 | 801 | 400 | 850 | 900 | 901 450 | | 501 | | 555 |
| 1) DSC4 cannot be left for the | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ising with fixed in PPC,PR P,PPC,PR P | 600 | 101 · · · · · · · · · · · · · · · · · · | 602 | 650 | 700 | 701 · · · · · · · · · · · · · · · · · · · | 702 | 750 | 800 | 801 | 400 | 401 | 900 | 450 | 500 | 501 | | 1000 |
| 1) DSC4 cannot be sentile as a same sentile as a | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in PPC,PR P,PPC,PR P | 600 | 101 | 602 | 650 | 700 | 701 · · · · · · · · · · · · · · · · · · · | 702 | 750 | 800 | 801 | 400 | 401 | 900 | 450 | 500 | 501 | | 555 |
| 1) DSC4 cannot be left for the | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in PPC,PR P,PC,PR | 600 | 101 | 602 | 650 | 700 201 201 201 201 | 701 · · · 202 · · · · · · · · · · · · · · · | 702 | 750 | 800 | 801 | 400 | 401 | 900 | 450 | 500 | 501 | | 555 |
| 1) DSC4 cannot by fentilcass and fen | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Using with fixed in PPC,PR P,PC,PR | 600 | 101 | 602 | 650 | 700 201 201 201 201 | 701 · · · 202 · · · · · · · · · · · · · · · | 702 | 750 | 800 | 801 | 400 | 401 | 900 | 450 | 500 | 501 | | 555 |
| 1) DSC4 cannot be lentilcassaria Model HHF17 HHF22 HHF42 Model HHF62 Cabinet hou MAZA200 MAZA200 MAZA300 MAZA500 MOdel MZA900 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ising with fixed is Ver P,PPC,PR | 600 | 101 · · · · · · · · · · · · · · · · · · | 602 | 650 650 | 700 201 - 700 201 201 | 701 · · · · · · · · · · · · · · · · · · · | 702 | 750 · · · · · · · · · · · · · · · · · · · | 800 | 2 350 | 400 | 401 850 401 401 | | 450 901 450 450 | 500 | 501 | 502 | 555 |
| I) DSC4 cannot b //entilcassar //odel HHF17 HHF22 HHF32 HHF42 //odel AZA100 AZA200 AZA200 AZA300 AZA500 //AZA500 | PPC e mounted if even just on forma Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC Ver P,PR PO,POR PPC ver P,PR PO,POR PPC ver P,PPC,PR | 600 | 101 | 602 | 650 | 700 201 201 201 201 | 701 · · · 202 · · · · · · · · · · · · · · · | 702 | 750 | 800 | 801 | 400 | 401 | 402 | 450 | 500 | 501 | | 555 |

Wall mounting and duct type installation accessories

| Lower | intake | arille |
|-------|--------|--------|
| | | |

| Lower intal | ke grille | | | | | | | | | | | | | | | | | | |
|---------------|---------------------|----------|----------|----------|----------|----------|-----|-----|----------|----------|-------|-----|----------|----------|----------|----------|-----|----------|------|
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| GA17 | P,PR | • | • | | | | | | | | | | | | | | | | |
| UA17 | PPC | • | | | • | | | | | | | | | | | | | | |
| GA22 | P,PO,POR,PR | | | | • | • | • | • | | | | | | | | | | | _ |
| UNZZ | PPC | | | | • | | | • | | | | | | | | | | | |
| GA32 | P,PO,POR,PR | | | | | | | | • | | • | | | | | | | | |
| UNJZ | PPC | | | | | | | | • | | • | | | | | | | | |
| GA42 | P,PO,POR,PR | | | | | | | | | | | • | • | • | • | • | • | • | • |
| UA42 | PPC | | | | | | | | | | | ٠ | | | • | ٠ | | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | 0 1 | 1000 | 1001 |
| | P,PR | • | • | • | • | • | • | • | | • | • | • | | • | • | • | | | • |
| GA62 | PO,POR | | | | | | | | | | | | | | | | | | |
| | PPC | • | | | • | • | | | | • | | | | • | | • | | | |
| | | | | | - | | | | | | | | | | | | | | |
| Intake grill | es with fixed lou | vers an | d filte | r | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| CAF17 | P,PR | • | • | | | | | | | | | | | | | | | | |
| GAF17 | PPC | | | | • | | | | | | | | | • | | | | | |
| C1522 | P,PO,POR,PR | | | | • | | • | | | | | | | | | | | | |
| GAF22 | PPC | | | | | | | | | | | | | | | | | | |
| C1500 | P,PO,POR,PR | | | | | | | | • | | | | | | | | | | |
| GAF32 | PPC | | | | | | | | | | | | | | | | | | |
| **** | P,PO,POR,PR | | | | | | | | | | | | | | | | | | |
| GAF42 | PPC | | | | | | | | | | | | | | • | | | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | Λ 1 | 1000 | 1001 |
| Model | P,PR | • | • | • | • | | | 102 | 730 | • | • | | • | • | 701 | • | | • | • |
| GAF62 | PO,POR | <u>:</u> | <u>:</u> | <u> </u> | <u> </u> | ·- | ÷ | ÷ | <u> </u> | • | • | • | • | ÷ | <u>:</u> | | | • | • |
| UNI UZ | PPC | <u> </u> | | | <u> </u> | ·- | • | • | · | | | | | <u> </u> | | | | | |
| | rrc | <u> </u> | | | <u> </u> | <u> </u> | | | <u> </u> | <u> </u> | | | <u> </u> | <u> </u> | | <u> </u> | | <u> </u> | |
| Delivery ar | illes with adjusto | able loi | uvers | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| | P,PR | • | • | | | 201 | 202 | 230 | 300 | 301 30 | 2 330 | 100 | 701 | 702 | 730 | 300 | 301 | 302 | 330 |
| GM17 | PPC | • | <u> </u> | | • | | | | | | | | | | | | | | |
| | P,PO,POR,PR | | | | • | | • | | | | | | | | | | | | |
| GM22 | PPC | | | | • | | | • | | | | | | | | | | | |
| | P,PO,POR,PR | | | | | | | | | | | | | | | | | | |
| GM32 | PPC | | | | | | | | ·- | • | • | | | | | | | | |
| | | | | | | | | | • | | • | | | - | | | | | |
| GM42 | P,PO,POR,PR | | | | | | | | | | | • | • | • | • | • | • | • | • |
| | PPC | | | | | | | | | | | • | | | • | • | | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | 0 1 | 1000 | 1001 |
| | P,PR | ٠ | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • |
| GM62 | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | | |
| | PPC | • | | | • | • | | | • | ٠ | | | • | • | | • | | • | |
| | | | | | | | | | | | | | | | | | | | |
| | um in sheet met | | | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| PA17 | P,PR | • | • | • | • | | | | | | | | | | | | | | |
| | PPC | • | | | • | | | | | | | | | | | | | | |
| PA22 | P,PO,POR,PR | | | | • | ٠ | ٠ | • | | | | | | | | | | | |
| 1722 | PPC | | | | • | | | • | | | | | | | | | | | |
| PA32 | P,PO,POR,PR | | | | | | | | • | | • | | | | | | | | |
| 1 11 12 | PPC | | | | | | | | • | | • | | | | | | | | |
| | P,PO,POR,PR | | | | | | | | | | | • | • | | | | | | |
| DAAO | | | | | | _ | | | | | | | | | | | | | |
| PA42 | PPC | | | | | | | | | | | | | | <u> </u> | | | | |
| | PPC | 600 | 401 | 602 | 650 | 700 | 701 | 702 | 750 | 900 | 201 | | 9EN | 000 | | | 0 1 | 1000 | 1001 |
| PA42 Model | PPC Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 95 | | 1000 | 1001 |
| Model | PPC Ver P,PR | • | • | • | • | • | • | • | • | 800 | 801 | | 850 | • | 901 | 95 | | | 1001 |
| | PPC Ver P,PR PO,POR | • | | | • | • | | | • | • | | 802 | • | • | 901 | 95 | | • | |
| Model | PPC Ver P,PR | • | • | • | • | • | • | • | • | | | 802 | | • | 901 | 95 | | | |

| Model Prem | um providing re Ver | 100 | 101 | | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|---|--|---------|------|-----|---------|-----|-----|-----|-----|---------|--------|----------|------|-----|-----|-----|------|------|------|
| | P,PR | 100 | • | 102 | • 200 | 201 | 202 | 230 | 300 | JUI 302 | . 330 | 400 | 40 I | 402 | 430 | 300 | JU I | 302 | 330 |
| A17F | PPC | • | | | • | | | | | | | | | | | | | | |
| 1005 | P,PO,POR,PR | | | | | • | • | | | | | | | | | | | | |
| A22F | PPC | | | | • | | | | | | | | | | | | | | |
| A22F | P,PO,POR,PR | | | | | | | | • | | • | | | | | | | | |
| 'A32F | PPC | | | | | | | | • | | • | | | | | | | | |
| PA42F | P,PO,POR,PR | | | | | | | | | | | • | • | • | • | • | • | • | • |
| N 1 21 | PPC | | | | | | | | | | | ٠ | | | • | • | | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 9 | 50 | 1000 | 1001 |
| | P,PR | | | | • | | | | | | | | | | | | , | | |
| PA62F | PO,POR | | | • | | | | | | | | | | • | | | | | |
| | PPC | | | | • | | | | | • | | | | | | | , | | |
| | | | | | | | | | | | | | | | | | | | |
| Delivery ple | enum with circul | ar flan | ges. | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| PM17 | P,PR | • | • | • | • | | | | | | | | | | | | | | |
| | PPC | • | | | • | | | | | | | | | | | | | | |
| PM22 | P,PO,POR,PR | | | | • | • | • | • | | | | | | | | | | | |
| | PPC | | | | • | | | • | | | | | | | | | | | |
| PM32 | P,PO,POR,PR | | | | | | | | • | • • | • | | | | | | | | |
| | PPC | | | | | | | | • | | • | | | | | | | | |
| PM42 | P,PO,POR,PR | | | | | | | | | | | • | • | • | • | • | • | • | • |
| | PPC | | | | | | | | | | | • | | | • | • | | | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 9. | 50 | 1000 | 1001 |
| | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • |
| PM62 | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | | • | | |
| | PPC | ٠ | | | • | • | | | • | • | | | • | • | | | • | • | |
| C4! - -4 | li | | | | | | | | | | | | | | | | | | |
| | livery coupling | 4 | 40- | 407 | 480 22: | | 262 | 250 | 200 | 204 2 | | 400 | 465 | | 480 | FAC | EC. | | |
| Model | Ver | 100 | 101 | | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| RD17 | P,PR | • | • | • | • | | | | | | | | | | | | | | |
| | PPC DOD DD | • | | | • | | | | | | | | | | | | | | |
| RD22 | P,PO,POR,PR PPC | | | | • | • | • | • | | | | | | | | | | | |
| | PPC P,PO,POR,PR | | | | • | | | • | • | | • | | | | | | | | |
| RD32 | PPC | | | | | | | | • | • • | • | | | | | | | | |
| | P,PO,POR,PR | | | | | | | | • | | • | | | • | • | | | • | |
| RD42 | PPC | | | | | | | | | | | <u> </u> | • | • | · | • | • | • | • |
| | | | | | | 200 | W | | | | 000 | | | | | | | 4000 | 4000 |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 9 | | 1000 | 1001 |
| DDC | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | • | • |
| RD62 | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | | | | |
| | PPC | • | | | • | • | | | • | • | | | • | • | | | • | • | |
| Straiaht su | ction coupling | | | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| | P,PO,POR,PR | 100 | 101 | 174 | 130 200 | | • | | 300 | 50: 502 | . ,,,, | 700 | TVI | 704 | 730 | 500 | JU 1 | 302 | 330 |
| RDA22 | PPC | | | | • | | | • | | | | | | | | | | | |
| | P,PO,POR,PR | | | | | | | | | | • | | | | | | | | |
| RDA32 | | | | | | | | | • | | • | | | | | | | | |
| | PPC | | | | | | | | | | | | | | | | | | |
| 20112 | PPC P,PO,POR,PR | | | | | | | | | | | | | | | | | | |
| RDA42 | PPC P,PO,POR,PR PPC | | | | | | | | | | | • | | | | | | | • |
| RDA42 | P,PO,POR,PR PPC | 600 | 601 | (03 | 650 | 700 | 701 | 702 | 750 | 000 | 001 | • | | | | | | 1000 | ٠ |
| | P,PO,POR,PR PPC Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 9: | | 1000 | 1001 |
| Model | P,PO,POR,PR PPC Ver P,PR | • | • | • | • | • | • | • | • | 800 | 801 | • | | 900 | 901 | 9! | | 1000 | ٠ |
| Model | P,PO,POR,PR PPC Ver P,PR PO,POR | • | | | • | • | | | • | • | | 802 | 850 | 900 | 901 | 9: | , | • | 1001 |
| Model | P,PO,POR,PR PPC Ver P,PR | • | • | • | • | • | • | • | • | | | 802 | 850 | 900 | 901 | 9: | | | 1001 |
| Model RDA62 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC | • | • | • | • | • | • | • | • | • | | 802 | 850 | 900 | 901 | 9: | , | • | 1001 |
| Model RDA62 90° delivery | P,PO,POR,PR PPC Ver P,PR PO,POR PPC // coupling. | • | • | • | • | • | • | • | • | • | • | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Model RDA62 90° delivery Model | P,PO,POR,PR PPC Ver P,PR PO,POR PPC V coupling. Ver | 100 | 101 | 102 | 150 200 | • | • | • | • | • | • | 802 | 850 | 900 | 901 | 9: | , | • | 1001 |
| Model RDA62 90° delivery Model | P,PO,POR,PR PPC Ver P,PR PO,POR PPC V coupling. Ver P,PR | • | • | • | • | • | • | • | • | • | • | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Model RDA62 90° delivery Model RP17 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | • | • | • | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Model RDA62 PO° delivery Model RP17 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC P,PR PPC P,PO,POR,PR | 100 | 101 | 102 | 150 200 | • | • | 250 | • | • | • | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Model RDA62 90° delivery Model RP17 RP22 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC P,PO,POR,PR PPC | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 2 350 | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Model RDA62 PO° delivery Model RP17 RP22 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | • | 2 350 | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |
| Andel DAG2 DO° delivery Andel P17 P22 | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 2 350 | 802 • | 850 | 900 | 901 | 500 | 501 | 502 | 1001 |
| Model | P,PO,POR,PR PPC Ver P,PR PO,POR PPC Ver P,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR PPC P,PO,POR,PR | 100 | 101 | 102 | 150 200 | 201 | 202 | 250 | 300 | 301 302 | 2 350 | 802 | 850 | 900 | 901 | 95 | • | • | 1001 |

| Madal | Van | /00 | C04 | (0) | 650 | 700 | 701 | 702 | 750 | 000 | 001 | 002 | 054 | 000 | 004 | 050 | 1000 | 1001 |
|--|-----------------------------------|----------------|---------|-----------|---------|------|-----|----------|----------|---------|-------|------|-----|-----|----------|--------|--------|--------|
| Model | Ver P.PR | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| RP62 | PO,POR | • | • | • | • | • | · | <u>:</u> | <u> </u> | • | • | • | • | · · | · | • | • | |
| NI UZ | PPC | • | • | | · · | • | • | | • | • | | | • | • | • | • | • | |
| | | | | | | | | | | | | | | | | | | |
| 90° suction | coupling. | | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| RPA22 | P,PO,POR,PR | | | | • | • | • | • | | | | | | | | | | |
| | PPC DDD DD | | | | • | | | • | | | | | | | | | | |
| RPA32 | P,PO,POR,PR PPC | | | | | | | | • | • • | • | | | | | | | |
| | P,PO,POR,PR | | | | | | | | | | • | | • | | | | • | |
| RPA42 | PPC | | | | | | | | | | | | | | | | | |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| mouci | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| RPA62 | PO,POR | • | • | | • | • | | • | | | | | | • | • | • | | |
| | PPC | • | | | | • | | | | • | | | • | • | | • | • | |
| | | | | | | | | | | | | | | | | | | |
| | s for ducting | | | | | | | | | | | | | | | | | |
| Plenum wit | h motorised dan | npers. | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| MZC220 | PO,POR | | | | • | • | • | • | | | | | | | | | | |
| MZC320 | PO,POR | | | | | | | | • | • • | • | | | | | | | |
| MZC530 | PO,POR | | | | | | | | | | | • | • | • | <u>·</u> | • • | | |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| MZC830 | PO,POR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| Straight int | ake connection | with re | ctanai | ular flar | ne | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | | 50 200 | 201 | 202 | 250 | 300 | 301 302 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| RDA000V | PO,POR | 100 | -101 | 102 1 | • | • | • | • | | 301 30 | | 100 | 101 | | | 300 30 | . 302 | 330 |
| RDA100V | PO,POR | | | | | | | | • | | | | | | | | | |
| RDA200V | PO,POR | | | | | | | | | | | • | • | • | • | | • | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| RDA300V | PO,POR | • | • | • | • | • | • | • | • | | | | 050 | • | • | • | 1000 | 1001 |
| | | | | | | | | | | | | | | | | | | |
| | um with rectang | | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| RPA000V | PO,POR | | | | • | • | • | • | • | | | | | | | | | |
| RPA100V RPA200V | PO,POR PO,POR | | | | | | | | • | • • | • | | | | | | | |
| | · | | | | | | | | | | | | | | | | | |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| RPA300V | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| Suction plea | num with plastic | circul | ar flan | ges. | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| PA000V | PO,POR | | | | | | • | • | | | | | | | | | | |
| PA100V | PO,POR | | | | | | | | • | | • | | | | | | | |
| PA200V | PO,POR | | | | | | | | | | | • | • | • | • | | • | • |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| PA300V | PO,POR | | | | | | | | | | | | | • | | | | |
| | | | | | _ | | | | | | | | | | | | | |
| | nsulated deliver | <u> </u> | | | | | | | | | | | | | | | | |
| Model | Ver | 100 | 101 | 102 1 | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| PM000V | PO,POR | | | | • | • | • | • | | | | | | | | | | |
| PM100V | PO,POR | | | | | | | | • | • • | • | | | | | | | |
| PM200V | PO,POR | | | | | | | | | | | • | • | • | • | • • | • | |
| Model | Ver | 600 | 601 | 602 | 650 | 700 | 701 | 702 | 750 | 800 | 801 | 802 | 850 | 900 | 901 | 950 | 1000 | 1001 |
| PM300V | PO,POR | • | • | • | • | • | • | • | • | | | | | • | • | • | | |
| | | | | l | aulas A | anao | | | | | | | | | | | | |
| Internally | nsulated deliver | v nlon: | ım wit | n rertar | | | | | | | | | | | | | | |
| | nsulated deliver | <u> </u> | | | | | 202 | 250 | 300 | 201 20 | 250 | //// | /01 | 402 | 450 | 500 50 | 1 502 | EEV |
| Model | Ver | y plenu 100 | 101 | | 50 200 | 201 | 202 | 250 | 300 | 301 30 | 2 350 | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| Model RPM000V | Ver PO,POR | <u> </u> | | | | | 202 | 250 | | | | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| Model | Ver PO,POR PO,POR | <u> </u> | | | 50 200 | 201 | | | 300 | 301 30 | | 400 | 401 | 402 | 450 | 500 50 | 1 502 | 550 |
| Model RPM000V RPM100V RPM200V | Ver PO,POR PO,POR PO,POR | 100 | 101 | 102 1 | 50 200 | 201 | • | • | • | | • | • | • | • | • | | • | 550 |
| Model RPM000V RPM100V | Ver PO,POR PO,POR | <u> </u> | | | 50 200 | 201 | | | | | | | | | | | . 1000 | . 1001 |

Straight delivery coupling in galvanised sheet metal.

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|--|-----------------------------------|----------|---------|--------|---------------------|---------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| RDM000V | PO,POR | | | | | • | • | • | • | | | | | | | | | | | | |
| RDM100V | PO,POR | | | | | | | | | • | • | | • | | | | | | | | |
| RDM200V | PO,POR | | | | | | | | | | | | | • | • | • | • | • | • | • | • |
| Model | Ver | 600 | 601 | 60 | 2 | 650 | 700 | 701 | 702 | 750 | 8 | 00 | 801 | 802 | 850 | 900 | 901 | 1 | 950 | 1000 | 1001 |
| RDM300V | PO,POR | | | | | | | • | | | | | | | | | | | | | |
| | • | ly incul | ated 1 | with c | ircul | ar flar | 200 | | | | | | | | | | | | | | |
| Straight disc | charge internal | | | | | | | | | | | | | | | | | | | | |
| <i>Straight disc</i> Model | charge internal Ver | ly insul | ated, 1 | with c | <i>ircul</i> 150 | ar flan | ges. 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| <i>Straight disc</i> Model | charge internal | | | | | | | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| Straight disc Model RDMC000V | charge internal Ver | | | | | 200 | 201 | | | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| Straight disc Model RDMC000V RDMC100V | charge internal Ver PO,POR | | | | | 200 | 201 | | | | | | | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
| | charge internal Ver PO,POR PO,POR | | | | 150 | 200 | 201 | | | | • | | | | 401 | | | • | 501 | 502 | 550 |

PERFORMANCE DATA FOR UNITS WITHOUT HEAD (EUROVENT CERTIFICATE FC-H)

| 2-ріре | | FC | Z100 | P | FC | Z150P | | FCZ2 | NNP | F | CZ250 | P | FC | Z300P | Т | FC7 | 350P | | CZ400 | P | F | Z450I | P | F | CZ500 | ΠP | F | CZ550 | IP |
|---|--|--|---|--|---|---|--|---|---|---|--|--|---|---|--|--|--|---|---|--|--|---|--|--|--|---|---|---|--|
| | _ | 1 | 2 | 3 | 1 | | 3 1 | | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | 2 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | Ĺ | M | Н | Ĺ | | H L | . M | | L | M | H | Ĺ | M | Н | | M H | Ĺ | M | H | Ĺ | M | Н | L | M | Н | Ĺ | M | H |
| Heating performance 70 °C / 60 °C | °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,45 | 2,00 | 2,40 | 1,55 | 2,19 2 | ,65 2,0 | 02 2,9 | 5 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 5 | ,50 3 | 3,77 4 | ,92 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 | 5,27 | 7,31 | 8,50 | 5,82 | 8,34 | 9,75 |
| Water flow rate system side | I/h | 125 | 172 | 206 | 136 | 192 2 | 32 17 | 77 25 | 8 324 | 193 | 278 | 355 | 304 | 391 | 182 3 | 330 4 | 31 539 | 379 | 503 | 627 | 400 | 551 | 685 | 462 | 641 | 745 | 510 | 731 | 855 |
| Pressure drop system side | kPa | 4 | 7 | 9 | 5 | 9 | 12 6 | 12 | 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 20 | 9 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Heating performance 45 °C / 40 ° | °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,72 | 0,99 | 1,19 | 0,77 | 1,09 1 | ,31 1,0 | 00 1,4 | 6 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 2 | ,73 1 | 1,87 2 | 44 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 | 2,62 | 3,63 | 4,22 | 2,89 | 4,14 | 4,85 |
| Water flow rate system side | l/h | 126 | 173 | 207 | 134 | 189 2 | 29 17 | 4 25 | 4 319 | 190 | 274 | 350 | 299 | 385 4 | 75 3 | 325 4 | 25 531 | 373 | 495 | 617 | 394 | 543 | 675 | 455 | 631 | 734 | 502 | 720 | 842 |
| Pressure drop system side | kPa | 4 | 7 | 10 | 5 | 9 | 12 6 | 12 | 18 | 8 | 15 | 22 | 8 | 12 | 18 | 8 1 | 14 20 | 10 | 16 | 24 | 6 | 11 | 16 | 12 | 21 | 28 | 10 | 20 | 26 |
| Cooling performance 7 °C / 12 °C | (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,65 | 0,84 | 1,00 | 0,65 | 0,84 1 | ,00 0,8 | 39 1,2 | 8 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | | | ,89 2, | 46 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 | 2,68 | 3,69 | 4,25 | 2,91 | 4,13 | 4,79 |
| Sensible cooling capacity | kW (| 0,51 | 0,69 | 0,83 | 0,51 (| 0,69 0 | .83 0,7 | 71 1,0 | | | | 1,52 | | 1,65 2 | | | 76 2,18 | | 2,14 | 2,67 | 1,69 | 2,30 | 2,90 | 1,94 | 2,73 | 3,18 | 2,07 | 2,98 | 3,49 |
| Water flow rate system side | l/h | 112 | 144 | 172 | 112 | 144 1 | 72 15 | 3 22 | 1 275 | 182 | 267 | 334 | 288 | 374 4 | _ | | 60 560 | _ | 503 | 619 | | 552 | 694 | _ | 634 | 731 | 501 | 711 | 824 |
| Pressure drop system side | kPa | 4 | 6 | 8 | 4 | 6 | 8 6 | 12 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 1 | 8 25 | 10 | 16 | 24 | 9 | 15 | 22 | 13 | 22 | 29 | 12 | 22 | 28 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | | (| entrifu | ugal | | | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | _ | | | | | ynchro | | | | | | | | | | | | _ | | |
| Number | no. | | 1 | | | 1 | \perp | 1 | | _ | 1 | | | 2 | _ | | 2 | 1 | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | | | | $\overline{}$ | | | 00 14 | | | _ | 220 | 290 | | | _ | | 50 450 | | 460 | 600 | | | 600 | 400 | 600 | | _ | | 720 |
| Input power | W | 19 | 29 | 35 | 19 | | 35 2 | | | 25 | 29 | 33 | 25 | | _ | | 33 44 | 30 | 43 | 57 | 30 | 43 | 57 | 38 | 52 | 76 | 38 | 52 | 76 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 ' | /3 V | 1 V2 | 2 V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 \ | /2 V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | _ | | | | | | | | | | | |
| Sound power level | | | | | | | | | | | | | | | | | 1,0 48,0 | | | | | | | | | | | | |
| | dB(A) | 23,0 | 30,0 | 37,0 | 23,0 | 30,0 3 | 7,0 27 | ,0 38, | 0 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 4 | 0,0 2 | 26,0 3 | 3,0 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 34,0 | 43,0 | 48,0 |
| Water coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | | | 0,4 | | | 0,5 | | 0, | 5 | | 0,7 | | | 0,8 | | 1 | ,0 | | 1,0 | | | 1,4 | | | 1,0 | | | 1,4 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | _ | | | _ | | | | | | | | | 1 | | |
| Main coil | Ø | | 1/2" | | | 1/2″ | | 1/2 | ?" | | 1/2" | | | 3/4" | | 3. | /4" | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| | | _ | _ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | F | CZ60(| | $\overline{}$ | FCZ65 | | | FCZ700 | | | CZ75 | | | FCZ80 | | F | CZ850 | | | CZ90 | | \perp | _ | 950P | _ | FC | Z1000 | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 · | 2 | 3 | 1 | 2 | 3 | 1 | 7 | 2 | 3 | 1 | 2 | 3 |
| Hasting and supplied to 70 % / CO | °C (1) | | | | $\overline{}$ | | | + | | | - | | | - | | | _ | | | _ | | | 1 L | _ | 2 | 3 H | | | |
| Heating performance 70 °C/60° | | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | Ĺ | N | 2 M | Н | 1 L | 2 M | 3 H |
| Heating capacity | kW | 1 L 6,50 | 2 M 8,10 | 3 H | 1 L | 2 M 9 9,15 | 3 H | 1 L | 2 M | 3 H 11,00 | 1 L 9,10 | 2 M | 3 H) 12,50 | 1 L | 2 M | 3 H 0 12,0 | 1 L 0 11,30 | 2 M 12,35 | 3 H 14,00 | 1 L 10,77 | 2 M | 3 H 15,14 | L 4 11,2 | N 20 14, | ,42 1 | H 7,10 1 | 1 L | 2 M | 3 H 17,02 |
| Heating capacity Water flow rate system side | kW I/h | 1 L 6,50 570 | 2 M 8,10 710 | 3 H 10,00 877 | 1 L 7,19 631 | 2 M 9 9,15 802 | 3 H 11,50 1008 | 1 L 8,10 710 | 2 M 9,80 860 | 3 H 11,00 964 | 9,10 798 | 2 M 11,30 991 | 3 H) 12,50 1096 | 1 L 9,80 859 | 2 M 10,8 947 | 3 H 0 12,0 ' 105 | 1 L 0 11,30 2 991 | 2 M 12,35 1083 | 3 H 14,00 1227 | 1 L 10,77 945 | 2 M 13,35 1171 | 3 H 15,14 1328 | 4 11,2 3 982 | 20 14, 20 12 | ,42 1 64 1 | 7,10 1 | 1 L 12,53 | 2 M 15,24 1337 | 3 H 17,02 1493 |
| Heating capacity Water flow rate system side Pressure drop system side | kW I/h kPa | 1 L 6,50 | 2 M 8,10 | 3 H | 1 L | 2 M 9 9,15 | 3 H | 1 L | 2 M | 3 H 11,00 | 1 L 9,10 | 2 M | 3 H) 12,50 | 1 L | 2 M | 3 H 0 12,0 | 1 L 0 11,30 | 2 M 12,35 | 3 H 14,00 | 1 L 10,77 | 2 M | 3 H 5 15,14 | L 4 11,2 | 20 14, 20 12 | ,42 1 64 1 | H 7,10 1 | 1 L | 2 M | 3 H 17,02 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 | kW I/h kPa °C (2) | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 1 L 0 7,19 631 14 | 2 M 9 9,15 1 802 21 | 3 H 11,50 1008 31 | 8,10 710 17 | 9,80 860 24 | 3 H 11,00 964 29 | 9,10 798 10 | 2 M 11,30 991 15 | 3 H) 12,50 1096 18 | 9,80 859 22 | 2 M 10,8 947 27 | 3 H 0 12,0 ' 105. | 1 L 0 11,30 2 991 17 | 2 M 12,35 1083 20 | 3 H 14,00 1227 25 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 5 15,14 1328 22 | 4 11,2 3 983 16 | 20 14, 20 12 5 2 | ,42 1 64 1 | 7,10 1 500 3 | 1 L 12,53 1101 22 | 2 M 15,24 1337 32 | 3 H 17,02 1493 38 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40' Heating capacity | kW I/h kPa °C (2) kW | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 1 L L 7,19 631 14 3,57 | 2 M 9 9,15 802 21 7 4,55 | 3 H 11,50 1008 31 | 1 L 8,10 710 17 | 2 M 9,80 860 24 | 3 H 11,00 964 29 5,47 | 9,10 798 10 | 2 M 11,30 991 15 | 3 H 12,50 1096 18 | 9,80 859 22 | 2 M 10,8 947 27 | 3 H 0 12,0 7 1055 32 7 5,97 | 1 L 0 11,30 2 991 17 | 2 M 12,35 1083 20 6,14 | 3 H 14,00 1227 25 6,96 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 15,14 1328 22 7,53 | 4 11,2 3 983 16 | 20 14, 20 12 5 2 | ,42 1 64 1 4 | 7,10 1 500 3 33 3,50 | 1 L 12,53 1101 22 6,24 | 2 M 15,24 1337 32 7,58 | 3 H 17,02 1493 38 8,46 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40' Heating capacity Water flow rate system side | kW I/h kPa °C (2) kW I/h | 1 L 6,50 570 12 3,32 561 | 2 M 8,10 710 18 4,03 699 | 3 H 10,000 877 26 4,97 863 | 1 L C C C C C C C C C C C C C C C C C C | 2 M 9 9,15 1 802 21 7 4,55 1 790 | 3 H 11,50 1008 31 5,72 993 | 1 L 8,10 710 17 4,03 699 | 2 M 9,80 860 24 4,87 846 | 3 H 11,00 964 29 5,47 950 | 9,10 798 10 4,52 786 | 2 M 11,30 991 15 5,62 975 | 3 H 12,50 1096 18 6,21 1079 | 9,80 859 22 4,87 846 | 2 M 10,8 947 27 5,37 932 | 3 H 0 12,0 7 1055 32 7 5,97 2 1036 | 1 L L 1,30 2 991 17 5,62 5 975 | 2 M 12,35 1083 20 6,14 1066 | 3 H 14,00 1227 25 6,96 1209 | 1 L 10,77 945 12 5,35 930 | 2 M 13,35 1171 17 6,64 1152 | 3 H 15,14 1328 22 7,53 1307 | L 11,23 983 16 5,5 7 963 | 20 14, 20 12, 5 2, 7 7, 7 12 | ,42 1 64 1 4 17 8 45 1 | 7,10 1 500 3 33 3 3,50 476 | 1 L 12,53 1101 22 6,24 1084 | 2 M 15,24 1337 32 7,58 1316 | 3 H 17,02 1493 38 8,46 1469 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40' Heating capacity Water flow rate system side Pressure drop system side | kW I/h kPa °C (2) kW I/h kPa | 1 L 6,50 570 12 | 2 M 8,10 710 18 | 3 H 10,00 877 26 | 1 L L 7,19 631 14 3,57 | 2 M 9 9,15 802 21 7 4,55 | 3 H 11,50 1008 31 | 1 L 8,10 710 17 | 2 M 9,80 860 24 | 3 H 11,00 964 29 5,47 | 9,10 798 10 | 2 M 11,30 991 15 | 3 H 12,50 1096 18 | 9,80 859 22 | 2 M 10,8 947 27 | 3 H 0 12,0 7 1055 32 7 5,97 | 1 L 0 11,30 2 991 17 | 2 M 12,35 1083 20 6,14 | 3 H 14,00 1227 25 6,96 | 1 L 10,77 945 12 | 2 M 13,35 1171 17 | 3 H 15,14 1328 22 7,53 | 4 11,2 3 983 16 | 20 14, 20 12, 5 2, 7 7, 7 12 | ,42 1 64 1 4 17 8 45 1 | 7,10 1 500 3 33 3,50 | 1 L 12,53 1101 22 6,24 | 2 M 15,24 1337 32 7,58 | 3 H 17,02 1493 38 8,46 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40' Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C | kW I/h kPa °C (2) kW I/h kPa (3) | 1 L 6,50 570 12 3,32 561 12 | 2 M 8,10 710 18 4,03 699 18 | 3 H 10,000 877 26 4,97 863 26 | 1 L C 7,19 631 14 3,57 621 14 | 2 M 9 9,15 1 802 21 7 4,55 1 790 20 | 3 H 11,50 1008 31 5,72 993 31 | 1 L 8,10 710 17 4,03 699 16 | 2 M 9,80 860 24 4,87 846 24 | 3 H 11,00 964 29 5,47 950 29 | 9,10 798 10 4,52 786 | 2 M 11,30 991 15 5,62 975 14 | 3 H 12,50 1096 18 6,21 1079 | 9,80 859 22 4,87 846 22 | 2 M 10,8 947 27 5,37 932 26 | 3 H 0 12,00 7 1055 32 7 5,97 2 1036 32 | 1 L L 1,30 2 991 17 5,62 5 975 17 | 2 M 12,35 1083 20 6,14 1066 20 | 3 H 14,00 1227 25 6,96 1209 25 | 1 L 10,77 945 12 5,35 930 12 | 2 M 13,35 1171 17 6,64 1152 | 3 H 15,14 1328 22 7,53 1307 22 | L 4 11,2 3 983 16 5,5 7 963 | 20 14, 20 12, 5 2, 7 7, 7 12, 6 2 | 2 M | 7,10 1 500 33 3,50 476 33 | 1 L 12,53 1101 22 6,24 1084 22 | 2 M 15,24 1337 32 7,58 1316 31 | 3 H 17,02 1493 38 8,46 1469 38 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity | kW I/h kPa °C (2) kW I/h kPa C (3) kW I/h kPa C (3) kW I/h kW KW KW KW KW KW KW KW | 1 L 6,50 570 12 33,32 561 12 | 2 M 8,10 710 18 4,03 699 18 | 3 H 10,000 877 26 4,97 863 26 | 1 L L 7,19 631 14 3,57 621 14 3,95 | 2 M 9 9,15 1 802 21 7 4,55 1 790 20 | 3 H 11,50 1008 31 5,72 993 31 | 1 L 8,10 710 17 4,03 699 16 | 2 M 9,80 860 24 4,87 846 24 | 3 H 11,00 964 29 5,47 950 29 | 9,10 798 10 4,52 786 10 | 2 M 11,30 991 15 5,62 975 14 | 3 H 12,50 1096 18 6,21 1079 18 | 9,80 859 22 4,87 846 22 | 2 M 10,88 947 27 5,37 932 26 | 3 H 0 12,00 7 1055 32 7 5,97 9 1036 32 | 1 L L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 | 2 M 12,35 1083 20 6,14 1066 20 | 3 H 14,00 1227 25 6,96 1209 25 | 1 L 10,77 945 12 5,35 930 12 | 2 M 13,35 1171 17 6,64 1152 17 | 3 H 15,14 1328 22 7,53 1307 22 6,91 | L 4 11,2 3 982 16 5,5 7 962 15 | M M 220 14, M 220 14, M 220 14, M 220 120 120 120 120 120 120 120 120 120 | 2 M 42 11 664 1 44 117 8 445 1 44 | 7,10 1 500 3 33 3 3,50 476 3 3,60 | 1 L 12,53 1101 22 6,24 1084 22 5,69 | 2 M 15,24 1337 32 7,58 1316 31 | 3 H 17,02 1493 38 8,46 1469 38 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity | kW I/h kPa °C (2) kW I/h kPa C (3) kW kW kW | 1 L 570 12 12 12 3,32 12 3,22 2,56 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 | 1 L 1 L 3,577 621 14 3,992 2,78 | 2 M 9 9,15 1 802 21 7 4,55 1 790 20 5 4,80 3 3,43 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 | 3 H 11,000 964 29 5,47 950 29 5,50 4,30 | 9,10 798 10 4,52 786 10 4,27 3,20 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 | 9,80 859 22 4,87 846 22 4,84 3,72 | 2 M 10,81 947 27 5,37 932 26 5,666 4,42 | 3 H H 105:32 32 32 32 32 32 32 32 32 32 32 32 32 3 | 1 L L 1 L 1 L 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 | 3 H 1328 22 7,53 1307 22 6,91 5,68 | L1,1,2,3,3,4,4,1,1,2,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1 | 12 N N N N N N N N N N N N N N N N N N N | 2 M ,42 1 1664 1 44 117 8 445 1 44 45 1 | H | 1 L 12,53 11101 22 22 22 1084 22 55,69 | 2 M 15,24 1337 32 7,58 1316 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side | kW I/h kPa °C (2) kW I/h kPa C (3) kW kW I/h kW KW I/h kW I/h kW KW I/h kW KW KW KW KW KW KW KW | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 | 1 L 1 L 3,577 621 14 14 3,959 2,78 595 | 2 M 9 9,155 802 21 77 4,555 20 20 20 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 675 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 9,80 859 22 4,87 846 22 4,84 3,72 833 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 | 3 H 0 12,00 12,00 105.32 32 7 5,97 32 32 32 4,83 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 | 10,777 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | L 11,2 12,2 13,3 14,1 11,2 12,2 13,3 16,0 15,5 15,7 15, | 12 N N N N N N N N N N N N N N N N N N N | 2 | H 77,10 1 500 333 33,50 4476 333 33 4479 | 1 L L 12,53 : 11101 22 66,24 1084 22 55,69 4,42 979 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 1118 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side | kW I/h kPa °C (2) kW I/h kPa C (3) kW kW kW | 1 L 570 12 12 12 3,32 12 3,22 2,56 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 | 1 L 1 L 3,577 621 14 3,992 2,78 | 2 M 9 9,155 802 21 77 4,555 20 20 20 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 | 3 H 11,000 964 29 5,47 950 29 5,50 4,30 | 9,10 798 10 4,52 786 10 4,27 3,20 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 | 9,80 859 22 4,87 846 22 4,84 3,72 | 2 M 10,81 947 27 5,37 932 26 5,666 4,42 | 3 H 0 12,00 12,00 105.32 32 7 5,97 32 32 32 4,83 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 | 3 H 1328 22 7,53 1307 22 6,91 5,68 | L 11,2 12,2 13,3 14,1 11,2 12,2 13,3 16,0 15,5 15,7 15, | 12 N N N N N N N N N N N N N N N N N N N | 2 | H | 1 L 12,53 11101 22 22 22 1084 22 55,69 | 2 M 15,24 1337 32 7,58 1316 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan | kW | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 | 1 L 1 L 3,577 621 14 14 3,959 2,78 595 | 2 M 9 9,155 802 21 77 4,555 20 20 20 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 675 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,88 947 27 5,37 932 26 5,664 4,42 974 26 | 3 H H 12,00 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 | 10,777 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | L 11,2 12,2 13,3 14,1 11,2 12,2 13,3 16,0 15,5 15,7 15, | 12 N N N N N N N N N N N N N N N N N N N | 2 | H 77,10 1 500 333 33,50 4476 333 33 4479 | 1 L L 12,53 : 11101 22 66,24 1084 22 55,69 4,42 979 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 1118 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | kW | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 | 1 L 1 L 3,577 621 14 14 3,959 2,78 595 | 2 M 9 9,155 802 21 77 4,555 20 20 20 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 675 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 | 3 H H 10 12,0 10 12,0 10 105.32 10 10 105.32 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 | 10,777 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | L 11,2 12,2 13,3 14,1 11,2 12,2 13,3 16,0 15,5 15,7 15, | 12 N N N N N N N N N N N N N N N N N N N | 2 | H 77,10 1 500 333 33,50 4476 333 33 4479 | 1 L L 12,53 : 11101 22 66,24 1084 22 55,69 4,42 979 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 1118 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | kW I/h kPa °C (2) kW I/h kPa : (3) kW I/h kPa type type | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 | 1 L 1 L 3,577 621 14 14 3,959 2,78 595 | 2 M 802 21 7 4,55 20 20 5 4,802 20 21 20 21 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 | 1 L 8,10 710 17 4,03 699 16 3,92 2,99 675 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 | 3 H H 10 12,0 10 12,0 10 105.32 10 10 105.32 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 | 10,777 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | L 11,2 12,2 13,3 14,1 11,2 12,2 13,3 16,0 15,5 15,7 15, | 12 N N N N N N N N N N N N N N N N N N N | 2 M A A A A A A A A A A A A A A A A A A | H 77,10 1 500 333 33,50 4476 333 33,60 4479 | 1 L L 12,53 : 11101 22 66,24 1084 22 55,69 4,42 979 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 1183 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | kW I/h kPa °C (2) kW I/h kPa C (3) kW I/h kPa C type type no. | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 9,152 21 802 21 7 4,555 20 20 20 3 3,433 3 3,433 3 3,433 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 17 4,03 699 16 3,92 2,99 675 16 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 entrift | 3 H H 105: 32 105: 32 105: 32 106: 107: 108: 108: 108: 108: 108: 108: 108: 108 | 1 L 1 L 2 991 17 5,62 6 975 17 5,26 4,00 9 904 14 | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 23 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,355 1171 17 6,64 1152 17 5,00 3,78 860 12 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | L L 11,23 16,33 16 | M 20 14, M 20 14, M 20 14, M 20 12, M 20 14, M 20 12, M 20 1 | 2 | H 500 1333 333 3350 476 1333 33 33 33 33 33 33 33 33 33 33 33 3 | 1 L 1 112,53 11101 22 6,24 11084 22 22 5,69 4,42 979 22 | 2 M 15,24 1337 32 77,58 1316 31 6,88 5,34 1183 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | kW I/h kPa °C (2) kW I/h kPa : (3) kW I/h kPa type type no. | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 1 L 1 L 3,577 621 14 14 3,959 2,78 595 | 2 M 9,155 802 21 7 4,555 20 20 20 3 3,433 3,433 3 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 17 4,03 699 16 3,92 2,99 675 16 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 entrift | 3 H H 105:32 105:32 105:32 105:32 106:32 107:5,97 108:32 1 | 1 L L 1,300 11,300 2 991 17 17 17 5,62 5 975 17 14 4,00 9904 14 | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 | 10,777 945 12 5,35 930 12 4,29 2,97 738 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 | L L L 11,27 16 17 18 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18 | 120 14, M 220 14, 22 12 12 12 12 12 12 12 12 12 12 12 12 1 | 2 | H 500 1333 333 3350 476 1333 33 33 33 33 33 33 33 33 33 33 33 3 | 1 L 1 112,53 11101 22 6,24 11084 22 22 5,69 4,42 979 22 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 1183 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW /h | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M 9,155 21 8022 21 7 4,555 20 20 20 20 3 3 3,433 3 3,433 3 3 3,433 3 3 3,433 3 3 3,433 3 3 3,433 3 3 3,433 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 17 17 17 14,03 699 16 3,92 2,99 675 16 700 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,500 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 | 2 M 10,80 947 27 5,37 932 26 5,666 4,422 26 26 1120 100 | 3 H H 105:32 105:32 105:32 108 | 1 L L 1,300 11,300 2 991 17 1 5,62 5 975 17 1 5,26 4,00 9 904 14 | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 | 3 H 14,00 1227 25 6,96 1209 25 6,91 1300 131 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,359 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 80 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | L L L 11,27 16 17 18 18 19 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18 | 120 14,1 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | 2 | H 77,10 1 1 5500 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L L 12,53 1101 22 22 6,24 1084 22 22 22 22 9900 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 31 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring | kW /h | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,17 671 19 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M 9,155 9,9,156 21 8022 21 21 20 20 20 20 21 3 3 3,433 3 3 3,433 3 3 3,433 3 3 3,433 3 3 3 | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 17 17 14,03 699 16 3,92 2,99 675 16 700 59 | 9,80 9,80 24 4,87 846 24 4,89 3,76 841 24 | 3 H 11,000 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,500 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 9,80 859 22 4,87 846 22 4,84 3,72 833 20 (C As | 2 M 10,80 947 27 5,37 932 26 5,666 4,42 974 26 entrific ynchro 3 | 3 H H 105:32 105:32 105:32 108 | 1 L L 1,300 11,300 2 991 17 17 17 17 17 17 17 17 17 17 17 17 17 | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 23 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,359 1171 17 6,64 1152 17 5,00 3,78 860 12 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | L L L L L L L L L L L L L L L L L L L | 12 | 2 | H 77,10 1 1 500 4 476 1 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L 12,53 11101 22 66,24 11084 22 22 55,69 4,42 979 22 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 3 1120 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) | kW I/h kPa °C (2) kW I/h kPa C (3) kW I/h kPa type type no. m³/h W | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 | 3 H 10,00 877 26 4,97 863 26 4,65 3,92 800 26 920 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M 802 21 77 4,555 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 3 H 11,500 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 17 4,03 699 16 3,922 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 V2 | 3 H 11,000 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 | 3 H 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 entrifu 100 V2 | 3 H H 101200000000000000000000000000000000 | 1 L L L L L L L L L L L L L L L L L L L | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 3 1120 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 23 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 | 2 M 13,35 1171 17 6,64 1152 17 5,000 3,78 860 12 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | L 11,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 | 7 | 2 | H 7,10 1 1 500 3 3 3 3,50 476 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L 1 1 12,53 1101 22 22 66,24 1084 22 22 5,69 4,42 979 22 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) Sound power level | kW I/h kPa °C(2) kW I/h kPa C(3) kW I/h kPa type type no. m³/h W I/h kPa dB(A) | 1 L 6,50 570 12 561 12 3,32 2,56 554 14 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M Solve | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 920 91 V3 | 1 L 8,100 710 177 4,03 699 16 3,92 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 24 24 3,76 841 24 3 930 V2 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 V1 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 | 3 H 10, 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 1140 V3 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As 900 80 V1 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 entrifu 100 V2 | 3 H H 1012,000 1 | 1 L L 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 1300 131 V3 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,000 3,78 860 12 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | L L 11,2,2,3 98,3 166 15,5,5,7 7 96,5 15 15 15 15 15 15 15 15 15 15 15 15 15 | 7 | 2 | H 77,10 1 1 500 3 3 3 3 3 3 5 0 476 476 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L L 12,53 11101 22 22 66,24 128 22 22 22 22 29 900 80 V1 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 1300 131 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) Sound power level | kW I/h kPa °C(2) kW I/h kPa (3) kW I/h kPa type no. m³/h W | 1 L 6,50 570 12 3,32 561 12 3,22 2,56 554 14 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M Solve | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 | 1 L 8,100 710 177 4,03 699 16 3,92 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 24 24 3,76 841 24 3 930 V2 | 3 H 11,000 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 V1 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 | 3 H 10 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 1140 V3 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As 900 80 V1 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 100 V2 | 3 H H 101200000000000000000000000000000000 | 1 L L 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 5,36 1189 23 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,000 3,78 860 12 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | 5,77 96: 5,77 9 | 7 | 2 | H 77,10 1 1 500 3 3 3 3 3 3 5 0 476 476 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L 1 1 12,53 1101 22 22 66,24 1084 22 22 5,69 4,42 979 22 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) Sound power level Sound pressure Water coil | kW I/h kPa °C(2) kW I/h kPa C(3) kW I/h kPa type type no. m³/h W I/h kPa dB(A) | 1 L 6,50 570 12 561 12 3,32 2,56 554 14 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 51,0 43,0 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 920 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M 9,155 N N N N N N N N N N N N N N N N N N | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 920 91 V3 | 1 L 8,100 710 177 4,03 699 16 3,92 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 V2 57,0 49,0 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 V1 | 2 M 11,3(991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 57,0 49,0 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 1140 V3 62,0 54,0 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As 900 80 V1 | 2 M 10,8% 947 27 5,37 932 26 5,666 4,42 974 26 1120 100 V2 53,0 | 3 H 0 12,0 1 105: 32 7 5,97 1 103: 32 5 6,10 2 4,83 1 104: 30 0 130: 0 130: 0 130: 0 58,0 | 1 L L 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 1300 131 V3 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 80 V2 57,0 49,0 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | L L 11,2,2,3 98,3 166 15,5,5,7 7 96,5 15 15 15 15 15 15 15 15 15 15 15 15 15 | 20 14, M 20 14, 20 12 12 2 12 2 12 2 12 12 12 12 12 12 12 | 22 M .42 11 .64 1 .44 .45 1 .44 .45 1 .44 .45 1 .40 .40 .40 .40 .40 .40 .40 .40 | H 77,10 1 1 500 3 3 3 3 3 3 5 0 476 476 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L L 12,53 11101 22 22 66,24 128 22 22 22 22 29 900 80 V1 | 2 M 15,24 1337 32 7,58 1316 31 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 1300 131 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °Heating capacity Water flow rate system side Pressure drop system side Pressure drop system side Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) Sound power level Sound pressure Water coil Water content main coil | kW I/h kPa °C(2) kW I/h kPa C(3) kW I/h kPa type type no. m³/h W I/h kPa dB(A) | 1 L 6,50 570 12 561 12 3,32 2,56 554 14 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 920 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M Solve | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 920 91 V3 | 1 L 8,100 710 177 4,03 699 16 3,92 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 24 24 3,76 841 24 3 930 V2 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 V1 | 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 1140 V3 62,0 54,0 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As 900 80 V1 | 2 M 10,88 947 27 5,37 932 26 5,666 4,42 974 26 100 V2 | 3 H 0 12,0 1 105: 32 7 5,97 1 103: 32 5 6,10 2 4,83 1 104: 30 0 130: 0 130: 0 130: 0 58,0 | 1 L L 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 1300 131 V3 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,000 3,78 860 12 3 930 80 V2 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | L L 11,2,2,3 98,3 166 15,5,5,7 7 96,5 15 15 15 15 15 15 15 15 15 15 15 15 15 | 7 | 22 M .42 11 .64 1 .44 .45 1 .44 .45 1 .44 .45 1 .40 .40 .40 .40 .40 .40 .40 .40 | H 77,10 1 1 500 3 3 3 3 3 3 5 0 476 476 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L L 12,53 11101 22 22 66,24 128 22 22 22 22 29 900 80 V1 | 2 M 15,24 1337 32 7,58 1316 31 6,88 5,34 11183 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 1300 131 V3 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40° Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Electrical wiring Fan coil sound data (4) Sound power level Sound pressure Water coil | kW I/h kPa °C(2) kW I/h kPa C(3) kW I/h kPa type type no. m³/h W I/h kPa dB(A) | 1 L 6,50 570 12 561 12 3,32 2,56 554 14 520 38 V1 | 2 M 8,10 710 18 4,03 699 18 3,90 3,17 671 19 3 720 60 V2 51,0 43,0 | 3 H 10,000 877 26 4,97 863 26 4,65 3,92 800 26 920 91 V3 | 1 L L L L L L L L L L L L L L L L L L L | 2 M M 9,155 N N N N N N N N N N N N N N N N N N | 3 H 11,50 1008 31 5,72 993 31 5,67 4,12 975 28 920 91 V3 | 1 L 8,100 710 177 4,03 699 16 3,92 2,99 675 16 700 59 V1 | 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 V2 57,0 49,0 | 3 H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 1140 V3 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 59 V1 | 2 M 11,3(991 15 5,62 975 14 5,34 4,05 918 14 3 930 80 V2 57,0 49,0 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 1140 V3 62,0 54,0 | 9,800 859 22 4,87 846 22 4,84 3,72 833 20 (C As 900 80 V1 | 2 M 10,8% 947 27 5,37 932 26 5,666 4,42 974 26 1120 100 V2 53,0 | 3 H 0 12,0 1 105: 32 7 5,97 1 103: 32 1 103: 32 1 104: 30 1 131 1 | 1 L L 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 M 12,35 1083 20 6,14 1066 20 6,29 4,83 1082 20 100 V2 | 3 H 14,00 1227 25 6,96 1209 25 6,91 1300 131 V3 | 1 L 10,777 945 12 5,35 930 12 4,29 2,97 738 10 700 59 V1 | 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 80 V2 57,0 49,0 | 3 H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 1140 V3 | L L 11,2,2,3 98,3 166 15,5,5,7 7 96,5 15 15 15 15 15 15 15 15 15 15 15 15 15 | 20 14, M 20 14, 20 12 12 2 12 2 12 2 12 12 12 12 12 12 12 | 22 M .42 11 .64 1 .44 .45 1 .44 .45 1 .44 .45 1 .40 .40 .40 .40 .40 .40 .40 .40 | H 77,10 1 1 500 3 3 3 3 3 3 5 0 476 476 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1 L L 12,53 11101 22 22 66,24 128 22 22 22 22 29 900 80 V1 | 2 M 15,24 1337 32 7,58 1316 31 31 1120 100 V2 | 3 H 17,02 1493 38 8,46 1469 38 7,62 5,53 1311 36 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

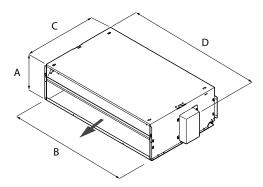
| 2-ріре | | | | | _ | | | | | | _ | | | _ | | | | | | | | | | | |
|---|---|--|---|---|---|--|--|---|---|---|--|--|---|--|---|--|--|--|---|---|---|--|--|---|---|
| | | _ | CZ200 | | _ | CZ250I | | - | CZ300I | | | Z350 | | _ | Z400I | | | Z450F | | _ | CZ500I | | - | Z550 | |
| | | 2 | 4 | 6 | 2 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 3 | 6 | 1 | 5 | 6 | 1 | 5 | 6 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | _ | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 2,11 | 3,00 | 3,32 | 2,29 | 3,24 | 3,60 | 3,50 | 5,03 | 5,45 | 3,80 | 5,59 | 6,10 | 4,49 | 6,02 | 6,74 | 4,79 | 6,62 | 7,40 | 5,27 | 7,22 | 7,59 | - | 8,25 | 8,67 |
| Water flow rate system side | I/h | 182 | 258 | 285 | 197 | 279 | 310 | 301 | 433 | 469 | 327 | 481 | 524 | 386 | 517 | 580 | 412 | 569 | 637 | 453 | 621 | 652 | 500 | 709 | 746 |
| Pressure drop system side | kPa | 7 | 12 | 15 | 9 | 16 | 19 | 8 | 15 | 18 | 9 | 18 | 21 | 11 | 18 | 22 | 7 | 12 | 15 | 12 | 21 | 23 | 10 | 19 | 21 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,05 | 1,49 | 1,65 | 1,14 | 1,61 | 1,79 | 1,74 | 2,50 | 2,71 | 1,89 | 2,78 | 3,03 | 2,23 | 2,99 | 3,35 | 2,38 | 3,29 | 3,68 | 2,62 | 3,59 | 3,77 | 2,89 | 4,10 | 4,31 |
| Water flow rate system side | l/h | 160 | 224 | 248 | 196 | 277 | 308 | 299 | 430 | 466 | 325 | 478 | 521 | 383 | 514 | 576 | 409 | 566 | 633 | 451 | 617 | 648 | 497 | 705 | 741 |
| Pressure drop system side | kPa | 7 | 12 | 15 | 9 | 16 | 19 | 8 | 15 | 18 | 9 | 18 | 21 | 11 | 18 | 22 | 7 | 12 | 15 | 12 | 21 | 23 | 10 | 19 | 21 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,93 | 1,30 | 1,44 | 1,11 | 1,59 | 1,74 | 1,70 | 2,40 | 2,63 | 1,91 | 2,77 | 3,00 | 2,29 | 3,06 | 3,41 | 2,51 | 3,37 | 3,79 | 2,68 | 3,65 | 3,82 | 2,91 | 4,08 | 4,28 |
| Sensible cooling capacity | kW | 0,74 | 1,14 | 1,18 | 0,83 | 1,23 | 1,36 | 1,27 | 1,86 | 2,03 | 1,34 | 1,99 | 2,16 | 1,66 | 2,24 | 2,52 | 1,76 | 2,42 | 2,73 | 1,94 | 2,70 | 2,83 | 2,07 | 2,94 | 3,09 |
| Water flow rate system side | l/h | 160 | 224 | 248 | 191 | 273 | 299 | 292 | 413 | 452 | 328 | 476 | 516 | 394 | 526 | 586 | 432 | 580 | 652 | 461 | 628 | 657 | 500 | 702 | 736 |
| Pressure drop system side | kPa | 8 | 13 | 15 | 9 | 18 | 21 | 8 | 16 | 18 | 11 | 22 | 25 | 11 | 18 | 22 | 11 | 16 | 20 | 13 | 22 | 24 | 12 | 21 | 23 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centri | fugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Asynch | | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | ,, | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 148 | 226 | 254 | 148 | 226 | 254 | 263 | 404 | 446 | 263 | 404 | 446 | 346 | 487 | 559 | 346 | 487 | 559 | 400 | 592 | 627 | 400 | 592 | 627 |
| High static pressure | Pa | 21 | 50 | 63 | 21 | 50 | 63 | 21 | 50 | 61 | 21 | 50 | 61 | 25 | 50 | 66 | 25 | 50 | 66 | 22 | 50 | 56 | 22 | 50 | 56 |
| Input power | W | 28 | 41 | 74 | 28 | 41 | 74 | 38 | 55 | 78 | 38 | 55 | 78 | 53 | 63 | 102 | 53 | 63 | 102 | 49 | 80 | 627 | 49 | 80 | 627 |
| Electrical wiring | ** | V2 | V4 | V6 | V2 | V4 | V6 | V1 | V4 | V6 | V1 | V4 | V6 | V1 | V3 | V6 | V1 | V3 | V6 | V1 | V5 | V6 | V1 | V5 | V6 |
| Duct type fan coil sound data (4) | | VZ | VT | VO | V Z | VT | VO | V I | VT | VO | V 1 | VT | VO | V I | ٧J | VO | V I | - 43 | - 10 | V 1 | ¥3 | ¥0 | V 1 | ٧.5 | |
| | dB(A) | 41,0 | 56,0 | 59,0 | 41,0 | 56,0 | 59,0 | 39,0 | 51,0 | 54,0 | 39,0 | 51,0 | 54,0 | 44,0 | 54,0 | 55,0 | 44,0 | 54,0 | 55,0 | 45,0 | 55,0 | 57,0 | 45,0 | 55,0 | E7.0 |
| Sound power level (inlet + radiated) | | - | | | - | 52,0 | | - | | | | | 49,0 | _ | 50,0 | | | 50.0 | | | | | | | |
| Sound power level (outlet) | dB(A) | 37,0 | 52,0 | 33,0 | 37,0 | 52,0 | 22,0 | 35,0 | 4/,0 | 49,0 | 35,0 | 4/,0 | 49,0 | 40,0 | 30,0 | 52,0 | 40,0 | 30,0 | 32,0 | 41,0 | 51,0 | 33,0 | 41,0 | 31,0 | 33,0 |
| Water coil | | | 0.5 | | | 0.7 | | 1 | | | ı | 1.0 | | | 1.0 | | | | | | 1.0 | | | | |
| Water content main coil | | | 0,5 | | | 0,7 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,4 | | | 1,0 | | <u> </u> | 1,4 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| | | | FCZ6 | 00P0 | | | FCZ6 | 50P0 | | | FCZ7 | 00P0 | | | FCZ7 | 50P0 | | | FCZ9 | 00P0 | | | FCZ9 | 50P0 | |
| | | 1 | | 4 | 7 | 1 | - | 4 | 7 | 2 | | 5 | 7 | 2 | | 5 | 7 | 2 | | 5 | 7 | 2 | 5 | 5 | 7 |
| | | L | | М | Н | L | 1 | М | Н | L | - 1 | И | Н | L | 1 | Л | Н | L | - 1 | М | Н | L | ٨ | Λ | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | 1144 | | | | | | 0 | 72 | 11,51 | 8,77 | 10 | ,10 | 10,52 | 10,02 | 11 | ,65 | 12.00 | 11 01 | 1 12 | | | | 3 15, | ,07 | 16,00 |
| | kW | 6,86 |) 8, | ,55 | 10,00 | 7,63 | 9, | 12 | וכווו | | | | | .0,0. | | | 12,09 | 11,81 | 1 13 | ,80 | 14,45 | 12,43 | | 06 | 1375 |
| Water flow rate system side | I/h | 590 | | ,55 35 | 10,00 860 | 7,63 656 | | 36 | 990 | 754 | 8 | 58 | 905 | 862 | | | 1040 | 1016 | | ,80 187 | 14,45 1242 | 12,43 | 12 | 70 | |
| Water flow rate system side Pressure drop system side | | <u> </u> | 7 | | | <u> </u> | 83 | | | 754 19 | | | 905 27 | | 10 | | | | 5 11 | | | - | 2 | | 29 |
| • | I/h | 590 | 7 | 35 | 860 | 656 | 83 | 36 | 990 | _ | | 58 | | 862 | 10 | 02 | 1040 | 1016 | 5 11 | 187 | 1242 | 1069 | | | 29 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) | I/h | 590 | 7 | 35 | 860 26 | 656 | 83 | 36 | 990 | 19 | 2 | 5 | | 862 | 10 | 02 5 | 1040 | 1016 | i 11 | 187 | 1242 | 1069 | 2 | 6 | |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 590 12 3,41 | 7 2 | 35 20 .25 | 860 | 656 15 3,79 | 83 2 4, | 36 23 83 | 990 31 5,72 | 19 4,36 | 5, | 55 | 27 5,23 | 862 12 4,98 | 10 1 5, | 02 5 79 | 1040 16 6,01 | 1016 14 5,87 | 5 11 1 6, | 187 18 | 1242 20 7,18 | 1069 | 2 | 6 49 | 7,95 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa | 590 12 3,41 586 | 7, 2 4, | 35 | 860 26 4,97 | 656 | 83 2 4,7 83 | 36 23 83 | 990 31 5,72 984 | 19 | 5, | 58 5 02 53 | 27 5,23 899 | 862 12 4,98 856 | 10 1 5, | 02 5 79 96 | 1040 | 1016 | 6, 1 | 187 | 1242 | 1069 | 2 | 6 49 88 | 7,95 1367 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW I/h | 590 12 3,41 | 7, 2 4, | 35 20 .25 31 | 860 26 4,97 855 | 656 15 3,79 652 | 83 2 4,7 83 | 36 23 83 31 | 990 31 5,72 | 4,36 750 | 5, | 55 | 27 5,23 | 862 12 4,98 | 10 1 5, | 02 5 79 96 | 1040 16 6,01 1034 | 1016 14 5,87 1009 | 6, 1 | 187 18 86 180 | 1242 20 7,18 1235 | 1069 19 6,18 1063 | 2 3 7,4 3 12 | 6 49 88 | 7,95 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) | I/h kPa kW I/h kPa | 590 12 3,41 586 13 | 4, | 35 20 .25 31 20 | 860 26 4,97 855 26 | 3,79 652 15 | 83 2 4,/ 83 2 | 36 23 83 31 23 | 990 31 5,72 984 31 | 4,36 750 19 | 5, 8i 2 | 58 5 02 53 5 | 27 5,23 899 27 | 862 12 4,98 856 12 | 10 1 5, 99 | 02 5 79 96 5 | 1040 16 6,01 1034 16 | 1016 14 5,87 1009 14 | 6, 1 1 1 1 1 | 86 80 88 | 7,18 1235 20 | 1069 19 6,18 1063 19 | 2 3 7,4 3 12 2 | 6 49 88 6 | 7,95 1367 29 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | I/h kPa kW I/h kPa | 590 12 3,41 586 13 | 7 2 4, 7, 7, 2 | 35 20 .25 .31 .20 | 860 26 4,97 855 26 | 656 15 3,79 652 15 | 4,/ 83 2 2,5,/ | 36 23 83 31 23 | 990 31 5,72 984 31 5,67 | 4,36 750 19 | 5, 8, 2 | 58 5 02 53 5 | 5,23 899 27 5,18 | 862 12 4,98 856 12 | 5, 99 1 | 02 5 79 96 5 | 1040 16 6,01 1034 16 5,80 | 1016 14 5,87 1009 14 | 6, 11 1 1 1 5, | 86 80 88 33 | 7,18 1235 20 5,95 | 1069 19 6,18 1063 19 | 2 3 7,4 3 12 2 2 | 6 49 88 6 | 7,95 1367 29 8,07 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa kW kW | 590 12 3,41 586 13 3,37 2,70 | 7, 2 4, 7, 2 2, 4, 1, 3, | 35 20 25 31 20 08 34 | 860 26 4,97 855 26 4,65 3,92 | 656 15 3,79 652 15 4,15 2,93 | 83 2 4, 83 2 5,, 3, | 36 23 83 31 23 02 60 | 990 31 5,72 984 31 5,67 4,12 | 4,36 750 19 4,24 3,24 | 5, 8, 2, 4, | 58 5 02 53 5 5 97 | 5,23 899 27 5,18 4,02 | 862 12 4,98 856 12 4,69 3,53 | 5, 99 1 | 02 5 79 96 5 53 | 1040 16 6,01 1034 16 5,80 4,41 | 5,87 1009 14 4,38 3,11 | 6, 0 11 1 1 5, 4, | 86 86 80 8 11 | 7,18 1235 20 5,95 4,73 | 1069 19 6,18 1063 19 6,35 4,20 | 2 7,43 12 2 2 5,6 5,6 5,6 | 6 49 88 6 6 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW I/h kPa | 590 12 3,41 586 13 3,37 2,70 580 | 7 2 4, 7, 2 2 4, 7, 2 4, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, | 35 20 .25 .31 .20 .08 .34 | 860 26 4,97 855 26 4,65 3,92 800 | 656 15 3,79 652 15 4,15 2,93 580 | 83 2 4,/ 83 2 5,/ 3,/ | 36 23 83 31 23 02 60 | 990 31 5,72 984 31 5,67 4,12 800 | 4,36 750 19 4,24 3,24 729 | 5, 80 2 4, 3, 85 | 68 5 02 63 5 5 97 83 | 5,23 899 27 5,18 4,02 28 | 4,98 856 12 4,69 3,53 807 | 5, 99 1 5, 4, | 02 5 79 96 5 5 53 20 | 1040 16 6,01 1034 16 5,80 4,41 997 | 1016 14 5,87 1009 14 4,38 3,11 753 | 6, 6, 11 1 1 5, 4, | 86 80 8 8 11 17 | 7,18 1235 20 5,95 4,73 1023 | 1069 19 6,18 1063 19 6,35 4,20 1092 | 2 7,43 12 2 5,01 5,01 2 13 | 6 49 88 6 6 62 08 10 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side | I/h kPa kW I/h kPa kW kW | 590 12 3,41 586 13 3,37 2,70 | 7 2 4, 7, 2 2 4, 7, 2 4, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, | 35 20 25 31 20 08 34 | 860 26 4,97 855 26 4,65 3,92 | 656 15 3,79 652 15 4,15 2,93 | 83 2 4,/ 83 2 5,/ 3,/ | 36 23 83 31 23 02 60 | 990 31 5,72 984 31 5,67 4,12 | 4,36 750 19 4,24 3,24 | 5, 80 2 4, 3, 85 | 58 5 02 53 5 5 97 | 5,23 899 27 5,18 4,02 | 862 12 4,98 856 12 4,69 3,53 | 5, 99 1 5, 4, | 02 5 79 96 5 53 | 1040 16 6,01 1034 16 5,80 4,41 | 5,87 1009 14 4,38 3,11 | 6, 6, 11 1 1 5, 4, | 86 86 80 8 11 | 7,18 1235 20 5,95 4,73 | 1069 19 6,18 1063 19 6,35 4,20 | 2 7,43 12 2 2 5,6 5,6 5,6 | 6 49 88 6 6 62 08 10 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW kW L/h kPa | 590 12 3,41 586 13 3,37 2,70 580 | 7 2 4, 7, 2 2 4, 7, 2 4, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, | 35 20 .25 .31 .20 .08 .34 | 860 26 4,97 855 26 4,65 3,92 800 | 656 15 3,79 652 15 4,15 2,93 580 | 83 2 4,/ 83 2 5,/ 3,/ | 36 23 83 31 23 02 60 | 990 31 5,72 984 31 5,67 4,12 800 | 4,36 750 19 4,24 3,24 729 | 5, 80 2 4, 3, 85 | 68 5 02 63 5 5 97 83 | 5,23 899 27 5,18 4,02 28 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 5, 99 1 5, 4, | 02 5 79 96 5 5 53 20 | 1040 16 6,01 1034 16 5,80 4,41 997 | 1016 14 5,87 1009 14 4,38 3,11 753 | 6, 6, 11 1 1 5, 4, | 86 80 8 8 11 17 | 7,18 1235 20 5,95 4,73 1023 | 1069 19 6,18 1063 19 6,35 4,20 1092 | 2 7,43 12 2 5,01 5,01 2 13 | 6 49 88 6 6 62 08 10 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type | l/h kPa kW l/h kPa kW kW l/h kPa type | 590 12 3,41 586 13 3,37 2,70 580 | 7 2 4, 7, 2 2 4, 7, 2 4, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, | 35 20 .25 .31 .20 .08 .34 | 860 26 4,97 855 26 4,65 3,92 800 | 656 15 3,79 652 15 4,15 2,93 580 | 83 2 4,/ 83 2 5,/ 3,/ | 36 23 83 31 23 02 60 | 990 31 5,72 984 31 5,67 4,12 800 | 4,36 750 19 4,24 3,24 729 | 5, 80 2 4, 3, 85 | 668 55 002 033 55 97 97 883 66 | 5,23 899 27 5,18 4,02 28 28 Centr | 862 12 4,98 856 12 4,69 3,53 807 12 | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 5 79 96 5 5 53 20 | 1040 16 6,01 1034 16 5,80 4,41 997 | 1016 14 5,87 1009 14 4,38 3,11 753 | 6, 6, 11 1 1 5, 4, | 86 80 8 8 11 17 | 7,18 1235 20 5,95 4,73 1023 | 1069 19 6,18 1063 19 6,35 4,20 1092 | 2 7,43 12 2 5,01 5,01 2 13 | 6 49 88 6 6 62 08 10 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor | kW I/h kPa kW kW I/h kPa type type | 590 12 3,41 586 13 3,37 2,70 580 | 7 7 2 2 4,, 7 7 2 2 4,, 1 3, 7 1 2 2 2 | .25 .25 .25 .00 .08 .08 .34 .00 .21 | 860 26 4,97 855 26 4,65 3,92 800 | 656 15 3,79 652 15 4,15 2,93 580 | 83 2 4,4 83 2 5,4 7,7 2 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 | 4,36 750 19 4,24 3,24 729 | 2 5, 80 80 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 558 55 502 633 55 55 97 97 883 66 | 5,23 899 27 5,18 4,02 28 28 | 862 12 4,98 856 12 4,69 3,53 807 12 | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 5 5 779 06 5 5 5 5 73 220 | 1040 16 6,01 1034 16 5,80 4,41 997 | 1016 14 5,87 1009 14 4,38 3,11 753 | 5, 11 1 1 5, 6, 1 1 1 1 1 | 886 886 880 88 333 111 117 | 7,18 1235 20 5,95 4,73 1023 | 1069 19 6,18 1063 19 6,35 4,20 1092 | 2 3 7,4 3 12 2 2 6 7,6 1 5,6 2 13 | 6 49 88 6 6 62 08 10 4 | 7,95 1367 29 8,07 5,40 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number | kW I/h kPa kW I/h kPa kW kW I/h kPa type type no. | 590 12 3,41 586 13 3,37 2,70 580 15 | 77 7 2 2 4,4,7 7 7 2 2 3 3,7 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 20 25 33 31 20 08 34 00 21 | 860 26 4,97 855 26 4,65 3,92 800 26 | 656 15 3,799 652 15 4,15 2,93 580 16 | 883 2 4,4,4,83 2 5,7 7,7 2 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 | 19 4,366 750 19 4,24 3,24 729 20 | 2 5,, 5,, 80 80 2 2 2 3 3, 83. | 558 55002 533 555 97 97 66 | 5,23 899 27 5,18 4,02 28 28 Centrr Asynch | 4,98 856 12 4,69 3,53 807 12 | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 5 5 779 06 5 5 5 5 3 3 8 | 1040 16 6,01 1034 16 55,80 4,41 997 17 | 5,87 1009 14 4,38 3,11 753 | 6,6,6,0) 111 1 1 5,5,4,4,9 9 1 1 | 886 886 880 88 833 111 117 44 | 7,18 1235 20 5,95 4,73 1023 17 | 1069 19 6,188 1063 19 6,35 4,20 1092 18 | 2 2 7,4 3 12 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 | 6 49 888 6 6 62 208 110 4 | 7,95 1367 29 8,07 5,40 1388 27 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h | 590 12 3,41 586 13 3,37 2,70 580 15 | 77 22 44,77 22 44,77 22 22 22 22 22 22 22 22 22 22 22 22 2 | 25 25 25 25 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28 | 860 26 4,97 855 26 4,65 3,92 800 26 | 3,79 652 15 4,15 2,93 580 16 | 838 22 4,/,4 83 2 5,/ 3,/ 70 2 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 | 19 4,36 750 19 4,24 3,24 729 20 | 2 5, 5, 888 888 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 55 5002 663 673 675 66 | 27 5,23 899 27 5,18 4,02 28 28 Centrr Asynch | 4,98 856 12 4,69 3,53 807 12 ifugal ronous | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 5 5 79 06 5 5 5 5 5 6 6 | 1040 16 6,01 1034 16 55,80 4,41 997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 | 6,6,6 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 886 886 880 88 88 111 117 144 | 7,18 1235 20 5,95 4,73 1023 17 | 1069 19 6,188 1063 19 6,35 4,20 1092 18 | 2 2 7,4 7,4 5 7,4 5,6 1 5,6 1 5,7 1 2 13 3 3 3 97 | 6 49 888 6 6 52 8 10 4 | 7,95 1367 29 8,07 5,40 1388 27 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h Pa | 3,41 586 13 3,37 2,70 580 15 | 77 2 2 4, 77 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 200 225 225 231 200 200 200 200 201 201 201 201 201 20 | 860 26 4,97 855 26 4,65 3,92 800 26 | 3,79 652 15 4,15 2,93 580 16 | 8:3 2 4,,, 8:3 2 2 5,, 70 2 2 | 83 83 83 33 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 | 19 4,36 750 19 4,24 3,24 729 20 785 32 | 2 5,5,5,88888888888888888888888888888888 | 55 5002 663 55 55 66 66 | 5,23 899 27 5,18 4,02 28 28 Centrr Asynch | 4,98 856 12 4,69 3,53 807 12 ifugal ronous | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 5 79 006 5 5 5 3 8 8 0 | 1040 16 6,01 1034 16 55,80 4,41 1997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 | 5 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 886 880 880 88 111 117 44 | 7,18 1235 20 5,95 4,73 1023 17 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 6 88 88 6 6 208 110 4 4 | 7,95 1367 29 8,07 5,40 1388 27 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h | 3,41 586 13 3,37 2,70 580 15 567 27 66 | 7 7 2 2 4,4,7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 335 220 225 331 200 08 334 002 211 33 360 60 60 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 | 656 15 3,79 652 15 4,15 2,93 580 16 | 88. 2 4,4 88. 2 2 5,4 3,4 77.7 5 5 8 8 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 | 4,360 7500 19 4,24 3,24 729 20 785 32 92 | 2 5, 5, 80 80 2 2 2 3 3, 8.5 2 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 002 003 003 003 003 003 004 005 005 005 005 005 005 005 005 005 | 5,23 899 27 5,18 4,02 28 28 Centr Asynch | 4,98 856 12 4,69 3,53 807 12 ifugal ronous 785 32 92 | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 55 779 66 55 53 220 51 66 | 1040 16 6,01 1034 16 5,80 4,41 997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 | 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 86 86 88 88 88 88 111 117 44 33 778 60 117 | 7,18 1235 20 5,95 4,73 1023 17 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 | 2 2 2 2 2 2 3 3 3 977 50 111 | 66 888 66 62 008 110 44 | 7,95 1367 29 8,07 5,40 1388 27 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h Pa | 3,41 586 13 3,37 2,70 580 15 | 7 7 2 2 4,4,7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 200 225 225 231 200 200 200 200 201 201 201 201 201 20 | 860 26 4,97 855 26 4,65 3,92 800 26 | 3,79 652 15 4,15 2,93 580 16 | 88. 2 4,4 88. 2 2 5,4 3,4 77.7 5 5 8 8 | 83 83 83 33 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 | 19 4,36 750 19 4,24 3,24 729 20 785 32 | 2 5,5,5,88888888888888888888888888888888 | 002 003 003 003 003 003 004 005 005 005 005 005 005 005 005 005 | 5,23 899 27 5,18 4,02 28 28 Centrr Asynch | 4,98 856 12 4,69 3,53 807 12 ifugal ronous | 100 10 10 10 10 10 10 10 10 10 10 10 10 | 02 55 779 66 55 53 220 51 66 | 1040 16 6,01 1034 16 55,80 4,41 1997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 | 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 886 880 880 88 111 117 44 | 7,18 1235 20 5,95 4,73 1023 17 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 66 888 66 62 008 110 44 | 7,95 1367 29 8,07 5,40 1388 27 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h Pa W | 5900 12 3,41 5866 13 3,377 2,700 580 15 567 27 66 V1 | 7 2 2 4, 7. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 335 220 225 331 200 08 334 002 211 33 36 60 60 60 60 60 60 60 60 60 6 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 | 8: 2 4,4 8: 2 5,4 3,7 70 2 2 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 2 5, 88 88 88 88 88 88 88 88 88 88 88 88 88 | 55 55 55 55 55 55 55 66 67 78 83 78 80 017 | 27 5,23 899 27 5,18 4,02 28 28 28 Centr Asynch 1050 58 138 V7 | 862 12 4,98 856 12 4,69 3,53 807 12 ifugal ronous 785 32 92 V2 | 100 100 100 100 100 100 100 100 100 100 | 02 55 779 06 55 53 33 220 66 6 8 8 8 8 8 0 0 | 1040 16 6,01 1034 16 5,80 4,41 997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5, 4, 4, 4, 4, 1 1 1 1 1 1 1 1 1 1 1 1 1 | 87 88 86 88 88 88 33 111 117 44 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,188 1063 19 6,355 4,200 1092 18 785 32 92 V2 | 2 2 2 3 7,4 5 7,6 1 5,6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 66 49 888 66 62 2008 110 4 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h Pa W | 5900 12 3,41 586 13 3,37 2,70 580 15 567 27 66 V1 | 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 225 331 200 08 334 002 211 33 3770 60 60 89 94 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 567 27 66 V1 | 83 2 4,4 83 2 2 5,4 3,4 70 2 2 2 8 8 8 77 77 5 5 8 8 8 7 7 7 7 7 7 7 8 8 8 8 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5, 5, 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 55 55 55 55 55 55 55 66 6 78 8 0 0 117 5 5 | 27 5,23 899 27 5,18 4,02 28 28 Centrr Asynch 1050 58 138 V7 | 4,98 856 12 4,69 3,53 807 12 fifugal ronous 785 32 92 V2 | 100 100 100 100 100 100 100 100 100 100 | 02 55 779 06 55 53 38 78 00 07,7 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 1050 58 138 V7 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 87 88 88 88 88 88 88 83 11 11 17 44 86 90 117 17 17 17 17 17 17 17 17 17 17 17 17 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 V2 | 2 2 7,7,7 3 12 2 2 2 13 3 3 7 7,6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 66 49 888 66 62 2008 110 4 4 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) Sound power level (outlet) | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h Pa W | 5900 12 3,41 5866 13 3,377 2,700 580 15 567 27 66 V1 | 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 225 331 200 08 334 002 221 33 370 60 60 89 94 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 | 8: 2 4,4 8: 2 5,4 3,7 70 2 2 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5, 5, 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 55 55 55 55 55 55 55 66 6 78 8 0 0 117 5 5 | 27 5,23 899 27 5,18 4,02 28 28 28 Centr Asynch 1050 58 138 V7 | 862 12 4,98 856 12 4,69 3,53 807 12 ifugal ronous 785 32 92 V2 | 100 100 100 100 100 100 100 100 100 100 | 02 55 779 06 55 53 38 78 00 07,7 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 87 88 88 88 88 88 88 83 11 11 17 44 86 90 117 17 17 17 17 17 17 17 17 17 17 17 17 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,188 1063 19 6,355 4,200 1092 18 785 32 92 V2 | 2 2 7,7,7 3 12 2 2 2 13 3 3 7 7,6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 66 49 888 66 62 2008 110 4 4 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) Sound power level (outlet) Water coil | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h Pa W | 5900 12 3,41 586 13 3,37 2,70 580 15 567 27 66 V1 | 7 2 2 4, 4 4, 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 331 200 08 334 202 21 3 3 3 770 60 60 89 9 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 567 27 66 V1 | 83. 44,4 83. 2 5,4 7,7 5,5 8,8 V | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5,5,5,88 88 88 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 558 55 55 563 55 57 97 883 555 66 67 77 75 75 | 27 5,23 899 27 5,18 4,02 28 28 Centrr Asynch 1050 58 138 V7 | 4,98 856 12 4,69 3,53 807 12 fifugal ronous 785 32 92 V2 | 100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 02 55 79 79 66 55 53 320 66 68 88 80 017 75 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 1050 58 138 V7 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5, 4, 4, 99 99 55 11 V | 886 886 1880 1883 333 111 117 144 175 175 170 170 170 170 170 170 170 170 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 V2 | 2 2 3 7,4 5 5,6 5 9 1 1 1 1 1 60 5 9 1 5 9 | 66 449 888 66 62 888 100 44 44 44 55 100 100 100 100 100 100 100 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) Sound power level (outlet) | kW I/h kPa kW I/h kPa kW L/h kPa type type no. m³/h Pa W | 5900 12 3,41 586 13 3,37 2,70 580 15 567 27 66 V1 | 7 2 2 4, 4 4, 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 225 331 200 08 334 002 211 33 3770 60 60 89 94 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 567 27 66 V1 | 83 2 4,4 83 2 2 5,4 3,4 70 2 2 2 8 8 8 77 77 5 5 8 8 8 7 7 7 7 7 7 7 8 8 8 8 | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5, 5, 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 558 55 55 563 55 57 97 883 555 66 67 77 75 75 | 27 5,23 899 27 5,18 4,02 28 28 Centrr Asynch 1050 58 138 V7 | 4,98 856 12 4,69 3,53 807 12 fifugal ronous 785 32 92 V2 | 100 100 100 100 100 100 100 100 100 100 | 02 55 79 79 66 55 53 320 66 68 88 80 017 75 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 1050 58 138 V7 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5, 4, 4, 99 99 55 11 V | 87 88 88 88 88 88 88 83 11 11 17 44 86 90 117 17 17 17 17 17 17 17 17 17 17 17 17 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 V2 | 2 2 7,7,7 3 12 2 2 2 13 3 3 7 7,6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 66 449 888 66 62 888 100 44 44 44 55 100 100 100 100 100 100 100 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) Sound power level (outlet) Water coil | l/h kPa kW l/h kPa kW kW l/h kPa type type no. m³/h Pa W | 5900 12 3,41 586 13 3,37 2,70 580 15 567 27 66 V1 | 7 2 2 4, 4 4, 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 331 200 08 334 202 21 3 3 3 770 60 60 89 9 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 567 27 66 V1 | 83. 44,4 83. 2 5,4 7,7 5,5 8,8 V | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5,5,5,88 88 88 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 558 55 55 563 55 57 97 883 555 66 67 78 77 75 75 | 27 5,23 899 27 5,18 4,02 28 28 Centrr Asynch 1050 58 138 V7 | 4,98 856 12 4,69 3,53 807 12 fifugal ronous 785 32 92 V2 | 100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 02 55 79 79 66 55 53 320 66 68 88 80 017 75 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 1050 58 138 V7 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5, 4, 4, 99 99 55 11 V | 886 886 1880 1883 333 111 117 144 175 175 170 170 170 170 170 170 170 170 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 V2 | 2 2 3 7,4 5 5,6 5 9 1 1 1 1 1 60 5 9 1 5 9 | 66 449 888 66 62 888 100 44 44 44 55 100 100 100 100 100 100 100 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |
| Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Input power Electrical wiring Duct type fan coil sound data (4) Sound power level (inlet + radiated) Sound power level (outlet) Water coil Water coil | l/h kPa kW l/h kPa kW kW l/h kPa type type no. m³/h Pa W | 5900 12 3,41 586 13 3,37 2,70 580 15 567 27 66 V1 | 7 2 2 4, 4 4, 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 25 331 200 08 334 202 21 3 3 3 770 60 60 89 9 | 860 26 4,97 855 26 4,65 3,92 800 26 920 71 118 V7 | 656 15 3,79 652 15 4,15 2,93 580 16 567 27 66 V1 | 83. 44,4 83. 2 5,4 7,7 5,5 8,8 V | 83 83 83 83 83 83 83 83 83 83 83 83 83 8 | 990 31 5,72 984 31 5,67 4,12 800 28 920 71 118 V7 | 19 4,36 750 19 4,24 3,24 729 20 785 32 92 V2 | 2 5,5,5,88 88 88 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 558 55 55 563 55 57 97 883 555 66 67 78 77 75 75 | 5,23 899 27 5,18 4,02 28 28 Centrr Asynch 1050 58 138 V7 | 4,98 856 12 4,69 3,53 807 12 fifugal ronous 785 32 92 V2 | 100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 02 55 79 79 66 55 53 320 66 68 88 80 017 75 55 | 1040 16 6,01 1034 16 5,80 4,41 997 17 1050 58 138 V7 | 1016 14 5,87 1009 14 4,38 3,11 753 10 785 32 92 V2 | 5, 4, 4, 99 99 55 11 V | 886 886 1880 1883 333 111 117 144 175 175 170 170 170 170 170 170 170 170 | 1242 20 7,18 1235 20 5,95 4,73 1023 17 1050 58 138 V7 | 1069 19 6,18 1063 19 6,35 4,20 1092 18 785 32 92 V2 | 2 2 3 7,4 5 5,6 5 9 1 1 1 1 1 60 5 9 1 5 9 | 66 449 888 66 62 888 100 44 44 44 55 100 100 100 100 100 100 100 | 7,95 1367 29 8,07 5,40 1388 27 1050 58 138 V7 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

| | | F | CZ201P | 0 | F | CZ301P | 0 | F | CZ401P | 0 | F | CZ501P | 0 | F | CZ601P | 0 | F | CZ701P | 0 | F | CZ901P | 0 |
|---------------------------------------|-------|------|--------|------|------|--------|------|------|--------|------|------|----------|------|------|--------|------|------|--------|------|------|------------|------|
| | | 2 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 5 | 6 | 1 | 4 | 7 | 2 | 5 | 7 | 2 | 5 | 7 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,06 | 1,37 | 1,48 | 1,82 | 2,39 | 2,55 | 2,19 | 2,75 | 2,99 | 2,59 | 3,30 | 3,34 | 3,13 | 3,85 | 4,35 | 4,13 | 4,40 | 4,60 | 5,16 | 5,71 | 5,77 |
| Water flow rate system side | l/h | 93 | 120 | 130 | 159 | 210 | 223 | 192 | 240 | 262 | 226 | 290 | 301 | 274 | 336 | 381 | 361 | 385 | 403 | 452 | 500 | 504 |
| Pressure drop system side | kPa | 5 | 8 | 9 | 8 | 12 | 14 | 5 | 7 | 8 | 6 | 9 | 9 | 9 | 13 | 16 | 16 | 15 | 17 | 10 | 12 | 12 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,93 | 1,30 | 1,44 | 1,70 | 2,40 | 2,63 | 2,29 | 3,06 | 3,41 | 2,68 | 3,65 | 3,82 | 3,37 | 4,08 | 4,65 | 4,24 | 4,97 | 5,18 | 4,38 | 5,33 | 5,95 |
| Sensible cooling capacity | kW | 0,74 | 1,14 | 1,18 | 1,27 | 1,86 | 2,03 | 1,66 | 2,24 | 2,52 | 1,94 | 2,70 | 2,83 | 2,70 | 3,34 | 3,92 | 3,24 | 3,83 | 4,02 | 3,11 | 4,11 | 4,73 |
| Water flow rate system side | I/h | 160 | 224 | 248 | 292 | 413 | 452 | 394 | 526 | 586 | 461 | 628 | 657 | 580 | 702 | 800 | 729 | 855 | 28 | 753 | 917 | 1023 |
| Pressure drop system side | kPa | 8 | 13 | 15 | 8 | 16 | 18 | 11 | 18 | 22 | 13 | 22 | 24 | 15 | 21 | 26 | 20 | 26 | 28 | 10 | 14 | 17 |
| Fan | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | (| entrifug | al | | | | | | | | | |
| Fan motor | type | | | | | | | | | | Asy | ynchron | ous | | | | | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 148 | 226 | 254 | 263 | 404 | 446 | 346 | 487 | 559 | 400 | 592 | 627 | 567 | 770 | 920 | 785 | 978 | 1050 | 785 | 978 | 1050 |
| High static pressure | Pa | 21 | 50 | 63 | 21 | 50 | 61 | 25 | 50 | 66 | 22 | 50 | 56 | 27 | 50 | 71 | 32 | 50 | 58 | 32 | 50 | 58 |
| Input power | W | 28 | 41 | 74 | 38 | 55 | 78 | 53 | 63 | 102 | 49 | 80 | 627 | 66 | 89 | 118 | 92 | 117 | 138 | 92 | 117 | 138 |
| Electrical wiring | | V2 | V4 | V6 | V1 | ٧4 | V6 | V1 | V3 | V6 | V1 | V5 | V6 | V1 | V4 | ٧7 | V2 | V5 | V7 | V2 | V 5 | ٧7 |
| Duct type fan coil sound data (3) | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 41,0 | 56,0 | 59,0 | 39,0 | 51,0 | 54,0 | 44,0 | 54,0 | 55,0 | 45,0 | 55,0 | 57,0 | 46,0 | 56,0 | 61,0 | 54,0 | 60,0 | 62,0 | 54,0 | 60,0 | 62,0 |
| Sound power level (outlet) | dB(A) | 37,0 | 52,0 | 55,0 | 35,0 | 47,0 | 49,0 | 40,0 | 50,0 | 52,0 | 41,0 | 51,0 | 53,0 | 44,0 | 54,0 | 60,0 | 52,0 | 59,0 | 61,0 | 52,0 | 59,0 | 61,0 |
| Water coil | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | - 1 | | 0,5 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,2 | | | 1,2 | | | 1,8 | |
| Water content the secondary coil | I | | 0,2 | | | 0,3 | | | 0,3 | | | 0,3 | | | 0,4 | | | 0,4 | | | 0,7 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | | | | | | | | | | 1/2" | | | | | | | | | | |

⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | FCZ100P | FCZ150P | FCZ200P | FCZ250P | FCZ300P | FCZ350P | FCZ400P | FCZ450P | FCZ500P | FCZ550P |
|---------------------------------|----------------------|--|--|--|--|---|---|---|--|---|--|
| Dimensions and weights | | | | | | | | | | | |
| <u>A</u> | mm | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| В | mm | 412 | 412 | 522 | 522 | 753 | 753 | 973 | 973 | 973 | 973 |
| (| mm | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 |
| D | mm | 452 | 452 | 562 | 562 | 793 | 793 | 1013 | 1013 | 1013 | 1013 |
| Net weight | kg | 12,00 | 13,00 | 12,00 | 14,00 | 14,00 | 16,00 | 20,00 | 22,00 | 23,00 | 24,00 |
| | | FCZ600P | FCZ650P | FCZ700P | FCZ750P | FC | Z800P | FCZ850P | FCZ900P | FCZ950P | FCZ1000P |
| Dimensions and weights | | | | | | | | | | | |
| A | mm | 216 | 216 | 216 | 216 | | 216 | 216 | 216 | 216 | 216 |
| В | mm | 1122 | 1122 | 1122 | 1122 | 1 | 122 | 1122 | 1122 | 1122 | 1122 |
| C | mm | 453 | 453 | 453 | 453 | | 453 | 453 | 558 | 558 | 558 |
| D | mm | 1147 | 1147 | 1147 | 1147 | 1 | 147 | 1147 | 1147 | 1147 | 1147 |
| Net weight | kg | 29,00 | 31,00 | 29,00 | 31,00 | 2 | 9,00 | 31,00 | 32,00 | 32,00 | 32,00 |
| | | | | | | | | | | | |
| | | FCZ101P | FCZ102P | FCZ201P | FCZ202P | FCZ301P | FCZ302P | FCZ401P | FCZ402P | FCZ501P | FCZ502P |
| Dimensions and weights | | FCZ101P | FCZ102P | FCZ201P | FCZ202P | FCZ301P | FCZ302P | FCZ401P | FCZ402P | FCZ501P | FCZ502P |
| Dimensions and weights | mm | FCZ101P 216 | FCZ102P 216 | FCZ201P 216 | FCZ202P 216 | FCZ301P 216 | FCZ302P 216 | FCZ401P 216 | FCZ402P 216 | FCZ501P 216 | FCZ502P 216 |
| Dimensions and weights A B | mm mm | | | | | | | | | | |
| Dimensions and weights A B C | | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| Dimensions and weights A B C D | mm | 216 412 | 216 412 | 216 522 | 216 522 | 216 753 | 216 753 | 216 973 | 216 973 | 216 973 | 216 973 |
| A B C | mm mm | 216 412 453 | 216 412 453 | 216 522 453 | 216 522 453 | 216 753 453 | 216 753 453 | 216 973 453 | 216 973 453 | 216 973 453 | 216 973 453 |
| B C D | mm mm mm | 216 412 453 452 | 216 412 453 452 | 216 522 453 562 13,00 | 216 522 453 562 14,00 | 216 753 453 793 | 216 753 453 793 | 216 973 453 1013 21,00 | 216 973 453 1013 22,00 | 216 973 453 1013 | 216 973 453 1013 |
| B C D | mm mm mm | 216 412 453 452 12,00 | 216 412 453 452 13,00 | 216 522 453 562 13,00 | 216 522 453 562 14,00 | 216 753 453 793 15,00 | 216 753 453 793 16,00 | 216 973 453 1013 21,00 | 216 973 453 1013 22,00 | 216 973 453 1013 23,00 | 216 973 453 1013 24,00 |
| A B C D Net weight | mm mm mm | 216 412 453 452 12,00 | 216 412 453 452 13,00 | 216 522 453 562 13,00 | 216 522 453 562 14,00 | 216 753 453 793 15,00 | 216 753 453 793 16,00 | 216 973 453 1013 21,00 P FCZ | 216 973 453 1013 22,00 | 216 973 453 1013 23,00 | 216 973 453 1013 24,00 |
| A B C D Net weight | mm mm mm kg | 216 412 453 452 12,00 FCZ601P | 216 412 453 452 13,00 | 216 522 453 562 13,00 FCZ | 216 522 453 562 14,00 | 216 753 453 793 15,00 | 216 753 453 793 16,00 FCZ801 | 216 973 453 1013 21,00 P FCZ | 216 973 453 1013 22,00 | 216 973 453 1013 23,00 FCZ901P | 216 973 453 1013 24,00 FCZ1001P |
| A B C D Net weight | mm mm mm kg | 216 412 453 452 12,00 FCZ601P | 216 412 453 452 13,00 FCZ602F | 216 522 453 562 13,00 FCZ | 216 522 453 562 14,00 701P | 216 753 453 793 15,00 FCZ702P | 216 753 453 793 16,00 FCZ801 | 216 973 453 1013 21,00 P FC2 | 216 973 453 1013 22,00 | 216 973 453 1013 23,00 FCZ901P | 216 973 453 1013 24,00 FCZ1001P |
| A B C D Net weight | mm mm kg mm | 216 412 453 452 12,00 FCZ601P | 216 412 453 452 13,00 FCZ602F 216 1122 | 216 522 453 562 13,00 FCZ | 216 522 453 562 14,00 701P | 216 753 453 793 15,00 FCZ702P 216 1122 | 216 753 453 793 16,00 FCZ801 216 | 216 973 453 1013 21,00 P FC2 | 216 973 453 1013 22,00 802P | 216 973 453 1013 23,00 FCZ901P 216 1122 | 216 973 453 1013 24,00 FCZ1001P |















FCZIP

Fan coil unit for ducted installations

Cooling capacity $0.89 \div 8.60 \text{ kW}$ Heating capacity $2.02 \div 17.02 \text{ kW}$



- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Suitable for duct-type installations too
- Total comfort: reduced variations in temperature and relative humidity
- Vertical and horizontal installation
- Very quiet





DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized main coil and the possible secondary coil have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main coil, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

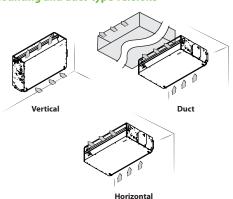
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSIONS

Flush-mounting and duct-type versions



In the standard configuration there is no useful static pressure available. If necessary for canaled installations, you must act on the engine dip switches, for more details refer to the technical documentation.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

| Field | Description |
|---------|------------------|
| 1,2,3,4 | FCZI |
| | Size |
| | 2, 3, 4, 5, 7, 9 |
| 6 | Main coil |
| 0 | Standard |
| 5 | Oversized |
| 7 | Secondary coil |

| Field | Description |
|-------|--|
| 0 | Without coil |
| 1 | Standard |
| 2 | Oversized |
| 8 | Version |
| Р | Flush-mounting, without cabinet |
| PR | Flush-mounting, without cabinet, with water connections on right-hand side |

SIZE AVAILABLE FOR VERSION

| Size | | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Versions produced (by size) | | | | | | | | | | | | | |
| Versions available (by size) | P,PR | • | • | • | • | • | • | • | • | • | • | • | • |
| | | | | | | | | | | | | | |
| | | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| Versions produced (by size) | | | | | | | | | | | | | |
| Versions available (by size) | P,PR | | | | | | | | | | | | |

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PXAI: Thermostat on the machine for controlling the fan coils (both with asynchronous and brushless motors), complete with water and air probes to be positioned in the relative seats, and a plastic support to fix it on the side of the unit. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, purifier devices (Cold Plasma and germicidal lamp), or radiant plate.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heat-

ing" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ41: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4124: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ42: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4224: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ43: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The

kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4324: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Single row hot water heat exchanger.

Installation accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

BC: Condensate drip.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

MZA: Cabinet housing with fixed fins. MZU: Cabinet housing with adjustable fins.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

PA: Intake plenum in galvanised sheet metal, complete with suction couplings for circular-section ducts.

PAF: Intake plenum providing recovery and delivery on the same side, for all installations where the machine needs to be positioned outside the air conditioned rooms to minimise the noise levels and facilitate maintenance.

PM: Delivery plenum with circular flanges. Sandwich structure in hot galvanised steel, with interposed polyurethane foam (40 kg/m3). The panel is 15 mm thick. It is installed in place of the delivery panel with a rectangular flange, using the same 4 self-threading screws.

RD: Straight delivery coupling for canalisation.

RDA: Straight suction coupling for canalisation.

RP: 90° delivery coupling. RPA: 90° suction coupling.

Accessories for ducting

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDA_C: Straight intake connection with circular flanges.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM C: Straight discharge internally insulated, with circular flanges.

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PR0503 | P,PR | • | • | • | • | • | | | • | • | • | • | • | | • | • | • | • | | • | • | • | • | • |
| PXAI | P,PR | • | • | • | • | • | | | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • |
| SA5 (2) | P,PR | • | • | | | • | | | | • | • | | • | • | | • | • | • | | • | • | | | • |
| SW3 (2) | P,PR | • | | | | • | | | | • | • | | • | | | | | | | • | • | | | • |
| SW5 (2) | P,PR | • | • | • | | • | | | | • | • | | • | • | | | • | • | | • | • | • | | • |
| TX (1) | P,PR | | • | • | • | • | | | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

For more information about VMF system, refer to the dedicated documentation.

VMF system

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E19I | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E3 | P,PR | • | • | • | • | • | • | • | • | • | • | | • | | • | • | • | • | • | • | • | • | • | • |
| VMF-E4DX | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4X | P,PR | | • | | | • | • | | | | • | | • | • | | • | | • | | • | | | | • |
| VMF-IR | P,PR | • | • | | • | • | • | | • | • | | | | | | • | | • | • | • | • | | | • |
| VMF-SW | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-SW1 | P,PR | | • | | | • | • | | | • | • | | • | • | • | | • | • | | • | • | | | • |

Water valves

Valve Kit for 4 pipe systems

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VCZ1X4L (1) | P,PR | • | | | ٠ | | | | | | | | | | | | | | | | | | | |
| VCZ1X4R (1) | P,PR | • | | | • | | | | | | | | | | | | | | | | | | | |
| VCZ2X4L (1) | P,PR | | | | | • | | | • | • | | | • | • | | | • | • | | | • | | | |
| VCZ2X4R (1) | P,PR | | | | | | | | • | • | | | • | • | | | • | • | | | • | | | |
| VCZ3X4L (1) | P,PR | | | | | | | | | | | | | | | | | | | | | • | | • |

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VCZ3X4R (1) | P,PR | | | | | | | | | | | | | | | | | | | | | | | • |

 $(1) \ \ The valves can be combined with the units if there is a control panel for managing them.$

3 way valve kit

| 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
|---------|---|---|--|--|---|--|---|---|--|---|--|
| VCZ41 | VCZ41 | VCZ41 | VCZ41 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 | VCZ42 |
| VCZ4124 | VCZ4124 | VCZ4124 | VCZ4124 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 |
| | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF44 | VCF44 | |
| - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - |
| VCF44 | | | | VCF44 | | | | VCF44 | | | |
| VCF4424 | | | | VCF4424 | | | | VCF4424 | | | |
| 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| | | | | | | | | | | | |
| VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4224 | VCZ4324 | VCZ4324 | VCZ4324 | |
| | VCF44 | VCF44 | | | VCF44 | VCF44 | | | VCF45 | | |
| - | VCF4424 | VCF4424 | - | - | VCF4424 | VCF4424 | - | - | VCF4524 | - | |
| VCF44 | | | | VCF44 | | | | VCF45 | | | |
| VCF4424 | - | - | - | VCF4424 | - | - | - | VCF4524 | - | - | |
| | VCZ41 VCZ4124 - VCF44 VCF4424 500 VCZ42 VCZ4224 - VCF44 | VCZ41 VCZ4124 VCZ4124 VCZ4124 VCF44 VCF4424 VCF4424 - S00 S01 VCZ42 VCZ42 VCZ42 VCZ4224 VCF44 VCF4424 | VCZ41 VCZ41 VCZ4124 VCZ4124 VCZ4124 VCZ4124 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 VCF4424 - - 500 501 502 VCZ42 VCZ42 VCZ42 VCZ4224 VCZ4224 VCZ4224 VCF44 VCF44 VCF4424 VCF442 VCF4424 VCF4424 | VCZ41 VCZ41 VCZ41 VCZ4124 VCZ4224 VCZ4 | VCZ41 VCZ41 VCZ41 VCZ42 VCZ4124 VCZ4124 VCZ4124 VCZ4124 VCF44 VCF44 VCF4424 - VCF44 VCF4424 - - VCF44 VCF4424 - - VCF44 VCF4424 - - VCF4424 - - - VCF4424 - - - VCF4424 - - - VCZ424 VCZ42 VCZ42 VCZ42 VCZ4224 VCZ4224 VCZ4224 VCZ4224 VCF44 VCF442 - - VCF44 VCF4424 - - VCF44 VCF4424 - - | VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ4224 VCF44224 VCZ4222 VCZ422 VCZ422 VCZ422 VCZ4224 VCZ42224 VCZ4222 | VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ42 VCZ42 VCZ4224 VCZ422 VCZ422 VCZ422 VCZ422 VCZ4224 VCZ4224 | VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ42 VCZ42 VCZ42 VCZ4224 VCZ422 VCZ422 VCZ422 VCZ422 VCZ4224 VCZ4224 | VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ42 VCZ42 VCZ42 VCZ42 VCZ42 VCZ42 VCZ4224 VCZ42424 VCF4424 VCF4424 | VCZ41 VCZ41 VCZ41 VCZ41 VCZ42 VCZ4224 V | VCZ41 VCZ41 VCZ41 VCZ42 VCZ424 VCZ424 VCZ424 VCZ4224 VCZ422 VCZ4224 VCZ4224 |

VCF41 - 42 - 43; VCF44 - 45 (230V~50Hz) VCF4124 - 4224 - 4324; VCF4424 - 4524 (24V)

2 way valve kit

| , | | | | | | | | | | | | |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 |
| Main coil | VCZD1 | VCZD1 | VCZD1 | VCZD1 | VCZD2 |
| Maili Coli | VCZD124 | VCZD124 | VCZD124 | VCZD124 | VCZD224 |
| C | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | |
| Secondary coil | - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - |
| A.I.I.'s.' I! I // DW// | VCFD4 | | | | VCFD4 | | | | VCFD4 | | | |
| Additional coil "BV" | VCFD424 | - | - | - | VCFD424 | - | - | - | VCFD424 | - | - | - |
| | | | | | | | | | | | | |
| | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 | |
| Main coil | VCZD2 | VCZD3 | VCZD3 | VCZD3 | |
| Maili Coli | VCZD224 | VCZD324 | VCZD324 | VCZD324 | |
| Ca aan dama aail | | VCFD4 | VCFD4 | | | VCFD4 | VCFD4 | | | VCFD4 | | |
| Secondary coil | - | VCFD424 | VCFD424 | - | - | VCFD424 | VCFD424 | - | - | VCFD424 | - | |
| Additional sail //DW// | VCFD4 | | | | VCFD4 | | | | VCFD4 | | | |
| Additional coil "BV" | VCFD424 | - | - | - | VCFD424 | - | - | - | VCFD424 | - | - | |

VCZD1 - 2 - 3; VCFD4 (230V~50Hz) VCZD124 - 224 - 324; VCF424 (24V)

Combined Adjustment and Balancing Valve Kit

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VJP060 (1) | P,PR | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | |
| VJP060M (2) | P,PR | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | |
| VJP090 (1) | P,PR | | | | | | | | | | | | | • | | | | | | | | | | |
| VJP090M (2) | P,PR | | | | | | | | | • | | | • | | • | • | | | | | | | | |
| VJP150 (1) | P,PR | | | | | | | | | | | | | | | | | • | | • | • | | • | • |
| VJP150M (2) | P,PR | | | | | | | | | | | | | | | | | • | | | | | | • |

(1) 230V~50Hz (2) 24V

(Heating only) additional coil

Heating only additional coil

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| BV122 (1) | P,PR | • | | | | | | | | | | | | | | | | | | | | | | |
| BV132 (1) | P,PR | | | | | • | | | | | | | | | | | | | | | | | | |
| BV142 (1) | P,PR | | | | | | | | | • | | | | • | | | | | | | | | | |
| BV162 (1) | P,PR | | | | | | | | | | | | | | | | | | | | | • | | |
| BVZ800 (1) | P,PR | | | | | | | | | | | | | | | | | • | | | | | | |

(1) Not available for sizes with oversized main coil.

Installation accessories

Wall mounting kit

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AMP20 | P,PR | • | • | | • | • | • | • | | • | • | • | • | • | • | • | | | | | | | | |
| AMPZ | P.PR | | | | | | | | | | | | | | | | | | • | | | | | • |

Condensate drip

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| BCZ4 (1) | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| BCZ5 (2) | P,PR | • | • | • | • | • | ٠ | • | • | • | • | • | ٠ | • | • | • | • | • | • | • | • | | | |

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|--|--|---|--|---|---|--------------------------|-------------------|---------------------------|--------|------------|--------------|-----------|---------|-----------|-----------|------|-----|-----|-----|-----|-----|-----|----------|-------------------|
| BCZ6 (2) 1) For vertical install | P,PR ation | | | | | | | | | | | | | | | | | | | | | • | • | • |
| 2) For horizontal inst | allation. | | | | | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
| BC8 (1) BC9 (1) | P,PR P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| (1) For horizontal inst | , | | | | | | | | | | | | | | | | | | | | | | | |
| Condensate re | | levice | | | | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| DSCZ4 (1) | P,PR | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| (1) DSC4 cannot be m | ounted if even just o | one of these | e access | ories is a | lso inst | alled: Al | MP - AM | PZ valve | VCZ1-2 | -3-4 X4 | L/R and | all the c | ondensa | ite colle | ction tra | ays. | | | | | | | | |
| Ventilcassafo | rma | | | | | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| CHF22 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| CHF32 | P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| CHF42 | P,PR | | | | | | | | | • | • | • | • | ٠ | • | • | • | | | | | | | |
| CHF62 | P,PR | | | | | | | | | | | | | | | | | • | • | • | • | • | <u>·</u> | • |
| Cabinet housi | ng with fixed | l fins. | | | | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| MZA200 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| MZA300 | P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| MZA500 | P,PR | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | |
| MZA800 MZA900 | P,PR P,PR | | | | | | | | | | | | | | | | | • | • | • | • | | | |
| IVIZAZUU | r,r n | | | | | | | | | | | | | | | | | | | | | · | · | · |
| Cabinet housi | ng with adju | stable t | fins. | | | | | | | | | | | | | | | | | | | | | |
| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| MZU100 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| MZU300 | P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| MZU500 | P,PR P,PR | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | |
| MZU800 MZU900 | P,PR | | | | | | | | | | | | | | | | | • | • | • | • | | | |
| L <i>ower intake <u>e</u> </i> Model | grille Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | |
| GA22 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | 95 |
| GA32 | P,PR | | | | | | | | | | | | | | | | | | | | | | | 95 |
| GA42 | P,PR P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | 95 |
| GA62 | r.rn | | | | | • | • | • | • | • | | | • | • | • | | • | | | | | | | 95 |
| Intake grilles | ., | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | 95 |
| | | ıvers aı | nd fil | ter | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 95 |
| | with fixed lou Ver | 200 | nd fil | ter 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | • |
| GAF22 | with fixed lou Ver P,PR | | | | 250 | 300 | 301 | 302 | | | | | | | | | | 700 | 701 | 702 | 750 | • | 901 | • |
| GAF22 GAF32 | with fixed lou Ver P,PR P,PR | 200 | 201 | 202 | | | | | 350 | | | | | | | | | 700 | 701 | 702 | 750 | • | 901 | |
| GAF22 GAF32 GAF42 | With fixed low Ver P,PR P,PR P,PR | 200 | 201 | 202 | | 300 | 301 | 302 | | | | | | | | | | 700 | 701 | 702 | 750 | • | 901 | |
| GAF22 GAF32 GAF42 GAF62 | Ver P,PR P,PR P,PR P,PR P,PR | 200 | 201 | 202 | | 300 | 301 | 302 | | | | | | | | | | | 701 | 702 | 750 | • | 901 | • |
| GAF22 GAF32 GAF42 GAF62 Delivery grille | Ver PPR PPR PPR PPR PPR PPR | 200 · | 201 · | 202 • | • | 300 | 301 | 302 | • | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | • | • | • | • | 900 | • | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model | Ver P,PR P,PR P,PR P,PR P,PR P,PR Ver | 200 • table lo | 201 | 202 • | 250 | 300 | 301 | 302 | | | | | | | | | | | 701 | 702 | 750 | • | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR Ver P,PR | 200 · | 201 · | 202 • | • | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | • | • | • | • | 900 | • | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | 200 • table lo | 201 · | 202 • | 250 | 300 | 301 | 302 | • | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | • | • | • | • | 900 | • | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM32 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR Ver P,PR | 200 • table lo | 201 · | 202 • | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | • | • | • | • | 900 | • | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | 200 • table lo 200 | 201 • • • • • • • • • • • • • • • • • • • | 202 • **s 202 • | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | table lo | 201 ouver 201 | 202 ss 202 | 250 • | 300 | 301 | 302 | 350 | 400 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | 200 • table lo 200 | 201 • • • • • • • • • • • • • • • • • • • | 202 • **s 202 • | 250 · | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenum Model | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | table lo 200 . table lo 200 . | 201 · · · · · · · · · · · · · · · · · · · | 202 202 | 250 • | 300 | 301 | 302 | 350 | 400 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenum Model PA22 PA32 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | table lo 200 . table lo 200 . | 201 · · · · · · · · · · · · · · · · · · · | 202 202 | 250 · | 300 | 301 | 302 | 350 | 400 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenum Model PA22 PA32 PA42 | Ver P,PR P,PR P,PR P,PR P,PR P,PR P,PR P,P | table lo 200 . table lo 200 . | 201 · · · · · · · · · · · · · · · · · · · | 202 202 | 250 · | 300 | 301 | 302 | 350 | 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenum Model PA22 PA32 PA42 PA62 | Ver PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 | 201 . buver 201 | 202 · · · · · · · · · · · · · · · · · · | 250 · | 300 | 301 | 302 | 350 | 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM42 GM62 Intake plenum Model PA22 PA32 PA42 PA62 Intake plenum Model | Ver PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 | 201 . buver 201 | 202 · · · · · · · · · · · · · · · · · · | 250 · | 300 | 301 | 302 | 350 | 400 | 401 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenun Model PA22 PA32 PA42 PA62 Intake plenun Model PA22F | With fixed low Ver PPR PPR PPR PPR PPR PPR PPR P | table lo 200 . table lo 200 . tal com 200 . | 201 · 201 · 201 · 201 · | 202 · · · · · · · · · · · · · · · · · · | 250 · · · · · · · · · · · · · · · · · · · | 300 . 300 . nectos 300 . | 301 | 302 | 350 | 400 | 401 . 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM62 Intake plenum Model PA22 PA32 PA42 PA62 Intake plenum Model PA22 PA32 PA42 PA62 | With fixed low Ver PPR PPR PPR PPR PPR PPR PPR P | table lo 200 . table lo 200 . tal com 200 . | 201 201 201 201 201 | 202 · · · · · · · · · · · · · · · · · · | 250 · · · · · · · · · · · · · · · · · · · | 300 . 300 . nectos 300 . | 301 | 302 | 350 | 400 | 401 . 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
| Model GAF22 GAF32 GAF42 GAF62 Delivery grille Model GM22 GM32 GM42 GM42 GM62 Intake plenum Model PA22 PA32 PA42 PA62 Intake plenum Model PA22F PA32F PA42F PA62F | With fixed low Ver PPR PPR PPR PPR PPR PPR PPR P | table lo 200 . table lo 200 . tal com 200 . | 201 201 201 201 201 | 202 · · · · · · · · · · · · · · · · · · | 250 · · · · · · · · · · · · · · · · · · · | 300 . 300 | 301 301 301 301 . | 302 . 302 . 7 circ. 302 . | 350 | 400 | 401 . 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 950 950 |

| Property | Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 95 |
|--|---|---|--|------------------------------|-------------------------|---|---------------------|-----|-----|----------|-------------------------|-----|-----------------------|-----|----------------------|----------|--------------------|-----|----------|-------------------------|-----------------|----------|-----|-----|----------|
| Part | | | | | | | 300 | 301 | 302 | 330 | 400 | 401 | 402 | 430 | 300 | 301 | 302 | 220 | /00 | /01 | /02 | /30 | 900 | 901 | 93 |
| Section Sect | | | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| Traight delivery coupling taked we 20 20 20 20 20 20 30 30 | | | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| Traight delivery coupling used | | | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | |
| Section Sect | M62 | P,PR | | | | | | | | | | | | | | | | | • | • | • | • | • | • | |
| Second Bell New 200 201 202 208 300 301 302 309 400 401 402 450 500 501 502 500 700 701 702 750 900 901 502 503 50 | traight deliv | ery coupling | | | | | | | | | | | | | | | | | | | | | | | |
| Property | | | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9: |
| 1972 1978 1978 1979 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Property | | | | | | | | | | | | | | | | | | | | | | | | | |
| Traight suction coupling timeded | | | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| Traight suction coupling Indeed | | | | | | | | | | | • | • | • | • | • | <u> </u> | • | • | | | | | | | |
| Indeed | D62 | P,PR | | | | | | | | | | | | | | | | | • | ٠ | • | • | • | • | |
| Marcin PR | traight sucti | ion coupling | | | | | | | | | | | | | | | | | | | | | | | |
| DAILY | Nodel | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9. |
| Procedative | DA22 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| PR | DA32 | P,PR | | | | | • | | | | | | | | | | | | | | | | | | |
| 00° delivery coupling. 100° delivery coupling. 100° delivery coup | DA42 | | | | | | | | | | | | | | • | | | | | | | | | | |
| Company Comp | | | | | | | | | | | | | | | | | | | | | | | | | |
| Second | DAOZ | r,rn | | | | | | | | | | | | | | | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | · | · | |
| PR | 0° delivery c | oupling. | | | | | | | | | | | | | | | | | | | | | | | |
| PR | | | 200 | | | | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| PR | P22 | | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| PRISE | IP32 | P,PR | | | | | | | | | | | | | | | | | | | | | | | |
| Property | RP42 | | | | | | | | | | | | | | • | • | | | | | | | | | |
| Indee | | | | | | | | | | | | | | | | | | | | | • | | | • | |
| Indee | 00° suction co | nunlina | | | | | | | | | | | | | | | | | | | | | | | |
| PRIZE | | | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| PR | | | | | | | 300 | 301 | 302 | 330 | 100 | 701 | 702 | 130 | | | 302 | 330 | 700 | 701 | 702 | 730 | | | <u> </u> |
| PRACE PPR | | | | | | | | | | | | | | | | | | | | | | | | | |
| Property | | | | | | | • | • | • | <u> </u> | | | | | | | | | | | | | | | |
| Coccessories for ducting Coccessories for ducting Coccessories for ducting Coccessories for ducting Coccessories C | PA42 | P,PR | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | |
| AZCAZOO PPR AZCAZOO PR AZCAZOO PPR AZCAZO PPR AZCAZOO PPR AZCAZOO PPR AZCAZOO PPR AZCAZOO | | _ | mpers. | | | | | | | | | | | | | | | | | | | | | | |
| MICISSO PPR | Plenum with | motorised da | | | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| MICISSO PPR | Plenum with I Nodel | motorised dai Ver | 200 | 201 | | | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| ACCESSION P.P.R Straight intake connection with rectangular flanges. Addel Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 502 500 50 | Plenum with I Model MZC220 | motorised dan Ver P,PR | 200 | 201 | | | | | | | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| Straight intake connection with rectangular flanges. | Plenum with A Model MZC220 MZC320 | wotorised dan Ver P,PR P,PR | 200 | 201 | | | | | | | | 401 | 402 | | | | | | 700 | 701 | 702 | 750 | 900 | 901 | 9: |
| Model Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 90 | Plenum with I Model MZC220 MZC320 MZC530 | ver P,PR P,PR P,PR P,PR | 200 | 201 | | | | | | | | 401 | 402 | | | | | | | | | | | | |
| RDA100V PPR | Plenum with a Model MZC220 MZC320 MZC330 MZC830 | Wer P,PR P,PR P,PR P,PR P,PR | 200 | 201 | • | • | • | | | | | 401 | 402 | | | | | | | | | | | | 9: |
| Marian M | Plenum with a Model MZC220 MZC320 MZC330 MZC330 MZC330 | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 · | 201 · | ngula | r flan | nge. | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| Note Proper Pro | Plenum with I Model MZC220 MZC320 MZC330 MZC830 Straight intak Model | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 · | 201 · | ngula | r flan | nge. | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| DA200V P.PR | Plenum with I Model MZC220 MZC320 MZC330 MZC830 Straight intak Model | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r | 201 ectar 201 | ngula | r flan 250 | nge. | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| Model Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 90 | Plenum with I Model MZC220 MZC320 MZC330 MZC830 Straight intak Model | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r | 201 ectar 201 | ngula | r flan 250 | 1 ge. 300 | 301 | 302 | 350 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| Node Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 | Plenum with I Model MZC220 MZC320 MZC330 MZC830 Straight intak Model DA000V DA100V | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.PR | 200 with r | 201 ectar 201 | ngula | r flan 250 | 1 ge. 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | • | • | • | • | • | • | |
| Node Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 | Plenum with I Nodel NZC220 NZC330 NZC330 NZC330 NZC830 NZC | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r | 201 ectar 201 | ngula | r flan 250 | 1 ge. 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | • | |
| PAGOOV | Plenum with I Model MZC220 MZC320 MZC330 MZC830 Straight intak Model DA000V DA100V DA200V | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | r flan 250 | 1 ge. 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | • | |
| PACOV P.P.R | Plenum with Indoel MZC220 MZC320 MZC330 MZC830 MZC830 Straight intak Model DA000V DA100V DA200V DA300V DA300V | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | with r | 201 ectar 201 | ngula 202 · | er flan 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| PAZOOV P.P.R | Plenum with Indoel MZC220 MZC320 MZC320 MZC830 MZC830 Straight intak Model DA000V DA100V DA200V DA300V DA300V MACAB Plenum Model | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | . r flan 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| PASOV PR | Plenum with Indel MZC220 MZC320 MZC320 MZC830 MZC83 | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | . r flan 250 | . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| Addel Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 901 9000000 | Plenum with Indeel MacC220 MacC320 MacC320 MacC330 Mac | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | . r flan 250 | . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| Node Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 | Plenum with Indel | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | . r flan 250 | . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| Node Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 | Plenum with a Model MZC220 MZC320 MZC320 MZC330 MZC830 Straight intak Model MDA000V MDA300V | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | 200 with r 200 | 201 ectar 201 | ngula 202 | . r flan 250 | . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | ç |
| A000V | Plenum with I Nodel NZC220 NZC330 NZC530 NZC830 NZC | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r | ectar 201 | ngula 202 | 250 · | . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 9 |
| A100V | Plenum with Indel | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | with r 200 . gular f 200 . | ectair 201 dange 201 . | ongula 202 · · | 250 · · · · · · · · · · · · · · · · · · · | . 300 · . 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | . 750 | 900 | 901 | 9 |
| A200V P,PR | Plenum with I Iodel I/C2220 I/C3220 I/C3320 I/C3330 I/ | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.PR | with r 200 . gular f 200 . | ectar 201 | | 250 | . 300 · . 300 | 301 | 302 | 350 | 400 | 401 | . 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | . 702 | . 750 | 900 | 901 | 9 |
| A300V P,PR ********************************** | Plenum with Indoel IAC2220 IAC2320 IAC2320 IAC2330 IAC | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r 200 . gular f 200 . | ectar 201 | | 250 | 300 | 301 | 302 | 350 | 400 | 401 | . 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | . 702 | . 750 | 900 | 901 | 9 |
| Internally insulated delivery plenum with circular flanges. Iddel Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 | Plenum with Indel | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r 200 . gular f 200 . | ectar 201 | | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | . 502 . 502 | 550 | 700 | 701 | . 702 | . 750 | 900 | 901 | 9 |
| Model Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 9 M000V P,PR . | Plenum with a Model MZC220 MZC320 MZC330 MZC330 MZC330 MZC830 MZC830 | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r 200 . gular f 200 . | ectar 201 | | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | . 502 . 502 | 550 | 700 | 701 | . 702 | . 750 | 900 | 901 | 9 |
| Iodel Ver 200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 900 M100V P,PR . | Ilenum with I Iodel IZC220 IZC320 IZC330 IZC330 IZC330 Itraight intak Iodel DA000V DA100V DA300V Intake plenum Iodel PA000V PA100V PA300V Intake plenum Iodel IA000V IA000 | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r 200 . gular f 200 . | ectar 201 | | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | . 502 . 502 | 550 | 700 | 701 | . 702 | 750 | 900 | 901 | 9 |
| M000V P,PR • • • • • M100V P,PR • • • • • • • • • M200V P,PR • • • • • • • • • • • • • • • • • • • | Plenum with I Iodel IZC220 IZC320 IZC330 IZC830 IZC | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 with r 200 gular f 200 | ectai 201 danga 201 | | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | . 502 . 502 | 550 | 700 | 701 | . 702 | 750 | 900 | 901 | 9 |
| M100V P,PR • • • • • • • M200V P,PR | Plenum with Indeed Inde | Wer P.PR P.PR P.PR P.PR P.PR P.PR P.PR P.P | with r 200 . gular f 200 . c circu 200 . | ectai 201 | e. 202 · | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 - 500 - | 501 | . 502 . 502 | | 700 | . 701 . 701 . 701 | . 702 · . 702 · | 750 | 900 | 901 | 9 |
| M200V P,PR • • • • • • | Plenum with Indoel INC220 INC220 INC2320 INC2330 INC23 | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 with r 200 gular f 200 c circu 200 | 201 | | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 - 500 - | 501 | . 502 . 502 | | 700 | . 701 . 701 . 701 | . 702 · . 702 · | 750 | 900 | 901 | 9 |
| | Plenum with a Model MZC220 MZC320 MZC320 MZC330 MZC830 MZC | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 with r 200 gular f 200 c circu 200 | 201 | | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 - 500 - | 501 | . 502 . 502 | | 700 | . 701 . 701 . 701 | . 702 · . 702 · | 750 | 900 | 901 | 9 |
| M300V P,PR • • • • • • • • • • • • • • • • • • • | Plenum with a Model MZC220 MZC320 MZC320 MZC330 MZC530 MZC830 MZC830 Straight intak Model DA000V DA100V DA200V DA300V mtake plenum Model PA000V PA100V PA300V iuction plenum Model A000V A100V A300V mternally ins Model M000V M100V M100V | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 with r 200 gular f 200 c circu 200 | 201 | | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | . 400 . 400 . 400 | 401 | . 402 . 402 402 | 450 | 500 500 500 | 501 | . 502 . 502 | | 700 | . 701 . 701 . 701 | . 702 · . 702 · | 750 | 900 | 901 | |
| | Plenum with a Model MZC220 MZC320 MZC320 MZC330 MZC330 MZC830 MZC830 Straight intak Model RDA000V RDA100V RDA200V RDA300V RPA100V RPA200V RPA300V RPA300V SPA300V MOdel PA300V RPA300V | Wer PPR PPR PPR PPR PPR PPR PPR PPR PPR PP | 200 with r 200 gular f 200 c circu 200 | 201 | | 250 · · · · · · · · · · · · · · · · · · · | 300 | 301 | 302 | 350 | . 400 . 400 . 400 | 401 | . 402 . 402 402 | 450 | 500 500 500 | 501 | . 502 . 502 | | 700 | . 701 . 701 . 701 | . 702 · . 702 · | 750 | 900 | 901 | 9 |

| Intornally inculator | l delivery plenum with | voctonoulay flanco |
|----------------------|------------------------|---------------------|
| internaliv insulated | ı aeliverv bienum witn | rectanaular flanae. |

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RPM000V | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| RPM100V | P,PR | | | | | • | • | | | | | | | | | | | | | | | | | |
| RPM200V | P,PR | | | | | | | | | | | • | • | • | | • | • | | | | | | | |
| RPM300V | P.PR | | | | | | | | | | | | | | | | | | | | | | | |

${\it Straight\ delivery\ coupling\ in\ galvanised\ sheet\ metal.}$

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RDM000V | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| RDM100V | P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| RDM200V | P,PR | | | | | | | | | • | • | • | • | • | | • | • | | | | | | | |
| RDM300V | P,PR | | | | | | | | | | | | | | | | | • | • | | • | | • | • |

$Straight\ discharge\ internally\ insulated,\ with\ circular\ flanges.$

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RDMC000V | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| RDMC100V | P,PR | | | | | • | • | | • | | | | | | | | | | | | | | | |
| RDMC200V | P,PR | | | | | | | | | | | | • | • | | • | • | | | | | | | |
| RDMC300V | P,PR | | | | | | | | | | | | | | | | | • | • | • | • | • | • | • |

PERFORMANCE DATA FOR UNITS WITHOUT HEAD (EUROVENT CERTIFICATE FC-H)

| 2-pipe | _ | FCZI200F | <u> </u> | | FCZI250P | | | FCZI300P | | | FCZI350P | | | FCZI400P | | | FCZI450P | |
|--|---|--|---|---|---|---|---|---|--|---|--|---|--|--|--|--|---|---|
| | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | Ĺ | M | Н | L | M | Н | Ĺ | M | Н | L | M | Н | Ĺ | M | Н | L | M | H |
| Heating performance 70 °C / 60 °C (1 |) | | | | | | | | | | | | | | | | | |
| Heating capacity kW | 2,02 | 2,95 | 3,70 | 2,20 | 3,18 | 4,05 | 3,47 | 4,46 | 5,50 | 3,77 | 4,92 | 6,15 | 4,32 | 5,74 | 7,15 | 4,57 | 6,29 | 7,82 |
| Water flow rate system side I/h | 177 | 258 | 324 | 193 | 278 | 355 | 304 | 391 | 482 | 330 | 431 | 539 | 379 | 503 | 627 | 400 | 551 | 685 |
| Pressure drop system side kPa | 6 | 12 | 18 | 7 | 15 | 23 | 7 | 12 | 18 | 8 | 14 | 20 | 9 | 16 | 24 | 6 | 11 | 16 |
| Heating performance 45 °C / 40 °C (2 | 1 | | | | | | | | | | | | | | | | | |
| Heating capacity kW | 1,00 | 1,46 | 1,84 | 1,09 | 1,58 | 2,01 | 1,72 | 2,21 | 2,73 | 1,87 | 2,44 | 3,06 | 2,14 | 2,85 | 3,55 | 2,27 | 3,12 | 3,88 |
| Water flow rate system side I/h | 174 | 254 | 319 | 190 | 274 | 350 | 299 | 385 | 475 | 325 | 425 | 531 | 373 | 495 | 617 | 394 | 543 | 675 |
| Pressure drop system side kPa | 6 | 12 | 18 | 8 | 15 | 22 | 8 | 12 | 18 | 8 | 14 | 20 | 10 | 16 | 24 | 6 | 11 | 16 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | |
| Cooling capacity kW | 0,89 | 1,28 | 1,60 | 1,06 | 1,55 | 1,94 | 1,68 | 2,17 | 2,65 | 1,89 | 2,46 | 3,02 | 2,20 | 2,92 | 3,60 | 2,41 | 3,21 | 4,03 |
| Sensible cooling capacity kW | 0,71 | 1,05 | 1,33 | 0,79 | 1,20 | 1,52 | 1,26 | 1,65 | 2,04 | 1,33 | 1,76 | 2,18 | 1,59 | 2,14 | 2,67 | 1,69 | 2,30 | 2,90 |
| Water flow rate system side I/h | 153 | 221 | 275 | 182 | 267 | 334 | 288 | 374 | 456 | 350 | 460 | 560 | 379 | 503 | 619 | 414 | 552 | 694 |
| Pressure drop system side kPa | 6 | 12 | 18 | 8 | 17 | 25 | 8 | 13 | 18 | 11 | 18 | 25 | 10 | 16 | 24 | 9 | 15 | 22 |
| Fan | | | | | | | | | | | | | | | | | | |
| Type type | : | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor type | : | | | | | | | | Inve | rter | | | | | | | | |
| Number no. | - | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate m ³ /l | | 220 | 290 | 140 | 220 | 290 | 260 | 350 | 450 | 260 | 350 | 450 | 330 | 460 | 600 | 330 | 460 | 600 |
| Input power W | 7 | 8 | 14 | 7 | 8 | 14 | 5 | 7 | 13 | 5 | 7 | 13 | 5 | 10 | 18 | 5 | 10 | 18 |
| Signal 0-10V % | 44 | 68 | 90 | 44 | 68 | 90 | 52 | 70 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 49 | 68 | 90 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | |
| Sound power level dB(A | | 46,0 | 51,0 | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 37,0 | 44,0 | 51,0 |
| Sound pressure dB(A | 27,0 | 38,0 | 43,0 | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 29,0 | 36,0 | 43,0 |
| Water coil | | | | 1 | | | 1 | | | l | | | | | | I | | |
| Water content main coil | | 0,5 | | | 0,7 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,4 | |
| Diametre hydraulic fittings Main coil Ø | | 1 /2// | | 1 | 1/2" | | I | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| | | | | | | | | | | | | | | | | | 3/4 | |
| Main coil Ø | + | 1/2" | | | | | | | | | | | | | | ! | | |
| Main Coil 9 | | FCZI500F | | | FCZI550P | | 1 | FCZI700P | | 1 | FCZI750P | | | FCZI900P | - | | FCZ1950P | |
| Main Coil 9 | 1 | FCZI500F | 3 | 1 | FCZI550P | 3 | 1 | FCZI700P | 3 | 1 | FCZI750P | 3 | 1 | FCZI900P | 3 | 1 | FCZI950P | 3 |
| | L | FCZI500F | | 1 L | FCZI550P | | 1 L | FCZI700P | 3 H | 1 L | FCZI750P | | 1 L | FCZI900P | 3 H | 1 L | FCZ1950P | |
| Heating performance 70 °C / 60 °C (1 | L | FCZI500F 2 M | 3 H | L | FCZI550P 2 M | 3 H | L | FCZI700P 2 M | Н | L | FCZI750P 2 M | 3 H | Ĺ | FCZI900P 2 M | Н | L | FCZI950P 2 M | 3 H |
| Heating performance 70 °C / 60 °C (1 | 5,27 | FCZI500F 2 M | 3 H 8,50 | L 5,82 | FCZI550P 2 M 8,34 | 3 H 9,75 | 8,10 | PCZI700P 2 M | H 11,00 | 9,10 | FCZI750P 2 M | 3 H | L 10,77 | FCZI900P 2 M | H 15,14 | L 11,20 | PCZI950P 2 M | 3 H |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h | 5,27 462 | FCZI500F 2 M 7,31 641 | 3 H 8,50 745 | 5,82 510 | FCZI550P 2 M 8,34 731 | 3 H 9,75 855 | 8,10 710 | FCZI700P 2 M 9,80 860 | H 11,00 964 | 9,10 798 | FCZI750P 2 M 11,30 991 | 3 H 12,50 1096 | 10,77 945 | FCZI900P 2 M 13,35 1171 | H 15,14 1328 | 11,20 982 | FCZI950P 2 M 14,42 1264 | 3 H 17,10 1500 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa | 5,27 462 | FCZI500F 2 M | 3 H 8,50 | L 5,82 | FCZI550P 2 M 8,34 | 3 H 9,75 | 8,10 | PCZI700P 2 M | H 11,00 | 9,10 | FCZI750P 2 M | 3 H | L 10,77 | FCZI900P 2 M | H 15,14 | L 11,20 | PCZI950P 2 M | 3 H |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 | 5,27 462 12 | 7,31 641 21 | 3 H 8,50 745 28 | 5,82 510 10 | FCZI550P 2 M 8,34 731 20 | 3 H 9,75 855 26 | 8,10 710 17 | FCZI700P 2 M 9,80 860 24 | H 11,00 964 29 | 9,10 798 10 | FCZI750P 2 M 11,30 991 15 | 3 H 12,50 1096 18 | 10,77 945 12 | FCZI900P 2 M 13,35 1171 17 | H 15,14 1328 22 | 11,20 982 16 | FCZI950P 2 M 14,42 1264 24 | 3 H 17,10 1500 33 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW | 5,27 462 12 | FCZI500F 2 M 7,31 641 21 | 3 H 8,50 745 28 | 5,82 510 10 | ECZI550P 2 M 8,34 731 20 4,14 | 3 H 9,75 855 26 | 8,10 710 17 | 9,80 860 24 | H 11,00 964 29 5,47 | 9,10 798 10 4,52 | FCZI750P 2 M 11,30 991 15 | 3 H 12,50 1096 18 | 10,77 945 12 | ECZI900P 2 M 13,35 1171 17 | H 15,14 1328 22 7,53 | 11,20 982 16 | FCZI950P 2 M 14,42 1264 24 7,17 | 3 H 17,10 1500 33 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h | 5,27 462 12 | FCZI500F 2 M 7,31 641 21 3,63 631 | 3 H 8,50 745 28 4,22 734 | 5,82 510 10 2,89 502 | FCZI550P 2 M 8,34 731 20 | 3 H 9,75 855 26 4,85 842 | 8,10 710 17 4,03 699 | FCZI700P 2 M 9,80 860 24 4,87 846 | H 11,00 964 29 | 9,10 798 10 4,52 786 | FCZI750P 2 M 11,30 991 15 5,62 975 | 3 H 12,50 1096 18 6,21 1079 | 10,77 945 12 5,35 930 | FCZI900P 2 M 13,35 1171 17 | H 15,14 1328 22 7,53 1307 | 11,20 982 16 5,57 967 | FCZI950P 2 M 14,42 1264 24 | 3 H 17,10 1500 33 8,50 1476 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa | 5,27 462 12 2,62 455 | FCZI500F 2 M 7,31 641 21 | 3 H 8,50 745 28 | 5,82 510 10 | FCZI550P 2 M 8,34 731 20 4,14 720 | 3 H 9,75 855 26 | 8,10 710 17 | 9,80 860 24 | H 11,00 964 29 5,47 950 | 9,10 798 10 4,52 | FCZI750P 2 M 11,30 991 15 | 3 H 12,50 1096 18 | 10,77 945 12 | FCZI900P 2 M 13,35 1171 17 6,64 1152 | H 15,14 1328 22 7,53 | 11,20 982 16 | FCZI950P 2 M 14,42 1264 24 7,17 1245 | 3 H 17,10 1500 33 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h | 5,27 462 12 2,62 455 | FCZI500F 2 M 7,31 641 21 3,63 631 | 3 H 8,50 745 28 4,22 734 | 5,82 510 10 2,89 502 | FCZI550P 2 M 8,34 731 20 4,14 720 | 3 H 9,75 855 26 4,85 842 | 8,10 710 17 4,03 699 | FCZI700P 2 M 9,80 860 24 4,87 846 | H 11,00 964 29 5,47 950 | 9,10 798 10 4,52 786 | FCZI750P 2 M 11,30 991 15 5,62 975 | 3 H 12,50 1096 18 6,21 1079 | 10,77 945 12 5,35 930 | FCZI900P 2 M 13,35 1171 17 6,64 1152 | H 15,14 1328 22 7,53 1307 | 11,20 982 16 5,57 967 | FCZI950P 2 M 14,42 1264 24 7,17 1245 | 3 H 17,10 1500 33 8,50 1476 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) | 5,27 462 12 2,62 455 | 7,31 641 21 3,63 631 21 | 3 H 8,50 745 28 4,22 734 28 | 5,82 510 10 2,89 502 | FCZI550P 2 M 8,34 731 20 4,14 720 20 | 3 H 9,75 855 26 4,85 842 26 | 8,10 710 17 4,03 699 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 | H 11,00 964 29 5,47 950 29 | 9,10 798 10 4,52 786 | FCZI750P 2 M 11,30 991 15 5,62 975 14 | 3 H 12,50 1096 18 6,21 1079 18 | 10,77 945 12 5,35 930 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 | H 15,14 1328 22 7,53 1307 22 | 11,20 982 16 5,57 967 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 | 3 H 17,10 1500 33 8,50 1476 33 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW | 5,27 462 12 2,62 455 12 | FCZI500F 2 M 7,31 641 21 3,63 631 21 | 3 H 8,50 745 28 4,22 734 28 | 5,82 510 10 2,89 502 10 | FCZI550P 2 M 8,34 731 20 4,14 720 20 | 3 H 9,75 855 26 4,85 842 26 | 8,10 710 17 4,03 699 16 | 9,80 860 24 4,87 846 24 | H 11,00 964 29 5,47 950 29 | 9,10 798 10 4,52 786 10 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 | 3 H 12,50 1096 18 6,21 1079 18 | 10,77 945 12 5,35 930 12 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 | H 15,14 1328 22 7,53 1307 22 6,91 | 11,20 982 16 5,57 967 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW | 5,27 462 12 2,62 455 12 2,68 1,94 460 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 | 5,82 510 10 2,89 502 10 2,91 2,07 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 | 8,10 710 17 4,03 699 16 3,92 2,99 | 9,80 860 24 4,87 846 24 4,89 3,76 | H 11,00 964 29 5,47 950 29 5,50 4,30 | 9,10 798 10 4,52 786 10 4,27 3,20 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 | 10,77 945 12 5,35 930 12 4,29 2,97 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 | 11,20 982 16 5,57 967 15 5,77 3,80 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 | 3 H 17,10 1500 33 8,50 1476 33 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h | 5,27 462 12 2,62 455 12 2,68 1,94 460 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 8,10 710 17 4,03 699 16 3,92 2,99 675 | 9,80 860 24 4,87 846 24 4,89 3,76 841 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 7,17 1245 24 7,32 4,87 1259 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side l/h Pressure drop system side l/h Pressure drop system side kPa Fan | 2,62 455 12 2,68 1,94 460 13 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 8,10 710 17 4,03 699 16 3,92 2,99 675 | 9,80 860 24 4,87 846 24 4,89 3,76 841 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 7,17 1245 24 7,32 4,87 1259 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side l/h Pressure drop system side l/h Pressure drop system side kPa Fan | 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 8,10 710 17 4,03 699 16 3,92 2,99 675 | 9,80 860 24 4,87 846 24 4,89 3,76 841 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 7,17 1245 24 7,32 4,87 1259 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type | 5,27 462 12 2,62 455 12 2,68 1,94 460 13 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 8,10 710 17 4,03 699 16 3,92 2,99 675 | 9,80 860 24 4,87 846 24 4,89 3,76 841 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | 7,17 1245 24 7,32 4,87 1259 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor | L | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 | 5,82 510 10 2,89 502 10 2,91 2,07 501 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 | 8,10 710 17 4,03 699 16 3,92 2,99 675 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 | 10,77 945 12 5,35 930 12 4,29 2,97 738 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side //h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W | L | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 18 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | 11,00 964 29 5,47 950 29 5,50 4,30 946 30 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 ifugal | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V %6 | L | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 2 600 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 iffugal erter | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V % Fan coil sound data (4) | 2,62 455 12 2,68 1,94 460 13 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 18 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 600 10 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 ifugal erter | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V % Fan coil sound data (4) Sound power level dB(A | L | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 18 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 4 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 600 10 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 ifugal erter | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 | H 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V % Fan coil sound data (4) Sound power level dB(A Sound pressure drop system del B(A Sound pressure dB(A Sound pres | 2,62 455 12 2,62 455 12 2,68 1,94 460 13 | FCZI500F 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 18 74 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 4 50 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 2 600 10 74 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 72 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 30 56 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 72 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 72 | 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 72 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V % Fan coil sound data (4) Sound power level dB(A) Sound pressure dB(A) Water coil | L | FCZISOOF 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 600 18 74 51,0 43,0 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 4 50 42,0 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 2 600 10 74 51,0 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 72 57,0 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 30 56 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 72 57,0 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 72 57,0 | 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 72 57,0 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Sensible cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate Input power W Signal 0-10V % Fan coil sound data (4) Sound power level dB(A Sound pressure dB(A Water coil Water content main coil | L | FCZISOOF 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 2 600 18 74 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 4 50 42,0 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 2 600 10 74 51,0 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 72 57,0 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 30 56 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 72 57,0 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 72 57,0 | 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 72 57,0 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |
| Heating performance 70 °C / 60 °C (1 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Heating performance 45 °C / 40 °C (2 Heating performance 45 °C / 40 °C (2 Heating capacity kW Water flow rate system side l/h Pressure drop system side kPa Cooling performance 7 °C / 12 °C (3) Cooling capacity kW Water flow rate system side l/h Pressure drop system side kPa Fan Type type Fan motor type Number no. Air flow rate m³/l Input power W Signal 0-10V % Fan coil sound data (4) Sound power level dB(A) Sound pressure dB(A) Water coil | L | FCZISOOF 2 M 7,31 641 21 3,63 631 21 3,69 2,73 634 22 600 18 74 51,0 43,0 | 3 H 8,50 745 28 4,22 734 28 4,25 3,18 731 29 | 5,82 510 10 2,89 502 10 2,91 2,07 501 12 400 4 50 42,0 | FCZI550P 2 M 8,34 731 20 4,14 720 20 4,13 2,98 711 22 600 10 74 51,0 43,0 | 3 H 9,75 855 26 4,85 842 26 4,79 3,49 824 28 | 8,10 710 17 4,03 699 16 3,92 2,99 675 16 | FCZI700P 2 M 9,80 860 24 4,87 846 24 4,89 3,76 841 24 3 930 40 72 57,0 49,0 | H 11,00 964 29 5,47 950 29 5,50 4,30 946 30 Centr Inve 1140 80 90 62,0 54,0 | 9,10 798 10 4,52 786 10 4,27 3,20 734 10 700 30 56 | FCZI750P 2 M 11,30 991 15 5,62 975 14 5,34 4,05 918 14 3 930 40 72 57,0 49,0 | 3 H 12,50 1096 18 6,21 1079 18 6,14 4,72 1056 18 | 10,77 945 12 5,35 930 12 4,29 2,97 738 10 | FCZI900P 2 M 13,35 1171 17 6,64 1152 17 5,00 3,78 860 12 3 930 40 72 57,0 49,0 | 15,14 1328 22 7,53 1307 22 6,91 5,68 1189 22 | 11,20 982 16 5,57 967 15 5,77 3,80 992 15 | FCZI950P 2 M 14,42 1264 24 7,17 1245 24 7,32 4,87 1259 22 3 930 40 72 57,0 49,0 | 3 H 17,10 1500 33 8,50 1476 33 8,60 5,78 1479 30 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

| | | | FCZI201P |) | | FCZI301P | | | FCZI401P | | | FCZI501P | | | FCZI701P |) | | FCZI901P | i |
|----------------------------------|----------|------|----------|------|------|----------|------|------|----------|-------|--------|----------|------|------|----------|------|------|----------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C/5 | 5 °C (1) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,02 | 1,35 | 1,60 | 1,80 | 2,18 | 2,56 | 2,21 | 2,65 | 3,12 | 2,59 | 3,34 | 3,73 | 3,66 | 4,29 | 4,94 | 4,73 | 5,63 | 5,72 |
| Water flow rate system side | l/h | 89 | 118 | 140 | 158 | 191 | 224 | 186 | 232 | 273 | 227 | 293 | 327 | 320 | 375 | 437 | 414 | 492 | 501 |
| Pressure drop system side | kPa | 4 | 8 | 10 | 16 | 23 | 30 | 4 | 6 | 8 | 6 | 8 | 10 | 11 | 14 | 18 | 8 | 12 | 12 |
| Cooling performance 7 °C / 12 | °C (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,89 | 1,28 | 1,60 | 1,68 | 2,17 | 2,65 | 2,20 | 2,92 | 3,60 | 2,68 | 3,69 | 4,25 | 3,92 | 4,89 | 5,50 | 4,29 | 5,00 | 6,91 |
| Sensible cooling capacity | kW | 0,71 | 1,05 | 1,33 | 1,26 | 1,65 | 2,04 | 1,59 | 2,14 | 2,67 | 1,94 | 2,73 | 3,18 | 2,99 | 3,76 | 4,30 | 2,97 | 3,78 | 5,68 |
| Water flow rate system side | l/h | 153 | 221 | 275 | 288 | 374 | 456 | 379 | 503 | 619 | 460 | 634 | 731 | 675 | 841 | 946 | 738 | 860 | 1189 |
| Pressure drop system side | kPa | 6 | 12 | 18 | 8 | 13 | 18 | 10 | 16 | 24 | 13 | 22 | 29 | 16 | 24 | 30 | 10 | 12 | 22 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor | type | | | | | | | | | Inve | erter | | | | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 260 | 350 | 450 | 330 | 460 | 600 | 400 | 600 | 720 | 700 | 930 | 1140 | 700 | 930 | 1140 |
| Input power | W | 7 | 8 | 14 | 5 | 7 | 13 | 5 | 10 | 18 | 7 | 16 | 31 | 30 | 40 | 80 | 30 | 40 | 80 |
| Signal 0-10V | % | 44 | 68 | 90 | 52 | 70 | 90 | 49 | 68 | 90 | 50 | 74 | 90 | 56 | 72 | 90 | 56 | 72 | 90 |
| Fan coil sound data (3) | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 35,0 | 46,0 | 51,0 | 34,0 | 41,0 | 48,0 | 37,0 | 44,0 | 51,0 | 42,0 | 51,0 | 56,0 | 50,0 | 57,0 | 62,0 | 51,0 | 57,0 | 62,0 |
| Sound pressure | dB(A) | 27,0 | 38,0 | 43,0 | 26,0 | 33,0 | 40,0 | 29,0 | 36,0 | 43,0 | 34,0 | 43,0 | 48,0 | 42,0 | 49,0 | 54,0 | 43,0 | 49,0 | 54,0 |
| Water coil | | | | | | | | | | | | | | | | | | | |
| Water content main coil | - | | 0,5 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,2 | | | 1,8 | |
| Water content the secondary coil | | | 0,2 | | | 0,3 | | | 0,3 | | | 0,3 | | | 0,4 | | | 0,7 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | 1/2" | | | | | | | | | | | | | | | | |

⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

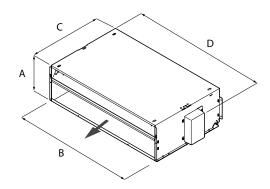
| 2-pipe | | _ | C7120 | ••• | _ | . C712 F | | | 67120 | | | C712 F | ••• | | C71.404 | | | <u> </u> | | | C7150 | | _ | <i></i> | |
|--|---------|---------|----------------|-------------|---------------|----------------|----------|-------------|-------------|-------------|---------------|-------------|-------------|----------|----------------|-------------|---------------|--------------------|----------------|----------|--------------------|----------|----------|--------------------|----------|
| | | 1 | CZI20 0 | JP 3 | 1 | CZI25 0 | 3 | 1 1 | CZI300 2 | JP 3 | 1 1 | CZ1350 2 | JP 3 | 1 1 | CZ140 0 | JP 3 | 1 T | CZI450 2 |)P 3 | 1 1 | CZI500 2 | 3 | 1 1 | CZI550 2 | 3 |
| | | i i | M | H | i i | M | H | Ė | M | H | L | M | H | i | M | H | i | M | H | i i | M | H | i | M | H |
| Heating performance 70 °C / 60 °C (1) | | | | | _ | | | | | | | | | | | | _ | | | | | | | | |
| Heating capacity | kW | 1,81 | 3,16 | 3,34 | 2,01 | 3,40 | 3,62 | 3,08 | 4,83 | 5,23 | 3,32 | 5,43 | 5,83 | 3,96 | 5,85 | 6,34 | 4,10 | 6,44 | 6,96 | 5,39 | 7,28 | 7,63 | 5,92 | 8,37 | 8,71 |
| Water flow rate system side | I/h | 156 | 272 | 287 | 173 | 292 | 311 | 265 | 415 | 450 | 285 | 467 | 502 | 341 | 503 | 545 | 353 | 554 | 599 | 464 | 626 | 656 | 509 | 720 | 749 |
| Pressure drop system side | kPa | 6 | 13 | 16 | 7 | 17 | 19 | 7 | 14 | 16 | 7 | 17 | 19 | 9 | 17 | 19 | 5 | 12 | 13 | 12 | 22 | 23 | 11 | 20 | 21 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,57 | 1,66 | 1,00 | 1,69 | 1,80 | 1,53 | 2,40 | 2,60 | 1,65 | 2,70 | 2,90 | 1,97 | 2,91 | 3,15 | 2,04 | 3,20 | 3,46 | 2,68 | 3,62 | 3,79 | 2,94 | 4,16 | 4,33 |
| Water flow rate system side | l/h | 155 | 270 | 288 | 172 | 291 | 308 | 263 | 413 | 447 | 284 | 464 | 499 | 339 | 501 | 542 | 351 | 550 | 595 | 461 | 623 | 652 | 506 | 715 | 745 |
| Pressure drop system side | kPa | 6 | 13 | 16 | 7 | 17 | 19 | 7 | 14 | 16 | 7 | 17 | 19 | 9 | 17 | 19 | 5 | 12 | 13 | 12 | 22 | 23 | 11 | 20 | 21 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,80 | 1,37 | 1,45 | 0,95 | | 1,76 | 1,40 | | 2,53 | - | 2,70 | | 2,03 | 2,98 | 3,21 | _ | | | 2,73 | 3,68 | 3,84 | 2,97 | 4,15 | 4,31 |
| Sensible cooling capacity | kW | 0,63 | 1,13 | 1,20 | 0,70 | 1,29 | 1,37 | 1,10 | 1,82 | 1,94 | 1,15 | 1,94 | 2,07 | 1,45 | 2,18 | 2,36 | 1,54 | 2,35 | 2,56 | 1,98 | 2,73 | 2,85 | 2,11 | 2,98 | 3,12 |
| Water flow rate system side | I/h | 138 | 236 | 249 | 163 | 287 | 303 | 241 | 409 | 435 | 285 | 464 | 495 | 349 | 512 | 552 | 382 | 564 | 610 | 469 | 633 | 660 | 511 | 714 | 741 |
| Pressure drop system side | kPa | 5 | 13 | 16 | 8 | 17 | 19 | 7 | 14 | 16 | 9 | 17 | 19 | 9 | 17 | 19 | 8 | 12 | 13 | 13 | 22 | 23 | 12 | 20 | 21 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | | ifugal | | | | | | | | | | | |
| Fan motor | type | _ | 4 | | | 4 | | _ | | | | | Inve | erter | | | 1 | | | 1 | | | | | |
| Number | no. | 122 | 1 | 257 | 122 | 1 | 257 | 225 | 2 | 121 | 225 | 2 | 121 | 200 | 2 | F1F | 200 | 2 | F1F | 410 | 2 | (20 | 110 | 2 | (20 |
| Air flow rate | m³/h | 123 | 240 | 257 | 123 | 240 | 257 | 225 | 390 | 424 | 225 | 390 | 424 | 300 | 470 | 515 | 300 | 470 | 515 | 410 | 600 | 630 | 410 | 600 | 630 |
| High static pressure | Pa W | 13 | 50 | 57 | 13 7 | 50 | 57 | 16 | 50 11 | 59 | 16 | 50 | 53 40 | 20 | 50 38 | 60 | 20 | 50 | 56 48 | 23 | 50 | 55 | 23 | 50 50 | 55 60 |
| Input power Signal 0-10V | W % | 7 43 | 27 84 | 31 90 | 43 | 27 84 | 31 90 | 10 48 | 83 | 40 90 | 10 48 | 30 83 | 90 | 14 52 | 38 82 | 48 90 | 14 52 | 38 82 | 48 90 | 18 58 | 50 85 | 60 90 | 18 58 | 85 | 90 |
| Duct type fan coil sound data (4) | 70 | 43 | 04 | 90 | 43 | 04 | 90 | 40 | 03 | 90 | 40 | 00 | 90 | 32 | 02 | 90 | 32 | 02 | 90 | 30 | 0.0 | 90 | 00 | 0.0 | 90 |
| Sound power level (inlet + radiated) | dB(A) | 37,0 | 57,0 | 59.0 | 37,0 | 57,0 | 59,0 | 36,0 | 50,0 | 53,0 | 36,0 | 50,0 | 53,0 | 43,0 | 53,0 | 55,0 | 43,0 | 53,0 | 55,0 | 45,0 | 56,0 | 57,0 | 45,0 | 56,0 | 57,0 |
| Sound power level (outlet) | dB(A) | 33,0 | | ,- | <u> </u> | 53,0 | | | | | | 47,0 | | 39,0 | | 52,0 | | 49,0 | | 42,0 | 52,0 | | | 52,0 | |
| Water coil | ub(n) | 33,0 | 33,0 | 33,0 | 33,0 | 33,0 | 33,0 | 32,0 | 47,0 | 47,0 | 32,0 | 47,0 | 47,0 | 33,0 | 47,0 | 32,0 | 37,0 | 47,0 | 32,0 | 42,0 | 32,0 | 32,0 | 42,0 | 32,0 | 32,0 |
| Water content main coil | | | 0,5 | | | 0,7 | | | 0,8 | | Г | 1,0 | | | 1,0 | | | 1,4 | | Τ | 1,0 | | Π | 1,4 | |
| Diametre hydraulic fittings | | | 0,5 | | | 0,1 | | | 0,0 | | | 1,0 | | | 1,0 | | | 1,1 | | | 1,0 | | | 1,1 | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| | | | | F.C71 | 700D | | | | -, . | FCZI | 7500 | -, - | | | | FCZI | OOOD | | | | | F (7) | 950P | | = |
| | | | 1 | FCZI | | | 3 | | 1 | _ | | | 2 | | 1 | _ | | | 3 | | 1 | | | | |
| | | _ | 1 L | <u> </u> | <u>2</u> 1 | | э Н | _ | 1 I | | <u>2</u> И | | 3 H | _ | 1 <u> </u> | | <u>2</u> И | | э Н | _ | 1 <u> </u> | | 2 VI | | 3 H |
| Heating performance 70 °C / 60 °C (1) | | | | | VI | | | | | - 1 | ΥI | | 11 | | L | | VI | | | | L | | VI | | |
| Heating capacity | kW | 5 | ,33 | 8 | 34 | 8 | 88 | 6 | ,17 | 9 | 52 | 10 |),15 | 6 | 58 | 11 | ,15 | 11 | ,87 | 6 | 68 | 11 | ,63 | 12 | ,66 |
| Water flow rate system side | I/h | _ | 68 | 73 | | | 79 | | 41 | | 35 | | 90 | | 66 | | 58 | |)21 | - | 74 | | 000 | |)88 |
| Pressure drop system side | kPa | _ | 8 | 1 | | | 10 | _ | 5 | 1 | | | 12 | - | 5 | 1 | | | 14 | - | 6 6 | | 7 | | 9 |
| Heating performance 45 °C / 40 °C (2) | | | | | • | | | | | • | • | | - | | | | | | • | | | | | | - |
| Heating capacity | kW | 2 | ,67 | 4, | 15 | 4, | 40 | 2, | ,46 | 4, | 69 | 5, | ,00 | 3, | 27 | 5, | 54 | 5, | .90 | 3, | 32 | 5, | 78 | 6, | 29 |
| Water flow rate system side | I/h | 4 | 60 | 72 | | 7 | 67 | 4 | 18 | 8(| 06 | 8 | 60 | 5 | 62 | 9. | 53 | 10 |)15 | 5 | 71 | 9 | 94 | 10 |)82 |
| Pressure drop system side | kPa | | 8 | | 8 | 2 | .0 | | 3 | 1 | 1 | 1 | 12 | _ | 5 | 1 | 3 | 1 | 14 | | 6 | 1 | 7 | | 9 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 2, | ,20 | 4, | 00 | 4, | 30 | 2, | ,60 | 4, | 41 | 4, | ,70 | 2, | 81 | 4, | 80 | 5, | .20 | 3, | 58 | 6, | 00 | 6, | 46 |
| Sensible cooling capacity | kW | 1, | ,71 | 3, | 00 | 3, | 20 | 1, | ,90 | 3, | 30 | 3, | ,50 | 2, | 10 | 3, | 60 | 3, | .90 | 2, | 33 | 3, | 94 | 4, | 27 |
| Water flow rate system side | I/h | _ | 78 | 68 | | | 39 | | 47 | 70 | | | 18 | | 83 | 82 | | | 94 | _ | 16 | | 132 | | 11 |
| Pressure drop system side | kPa | | 7 | 1 | 8 | 2 | .0 | | 4 | 1 | 1 | 1 | 12 | | 5 | 1 | 3 | 1 | 14 | | 7 | 1 | 7 | 1 | 9 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centr | ifugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Inve | erter | | | | | | | | | | | |
| Number | no. | | | | 3 | | | | | | 3 | | | | | | 3 | | | | | | 3 | | |
| Air flow rate | m³/h | _ | 05 | 7: | | | 99 | _ | 05 | 7: | | | 99 | - | 05 | 7. | | | 99 | - | 05 | | 30 | | 99 |
| High static pressure | Pa | _ | 15 | 5 | | | 0 | _ | 15 | 5 | | | 50 | | 5 | 5 | | | 50 | _ | 5 | | 0 | | 50 |
| Input power | W | _ | 21 | 6 | | | 8 | | 21 | 6 | | | 78 | - | !1 | 6 | | | 78 | _ | 21 | | 51 | | 8 |
| Signal 0-10V | % | L 4 | 16 | 8 | 2 | | 0 | | 16 | 8 | 12 | 9 | 90 | 1 4 | 15 | 8 | 4 | 9 | 90 | 4 | 15 | | 34 | 9 | 90 |
| Duct type fan coil sound data (4) | /1/UF | ٠, | 0.0 | | . v | | 2.0 | 34 | 0.0 | | - 0 | r. | 0 0 | | 1.0 | | . 0 | | 0 0 | Α. | 1.0 | - | - 0 | | |
| Sound power level (inlet + radiated) | dB(A) | | 8,0 | 55 | | | 3,0 | | 8,0 | 55 | _ | | 8,0 | _ | 1,0 | | 5,0 | | 8,0 | + | 1,0 | | 5,0 | | 3,0 |
| Sound power level (outlet) Water coil | dB(A) | | 4,0 | 5 | ,0 |)· | 1,0 | 34 | 4,0 | 51 | 1,0 | 5 | 4,0 | 4(|),0 |) | ,0 | 54 | 4,0 | 40 | 0,0 |) | 1,0 | 54 | 1,0 |
| Water content main coil | I | | | 1 | ,2 | | | | | 1 | ,6 | | | | | 1 | ,8 | | | | | 1 | ,3 | | |
| Diametre hydraulic fittings | I | | | I | ,∠ | | | | | I | ,υ | | | | | I | ,0 | | | | | | د, | | |
| Main coil | Ø | | | | | | | | | | | | 2 | /4" | | | | | | | | | | | — |
| | | | | | | | | | | | | | /د | т | | | | | | | | | | | |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

| | | FCZI201P | | | | FCZI301I | | | FCZI401 | , | | FCZI501I | • | | FCZI701I | , | | FCZI901 | P |
|---------------------------------------|-------|----------|-------------------------|------|------|----------|------|------|---------|-------|--------|----------|------|------|----------|------|------|---------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,94 | 1,42 | 1,49 | 1,60 | 2,34 | 2,47 | 1,99 | 2,69 | 2,85 | 2,62 | 3,59 | 3,45 | 2,99 | 3,70 | 3,92 | 3,17 | 5,09 | 5,47 |
| Water flow rate system side | l/h | 81 | 122 | 128 | 138 | 201 | 212 | 171 | 231 | 245 | 225 | 309 | 297 | 257 | 318 | 337 | 273 | 438 | 470 |
| Pressure drop system side | kPa | 4 | 9 | 9 | 6 | 12 | 13 | 4 | 7 | 8 | 6 | 9 | 9 | 8 | 12 | 13 | 4 | 10 | 11 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,80 | | | | | | | | 3,21 | 2,73 | 3,68 | 3,84 | 2,20 | 4,00 | 4,30 | 2,80 | 4,80 | 5,24 |
| Sensible cooling capacity | kW | 0,63 | The The The The The The | | | | | 1,45 | 2,18 | 2,36 | 1,98 | 2,73 | 2,85 | 1,71 | 3,00 | 3,20 | 2,10 | 3,60 | 3,90 |
| Water flow rate system side | l/h | 138 | 38 236 249 241 409 435 | | | | | 349 | 512 | 552 | 469 | 633 | 660 | 378 | 688 | 739 | 482 | 825 | 901 |
| Pressure drop system side | kPa | 5 | 14 | 16 | 7 | 15 | 17 | 9 | 13 | 20 | 13 | 23 | 25 | 6 | 18 | 20 | 5 | 12 | 13 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Centr | ifugal | | | | | | | | |
| Fan motor | type | | | | | | | | | Inve | rter | | | | | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 123 | 240 | 257 | 225 | 390 | 424 | 300 | 470 | 515 | 410 | 600 | 630 | 405 | 730 | 799 | 405 | 730 | 799 |
| High static pressure | Pa | 13 | 50 | 57 | 16 | 50 | 59 | 20 | 50 | 60 | 23 | 50 | 55 | 15 | 50 | 60 | 15 | 50 | 60 |
| Input power | W | 7 | 27 | 31 | 10 | 31 | 40 | 14 | 38 | 58 | 18 | 50 | 60 | 21 | 61 | 78 | 21 | 61 | 78 |
| Signal 0-10V | % | 43 | 84 | 90 | 48 | 83 | 90 | 52 | 82 | 90 | 58 | 85 | 90 | 46 | 82 | 90 | 45 | 84 | 90 |
| Duct type fan coil sound data (3) | | | | | | | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 37,0 | 57,0 | 59,0 | 36,0 | 50,0 | 53,0 | 43,0 | 53,0 | 55,0 | 45,0 | 56,0 | 57,0 | 38,0 | 55,0 | 58,0 | 38,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 33,0 | 53,0 | 55,0 | 32,0 | 47,0 | 49,0 | 39,0 | 49,0 | 52,0 | 42,0 | 52,0 | 52,0 | 34,0 | 51,0 | 54,0 | 34,0 | 51,0 | 54,0 |
| Water coil | | | | | | | | | | | | | | | | | | | |
| Water content main coil | - 1 | | 0,5 | | | 0,8 | | | 1,0 | | | 1,0 | | | 1,2 | | | 1,8 | |
| Water content the secondary coil | - 1 | | 0,2 | | | 0,3 | | | 0,3 | | | 0,3 | | | 0,4 | | | 0,7 | |
| Diametre hydraulic fittings | | 7 | | | | | , | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" 3/4" | | | | | | 3/4" | | | 3/4" | | 3/4" | | | | 3/4" | |
| Secondary coil | Ø | | 1/2 3/1 | | | | | | 1/2" | | | | | | | | | | |

⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | FCZI200P | FCZI250P | FCZI300P | FCZI350P | FCZI400P | FCZI450P |
|-------------------------------------|----------|------------|------------|----------|-------------|-------------|-------------|
| Dimensions and weights | | | | | | | |
| A | mm | 216 | 216 | 216 | 216 | 216 | 216 |
| В | mm | 522 | 522 | 753 | 753 | 973 | 973 |
| C | mm | 453 | 453 | 453 | 453 | 453 | 453 |
| D | mm | 562 | 562 | 793 | 793 | 1013 | 1013 |
| Net weight | kg | 12,00 | 14,00 | 14,00 | 16,00 | 20,00 | 22,00 |
| | | FCZI500P | FCZI550P | FCZI700P | FCZI750P | FCZI900P | FCZI950P |
| Dimensions and weights | | | | | | | |
| A | mm | 216 | 216 | 216 | 216 | 216 | 216 |
| В | mm | 973 | 973 | 1122 | 1122 | 1122 | 1122 |
| C | mm | 453 | 453 | 453 | 453 | 558 | 558 |
| D | mm | 1013 | 1013 | 1147 | 1147 | 1147 | 1147 |
| Net weight | kg | 23,00 | 24,00 | 29,00 | 31,00 | 32,00 | 32,00 |
| | | FCZI201P | FCZI202P | FCZI301P | FCZI302P | FCZI401P | FCZI402P |
| Dimensions and weights | | | | | | | |
| A | mm | 216 | 216 | 216 | 216 | 216 | 216 |
| В | mm | 522 | 522 | 753 | 753 | 973 | 973 |
| (| mm | 453 | 453 | 453 | 453 | 453 | 453 |
| D | mm | 562 | 562 | 793 | 793 | 1013 | 1013 |
| Net weight | kg | 13,00 | 14,00 | 15,00 | 16,00 | 21,00 | 22,00 |
| | | FCZI501P | FCZI502P | | FCZI701P | FCZI702P | FCZI901P |
| Ni | | | | | | | |
| Dimensions and Weights | | | | | | | |
| A | mm | 216 | 216 | | 216 | 216 | 216 |
| A | mm mm | 216 973 | 216 973 | | 216 1122 | 216 1122 | 216 1122 |
| Dimensions and weights A B C | | | | | | | |
| A | mm | 973 | 973 | | 1122 | 1122 | 1122 |















Fan coil unit for ducted installations



- Very quiet
- · Ideal for residential or office solutions
- Version with Coldplasma Air purifier





DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

P Without shell, vertical and horizontal installation, lower intake, without commands

PAF Without shell, vertical and horizontal installation, front intake, without commands

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coils have, as standard, precharged electrostatic filters. These filters, thanks to their special execution, attracts and retains all suspended dust particles, thus garanteeing pure breathable air to the whole family.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2D: User interface on the machine, to be combined with the VMF-E19 accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

Common accessories

DSC: Condensate drainage device.

ACCESSORIES COMPATIBILITY

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Omnia ULP

| Field | | Description |
|-------|-----|---|
| 1,2,3 | | ULP |
| 4,5 | | Size 11, 16, 26, 36 |
| 6 | | Version |
| - | Р | Without shell, vertical and horizontal installation, lower intake, without commands |
| | PAF | Without shell, vertical and horizontal installation, front intake, without commands |

Control panels and dedicated accessories - Omnia ULP

| Model | Ver | 11 | 16 | 26 | 36 |
|--------------|-------|----|----|----|----|
| AER503IR (1) | P,PAF | • | • | • | • |
| PR0503 | P,PAF | • | • | • | • |
| SA5 (2) | P,PAF | • | • | • | • |
| SIT3 (3) | P,PAF | • | • | • | • |
| SIT5 (4) | P,PAF | • | • | • | • |
| SW5 (2) | P,PAF | • | • | • | • |
| TX (1) | P,PAF | • | • | • | • |
| WMT05 (1) | P,PAF | • | • | • | • |
| WMT10 (1) | P,PAF | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
- (2) Probe for AERSO3IR-TX thermostats, if fitted.
 (3) Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 (4) Probe for AERSO3IR-TX thermostats, if fitted.

VMF system - Omnia ULP

| Model | Ver | 11 | 16 | 26 | 36 |
|-------------|-------|----|----|----|----|
| VMF-E0X (1) | P,PAF | • | • | • | • |
| VMF-E19 (1) | P,PAF | • | • | • | • |
| VMF-E3 | P,PAF | • | • | • | • |
| VMF-E4DX | P,PAF | • | • | • | • |
| VMF-E4X | P,PAF | • | • | • | • |
| VMF-IO | P,PAF | • | • | • | • |
| VMF-IR | P,PAF | • | • | • | • |
| VMF-LON | P,PAF | • | • | • | • |
| VMF-SW | P,PAF | • | • | • | • |
| VMF-SW1 | P,PAF | • | • | • | • |

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Condensate drip

| Model | Ver | 11 | 16 | 26 | 36 |
|----------|-------|----|----|----|----|
| BC10 (1) | P,PAF | • | • | • | • |
| BC20 (2) | P,PAF | • | • | • | • |

(1) For vertical installation.(2) For horizontal installation.

Condensate drainage

| er 1' | 1 16 | 26 | 36 |
|--------------------|--------------------|--|--|
| PAF • | | | • |
| 3C20 is installed. | | | |
| er 1 ⁻ | 1 16 | 26 | 36 |
| PAF • | • | • | • |
| 3 | CC20 is installed. | AF • • • • • • • • • • • • • • • • • • • | AF · · · · · · · · · · · · · · · · · · · |

| 2 way vaive Kit | | | | | |
|-----------------|-------|----|----|----|----|
| Model | Ver | 11 | 16 | 26 | 36 |
| VCHD | P,PAF | • | • | • | • |

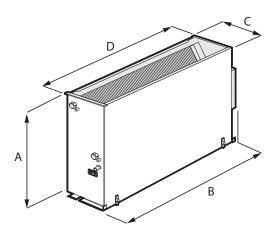
PERFORMANCE SPECIFICATIONS

2-pipe

| | | | UL11P | | | UL16P | | | UL26P | | | UL36P | |
|---------------------------------------|------|------|-------|------|------|-------|--------|--------|-------|------|------|-------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | , | | | | | | | | |
| Heating capacity | kW | 1,06 | 1,46 | 2,01 | 1,54 | 2,12 | 2,91 | 2,89 | 3,83 | 4,62 | 3,63 | 4,87 | 5,94 |
| Water flow rate system side | l/h | 93 | 128 | 176 | 135 | 186 | 255 | 254 | 336 | 405 | 310 | 427 | 521 |
| Pressure drop system side | kPa | 1 | 1 | 2 | 1 | 2 | 4 | 5 | 8 | 11 | 3 | 5 | 7 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 0,52 | 0,73 | 1,00 | 0,76 | 1,05 | 1,44 | 1,44 | 1,90 | 2,29 | 1,75 | 2,42 | 2,95 |
| Water flow rate system side | I/h | 92 | 126 | 174 | 133 | 183 | 251 | 249 | 331 | 399 | 305 | 420 | 513 |
| Pressure drop system side | kPa | 1 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 11 | 7 | 13 | 18 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,53 | 0,67 | 0,82 | 0,69 | 0,87 | 1,17 | 1,26 | 1,65 | 1,99 | 1,63 | 2,26 | 2,79 |
| Sensible cooling capacity | kW | 0,38 | 0,52 | 0,68 | 0,52 | 0,69 | 0,96 | 0,97 | 1,30 | 1,61 | 1,13 | 1,59 | 2,00 |
| Water flow rate system side | I/h | 94 | 117 | 145 | 122 | 153 | 206 | 220 | 289 | 349 | 286 | 394 | 487 |
| Pressure drop system side | kPa | 1 | 2 | 2 | 2 | 3 | 5 | 5 | 8 | 11 | 7 | 13 | 19 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centr | ifugal | | | | | |
| Fan motor | type | | | | | | Asynch | ronous | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 80 | 120 | 180 | 110 | 160 | 240 | 190 | 270 | 350 | 240 | 350 | 460 |
| Input power | W | 8 | 12 | 18 | 23 | 25 | 32 | 24 | 27 | 35 | 30 | 35 | 42 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 | V1 | V2 | V3 |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | 1, | /2" | | | | | |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | | | 0,3 | | | 0,4 | | | 0,6 | | | 0,8 | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | | | | | 230V- | ~50Hz | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C (2) Room air temperature 20°C d.b.; Water (in/out) 45°C/40°C; EUROVENT (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

DIMENSIONS



| | | UL11P | UL16P | UL26P | UL36P |
|----------------------|----|-------|-------|-------|-------|
| Dimensions and weigh | ts | | | | |
| A | mm | 465 | 465 | 465 | 465 |
| В | mm | 420 | 530 | 761 | 981 |
| C | mm | 171 | 171 | 171 | 171 |
| D | mm | 360 | 470 | 701 | 921 |
| Net weight | kg | 10,00 | 12,00 | 15,00 | 18,00 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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Fan coil unit for ducted installations



- Very quiet
- Ideal for residential or office solutions





DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

P Without the shell, floor installation, ceiling mount, intake at base, without controls

PAF Without the shell, floor installation, ceiling mount, front suction, without controls

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coils have, as standard, precharged electrostatic filters. These filters, thanks to their special execution, attracts and retains all suspended dust particles, thus garanteeing pure breathable air to the whole family.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L=15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

Common accessories

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Omnia III P

| Fiel | d | Description |
|------|-----|---|
| 1,2, | 3 | ULP |
| 4,5 | | Size 11, 16, 26, 36 |
| 6 | | Version |
| | Р | Without shell, vertical and horizontal installation, lower intake, without commands |
| | PAF | Without shell, vertical and horizontal installation, front intake, without commands |

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories - Omnia ULP

| Model | Ver | 16 | 26 | 36 |
|--------------|-------|----|----|----|
| AER503IR (1) | P,PAF | • | • | • |
| PR0503 | P,PAF | • | • | • |
| SA5 (2) | P,PAF | | • | • |
| SW5 (2) | P,PAF | • | • | • |
| TX (1) | P,PAF | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required. (2) Probe for AER503IR-TX thermostats, if fitted.

VMF system - Omnia ULP

| Model | Ver | 16 | 26 | 36 |
|-------------|-------|----|----|----|
| VMF-E0X (1) | P,PAF | • | • | • |
| VMF-E19I | P,PAF | • | • | • |
| VMF-E3 | P,PAF | • | • | • |
| VMF-E4DX | P,PAF | • | • | • |
| VMF-E4X | P,PAF | • | • | • |
| VMF-IO | P,PAF | • | • | • |
| VMF-IR | P,PAF | • | • | • |
| VMF-LON | P,PAF | • | • | • |
| VMF-SW | P,PAF | • | | • |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Condensate drip

| Model | Ver | 16 | 26 | 36 |
|----------|-------|----|----|----|
| BC10 (1) | P,PAF | • | • | • |
| BC20 (2) | P,PAF | • | • | • |

Condensate drainage

| Model | Ver | 16 | 26 | 36 |
|----------|-------|----|----|----|
| DSC5 (1) | P,PAF | • | • | • |
| | | | | |

⁽¹⁾ The accessory cannot be fit if the accessory BC10 or BC20 is installed.

2 way valve kit

| Model | Ver | 16 | 26 | 36 |
|-------|-------|----|----|----|
| VCHD | P,PAF | • | • | • |

3 wav valve kit

| Model | Ver | 16 | 26 | 36 |
|-------|-------|----|----|----|
| VCH | P,PAF | • | • | • |

⁽¹⁾ For vertical installation.(2) For horizontal installation

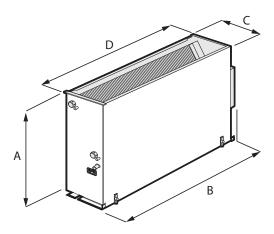
PERFORMANCE SPECIFICATIONS

2-pipe

| | | | ULI16P | | | ULI26P | | | ULI36P | |
|---------------------------------------|------|------|--------|------|------|-------------|------|------|--------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | • | | |
| Heating capacity | kW | 1,54 | 2,12 | 2,91 | 2,89 | 3,83 | 4,62 | 3,53 | 4,87 | 5,94 |
| Water flow rate system side | I/h | 135 | 186 | 255 | 254 | 336 | 405 | 310 | 427 | 521 |
| Pressure drop system side | kPa | 1 | 2 | 4 | 5 | 8 | 11 | 3 | 5 | 7 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 0,76 | 1,05 | 1,44 | 1,44 | 1,90 | 2,29 | 1,75 | 2,42 | 2,95 |
| Water flow rate system side | l/h | 133 | 183 | 251 | 249 | 331 | 399 | 305 | 420 | 513 |
| Pressure drop system side | kPa | 2 | 2 | 2 | 5 | 8 | 11 | 7 | 12 | 18 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | |
| Cooling capacity | kW | 0,69 | 0,87 | 1,17 | 1,26 | 1,65 | 1,99 | 1,63 | 2,26 | 2,79 |
| Sensible cooling capacity | kW | 0,52 | 0,69 | 0,96 | 0,97 | 1,30 | 1,61 | 1,13 | 1,59 | 2,00 |
| Water flow rate system side | l/h | 122 | 153 | 206 | 220 | 289 | 349 | 286 | 394 | 487 |
| Pressure drop system side | kPa | 2 | 3 | 5 | 6 | 8 | 11 | 7 | 13 | 19 |
| Fan | | | | | | | | | | |
| Туре | type | | | | | Centrifugal | | | | |
| Fan motor | type | | | | | Inverter | | | | |
| Number | no. | | 1 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 110 | 160 | 240 | 190 | 270 | 350 | 240 | 350 | 460 |
| Input power | W | 6 | 8 | 12 | 7 | 10 | 15 | 8 | 12 | 18 |
| Diametre hydraulic fittings | | | | | | | | | | |
| Main coil | Ø | | | | | 1/2" | | | | |
| Water coil | | | | | | | | | | |
| Water content main coil | 1 | | 0,4 | | | 0,6 | | | 0,8 | |
| Power supply | | | | | | | | | | |
| Power supply | | | | | | 230V~50Hz | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C (2) Room air temperature 20°C d.b.; Water (in/out) 45°C/40°C; EUROVENT (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

DIMENSIONS



| | | ULI16P | ULI26P | ULI36P |
|----------------------|----|--------|--------|--------|
| Dimensions and weigh | ts | | | |
| A | mm | 465 | 465 | 465 |
| В | mm | 530 | 761 | 981 |
| C | mm | 171 | 171 | 171 |
| D | mm | 470 | 701 | 921 |
| Net weight | kg | 12,00 | 15,00 | 18,00 |















VED 030-340

Fan coil unit for ducted installations



- Horizontal and vertical installation
- Large range of available static pressure
- Inspectable ventilation group





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Coarse 25% Class air filter, easy to remove and clean.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF Components

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Valves and additional water coil

BV: Single row hot water heat exchanger.

VCF_X: Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

VCF41 - 42 - 43 - for main coil: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - **45** - **for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the laft

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE_X: External air shutter with manual control.

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

MZC: Plenum with motorised dampers.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

GM: Flow grid with adjustable louvers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges.

RDM_V: Straight delivery coupling in galvanised sheet metal.

KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | | • | • | | • | • | • | • | • |
| PR0503 | | • | • | • | • | • | • | • | • |
| SA5 (2) | | • | • | • | • | • | • | • | • |
| SIT3 (3) | | • | • | • | • | • | • | • | • |
| SIT5 (4) | | • | • | • | • | • | • | • | • |
| SW3 (2) | | • | • | • | • | • | • | • | • |
| SW5 (2) | | • | • | • | • | • | • | • | • |
| TX (1) | | • | • | • | • | • | • | • | • |
| WMT05 (1) | | • | • | • | • | • | • | • | • |
| WMT06 (1) | | • | • | • | • | | | • | • |
| WMT10 (1) | | • | • | • | • | | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
- (2) Probe for AER503IR-TX thermostats, if fitted.
- (2) Trobe for AERSOSIN-TA (Identification, Integr.
 (3) Cards for AERSOSIR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 (4) Probe for AERSOSIR-TX thermostats, if fitted.

VMF system

| Model | Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E0X (1) | | • | • | • | • | • | • | • | • |
| VMF-E19 (1) | | • | • | • | • | | • | • | • |
| VMF-E3 | | • | • | • | • | • | • | • | • |
| VMF-E4DX | | • | • | • | • | • | • | • | • |
| VMF-E4X | | • | • | • | • | • | • | • | • |
| VMF-IO | | • | • | • | • | • | • | • | • |
| VMF-IR | | • | • | • | • | | • | | • |
| VMF-SIT3V (2) | | | | | | | | • | • |
| VMF-SW | | • | • | • | • | • | • | • | • |
| VMF-SW1 | | | • | • | | • | • | • | |

- (1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.
- (2) For the selection, consult the documentation for the thermostat and the fan coil.

(Heating only) additional coil

| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | BV030 (1) | - | BV130 (1) | - | BV230 (1) | - | BV162 (1) | - |

(1) Not available for sizes with oversized main coil.
The accessory cannot be fitted on the configurations indicated with

Water valves

Valve Kit for 4 pipe systems with main coil

| Accessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| VCF3X4L | • | • | • | | • | | • | • |
| VCF3X4LS | | | | • | | • | | |
| VCF3X4R | • | • | • | | • | | • | • |
| VCF3X4RS | | | | • | | • | | |

3 way valve kit

| | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|----------------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
| 3 way valve kit | | | | | | | | |
| Main coil | VCF43-VCF4324 | VCF43-VCF4324 | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43-VCF4324 |
| Additional coil "BV" | VCF45-VCF4524 | - | VCF45-VFC4524 | - | VCF45-VCF4524 | - | VCF45-VCF4524 | - |

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections \emptyset 3/4"

| | 2 | wav | val | lve | kit |
|--|---|-----|-----|-----|-----|
|--|---|-----|-----|-----|-----|

|) way yalyo kit | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|---|---------------------------------|-------------------------|--------------------------------|----------------------|--------------------------------|----------------------|--------------------------------|----------------------|
| way valve kit ain coil | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 | VCFD3-VCFD324 |
| ain coii dditional coil "BV" | VCFD3-VCFD324 VCFD4-VCFD424 | VCFD3-VCFD324 - | VCFD3-VCFD324 VCFD4-VCFD424 | VCFD3-VCFD324 - | VCFD3-VCFD324 VCFD4-VCFD424 | - | VCFD3-VCFD324 VCFD4-VCFD424 | VCFD3-VCFD32 - |
| | | estions (4.2 / 4" | VCI DT VCI DT2T | | VCI DT VCI DT2T | | VCI DT VCI DT2T | |
| FD3 Power supply 230V, VCFD324 Pov FD4 Power supply 230V, VCFD424 Pov | ver supply 24V - Hydraulic conn | ections Ø 1/2"; For add | litional coil (heating or | ly) BV. | | | | |
| ombined adjustment an | | | VED120 | VFD140 | VEDOOR | VED240 | VED220 | V/FD2.40 |
| ccessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| 1P060 | • | • | | • | | | | |
| JP060M JP090 | • | • | • | • | | | | |
| JP090M | | | | | • | • | • | • |
| IP150 | | | | | • | • | • | · |
| IP150M | | | | | | | • | • |
| nstallation accessories | 5 | | | | | | | |
| ccessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| MP | • | • | • | • | • | • | • | • |
| ondensate drip | VEDOOR | NEDO 40 | VEDAGE | VED440 | VEDOSS | MED3 : 2 | VEDOOR | VED2 12 |
| ccessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| 774 | • | • | • | • | • | • | • | • |
| CZ6 | • | • | • | • | • | • | • | • |
| ccessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| (9 | • | • | • | • | • | • | • | • |
| CZ4 For vertical installation. CZ6 For horizontal installation. C9 For horizontal installation. | | | | | | | | |
| ondensate recirculation | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| 5(4 | • | • | • | • | • | • VEDZ40 | • | • |
| 5CZ4 | • | • | • | • | • | • | • | · · |
| ntake grids Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| • | GA22 | GA22 | GA32 | GA32 | GA42 | GA42 | GA62 | GA62 |
| ntake grid with filter and | l fixed louvers | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | GAF22 | GAF22 | GAF32 | GAF32 | GAF42 | GAF42 | GAF62 | GAF62 |
| xternal air shutter with | manual control | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | SE20X | SE20X | SE30X | SE30X | SE40X | SE40X | SE80X | SE80X |
| ntake straight with recto | maular flanaes | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | RDA000V | RDA000V | RDA100V | RDA100V | RDA200V | RDA200V | RDA300V | RDA300V |
| ntake straight internally | | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | RDAC000V | RDAC000V | RDAC100V | RDAC100V | RDAC200V | RDAC200V | RDAC300V | RDAC300V |
| ntake plenum with recta | ngular flanges | | | | | | | · · · |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | RPA000V | RPA000V | RPA100V | RPA100V | RPA200V | RPA200V | RPA300V | RPA300V |
| ntake plenum with circu | lar flanges | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | PA000V | PA000V | PA100V | PA100V | PA200V | PA200V | PA300V | PA300V |
| | | | | | | | | |
| elivery accessories | | | | | | | | |
| • | n dampers | | | | | | | |
| Delivery accessories Plenum with motor-drive Ver | on dampers 030 MZC220 | 040 MZC220 | 130 MZC320 | 140 MZC320 | 230 MZC530 | 240 MZC530 | 330 MZC830 | 340 MZC830 |

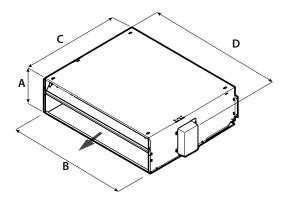
| Florida - I | | | | |
|-------------|--------|------|-----|-----|
| Electrical | svstem | with | rei | avs |

| | Electrical syst | em with relays | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|------------------------|------------------------|---------------|---------|------------|----------|------------|--------|-----|----------|-------|------------|--------|----------|--------|--------|-------------|--------|---------------|-------|--------------|
| It is mandatory to use MZCACV if the lintake of the unit combined with the MZC accessory exceeds 0.7 Ampere. Neer | Ver | | | | | | | | | | | | | | | | | | | | | |
| Petric plant Petr | | MZCACV (1) | MZCACV (1) | | MZCA | CV (1) | | MZCACV (1) | | M | ZCACV (1 | 1) | ٨ | NZCACV | (1) | | MZC | ACV (1) | | | MZCAC | <i>l</i> (1) |
| Ver | It is mandatory to | use MZCACV if the inta | ke of the unit combine | ed with the l | MZC acc | essory exc | eeds 0.7 | Ampere. | | | | | | | | | | | | | | |
| MZCAC MZCA | lectric plant | | | | | | | | | | | | | | | | | | | | | |
| Ver | Ver | 030 | 040 | | 13 | 0 | | 140 | | | 230 | | | 240 | | | | 330 | | | 340 | i |
| Ver 030 040 130 140 230 240 330 340 | | MZCAC | MZCAC | | MZ | CAC | | MZCAC | | | MZCAC | | | MZCAC | <u> </u> | | N | IZCAC | | | MZCA | (C |
| Company Comp | low grid with | n adjustable lo | uvers | | | | | | | | | | | | | | | | | | | |
| Ver 0.30 | V | ler er | 030 | 0 | 40 | | 130 | | 140 | | | 230 | | | 240 | | | 33(|) | | 34 | 0 |
| Ver 030 040 130 140 230 240 330 340 | | | GM22 | GA | A22 | | GM32 | | GM3 | 2 | | GM4 | 2 | | GM42 | 2 | | GM6 | 52 | | GM | 62 |
| PM000V | Delivery plent | um internally ii | nsulated, with | circula | r flan | iges | | | | | | | | | | | | | | | | |
| Ver 030 040 130 140 230 240 330 340 | V | /er | 030 | 0 | 40 | | 130 | | 140 | | | 230 | | | 240 | | | 330 |) | | 34 | 0 |
| Ver 030 040 130 140 230 240 330 344 | | | PM000V | PM | V000 | | PM100\ | 1 | PM10 | OV | | PM200 | V | | PM200 | OV | | PM30 | 0V | | PM3 | 00V |
| RPM000V RPM000V RPM100V RPM100V RPM200V RPM200V RPM300V RPM30V RPM | | | | | | flang | | | | | | | | | | | | | | | | |
| Ver 030 040 130 140 230 240 330 340 | V | /er | | | | | | | | | | _ | | | | | | | | | | |
| Ver 030 040 130 140 230 240 330 344 346 | | | RPM000V | RPM | 000V | | RPM100 | V | RPM10 | 10V | | RPM20 | 0V | ŀ | RPM20 | 10V | | RPM3 | 00V | | RPM. | 600V |
| RDMC000V RDMC000V RDMC100V RDMC100V RDMC200V RDMC200V RDMC300V RDMC300V RDMC3 Straight delivery coupling | | | | | | nges | | | | | | | | | | | | | | | | |
| Ver 030 040 130 140 230 240 330 340 | V | ler | | | | | | | | | | | | | | | | | | | | |
| Ver 030 040 130 140 230 240 330 340 . RDM000V RDM000V RDM100V RDM100V RDM200V RDM200V RDM300V RDM300V RDM300V RDM300V RDM300V RDM300V RDM300V RDM300V RDM300V VED330 VED33 | | | RDMC000V | RDM | C000V | | RDMC100 |)V | RDMC1 | 00V | | RDMC2 | V00 | R | DMC20 | 00V | | RDMC3 | V000 | | RDMC | 300V |
| RDM000V RDM100V RDM100V RDM200V RDM200V RDM300V RDM30V RDM30 Circular flanges kit for plenum ccessory VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED35 FV10 . | traight deliv | ery coupling | | | | | | | | | | | | | | | | | | | | |
| Circular flanges kit for plenum | V | /er | 030 | 0 | 40 | | 130 | | 140 | | | 230 | | | 240 | 1 | | 33(|) | | 34 | 0 |
| VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED350 V | | | RDM000V | RDM | V000 | | RDM100 | V | RDM10 | V0V | | RDM20 | OV | F | RDM20 | V00 | | RDM3 | 00V | | RDM. | 300V |
| PERFORMANCE SPECIFICATIONS -pipe VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED | ircular flang | es kit for plenu | ım | | | | | | | | | | | | | | | | | | | |
| PERFORMANCE SPECIFICATIONS -pipe VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED 1 4 6 1 4 6 1 4 6 1 4 6 1 3 6 1 3 6 1 3 7 1 3 | Accessory | | VED030 | VEC | 0040 | | VED130 | | VED14 | 10 | | VED23 | 0 | | VED24 | 10 | | VED3 | 30 | | VED | 340 |
| VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED330< | (FV10 | | • | | • | | ٠ | | • | | | ٠ | | | • | | | • | | | | |
| VED030 VED040 VED130 VED140 VED230 VED240 VED330 VED 1 4 6 1 4 6 1 4 6 1 3 6 1 3 6 1 3 7 1 3 | | NCE SPECIFI | CATIONS | | | | | | | | | | | | | | | | | | | |
| 1 4 6 1 4 6 1 4 6 1 3 6 1 3 6 1 3 7 1 3 | -pipe | | Т | VEDO | | VES | | VF5- | 20 1 | | FD446 | | VERS | | | UFDa : | | | FDDD | | 15- | 22.65 |
| | | | | | _ | | | | | VI | | | | | | _ | _ | _ | | $\overline{}$ | | |
| | | | | 1 4 L M | 6 H | | | 1 4 L M | 6 H | 1 | | 6 · | 1 3 . M | 6 H | 1 | 3 M | 6 H | 1 | 3 M | 7 H | | 3 M |

| - Princ | | 1 | VED030 VED040 VED130 VED140 1 4 6 1 4 6 1 4 6 | | | | | 1 | /ED23 | 0 | 1 | VED24 | 0 | 1 | /ED33 | 0 | | VED340 | , <u> </u> | | | | | | |
|---------------------------------------|-------|--------|---|------|------|------|------|------|-------|------|------|-------|--------|--------|-------|------|------|--------|------------|------|------|-------|------|-------|-------|
| | | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 3 | 6 | 1 | 3 | 7 | 1 | 3 | 7 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,82 | 3,37 | 3,69 | 2,37 | 3,57 | 3,92 | 4,40 | 5,83 | 6,29 | 4,52 | 6,09 | 6,58 | 5,35 | 6,50 | 7,16 | 5,80 | 7,14 | 7,91 | 7,81 | 9,34 | 10,51 | 8,31 | 10,02 | 10,95 |
| Water flow rate system side | I/h | 160 | 296 | 323 | 207 | 313 | 343 | 386 | 512 | 552 | 396 | 534 | 577 | 469 | 570 | 628 | 509 | 626 | 694 | 685 | 819 | 921 | 729 | 878 | 960 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 4 | 10 | 12 | 13 | 22 | 26 | 9 | 16 | 18 | 27 | 30 | 37 | 18 | 26 | 32 | 9 | 13 | 16 | 22 | 28 | 32 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,67 | 1,83 | 1,18 | 1,77 | 1,94 | 2,18 | 2,90 | 3,12 | 2,24 | 3,02 | 3,27 | 2,66 | 3,23 | 3,56 | 2,88 | 3,55 | 3,93 | 3,88 | 4,64 | 5,22 | 3,98 | 4,98 | 5,44 |
| Water flow rate system side | l/h | 157 | 291 | 318 | 204 | 208 | 338 | 380 | 504 | 543 | 390 | 526 | 568 | 462 | 561 | 618 | 501 | 616 | 683 | 674 | 807 | 907 | 718 | 865 | 945 |
| Pressure drop system side | kPa | 3 | 8 | 9 | 5 | 11 | 13 | 15 | 24 | 28 | 10 | 16 | 19 | 26 | 29 | 36 | 18 | 27 | 32 | 10 | 14 | 17 | 13 | 20 | 23 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,97 | 1,41 | 1,56 | 1,10 | 1,68 | 1,84 | 2,05 | 2,74 | 2,91 | 2,24 | 3,00 | 3,22 | 2,55 | 3,07 | 3,33 | 2,86 | 3,57 | 3,93 | 3,62 | 4,35 | 4,90 | 3,92 | 4,72 | 5,26 |
| Sensible cooling capacity | kW | 0,73 | 1,07 | 1,18 | 0,79 | 1,19 | 1,29 | 1,41 | 1,89 | 2,01 | 1,58 | 2,14 | 2,30 | 1,96 | 2,38 | 2,61 | 2,16 | 2,65 | 2,92 | 2,74 | 3,26 | 3,63 | 2,89 | 3,50 | 3,89 |
| Water flow rate system side | l/h | 170 | 250 | 279 | 193 | 296 | 327 | 358 | 480 | 515 | 390 | 525 | 566 | 445 | 538 | 588 | 499 | 624 | 691 | 633 | 760 | 860 | 685 | 824 | 922 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 5 | 12 | 14 | 15 | 27 | 31 | 11 | 20 | 23 | 25 | 36 | 44 | 16 | 31 | 37 | 10 | 14 | 18 | 16 | 21 | 26 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centri | fugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Asynch | ronous | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 161 | 256 | 285 | 160 | 249 | 277 | 287 | 397 | 433 | 280 | 386 | 420 | 417 | 524 | 590 | 406 | 509 | 570 | 572 | 704 | 805 | 563 | 685 | 775 |
| High static pressure | Pa | 21 | 50 | 61 | 21 | 50 | 61 | 26 | 50 | 60 | 26 | 50 | 60 | 32 | 50 | 64 | 32 | 50 | 63 | 33 | 50 | 66 | 34 | 50 | 64 |
| Input power | W | 23 | 38 | 59 | 23 | 38 | 58 | 34 | 53 | 76 | 34 | 52 | 75 | 43 | 57 | 93 | 43 | 57 | 92 | 63 | 75 | 104 | 63 | 74 | 107 |
| Electrical wiring | | V1 | V4 | ۷6 | ٧1 | V4 | ۷6 | V1 | V4 | ۷6 | ٧1 | ٧4 | ۷6 | V1 | V3 | ۷6 | V1 | V3 | ۷6 | V1 | ٧3 | ٧7 | ٧1 | V3 | ٧7 |
| Duct type fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 44,0 | 52,0 | 54,0 | 44,0 | 52,0 | 54,0 | 47,0 | 53,0 | 55,0 | 47,0 | 53,0 | 55,0 | 49,0 | 54,0 | 57,0 | 49,0 | 54,0 | 57,0 | 49,0 | 55,0 | 58,0 | 49,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 40,0 | 48,0 | 50,0 | 40,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 44,0 | 49,0 | 52,0 | 44,0 | 49,0 | 52,0 | 45,0 | 51,0 | 54,0 | 45,0 | 51,0 | 54,0 |
| Water coil | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | | | 0,7 | | | 1,0 | | | 1,1 | | | 1,5 | | | 1,5 | | | 2,1 | | | 1,8 | | | 2,3 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | 0 3/4" | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | 230V~ | ~50Hz | | | | | | | | | | | |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|
| Dimensions and weights | | | | | | | | | |
| A | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| В | mm | 550 | 550 | 781 | 781 | 1001 | 1001 | 1122 | 1122 |
| С | mm | 560 | 560 | 560 | 560 | 560 | 560 | 560 | 560 |
| D | mm | 576 | 576 | 807 | 807 | 1027 | 1027 | 1148 | 1148 |

















Fan coil unit for ducted installations



- · Horizontal and vertical installation
- Large range of available static pressure
- Inspectable ventilation group
- Total comfort: reduced temperature and humidity oscillations
- Electricity savings of 50% compared with a fan coil with multi-speed motor





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Brushless motor with continuous speed variation 0-100%.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWAI: External air or water temperature probe.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

VMF Components

VMF-E191: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Valves and additional water coil

BV: Single row hot water heat exchanger.

VCF_X: Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

VCF41 - **42** - **43** - **for main coil:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - **45** - **for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit **BC:** Condensate drip.

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE_X: External air shutter with manual control.

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

GM: Flow grid with adjustable louvers.

MZC: Plenum with motorised dampers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges.

RDM_V: Straight delivery coupling in galvanised sheet metal.

KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| AER503IR | • | • | • | • | • | • | • | • |
| PR0503 | • | | • | • | • | • | • | • |
| SA5 | • | • | • | • | • | • | • | • |
| SW3 | • | • | • | • | • | • | • | • |
| SW5 | • | • | • | • | • | • | • | • |
| SWAI | • | • | • | • | • | • | • | • |
| TX | • | • | • | | | • | • | • |
| WMT21 | • | • | | | • | • | • | • |

VMF system

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| VMF-E19I | • | • | • | • | • | • | • | • |
| VMF-E3 | • | • | • | • | • | • | • | • |
| VMF-E4DX | • | • | • | • | • | • | • | • |
| VMF-E4X | • | • | • | • | • | • | • | • |
| VMF-IO | • | • | • | • | • | • | • | • |
| VMF-IR | • | | • | | • | • | • | • |
| VMF-LON | • | • | • | • | • | • | • | • |
| VMF-SW | • | • | • | • | • | • | • | • |
| VMF-SW1 | • | | | | | • | | • |

(Heating only) additional coil

| <u>, , , , , , , , , , , , , , , , , , , </u> | | | | | | | | | _ |
|---|-------|-----|-------|-----|-------|-----|-------|-----|---|
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 | |
| | BV030 | - | BV130 | - | BV230 | - | BV162 | - | _ |

Water valves

Valve Kit for 4 pipe systems with main coil

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| VCF3X4L | • | • | • | | • | | • | • |
| VCF3X4LS | | | | • | | • | | _ |
| VCF3X4R | • | • | • | | • | | • | • |
| VCF3X4RS | | | | | | | | |

3 way valve kit

| | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|----------------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
| 3 way valve kit | , | | | | | | | |
| Main coil | VCF43-VCF4324 | VCF43-VCF4324 | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43-VCF4324 |
| Additional coil "BV" | VCF45-VCF4524 | - | VCF45-VFC4524 | = | VCF45-VCF4524 | - | VCF45-VCF4524 | - |

 $VCF43-45\ Power\ supply\ 230V, VCF4324-4524\ Power\ supply\ 24V-Hydraulic\ connections\ \emptyset\ 3/4"$

2 way valve kit

| | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2 way valve kit | | | | | | | | |
| Main coil | VCFD3-VCFD324 |
| Additional coil "BV" | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - |

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4" VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

Combined adjustment and balancing valve cold side

| Model | Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VJP060 (1) | | • | • | • | • | | | | |
| VJP060M (2) | 1 | • | • | • | • | | | | |
| VJP090 (1) | - 1 | | | | | • | • | • | • |
| VJP090M (2) | l | | | | | • | • | • | • |
| VJP150 (1) | | | | | | | | | • |
| VJP150M (2) | | | | | | | | • | • |

(1) 230V~50Hz (2) 24V VJP060 - 090 - 150 (230V~50Hz); VJP060M-090M-150M (24V)

Installation accessories

Wall mounting accessories

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|
| AMP | • | • | • | • | • | • | • |

Condensate drip

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| BCZ4 | • | • | • | • | • | • | • | • |
| BCZ6 | • | • | • | | • | | • | • |

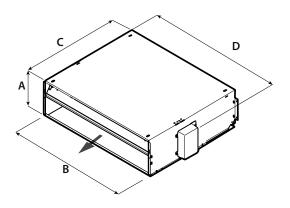
| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|--|--|---|--|---|---|---|---|---|
| 309 | • | • | • | • | • | • | • | • |
| CZ4 For vertical installation. CZ6 For horizontal installation. | | | | | | | | |
| C9 For horizontal installation. | | | | | | | | |
| ondensate drainage | | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | DSC4 | DSC4 | DSC4 | DSC4 | DSC4 | DSC4 | DSC4 | DSC4 |
| · · · · · · · · · · · · · · · · · · · | 550. | 5501 | | 5501 | 550. | 550. | 550. | 550. |
| Accessories for intake | | | | | | | | |
| ntake grids | | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | GA22 | GA22 | GA32 | GA32 | GA42 | GA42 | GA62 | GA62 |
| | | | | | | | | |
| ntake grid with filter and | l fixed louvers | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | GAF22 | GAF22 | GAF32 | GAF32 | GAF42 | GAF42 | GAF62 | GAF62 |
| | | | | | | | | |
| external air shutter with | | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| <u> </u> | SE20X (1) | SE20X (1) | SE30X (1) | SE30X (1) | SE40X (1) | SE40X (1) | SE80X (1) | SE80X (1) |
| The SE accessories must be combine | d with the design and struct | ural feet. | | | | | | |
| ntake straight with recta | ıngular flanges | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| | RDA000V | RDA000V | RDA100V | RDA100V | RDA200V | RDA200V | RDA300V | RDA300V |
| | | | | | | | | |
| ntake straight internally | | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| l | RDAC000V | RDAC000V | RDAC100V | RDAC100V | RDAC200V | RDAC200V | RDAC300V | RDAC300V |
| ntake plenum with recta | naular flanaes | | | | | | | |
| Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| ver | RPA000V | RPA000V | RPA100V | RPA100V | RPA200V | RPA200V | RPA300V | |
| | | | | | | | | |
| · | NFAUUUV | NI AUUUV | MATOUV | MATOUV | NFAZUUV | NFAZUUV | NEADUV | RPA300V |
| · | | NI AUUUV | REATOUV | NIATOUV | NFAZUUV | NFAZUUV | NEADOUV | KPA3UUV |
| ntake plenum with circu | | | | 140 | | 240 | | |
| <u> </u> | lar flanges | 040 PA000V | 130 PA100V | | 230 PA200V | | 330 PA300V | 340 PA300V |
| Intake plenum with circul | lar flanges 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| Intake plenum with circu Ver | lar flanges 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| Intake plenum with circul Ver Delivery accessories | lar flanges 030 PA000V | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
| Ntake plenum with circul Ver Delivery accessories Dutlet grille with adjusta | lar flanges 030 PA000V ble louvers | 040 PA000V | 130 PA100V | 140 PA100V | 230 PA200V | 240 PA200V | 330 PA300V | 340 PA300V |
| ntake plenum with circul Ver Delivery accessories | O30 PA000V ble louvers 030 | 040 PA000V | 130 PA100V | 140 PA100V | 230 PA200V | 240 PA200V 240 | 330 PA300V | 340 PA300V |
| Ver Delivery accessories Outlet grille with adjusta | lar flanges 030 PA000V ble louvers | 040 PA000V | 130 PA100V | 140 PA100V | 230 PA200V | 240 PA200V | 330 PA300V | 340 PA300V |
| Ver | Dar flanges 030 PA000V ble louvers 030 GM22 | 040 PA000V | 130 PA100V | 140 PA100V | 230 PA200V | 240 PA200V 240 | 330 PA300V | 340 PA300V |
| Ner | Dar flanges 030 PA000V ble louvers 030 GM22 | 040 PA000V | 130 PA100V | 140 PA100V | 230 PA200V | 240 PA200V 240 | 330 PA300V | 340 PA300V |
| Ntake plenum with circul Ver Delivery accessories Outlet grille with adjusta Ver | Dar flanges 030 PA000V ble louvers 030 GM22 an dampers | 040 PA000V 040 GM22 | 130 PA100V 130 GM32 | 140 PA100V 140 GM32 | 230 PA200V 230 GM42 | 240 PA200V 240 GM42 | 330 PA300V 330 GM62 | 340 PA300V 340 GM62 |
| Delivery accessories Outlet grille with adjusta Ver | ble louvers 030 GM22 an dampers 030 MZC220 | 040 PA000V 040 GM22 040 MZC220 | 130 PA100V 130 GM32 130 MZC320 | 140 PA100V 140 GM32 | 230 PA200V 230 GM42 | 240 PA200V 240 GM42 | 330 PA300V 330 GM62 | 340 PA300V 340 GM62 |
| Delivery accessories Ver Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 | 040 PA000V 040 GM22 040 MZC220 circular flange | 130 PA100V 130 GM32 130 MZC320 | 140 PA100V 140 GM32 140 MZC320 | 230 PA200V 230 GM42 230 MZC530 | 240 PA200V 240 GM42 240 MZC530 | 330 PA300V 330 GM62 330 MZC830 | 340 PA300V 340 GM62 340 MZC830 |
| Delivery accessories Outlet grille with adjusta Ver | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 | 040 PA000V 040 GM22 040 MZC220 circular flange 040 | 130 PA100V 130 GM32 130 MZC320 | 140 PA100V 140 GM32 140 MZC320 | 230 PA200V 230 GM42 230 MZC530 | 240 PA200V 240 GM42 240 MZC530 | 330 PA300V 330 GM62 330 MZC830 | 340 PA300V 340 GM62 340 MZC830 |
| Net ake plenum with circum Ver | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 | 040 PA000V 040 GM22 040 MZC220 circular flange | 130 PA100V 130 GM32 130 MZC320 | 140 PA100V 140 GM32 140 MZC320 | 230 PA200V 230 GM42 230 MZC530 | 240 PA200V 240 GM42 240 MZC530 | 330 PA300V 330 GM62 330 MZC830 | 340 PA300V 340 GM62 340 MZC830 |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver | ble louvers 030 GM22 an dampers 030 MZC220 bly insulated, with | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V | 130 PA100V 130 GM32 130 MZC320 130 PM100V | 140 PA100V 140 GM32 140 MZC320 | 230 PA200V 230 GM42 230 MZC530 | 240 PA200V 240 GM42 240 MZC530 | 330 PA300V 330 GM62 330 MZC830 | 340 PA300V 340 GM62 340 MZC830 |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V | 140 PA100V 140 GM32 140 MZ(320 140 PM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V | 330 PA300V 330 GM62 330 MZC830 PM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V |
| Ner | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla | 130 PA100V 130 GM32 130 MZC320 130 PM100V 130 PM100V | 140 PA100V 140 GM32 140 MZ(320 140 PM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V | 330 PA300V 330 GM62 330 MZ(830 MZ(830) PM300V | 340 PA300V 340 GM62 340 MZC830 PM300V |
| Ver | ble louvers 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V | 140 PA100V 140 GM32 140 MZ(320 140 PM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V | 330 PA300V 330 GM62 330 MZC830 PM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V |
| Ner | ble louvers 030 GM22 an dampers 030 MZC220 bly insulated, with 030 PM000V bly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla Q40 RPM000V | 130 PA100V 130 GM32 130 MZC320 S 130 PM100V 2009 2019 2020 | 140 PA100V 140 GM32 140 MZ(320 140 PM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V | 330 PA300V 330 GM62 330 MZ(830 MZ(830) PM300V | 340 PA300V 340 GM62 340 MZC830 PM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal | ble louvers 030 GM22 on dampers 030 MZC220 ly insulated, with 030 PM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V anges 130 RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V | 230 PA200V 230 GM42 230 MZC530 PM200V 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V | 330 PA300V 330 GM62 330 MZC830 PM300V 330 PM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla QH0 RPM000V circular flange | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V anges 130 RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V | 330 PA300V 330 GM62 330 MZC830 330 PM300V 330 RPM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal | ble louvers 030 GM22 on dampers 030 MZC220 ly insulated, with 030 PM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V anges 130 RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V | 230 PA200V 230 GM42 230 MZC530 PM200V 230 PM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V | 330 PA300V 330 GM62 330 MZC830 PM300V 330 PM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery plenum internal | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla QH0 RPM000V circular flange | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V anges 130 RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V | 330 PA300V 330 GM62 330 MZC830 330 PM300V 330 RPM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery straight internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 RPM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange 040 RPM000V | 130 PA100V 130 GM32 130 MZ(320 SS 130 PM100V Anges 130 RPM100V RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V 230 RPM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V 240 RDMC200V | 330 PA300V 330 GM62 330 MZC830 MZC830 PM300V 330 RPM300V | 340 PA300V 340 GM62 340 MZ(830 PM300V 340 RPM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery straight internal Ver Delivery straight internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 ly insulated, with 030 PM000V ly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla QH0 RPM000V circular flange | 130 PA100V 130 GM32 130 MZC320 SS 130 PM100V anges 130 RPM100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V 140 RDMC100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V | 330 PA300V 330 GM62 330 MZC830 330 PM300V 330 RPM300V | 340 PA300V 340 GM62 340 MZC830 340 PM300V 340 RPM300V |
| Delivery accessories Outlet grille with adjustate Ver Delivery method motor-drive Ver Delivery plenum internal Ver Delivery straight internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 lly insulated, with 030 RPM000V lly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange 040 RPM000V | 130 PA100V 130 GM32 130 MZ(320 SS 130 PM100V Anges 130 RPM100V RPM100V 130 RDMC100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V 140 RDMC100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V 230 RDMC200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V 240 RDMC200V | 330 PA300V 330 GM62 330 MZC830 MZC830 PM300V 330 RPM300V 330 RDMC300V | 340 PA300V 340 GM62 340 MZ(830 A40 PM300V 340 RPM300V 340 RDM(300V |
| Delivery accessories Outlet grille with adjustate Ver Delivery method motor-drive Ver Delivery plenum internal Ver Delivery straight internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 lly insulated, with 030 RPM000V lly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange 040 RPM000V | 130 PA100V 130 GM32 130 MZ(320 SS 130 PM100V Anges 130 RPM100V RPM100V 130 RDMC100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V 140 RDMC100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V 230 RDMC200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V 240 RDMC200V | 330 PA300V 330 GM62 330 MZC830 MZC830 PM300V 330 RPM300V 330 RDMC300V | 340 PA300V 340 GM62 340 MZ(830 A40 PM300V 340 RPM300V 340 RDM(300V |
| Delivery accessories Outlet grille with adjusta Ver Plenum with motor-drive Ver Delivery plenum internal Ver Delivery plenum internal Ver Delivery straight internal Ver Delivery straight internal Ver | lar flanges 030 PA000V ble louvers 030 GM22 an dampers 030 MZC220 lly insulated, with 030 RPM000V lly insulated, with 030 RPM000V | 040 PA000V 040 GM22 040 MZC220 circular flange 040 PM000V rectangular fla RPM000V circular flange 040 RPM000V | 130 PA100V 130 GM32 130 MZ(320 SS 130 PM100V Anges 130 RPM100V RPM100V 130 RDMC100V | 140 PA100V 140 GM32 140 MZC320 140 PM100V 140 RPM100V 140 RDMC100V | 230 PA200V 230 GM42 230 MZC530 230 PM200V 230 RPM200V 230 RDMC200V | 240 PA200V 240 GM42 240 MZC530 240 PM200V 240 RPM200V 240 RDMC200V | 330 PA300V 330 GM62 330 MZC830 MZC830 PM300V 330 RPM300V 330 RDMC300V | 340 PA300V 340 GM62 340 MZ(830 A40 PM300V 340 RPM300V 340 RDM(300V |

PERFORMANCE SPECIFICATIONS

| | | ١ | /ED03 | Ol | 1 | /ED040 |)I | ١ | /ED13(|)I | ١ | /ED14 | 01 | ١ | /ED23(| DI | ١ | /ED240 | DI | 1 | /ED33(|)I | 1 | /ED340 |)I |
|---------------------------------------|-------|------|-------|------|------|--------|------|------|--------|------|------|-------|-------|-------|--------|------|------|--------|------|------|--------|-------|------|--------|-------|
| | | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 | 1 | 5 | 7 |
| | | L | M | Н | L | М | Н | L | М | Н | L | М | Н | L | M | Н | L | М | Н | L | M | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,82 | 3,37 | 3,69 | 2,37 | 3,57 | 3,92 | 4,40 | 5,83 | 6,29 | 4,52 | 6,09 | 6,58 | 5,35 | 6,50 | 7,16 | 5,80 | 7,14 | 7,91 | 7,81 | 9,34 | 10,51 | 8,31 | 10,08 | 10,95 |
| Water flow rate system side | I/h | 160 | 296 | 323 | 207 | 313 | 343 | 386 | 512 | 552 | 396 | 534 | 577 | 469 | 570 | 628 | 509 | 626 | 694 | 685 | 819 | 921 | 729 | 878 | 960 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 4 | 10 | 12 | 13 | 22 | 26 | 9 | 16 | 18 | 27 | 30 | 37 | 18 | 26 | 32 | 9 | 13 | 16 | 22 | 28 | 32 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,67 | 1,83 | 1,17 | 1,77 | 1,94 | 2,18 | 2,90 | 3,12 | 2,24 | 3,02 | 3,27 | 2,66 | 3,23 | 3,56 | 2,88 | 3,55 | 3,93 | 3,88 | 4,64 | 5,22 | 3,98 | 4,98 | 5,44 |
| Water flow rate system side | l/h | 157 | 291 | 318 | 204 | 308 | 338 | 380 | 504 | 543 | 390 | 526 | 568 | 462 | 561 | 618 | 501 | 616 | 683 | 674 | 807 | 907 | 718 | 865 | 945 |
| Pressure drop system side | kPa | 3 | 8 | 9 | 5 | 11 | 13 | 15 | 24 | 28 | 10 | 16 | 19 | 26 | 29 | 36 | 18 | 27 | 32 | 10 | 14 | 17 | 13 | 20 | 23 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,98 | 1,42 | 1,58 | 1,11 | 1,69 | 1,86 | 2,06 | 2,76 | 2,95 | 2,25 | 3,02 | 3,25 | 2,57 | 3,09 | 3,37 | 2,88 | 3,59 | 3,97 | 3,62 | 4,36 | 4,91 | 3,95 | 4,72 | 5,27 |
| Sensible cooling capacity | kW | 0,74 | 1,08 | 1,20 | 0,80 | 1,20 | 1,31 | 1,42 | 1,91 | 2,05 | 1,59 | 2,16 | 2,32 | 1,98 | 2,40 | 2,65 | 2,18 | 2,67 | 2,96 | 2,77 | 3,27 | 3,64 | 2,92 | 3,51 | 3,90 |
| Water flow rate system side | I/h | 170 | 250 | 279 | 193 | 296 | 327 | 358 | 480 | 515 | 390 | 525 | 566 | 445 | 538 | 588 | 499 | 624 | 691 | 633 | 760 | 860 | 563 | 824 | 922 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 5 | 12 | 14 | 15 | 27 | 41 | 11 | 20 | 23 | 25 | 36 | 44 | 16 | 31 | 37 | 10 | 14 | 18 | 34 | 21 | 26 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centr | fugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Inve | rter | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 161 | 256 | 285 | 160 | 249 | 277 | 287 | 397 | 434 | 280 | 386 | 420 | 417 | 524 | 590 | 406 | 509 | 570 | 572 | 704 | 805 | 563 | 685 | 775 |
| High static pressure | Pa | 21 | 50 | 61 | 21 | 50 | 61 | 26 | 50 | 60 | 26 | 50 | 60 | 32 | 50 | 64 | 32 | 50 | 63 | 33 | 50 | 66 | 34 | 50 | 64 |
| Input power | W | 12 | 29 | 36 | 12 | 29 | 36 | 17 | 33 | 45 | 17 | 33 | 45 | 24 | 40 | 53 | 24 | 40 | 53 | 35 | 60 | 86 | 35 | 60 | 86 |
| Signal 0-10V | % | 54 | 80 | 90 | 54 | 80 | 90 | 58 | 82 | 90 | 58 | 82 | 90 | 66 | 80 | 90 | 62 | 80 | 90 | 62 | 78 | 90 | 66 | 84 | 90 |
| Duct type fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 44,0 | 52,0 | 54,0 | 44,0 | 52,0 | 54,0 | 47,0 | 53,0 | 55,0 | 47,0 | 53,0 | 55,0 | 49,0 | 54,0 | 57,0 | 49,0 | 54,0 | 57,0 | 49,0 | 55,0 | 58,0 | 49,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 40,0 | 48,0 | 50,0 | 40,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 44,0 | 49,0 | 52,0 | 44,0 | 49,0 | 52,0 | 45,0 | 51,0 | 54,0 | 45,0 | 51,0 | 54,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Gas | -F | | | | | | | | | | | |
| Main coil | Ø | | | | | | | | | | | | 3/ | 4″ | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | 230V | ~50Hz | | | | | | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45°C/40°C; EUROVENT
 (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|------------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | | | | |
| A | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| В | mm | 550 | 550 | 781 | 781 | 1001 | 1001 | 1122 | 1122 |
| C | mm | 584 | 584 | 584 | 584 | 584 | 584 | 584 | 584 |
| D | mm | 576 | 576 | 807 | 807 | 1027 | 1027 | 1148 | 1148 |
| U | mm | 3/0 | 3/0 | 807 | 807 | 1027 | 1027 | 1148 | 1148 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VED 430-741

Fan coil unit for ducted installations



- Horizontal and vertical installation
- · Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each

fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF system

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Water valves

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic com-

ponents. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

VCF45C - 47C - 47CS - for main coil: Motorized 3-way valve kit for main coil. The kit consists of a 4-way 4-way valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF45H - 47H - for heating only coil: Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25C - 25CS - for main coil: 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25H - for heating only coil: 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

BCV: Condensate drip.

Installation accessories

MZC: Plenum with motorised dampers.

 $\textbf{RDA_V:} \ \textbf{Straight intake connection with rectangular flange}.$

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out \emptyset 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

KFV: Circular flanges kit for plenum.

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

Configurator

| Field | Description | |
|-------|-----------------------------|--|
| 1,2,3 | VED | |
| | Size | |
| 4 | 4, 5, 6, 7 | |
| 5 | Main coil | |
| 3 | 3-row coil | |
| 4 | 4-row coil | |
| 6 | Secondary coil | |
| 0 | Without coil | |
| 1 | 1-row coil for heating only | |
| 2 | 2-row coil for heating only | |

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | | | | | | | | | | | | | | | | | |
| PR0503 | | • | • | | • | • | | | • | • | | | | • | • | | • |
| SA5 (2) | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SIT3 (3) | | | • | • | • | • | • | • | • | • | • | • | | • | • | • | |
| SIT5 (4) | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW3 (2) | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 (2) | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| TX (1) | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT05 (1) | | | | | | | | • | | | | • | | | | • | |
| WMT06 (1) | | • | • | • | • | • | | • | • | • | | • | • | • | • | • | • |
| WMT10 (1) | | • | | • | | | | | | | | | • | | | • | |

Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
 Probe for AERSO3IR-TX thermostats, if fitted.
 Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 Probe for AERSO3IR-TX thermostats, if fitted.

VMF system

| Model | Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E0X (1) | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E19 (1) | | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| VMF-E3 | | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4DX | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-E4X | | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | |
| VMF-IO | | • | • | • | • | • | | • | | • | • | • | | | • | • | • |
| VMF-IR | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| VMF-MOD | | | • | • | • | | • | • | • | • | • | • | • | | | • | • |
| VMF-SIT3V (2) | | • | • | • | • | • | • | • | • | • | | • | • | • | | • | • |
| VMF-SW | | • | | • | • | • | • | • | • | • | | • | • | • | | | • |
| VMF-SW1 | | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • |

Water valves

3 way valve kit

| | VED430 | VED440 | VED530 | VED540 | VED630 | VED640 | VED730 | VED740 |
|-------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
| 3 way valve kit | | | | | | | | |
| Main coil | VCF45C | VCF45C | VCF45C | VCF45C | VCF47CS | VCF47CS | VCF47CS | VCF47CS |
| | VED432 | VED441 | VED532 | VED541 | VED632 | VED641 | VED732 | VED741 |
| 3 way valve kit | | | | | | | | |
| Main coil | VCF45C | VCF45C | VCF45C | VCF45C | VCF47CS | VCF47CS | VCF47CS | VCF47CS |
| Secondary coil x 4-pipe | VCF45H | VCF45H | VCF45H | VCF45H | VCF47H | VCF47H | VCF47H | VCF47H |

230V power supply - Hydraulic connection Ø 3/4"

2 way valve kit

| | VED430 | VED440 | VED530 | VED540 | VED630 | VED640 | VED730 | VED740 |
|-------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
| 2 way valve kit | | | | | | | | _ |
| Main coil | VCF25C | VCF25C | VCF25C | VCF25C | VCF25CS | VCF25CS | VCF25CS | VCF25CS |
| | VED432 | VED441 | VED532 | VED541 | VED632 | VED641 | VED732 | VED741 |
| 2 way valve kit | | | | | | | | |
| Main coil | VCF25C | VCF25C | VCF25C | VCF25C | VCF25CS | VCF25CS | VCF25CS | VCF25CS |
| Secondary coil x 4-pipe | VCF25H | VCF25H | VCF25H | VCF25H | VCF25H | VCF25H | VCF25H | VCF25H |

230V power supply - Hydraulic connection Ø 3/4"

430

VCT103

VCT103

440

VCT103

441

VCT103

530

VCT103

2-way globe valves actuator excluded

| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | VCT102 | VCT202 |

540

VCT103

541

VCT103

630

VCT203

632

VCT203

640

VCT203

641

VCT203

730

VCT203

732

VCT203

740

VCT403

741

VCT403

532

VCT103

3-way globe valves actuator excluded

Ver

| Actuator 230V | | | | | | | | | | | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | VCTK |

Actuator 24V

| ACLUATOR 24V | | | | | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | VCTKM |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.
(2) For the selection, consult the documentation for the thermostat and the fan coil.

Combined adjustment and balancing valve cold side

| Model | Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VJP150 (1) | | • | • | • | • | • | • | • | • | | | | | | | | |
| VJP150M (2) | | • | | • | • | • | | • | • | | | | | | | | |
| VJP270M (2) | | | | | | | | | | • | | | | • | | | • |

(1) 230V~50Hz (2) 24V

VJP/VJP_M the compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.

Accessories for intake

Intake straight with rectangular flanges

| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|-------------------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | RDA450V | RDA450V | RDA450V | RDA450V | RDA450V | RDA450V | RDA450V | RDA450V | RDA670V |
| Intake plenum with rec | tangular fla | nges | | | | | | | | | | | | | | |
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | RPA450V | RPA450V | RPA450V | RPA450V | RPA450V | RPA450V | RPA450V | RPA450V | RPA670V |
| Intake plenum with circ | cular flanges | ; | | | | | | | | | | | | | | |
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | PA450V | PA450V | PA450V | PA450V | PA450V | PA450V | PA450V | PA450V | PA670V |
| | | | | | | | | | | | | | | | | |

Delivery accessories

Delivery plenum internally insulated, with rectangular flanges

| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|----------------------------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | RPM450V | RPM450V | RPM450V | RPM450V | RPM450V | RPM450V | RPM450V | RPM450V | RPM670V |
| Delivery plenum internally | insulate | d, with | circula | r flange | 25 | | | | | | | | | | | |

| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | PM450V | PM670V |
| | _ | | | | | | | | | | | | | | | |
| Circular flanges kit for p | lenum | | | | | | | | | | | | | | | |
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | KFV |
| Condensate drip | | | | | | | | | | | | | | | | |
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | BCV45 | BCV67 |

MZC

Plenum with motor-driven dampers

| VCI | 430 | 432 | 770 | 771 | 220 | 332 | 240 | J41 | 030 | 032 | 040 | 041 | /30 | 132 | 740 | /41 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | MZC5040 | MZC7050 |
| Electric plant | | | | | | | | | | | | | | | | |
| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
| | MZCAC | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

Electrical system with relays

| Ver | 430 | 432 | 440 | 441 | 530 | 532 | 540 | 541 | 630 | 632 | 640 | 641 | 730 | 732 | 740 | 741 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|------------|------------|------------|------------|------------|
| | - | - | - | - | - | - | - | - | - | - | MZCACV (1) |

⁽¹⁾ It is mandatory to use MZCACV if the intake of the unit combined with the MZC accessory exceeds 0.7 Ampere.

The accessory cannot be fitted on the configurations indicated with -

For more information, please refer to the MZC plenum sheet.

PERFORMANCE SPECIFICATIONS

2-pipe

| <u>z-pipe</u> | | , | VED43 | 0 | | VED44 | 0 | | VED53 | 0 | 1 | VED54 | 0 | | VED63 | 0 | 1 | VED64 | 0 | | VED73 | 0 | | VED74 | 0 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 | 3 | 5 | 1 | 3 | 5 | 2 | 4 | 5 | 2 | 4 | 5 | 1 | 3 | 5 | 1 | 3 | 5 | 1 | 3 | 5 | 1 | 3 | 5 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | - | | | | | | | | |
| Heating capacity | kW | 10,47 | 13,85 | 15,97 | 11,45 | 15,36 | 18,11 | 13,80 | 16,47 | 17,57 | 15,38 | 18,59 | 19,91 | 18,63 | 22,67 | 27,02 | 22,45 | 27,74 | 32,69 | 21,18 | 25,36 | 29,00 | 22,88 | 27,65 | 31,71 |
| Water flow rate system side | l/h | 918 | 1214 | 1401 | 1004 | 1347 | 1588 | 1210 | 1444 | 1541 | 1349 | 1630 | 1746 | 1634 | 1988 | 2369 | 1969 | 2433 | 2867 | 1857 | 2224 | 2543 | 2007 | 2425 | 2781 |
| Pressure drop system side | kPa | 9 | 14 | 19 | 11 | 18 | 24 | 13 | 158 | 21 | 18 | 25 | 29 | 30 | 43 | 58 | 19 | 29 | 38 | 38 | 55 | 67 | 26 | 36 | 46 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 5,20 | 5,88 | 7,94 | 5,69 | 7,64 | 9,01 | 6,86 | 8,19 | 8,74 | 7,45 | 9,24 | 9,90 | 9,26 | 11,20 | 13,40 | 9,88 | 12,40 | 14,80 | 10,50 | 12,60 | 14,20 | 11,30 | 13,70 | 15,70 |
| Water flow rate system side | I/h | 894 | 1183 | 1366 | 979 | 1314 | 1550 | 1180 | 1409 | 1503 | 1281 | 1589 | 1703 | 1593 | 1926 | 2305 | 1699 | 2133 | 2546 | 1806 | 2167 | 2442 | 1944 | 2356 | 2700 |
| Pressure drop system side | kPa | 9 | 14 | 19 | 11 | 18 | 24 | 14 | 19 | 21 | 21 | 25 | 30 | 30 | 42 | 58 | 16 | 24 | 32 | 38 | 52 | 66 | 26 | 36 | 35 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 4,54 | 5,98 | 6,72 | 5,21 | 6,88 | 7,79 | 5,99 | 7,16 | 7,49 | 7,26 | 8,31 | 8,70 | 8,67 | 10,43 | 12,19 | 10,20 | 12,50 | 14,80 | 10,17 | 11,92 | 13,48 | 11,73 | 13,95 | 15,71 |
| Sensible cooling capacity | kW | 3,40 | 4,54 | 5,13 | 3,65 | 4,86 | 5,51 | 4,55 | 5,48 | 5,75 | 4,87 | 5,90 | 6,18 | 7,00 | 8,48 | 9,96 | 7,02 | 8,62 | 10,30 | 8,25 | 9,71 | 11,07 | 8,11 | 9,69 | 10,95 |
| Water flow rate system side | l/h | 781 | 1029 | 1156 | 896 | 1183 | 1340 | 1030 | 1232 | 1288 | 1249 | 1429 | 1496 | 1491 | 1794 | 2097 | 1754 | 2150 | 2546 | 1749 | 2050 | 2319 | 2018 | 2399 | 2702 |
| Pressure drop system side | kPa | 8 | 13 | 17 | 10 | 17 | 22 | 12 | 19 | 21 | 19 | 25 | 28 | 26 | 36 | 48 | 24 | 34 | 47 | 35 | 46 | 58 | 27 | 37 | 45 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centr | ifugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Asynch | ronous | | | | | | | | | | | |
| Number | no. | | 2 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 790 | 1130 | 1350 | 780 | 1100 | 1340 | 1120 | 1400 | 1520 | 1100 | 1380 | 1500 | 1380 | 1800 | 2210 | 1567 | 2004 | 2440 | 1640 | 2040 | 2410 | 1600 | 2000 | 2350 |
| High static pressure | Pa | 24 | 50 | 72 | - | 50 | 63 | 32 | 50 | 70 | 32 | 50 | 56 | 30 | 50 | 75 | 30 | 50 | 75 | 32 | 50 | 69 | 32 | 50 | 64 |
| Input power | W | 137 | 175 | 228 | 135 | 178 | 222 | 175 | 232 | 270 | 172 | 230 | 267 | 220 | 271 | 340 | 220 | 293 | 340 | 234 | 285 | 371 | 234 | 285 | 371 |
| Electrical wiring | | ٧1 | V3 | V5 | V1 | V3 | V5 | V2 | V4 | V5 | V2 | ٧4 | V5 | V1 | V3 | V5 | ٧1 | V3 | V5 | V1 | ٧3 | V5 | V1 | V3 | V5 |
| Duct type fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 51,0 | 57,0 | 61,0 | 51,0 | 57,0 | 61,0 | 53,0 | 59,0 | 62,0 | 53,0 | 59,0 | 62,0 | 61,0 | 64,0 | 68,0 | 61,0 | 64,0 | 68,0 | 62,0 | 66,0 | 68,0 | 62,0 | 66,0 | 68,0 |
| Sound power level (outlet) | dB(A) | 47,0 | 53,0 | 57,0 | 47,0 | 53,0 | 57,0 | 49,0 | 55,0 | 58,0 | 49,0 | 55,0 | 58,0 | 57,0 | 60,0 | 64,0 | 57,0 | 60,0 | 64,0 | 58,0 | 62,0 | 64,0 | 58,0 | 62,0 | 64,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | | - | | | | | | | | | | | |
| Main coil | Ø | | | | | | | | | | | | 3/ | /4" | | | | | | | | | | | |
| Water coil | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | I | | 2,9 | | | 3,9 | | | 2,9 | | | 3,9 | | | 4,7 | | | 6,3 | | | 4,7 | | | 6,3 | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | | 230V | ~50Hz | | | | | | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

 4-pipe

| | | | VED441 | | | VED541 | | | VED641 | | | VED741 | |
|---------------------------------------|-------|------|--------|------|------|--------|--------|---------|--------|-------|-------|--------|-------|
| | | 1 | 3 | 5 | 2 | 4 | 5 | 1 | 3 | 5 | 1 | 3 | 5 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | |
| Heating capacity | kW | 5,53 | 6,68 | 7,30 | 6,70 | 7,62 | 7,89 | 9,65 | 11,00 | 12,30 | 10,50 | 11,80 | 12,90 |
| Water flow rate system side | l/h | 475 | 574 | 627 | 576 | 655 | 678 | 829 | 946 | 1057 | 903 | 1014 | 1109 |
| Pressure drop system side | kPa | 14 | 20 | 23 | 20 | 25 | 26 | 15 | 19 | 24 | 18 | 22 | 25 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 5,35 | 7,05 | 8,00 | 7,46 | 8,56 | 8,94 | 10,40 | 12,70 | 15,20 | 11,90 | 14,20 | 16,10 |
| Sensible cooling capacity | kW | 3,79 | 5,03 | 5,74 | 5,07 | 6,14 | 6,42 | 7,26 | 8,92 | 10,70 | 8,37 | 9,96 | 11,30 |
| Water flow rate system side | l/h | 920 | 1212 | 1376 | 1283 | 1472 | 1537 | 1788 | 2184 | 2614 | 2046 | 2442 | 2769 |
| Pressure drop system side | kPa | 12 | 19 | 24 | 21 | 27 | 29 | 24 | 35 | 48 | 27 | 37 | 46 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centr | ifugal | | | | | |
| Fan motor | type | | | | | | Asynch | ironous | | | | | |
| Number | no. | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 750 | 1060 | 1253 | 1060 | 1360 | 1453 | 1340 | 1730 | 2120 | 1600 | 2000 | 2358 |
| High static pressure | Pa | 25 | 50 | 70 | 32 | 50 | 57 | 30 | 50 | 75 | 32 | 50 | 69 |
| Input power | W | 121 | 175 | 215 | 170 | 229 | 265 | 224 | 264 | 341 | 224 | 288 | 373 |
| Electrical wiring | | V1 | V3 | V5 | V2 | V4 | V5 | V1 | V3 | V5 | V1 | V3 | V5 |
| Duct type fan coil sound data (3) | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 51,0 | 57,0 | 61,0 | 53,0 | 59,0 | 62,0 | 61,0 | 64,0 | 68,0 | 62,0 | 66,0 | 68,0 |
| Sound power level (outlet) | dB(A) | 47,0 | 53,0 | 57,0 | 49,0 | 55,0 | 58,0 | 57,0 | 60,0 | 64,0 | 58,0 | 62,0 | 64,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Туре | type | | | | | | | - | | | | | |
| Main coil | Ø | | | | | | 3/ | 4" | | | | | |
| Secondary coil | Ø | | | | | | 1/ | 2" | | | | | |
| Water coil | | | | | | | | | | | | | |
| Water content main coil | - 1 | | 3,9 | | | 3,9 | | | 6,3 | | | 6,3 | |
| Water content the secondary coil | - 1 | | 1,0 | | | 1,0 | | | 1,6 | | | 1,6 | |
| Power supply | | | | | | | | | | | | | |

| | VED441 | VED541 | VED641 | VED741 |
|--------------|--------|--------|--------|--------|
| Power supply | | 230V- | ~50Hz | |

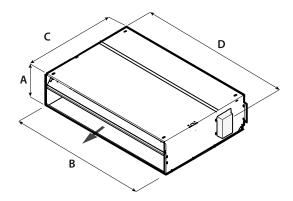
- (1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
 (2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

| VED | | | From VED 4 | | | | | |
|------------------|----|----|------------|----|----|--|--|--|
| Fan speed | V1 | V2 | V3 | V4 | V5 | | | |
| Motor connection | L5 | L4 | L3 | L2 | L1 | | | |

The speed of associates may differ from the standard factory configuration.

For more information refer to the selection program and to to the dedicated documentation.

DIMENSIONS



| | | WED 424 | VED 440 | VEDERA | VEDEAN | WED CO. | VEDCAR | VEDERA | VERTAG |
|------------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | VED430 | VED440 | VED530 | VED540 | VED630 | VED640 | VED730 | VED740 |
| Dimensions and weights | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 351 | 351 | 351 | 351 |
| В | mm | 1133 | 1133 | 1133 | 1133 | 1533 | 1533 | 1533 | 1533 |
| C | mm | 737 | 737 | 737 | 737 | 789 | 789 | 789 | 789 |
| D | mm | 1158 | 1158 | 1158 | 1158 | 1558 | 1558 | 1558 | 1558 |
| Net weight | kg | 41,00 | 43,00 | 42,00 | 47,00 | 57,00 | 60,00 | 58,00 | 61,00 |
| | | VED432 | VED441 | VED532 | VED541 | VED632 | VED641 | VED732 | VED741 |
| Dimensions and weights | | | | | | | | | |
| a gii to | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 351 | 351 | 351 | 351 |
| A B | mm mm | 300 1133 | 300 1133 | 300 1133 | 300 1133 | 351 1533 | 351 1533 | 351 1533 | 351 1533 |
| A B C | | | | | | | | | |
| A B C D | mm | 1133 | 1133 | 1133 | 1133 | 1533 | 1533 | 1533 | 1533 |



















VED 530I-741I

Fan coil unit for ducted installations



- Horizontal and vertical installation
- Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Brushless motor with continuous speed variation 0-100%.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

VMF system

VMF-E191: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Configurator

| Coming | juittoi |
|--------|-----------------------------|
| Field | Description |
| 1,2,3 | VED |
| 4 | Size 5, 7 |
| 5 | Main coil |
| 3 | 3-row coil |
| 4 | 4-row coil |
| 6 | Secondary coil |
| 0 | Without coil |
| 1 | 1-row coil for heating only |
| 2 | 2-row coil for heating only |

Water valves

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

VCF45C - 47C - 47CS - for main coil: Motorized 3-way valve kit for main coil. The kit consists of a 4-way 4-way valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF45H - 47H - for heating only coil: Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25C - 25CS - for main coil: 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25H - **for heating only coil:** 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

BCV: Condensate drip.

Installation accessories

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

KFV: Circular flanges kit for plenum.

MZCBC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with a brushless motor.

| Field | Description |
|-------|-------------|
| 7 | Fans |

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Accessory | VED530I | VED540I | VED730I | VED740I |
|-----------|---------|---------|---------|---------|
| AER503IR | • | • | • | • |
| PR0503 | • | • | • | • |
| SA5 | • | • | • | • |
| SW5 | • | • | • | • |
| TX | • | • | • | • |
| WMT21 | • | • | • | • |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| AER503IR | • | • | • | • |
| PR0503 | • | • | • | • |
| SA5 | • | • | • | • |
| SW5 | • | • | • | • |
| TX | • | • | • | • |

VMF system

| vivir system | | | | |
|--------------|---------|---------|---------|---------|
| Accessory | VED530I | VED540I | VED730I | VED740I |
| VMF-E19I | • | • | • | • |
| VMF-E3 | • | • | • | • |
| VMF-E4DX | • | • | • | • |
| VMF-E4X | • | • | • | • |
| VMF-I0 | • | • | • | • |
| VMF-IR | • | • | • | • |
| VMF-SW | • | • | • | • |
| VMF-SW1 | • | • | • | • |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| VMF-E19I | • | • | • | • |
| VMF-E3 | • | • | • | • |
| VMF-E4DX | • | • | • | • |
| VMF-E4X | • | • | • | • |
| VMF-IO | • | • | • | • |
| VMF-IR | • | • | • | • |
| VMF-LON | • | • | • | • |
| VMF-SW | • | • | • | • |
| VMF-SW1 | • | • | • | • |
| | | | | |

Water valves

3 way valve kit

| | VED530I | VED540I | VED730I | VED740I |
|-------------------------|---------|---------|---------|---------|
| 3 way valve kit | | | | |
| Main coil | VCF45C | VCF45C | VCF47CS | VCF47CS |
| Secondary coil x 4-pipe | - | - | - | - |
| | VED532I | VED541I | VED732I | VED741I |
| 3 way valve kit | | | | |
| Main coil | VCF45C | VCF45C | VCF47CS | VCF47CS |
| Secondary coil x 4-pipe | VCF45H | VCF45H | VCF47H | VCF47H |

230V power supply - Hydraulic connection Ø 3/4"

2 way valve kit

| | VED530I | VED540I | VED730I | VED740I |
|-------------------------|---------|---------|---------|---------|
| 2 way valve kit | | | | |
| Main coil | VCF25C | VCF25C | VCF25CS | VCF25CS |
| Secondary coil x 4-pipe | - | - | - | - |
| | VED532I | VED541I | VED732I | VED741I |
| 2 way valve kit | | | | |
| Main coil | VCF25C | VCF25C | VCF25CS | VCF25CS |
| Secondary coil x 4-pipe | VCF25H | VCF25H | VCF25H | VCF25H |

230V power supply - Hydraulic connection Ø 3/4"

2-way globe valves actuator excluded

| Accessory | VED530I | VED540I | VED730I | VED740I |
|---------------------|--------------|--------------|---------|---------|
| VCT102 | • | • | | |
| VCT202 | | | • | • |
| | | | | |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| Accessory VCT102 | VED532I • | VED541I • | VED732I | VED741I |

| 10 | t 111 | ato | r 2 | 31 | 11/ |
|----|--------------|-----|-----|----|-----|
| | | | | | |

| Actuator 230V | | | | \rac{1}{2} |
|----------------------------|------------------------------------|--------------|---------------------------------------|--------------|
| Accessory VCTK | VED540I | VED | 7301 | VED740I |
| | | | | |
| Accessory VCTK | VED532I | VED541I | VED732I | VED741I |
| Actuator 24V | | | | |
| Accessory | VED540I | VED | 7301 | VED740I |
| VCTKM | • | | , | • |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| /CTKM | • | • | • • • • • • • • • • • • • • • • • • • | VED/411 • |
| Combined adjustment and | balancina valve cold side | | | |
| Accessory | VED530I | VED540I | VED730I | VED740I |
| JP150 | • | • | | |
| JP150M | | • | | |
| JP270M | | | • | • |
| ccessory | VED532I | VED541I | VED732I | VED741I |
| JP150 | • | • | | |
| JP150M | • | • | | |
| JP270M | | | • | • |
| | ity of the hot water valves with | the de- | | |
| - | pe installation is to be verified. | | | |
| ondensate drip | |) | | |
| CCESSORY | VED530I | VED540I | VED730I | VED740I |
| CV45 CV67 | • | • | • | • |
| ccessory | VED532I | VED541I | VED732I | VED741I |
| CV45 | • | • | VLD/ 321 | VLD/411 |
| CV67 | | | | |
| ntake straight with rectan | VED530I | VED540I | VED730I | VED740I |
| DA450V DA670V | • | • | • | • |
| | VED532I | VED541I | VED732I | VED741I |
| ccessory DA450V | • | • VEUJ411 | VED/32I | VED/411 |
| DA670V | · | · | • | • |
| ntake plenum with rectang | aular flanaes | | | |
| ccessory | VED530I | VED540I | VED730I | VED740I |
| PA450V | • | • | | |
| PA670V | | | • | • |
| ccessory | VED532I | VED541I | VED732I | VED741I |
| PA450V | • | • | | |
| PA670V | | | • | • |
| ntake plenum with circular | r flanges | | | |
| ccessory | VED530I | VED540I | VED730I | VED740I |
| A450V | • | • | | |
| A670V | UPA | NED CO. | , ALED TOOL | • VEDT 441 |
| A450V | VED532I | VED541I • | VED732I | VED741I |
| A450V A670V | • | • | • | |
| Delivery accessories | | | | |
| Delivery plenum internally | insulated, with rectangular flan | | | |
| ccessory | VED530I | VED540I | VED730I | VED740I |
| PM450V | • | • | | |
| PM670V | | | • | • |
| ccessory | VED532I | VED541I | VED732I | VED741I |
| PM450V | • | • | | |
| RPM670V | | | • | • |

Delivery plenum internally insulated, with circular flanges

| Accessory | VED530I | VED540I | VED730I | VED740I |
|---------------------|--------------|--------------|---------|----------|
| PM450V | • | • | | |
| PM670V | | | • | • |
| | | | | 1/50=141 |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| Accessory PM450V | VED532I • | VED541I • | VED732I | VED/41I |

Circular flanges kit for plenum

| Accessory | VED530I | VED540I | VED730I | VED740I |
|-----------|---------|---------|---------|---------|
| KFV | • | • | • | • |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| KFV | • | • | • | • |

MZC

Plenum with motor-driven dampers

| Accessory | VED530I | VED540I | VED730I | VED740I |
|-----------|---------|---------|---------------|------------|
| MZC5040 | • | • | | |
| MZC7050 | | | • | • |
| Accessory | VED532I | VED541I | VED732I | VED741I |
| necessory | 1203321 | VLDJTII | V L D / J Z I | VLU/ T I I |
| MZC5040 | • | • | VLU/ 321 | YLD/TII |

Electric plant

| Accessory | VED540I | VEC |)730l | VED740I | |
|-----------|---------|---------|---------|---------|--|
| MZCBC | • | | • | • | |
| Accessory | VED532I | VED541I | VED732I | VED741I | |
| MZCBC | • | • | • | • | |

PERFORMANCE SPECIFICATIONS

2-pipe

| | | | VED530I | | | VED540I | | | VED730I | | | VED740I | |
|---------------------------------------|-------|-------|---------|-------|-------|---------|-------|---------|---------|-------|-------|---------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | M | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | · | | | | | | | | | | | | |
| Heating capacity | kW | 13,80 | 16,47 | 17,57 | 15,38 | 18,59 | 19,91 | 21,18 | 25,36 | 29,00 | 22,88 | 27,65 | 31,71 |
| Water flow rate system side | l/h | 1210 | 1444 | 1541 | 1349 | 1630 | 1746 | 1857 | 2224 | 2543 | 2007 | 2425 | 2781 |
| Pressure drop system side | kPa | 13 | 18 | 21 | 18 | 25 | 29 | 38 | 55 | 67 | 26 | 36 | 46 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 6,86 | 8,19 | 8,74 | 7,65 | 9,24 | 9,90 | 10,53 | 12,61 | 14,22 | 11,34 | 27,65 | 15,81 |
| Water flow rate system side | l/h | 1180 | 1409 | 1503 | 1316 | 1589 | 1703 | 1811 | 2169 | 2446 | 1950 | 2425 | 2719 |
| Pressure drop system side | kPa | 14 | 19 | 21 | 21 | 25 | 30 | 38 | 52 | 66 | 26 | 36 | 46 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 6,05 | 7,25 | 7,39 | 7,31 | 8,40 | 8,70 | 10,25 | 11,96 | 13,48 | 11,81 | 13,99 | 15,71 |
| Sensible cooling capacity | kW | 4,61 | 5,57 | 6,02 | 4,93 | 5,99 | 6,18 | 8,33 | 9,75 | 11,07 | 8,19 | 9,73 | 10,95 |
| Water flow rate system side | l/h | 1041 | 1247 | 1271 | 1257 | 1445 | 1496 | 1763 | 2057 | 2319 | 2031 | 2406 | 2702 |
| Pressure drop system side | kPa | 12 | 19 | 21 | 19 | 25 | 28 | 35 | 46 | 58 | 27 | 37 | 45 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centi | rifugal | | | | | |
| Fan motor | type | | | | | | Inv | erter | | | | | |
| Number | no. | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 1120 | 1400 | 1520 | 1100 | 1380 | 1500 | 1640 | 2040 | 2410 | 1600 | 2000 | 2358 |
| High static pressure | Pa | 32 | 50 | 58 | 32 | 50 | 56 | 32 | 50 | 69 | 32 | 50 | 69 |
| Input power | W | 115 | 160 | 205 | 115 | 160 | 205 | 147 | 241 | 370 | 147 | 241 | 370 |
| Signal 0-10V | % | 66 | 76 | 62 | 62 | 76 | 90 | 62 | 76 | 90 | 62 | 76 | 90 |
| Duct type fan coil sound data (4) | | | | | | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 53,0 | 59,0 | 62,0 | 53,0 | 59,0 | 62,0 | 62,0 | 66,0 | 68,0 | 62,0 | 66,0 | 68,0 |
| Sound power level (outlet) | dB(A) | 49,0 | 55,0 | 58,0 | 49,0 | 55,0 | 58,0 | 58,0 | 62,0 | 64,0 | 58,0 | 62,0 | 64,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | 3, | /4" | | | | | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | | | | | 230V | ~50Hz | | | | | |

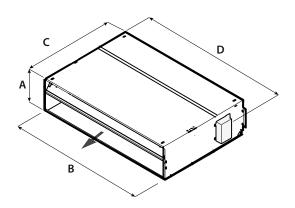
- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

| | | | VED541I | | | VED741I | |
|---------------------------------------|-------|------|---------|-------|--------|---------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | |
| Heating capacity | kW | 6,70 | 7,62 | 7,90 | 10,57 | 11,88 | 12,96 |
| Water flow rate system side | I/h | 584 | 666 | 692 | 925 | 1040 | 1133 |
| Pressure drop system side | kPa | 19 | 24 | 26 | 17 | 21 | 25 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | |
| Cooling capacity | kW | 7,43 | 8,54 | 8,97 | 11,96 | 14,23 | 16,08 |
| Sensible cooling capacity | kW | 5,04 | 6,13 | 6,45 | 8,34 | 9,97 | 11,32 |
| Water flow rate system side | I/h | 1278 | 1469 | 1543 | 2057 | 2448 | 2766 |
| Pressure drop system side | kPa | 21 | 27 | 29 | 27 | 37 | 46 |
| Fan | | | | | | | |
| Туре | type | | | Centr | ifugal | | |
| Fan motor | type | | | Inve | erter | | |
| Number | no. | | 2 | | | 3 | |
| Air flow rate | m³/h | 1060 | 1360 | 1460 | 1600 | 2000 | 2350 |
| High static pressure | Pa | 32 | 50 | 56 | 32 | 50 | 69 |
| Input power | W | 106 | 163 | 185 | 138 | 240 | 363 |
| Signal 0-10V | % | 66 | 84 | 90 | 64 | 78 | 90 |
| Duct type fan coil sound data (3) | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 53,0 | 59,0 | 62,0 | 62,0 | 66,0 | 68,0 |
| Sound power level (outlet) | dB(A) | 49,0 | 55,0 | 58,0 | 58,0 | 62,0 | 64,0 |
| Diametre hydraulic fittings | | | | | | | |
| Main coil | Ø | | | 3, | 4" | | |
| Secondary coil | Ø | | | 1, | 2" | | |
| Power supply | | | | | | | |
| Power supply | | | | 230V- | ~50Hz | | |

- (1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
 (2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | VED530I | VED540I | VED730I | VED740I |
|------------------------|--------|---------|---------|----------|---------|
| Dimensions and weights | | VLDJJOI | VLDJANI | VLD/ JUI | VLD/401 |
| A | mm | 300 | 300 | 351 | 351 |
| В | mm | 1133 | 1133 | 1533 | 1533 |
| С | mm | 737 | 737 | 789 | 789 |
| D | mm | 1158 | 1158 | 1558 | 1558 |
| Net weight | kg | 42,00 | 47,00 | 58,00 | 61,00 |
| | | VED532I | VED541I | VED732I | VED741I |
| Dimensions and weights | | | | | |
| A | mm | 300 | 300 | 351 | 351 |
| n . | 111111 | 300 | 300 | 331 | 221 |
| В | mm | 1133 | 1133 | 1533 | 1533 |
| B C | | | | | |
| B C D | mm | 1133 | 1133 | 1533 | 1533 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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Fan coil unit for ducted installations



- Horizontal and vertical installation
- Large range of available static pressure
- Heat eschanger developed to optimize the performance sensitive





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

- The heat eschanger, reversible during installation, is designed to ensure high heat transfer, ideal for applications in a sensitive environment.
- The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filte

Air filter Class COARSE 25%, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF Components

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Valves and additional water coil

BV: Single row hot water heat exchanger.

VCF_X: Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

VCF41 - **42** - **43** - **for main coil:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE_X: External air shutter with manual control.

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

GM: Flow grid with adjustable louvers.

MZC: Plenum with motorised dampers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges.

KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | | • | • | • | • | • | • | • | • |
| FMT10 | | • | • | • | • | • | • | • | • |
| PX2 | | • | • | • | • | • | • | • | • |
| SA5 (2) | | • | • | • | • | • | • | • | • |
| SIT3 (3) | | • | • | • | • | • | • | • | • |
| SIT5 (4) | | • | • | • | • | • | | • | • |
| SW5 (2) | | • | • | • | • | • | • | • | • |
| SWA | | • | • | • | • | • | • | • | • |
| TX (1) | | • | • | • | • | • | • | • | • |
| WMT05 (1) | | • | • | • | • | • | • | • | • |
| WMT06 (1) | | • | • | • | • | • | | • | • |
| WMT10 (1) | | • | • | | • | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
- (2) Probe for AERSO3IR-TX thermostats, if fitted.
 (3) Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
- (4) Probe for AER503IR-TX thermostats, if fitted.

VMF system

| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMF-E0X | • | • | • | • | • | | • | • |
| VMF-E19 | • | • | • | • | • | | • | • |
| VMF-E4DX | • | • | • | • | • | • | • | • |
| VMF-E4X | • | • | • | • | • | • | • | • |
| VMF-SW | • | • | • | • | • | • | • | • |
| VMF-SW1 | | | | | | | • | |

(Heating only) additional coil

| Accessory | VES030 | VES130 | VES230 | VES330 |
|-----------|--------|--------|--------|--------|
| BV030 | • | | | |
| BV130 | | • | | |
| BV162 | | | | • |
| BV230 | | | • | |

Water valves

Valve Kit for 4 pipe systems with main coil

| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| VCF3X4L | • | • | ٠ | | | | | |
| VCF3X4LS | | | | • | • | • | • | • |
| VCF3X4R | • | • | • | | | | | |
| VCF3X4RS | | | | • | • | • | • | • |

3 way valve kit

| | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|----------------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|---------------|
| 3 way valve kit | | | | | | | | |
| Main coil | VCF43-VCF4324 | VCF43-VCF4324 | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43S-VCF4324S | VCF43-VCF4324 | VCF43-VCF4324 |
| Additional coil "BV" | VCF45-VCF4524 | - | VCF45-VFC4524 | - | VCF45-VCF4524 | - | VCF45-VCF4524 | - |

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections Ø 3/4" $\,$

2 way valve kit

| 2 way valve kit | | | | | | | | |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| 2 way valve kit | | | | | | | | |
| Main coil | VCFD3-VCFD324 |
| Additional coil "RV" | VCFD4-VCFD424 | _ | VCFD4-VCFD424 | _ | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - |

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"

VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

| Accessory | VESO30 | VESO40 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|--|--------------|---------|--------|----------|--------|----------|--------|---------|
| JP060 | • | • | • | • | VE3230 | VESE 10 | 123330 | 125510 |
| JP060M | • | • | • | • | | | | |
| /JP090 | | | | | • | • | • | • |
| /JP090M | | | | | • | • | • | • |
| /JP150 | | | | | | | • | • |
| /JP150M | | | | | | | • | • |
| nstallation accessories | | | | | | | | |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| AMP | • | | • | • | | | | |
| c 1 . 1: | | | | | | | | |
| Condensate drip | VECODO | VFC0.40 | VECANO | VEC4.40 | VECTOR | NEC3 10 | VECTOR | VECTA |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| BCZ4 BCZ6 | • | • | • | • | • | • | • | • |
| | | | | | | | | |
| Accessory | VES030 | VESO40 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| 809 | • | • | • | • | • | • | • | • |
| BCZ4 For vertical installation. BCZ6 For horizontal installation. | | | | | | | | |
| BC9 For horizontal installation. | | | | | | | | |
| Accessories for intake | | | | | | | | |
| Intake grids | | | | | | | | |
| Accessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
| GA22 | • | • | | | | | | |
| GA32 | | | • | • | | | | |
| GA42 | | | | | • | • | | |
| GA62 | | | | | | | • | • |
| Intake grid with filter and fix | red louvers | | | | | | | |
| Accessory | VESO30 | VESO40 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| GAF22 | • | • | 123130 | 123110 | VESES0 | VESE 10 | 123330 | VE33 10 |
| GAF32 | | | • | • | | | | |
| GAF42 | | | | | • | • | | |
| GAF62 | | | | | | | • | • |
| External air shutter with ma | nual control | | | | | | | |
| Accessory | VESO30 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| SE20X | • | • | VE5150 | YESTHO | VL3230 | VE32-10 | VE3330 | VL33-10 |
| SE30X | | | • | • | | | | |
| SE40X | | | | | • | • | | |
| SE80X | | | | | | | • | |
| | | | | | | | | |
| Intake straight with rectang | | VFC0.40 | VECADA | VEC440 | VECTOR | 1/502.40 | VECTOR | VECTA |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| RDA000V RDA100V | • | • | • | • | | | | |
| RDA200V | | | · · · | <u> </u> | • | • | | |
| RDA300V | | | | | | | • | |
| | _ | | | | | | | |
| Intake straight internally ins | | | | | | | | |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| RDACOOOV | • | • | | | | | | |
| RDAC100V RDAC200V | | | • | • | • | • | | |
| RDAC300V | | | | | • | • | • | • |
| | | | | | | | | - |
| /ES | | | | | | | | |
| ntake plenum with rectang | | | | | | | | |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| RPA000V | • | • | | | | | | |
| RPA100V | | | • | • | | | | |
| RPA200V | | | | | • | • | | |
| RPA300V | | | | | | | • | • |
| ntake plenum with circular | flanges | | | | | | | |
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| | | | | | | | | |
| PA000V | • | • | | | | | | |

PA100V PA200V

| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|--|---|------------------------------------|------------------------|---------|----------------------|-----------------------|------------------|-----------------------|
| 300V | | | | | | | • | |
| | | | | | | | | |
| elivery accessorie | | | | | | | | |
| low grid with adjust | | | | | | | | |
| ccessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| iM22 | • | • | | | | | | |
| GM32 | | | • | • | | | | |
| GM42 | | | | | • | • | | |
| iM62 | | | | | | | • | • |
| Plenum with motor-o | driven dampers | | | | | | | |
| ccessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| MZC220 | • | • | | | | | | |
| MZC320 | | | • | • | | | | |
| NZC530 | | | | | • | • | | |
| MZC830 | | | | | | | • | • |
| /ES | | | | | | | | |
| Delivery plenum inte | rnally insulated, with | circular flange | 25 | | | | | |
| ccessory | VES030 | VESO40 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
| M000V | • | • | | | | | | |
| M100V | | | • | • | | | | |
| | | | | | | | | |
| PM200V | | | | | • | • | | |
| | | | | | • | • | • | • |
| M300V | ornally insulated with | rectangular fl | anaes | | • | • | • | • |
| M300V Delivery plenum inte | rnally insulated, with | | | VF\$140 | | | | - |
| M300V Delivery plenum inte Accessory | VES030 | VES040 | anges VES130 | VES140 | VES230 | VES240 | VES330 | • VES340 |
| PM300V Delivery plenum inte Accessory RPM000V | | | VES130 | | | | | - |
| PM300V Delivery plenum inte Accessory APM000V APM100V | VES030 | VES040 | | VES140 | VES230 | VES240 | | - |
| PM300V Delivery plenum inte Accessory APM100V APM100V APM200V | VES030 | VES040 | VES130 | | | | VES330 | VES340 |
| PM300V Delivery plenum intel Locessory PM000V PM100V PM200V PM300V | VES030 • | VESO40 | VES130 • | | VES230 | VES240 | | - |
| M300V Delivery plenum inte ccessory PM000V PM100V PM200V PM300V PM300V Delivery straight inte | VES030 . ernally insulated, with | VES040 • circular flango | VES130 · | • | VES230 • | VES240 | VES330 • | VES340 |
| PM300V Delivery plenum intel CCCESSORY LPM000V LPM100V LPM200V LPM300V Delivery straight intel CCCESSORY | VESO30 • ernally insulated, with VESO30 | VES040 • circular flango VES040 | VES130 • | | VES230 | VES240 | VES330 | VES340 |
| PM300V Delivery plenum interaccesory RPM000V RPM100V RPM300V RPM300V Delivery straight interaccesory RDMC000V | VES030 . ernally insulated, with | VES040 • circular flango | • VES130 • VES130 | VES140 | VES230 • | VES240 | VES330 • | VES340 |
| PM300V Delivery plenum interaccessory RPM000V RPM100V RPM300V RPM300V Delivery straight interaccessory RDMC000V RDMC000V | VESO30 • ernally insulated, with VESO30 | VES040 • circular flango VES040 | VES130 · | • | • VES230 • VES230 | VES240 • VES240 | VES330 • | VES340 |
| PM300V Delivery plenum interaccesory RPM000V RPM100V RPM300V RPM300V Delivery straight interaccesory RDMC000V RDMC000V RDMC100V | VESO30 • ernally insulated, with VESO30 | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | VES230 • | VES240 | VES330 • VES330 | VES340 • VES340 |
| M300V Delivery plenum intercessory PM000V PM100V PM200V PM300V Delivery straight intercessory DMC000V DMC100V DMC100V DMC200V | VESO30 • ernally insulated, with VESO30 | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | • VES230 • VES230 | VES240 • VES240 | VES330 • | VES340 |
| M300V Delivery plenum inte ccessory PM000V PM100V PM300V PM300V Delivery straight inte ccessory DMC000V DMC100V DMC200V DMC300V | VESO30 • ernally insulated, with VESO30 • | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | • VES230 • VES230 | VES240 • VES240 | VES330 • VES330 | VES340 • VES340 |
| PM300V Delivery plenum interacesory RPM000V RPM100V RPM300V RPM300V Delivery straight interacesory RDMC000V RDMC100V RDMC200V RDMC300V | VESO30 • ernally insulated, with VESO30 • | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | • VES230 • VES230 | VES240 • VES240 | VES330 • VES330 | VES340 • VES340 |
| PM300V Delivery plenum intel Cccssory PM000V PM100V PM300V PM300V Delivery straight intel Cccssory DMC000V DMC100V DMC100V DMC200V DMC300V Straight delivery cou | VESO30 • ernally insulated, with VESO30 • | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | • VES230 • VES230 | VES240 • VES240 | VES330 • VES330 | VES340 • VES340 |
| Accessory RPM000V RPM100V RPM200V RPM300V | VESO30 • ernally insulated, with VESO30 • | VES040 • circular flango VES040 | • VES130 • VES130 | VES140 | • VES230 • VES230 | VES240 • VES240 | VES330 • VES330 | VES340 • VES340 |

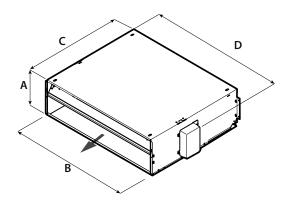
PERFORMANCE SPECIFICATIONS

2-pipe

| | | | VES03 | 0 | | VES04 | 0 | | VES13 | 0 | | VES14 | 0 | 1 | VES23 | 0 | 1 | VES24 | 0 | 1 | VES33 | 0 | | VES340 |) |
|---------------------------------------|-------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|----------|------|------|---------|-------|------|----------|-------|
| | | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 4 | 6 | 1 | 3 | 6 | 1 | 3 | 6 | 1 | 3 | 7 | 1 | 3 | 7 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,82 | 3,37 | 3,69 | 2,37 | 3,57 | 3,92 | 4,40 | 5,83 | 6,29 | 4,52 | 6,09 | 6,58 | 5,35 | 6,50 | 7,16 | 5,80 | 7,14 | 7,91 | 7,81 | 9,34 | 10,51 | 8,31 | 10,02 | 10,95 |
| Water flow rate system side | l/h | 160 | 296 | 323 | 207 | 313 | 343 | 386 | 512 | 552 | 396 | 534 | 577 | 469 | 570 | 628 | 509 | 626 | 694 | 685 | 819 | 921 | 729 | 878 | 960 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 4 | 10 | 12 | 13 | 22 | 26 | 9 | 16 | 18 | 27 | 30 | 37 | 18 | 26 | 32 | 9 | 13 | 16 | 22 | 28 | 32 |
| Heating performance 50 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,09 | 2,03 | 2,22 | 1,42 | 2,15 | 2,36 | 2,65 | 3,52 | 3,79 | 2,72 | 3,67 | 3,96 | 3,22 | 3,92 | 4,31 | 3,49 | 4,30 | 4,77 | 4,71 | 5,63 | 6,33 | 5,01 | 6,04 | 6,60 |
| Water flow rate system side | l/h | 189 | 350 | 383 | 245 | 370 | 406 | 461 | 612 | 660 | 469 | 632 | 682 | 555 | 674 | 743 | 602 | 741 | 820 | 810 | 969 | 1090 | 862 | 1039 | 1136 |
| Pressure drop system side | kPa | 4 | 10 | 13 | 4 | 14 | 17 | 20 | 34 | 39 | 13 | 22 | 25 | 39 | 44 | 54 | 26 | 38 | 48 | 13 | 18 | 22 | 32 | 39 | 45 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,25 | 1,75 | 1,91 | 1,30 | 1,89 | 2,75 | 2,20 | 2,87 | 3,11 | 2,43 | 3,08 | 3,30 | 2,85 | 3,57 | 3,95 | 3,40 | 3,76 | 4,08 | 4,00 | 4,82 | 5,36 | 4,46 | 5,12 | 5,71 |
| Sensible cooling capacity | kW | 0,88 | 1,24 | 1,36 | 0,86 | 1,32 | 1,46 | 1,59 | 2,17 | 2,34 | 1,68 | 2,21 | 2,38 | 2,13 | 2,62 | 2,90 | 2,35 | 2,73 | 3,01 | 2,85 | 3,44 | 3,85 | 3,18 | 3,66 | 4,09 |
| Water flow rate system side | l/h | 215 | 302 | 330 | 224 | 325 | 360 | 379 | 496 | 535 | 419 | 530 | 569 | 491 | 614 | 679 | 584 | 646 | 702 | 689 | 829 | 922 | 768 | 880 | 982 |
| Pressure drop system side | kPa | 11 | 21 | 24 | 15 | 30 | 36 | 30 | 49 | 56 | 17 | 25 | 29 | 57 | 85 | 101 | 40 | 48 | 56 | 18 | 25 | 30 | 32 | 41 | 50 |
| Cooling performance 13 °C / 18 °C (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,57 | 0,80 | 0,88 | 0,33 | 0,51 | 0,78 | 1,00 | 1,32 | 1,42 | 1,11 | 1,40 | 1,52 | 1,30 | 1,64 | 1,93 | 1,57 | 1,74 | 1,93 | 2,03 | 2,30 | 2,58 | 2,05 | 2,41 | 2,68 |
| Sensible cooling capacity | kW | 0,57 | 0,80 | 0,88 | 0,33 | 0,51 | 0,78 | 1,00 | 1,32 | 1,42 | 1,11 | 1,40 | 1,52 | 1,30 | 1,64 | 1,93 | 1,57 | 1,74 | 1,93 | 2,03 | 2,30 | 2,58 | 2,05 | 2,41 | 2,68 |
| Water flow rate system side | l/h | 98 | 138 | 151 | 57 | 88 | 136 | 173 | 228 | 244 | 192 | 242 | 262 | 225 | 283 | 333 | 270 | 300 | 333 | 349 | 397 | 445 | 354 | 416 | 461 |
| Pressure drop system side | kPa | 2 | 4 | 4 | 1 | 2 | 5 | 5 | 9 | 10 | 3 | 4 | 5 | 10 | 15 | 9 | 6 | 7 | 9 | 3 | 4 | 6 | 5 | 6 | 8 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | (| entrifu | gal | G | entrifu | gal | G | entrifu | gal | C | entrifu | gal | Ce | entrifu | gal | Ce | entrifug | gal | Ce | entrifu | gal | (| entrifug | jal |
| Air flow rate | m³/h | 161 | 256 | 285 | 160 | 249 | 277 | 287 | 397 | 434 | 280 | 386 | 420 | 417 | 524 | 590 | 406 | 509 | 570 | 572 | 704 | 805 | 563 | 685 | 775 |
| High static pressure | Pa | 21 | 50 | 61 | 21 | 50 | 61 | 26 | 50 | 60 | 26 | 50 | 60 | 32 | 50 | 64 | 32 | 50 | 63 | 33 | 50 | 66 | 34 | 50 | 64 |
| Sound power level (inlet + radiated) | dB(A) | 44,0 | 52,0 | 54,0 | 44,0 | 52,0 | 54,0 | 47,0 | 53,0 | 55,0 | 47,0 | 53,0 | 55,0 | 49,0 | 54,0 | 57,0 | 49,0 | 54,0 | 57,0 | 38,0 | 55,0 | 58,0 | 38,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 40,0 | 48,0 | 50,0 | 40,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 44,0 | 49,0 | 52,0 | 44,0 | 49,0 | 52,0 | 45,0 | 51,0 | 54,0 | 34,0 | 51,0 | 54,0 |
| Input power | W | 12 | 38 | 59 | - | 38 | 58 | - | 53 | 76 | - | 52 | 75 | - | 57 | 93 | - | 57 | 92 | - | 75 | 104 | - | 74 | 103 |
| Electrical wiring | | V1 | V4 | V6 | ٧1 | ٧4 | V6 | ٧1 | V4 | ٧6 | ٧1 | V4 | V6 | ٧1 | V3 | V6 | ٧1 | V3 | ٧6 | V1 | V3 | ٧7 | V1 | V3 | ٧7 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | - | | | - | | | - | | | - | | | - | | | - | | | - | | | - | |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input current | A | | 0,4 | | | 0,4 | | | 0,4 | | | 0,4 | | | 0,6 | | | 0,6 | | | 0,7 | | | 0,7 | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | 23 | 30V~50 |)Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 | Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 | Hz | 23 | 0V~50 | Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 | Hz |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 50 °C/45 °C
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 13 °C/18 °C;

DIMENSIONS



| | | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|
| Dimensions and weights | | | | | | | | | _ |
| A | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| В | mm | 550 | 550 | 781 | 781 | 1001 | 1001 | 1122 | 1122 |
| C | mm | 584 | 584 | 584 | 584 | 584 | 584 | 584 | 584 |
| D | mm | 576 | 576 | 807 | 807 | 1027 | 1027 | 1148 | 1148 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VES 030-340 I

Fan coil unit for ducted installations



- Horizontal and vertical installation
- Large range of available static pressure
- Heat eschanger developed to optimize the performance sensitive





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, for increased comfort, also in terms of noise, and electrical savings.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

Designed to maintain the set temperature over time, ensuring very low sound levels

Can be installed in any 2 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

- The heat eschanger, reversible during installation, is designed to ensure high heat transfer, ideal for applications in a sensitive environment.
- The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filte

www.aermec.com

Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWAI: External air or water temperature probe.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

VMF Components

VMF-E191: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (MFTAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Valves and additional water coil

BV: Single row hot water heat exchanger.

VCF_X: Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

VCF41 - **42** - **43** - **for main coil:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - **45** - **for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE X: External air shutter with manual control.

 $\textbf{RDA_V:} \ Straight\ intake\ connection\ with\ rectangular\ flange.$

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

GM: Flow grid with adjustable louvers. **MZC:** Plenum with motorised dampers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges. KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Control panels and dedicated accessories

| Model | Ver | 030 | 040 | 130 | 140 | 230 | 240 | 330 | 340 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER503IR (1) | | • | • | • | • | • | • | • | • |
| SA5 (2) | | • | • | • | • | • | • | • | • |
| SIT3 (3) | | • | • | • | • | • | • | • | • |
| SIT5 (4) | | • | • | | • | • | • | • | • |
| SW5 (2) | | • | • | • | • | • | • | • | • |
| SWAI (5) | | • | • | • | • | • | • | • | • |
| TX (1) | | • | • | • | • | | • | • | • |
| WMT21 | | • | • | • | • | • | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
 (2) Probe for AER503IR-TX thermostats, if fitted.
 (3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 (4) Probe for AER503IR-TX thermostats, if fitted.

- (5) Probe for thermostat WMT21.

VMF system

VMF system

| Accessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| VMF-E19I | • | • | • | • | • | • | • | • |
| VMF-E4DX | • | • | • | • | • | • | • | • |
| VMF-E4X | • | • | • | • | • | • | • | • |
| VMF-IO | • | • | • | • | • | • | • | • |
| VMF-LON | • | • | • | • | • | • | • | • |
| VMF-SW | • | • | • | • | • | • | • | • |
| VMF-SW1 | • | | | | | | | |

(Heating only) additional coil

(Heating only) additional coil

| Accessory | VESO30I | VES130I | VES230I | VES330I |
|-----------|---------|---------|---------|---------|
| BV030 | • | | | |
| BV130 | | • | | |
| BV162 | | | | • |
| BV230 | | | • | |

Water valves

Valve Kit for 4 pipe systems with main coil

| Accessory | VESO30I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| VCF3X4L | • | • | • | | | | | |
| VCF3X4LS | | | | • | • | • | • | • |
| VCF3X4R | • | | • | | | | | _ |
| VCF3X4RS | | | | • | • | • | • | • |

3 way valve kit

| | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 3 way valve kit | | | | | | | | |
| Main coil | VCF43-VCF4324 |
| Additional coil "BV" | VCF45-VCF4524 | - | VCF45-VFC4524 | - | VCF45-VCF4524 | - | VCF45-VCF4524 | - |

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections Ø 3/4" $\,$

2 way valve kit

| | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2 way valve kit | | | | | | | | |
| Main coil | VCFD3-VCFD324 |
| Additional coil "BV" | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - | VCFD4-VCFD424 | - |

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4" VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

Combined adjustment and balancing valve cold side

| Accessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| VJP060 | • | • | • | • | | | | |
| VJP060M | • | • | • | • | | | | |
| VJP090 | | | | | • | • | • | • |
| VJP090M | | | | | • | • | | • |
| VJP150 | | | | | | | • | • |
| VJP150M | | | | | | | • | • |

Installation accessories

| Installation accessories | | | | | | | | |
|---|---------------------------|--------------|----------|----------|---------------------------------------|-------------|---------|-----------|
| Accessory | VES030I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| AMP | • | | • | • | • | • | | • |
| | | | | | | | | |
| Condensate drip | | | | | | | | |
| Accessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| GCZ4 | • | • | • | • | • | • | • | • |
| CZ6 | • | | • | | • | | • | • |
| | | | | | | | | |
| ccessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| (9 | • | • | • | • | • | • | • | • |
| CZ4 For vertical installation. CZ6 For horizontal installation. C9 For horizontal installation. | | | | | | | | |
| Condensate recirculation | n device | | | | | | | |
| ccessory | VESO30I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| SC4 | • | • | • | | | • | | |
| SCZ4 | • | • | • | | • | | • | |
| | | | | | | | | |
| Accessories for intal | ke | | | | | | | |
| | | | | | | | | |
| ntake grids | | | | | | | | |
| ccessory | VES040I | VES130I | VES140I | VE | <u> </u> | VES240I | VES330I | VES340I |
| A22 | • | | | | | | | |
| A32 | | • | • | | | | | |
| A42 | | | | | • | • | | |
| A62 | | | | | | | • | • |
| | | | | | | | | |
| ntake grid with filter an | nd fixed louvers | | | | | | | |
| ccessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| AF22 | • | • | | | | | | |
| AF32 | | - | • | | | | | |
| AF42 | | | • | <u> </u> | • | | | |
| | | | | | • | • | | |
| AF62 | | | | | | | • | • |
| xternal air shutter with | manual control | | | | | | | |
| | | VECOAN | VECTOR | VEC4.401 | VECARAL | VEC2401 | VECAZOL | VEC2 401 |
| ccessory | VES030I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| E20X | • | • | | | | | | |
| E30X | | | • | • | | | | |
| E40X | | | | | • | • | | |
| E80X | | | | | | | • | • |
| | | | | | | | | |
| ntake straight with rect | tangular flanges | | | | | | | |
| ccessory | VESO30I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| DA000V | • | | | | | | | |
| DA100V | | | • | • | | | | |
| DA200V | | | | | • | • | | |
| DA300V | | | | | | | | |
| VAJUUV | | | | | | | • | • |
| ntake straight internalle | y insulated, with circula | ar flanaes | | | | | | |
| | | | VEC1201 | VEC140I | VECTOR | VECTANI | VECTOR | VEC 3 401 |
| ccessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| DACOOOV | • | • | | | | | | |
| DAC100V | | | • | • | | | | |
| DAC200V | | | | | • | • | | |
| DAC300V | | | | | | | • | • |
| | | | | | | | | |
| ntake plenum with rect | | | | | | | | |
| ccessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| PA000V | • | • | | | | | | |
| PA100V | | | • | • | | | | |
| PA200V | | | | | • | • | | |
| PA300V | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| 11 NJ 00 V | | | | | | | • | • |
| | ular flanaes | | | | | | | |
| ntake nlenum with circ | aiai iiaiiges | | VES130I | VES140I | VES230I | VES240I | VES330I | VLC 3 401 |
| ntake plenum with circu | VECAZAL | MECUANI | | | | VF\/401 | VF33301 | VES340I |
| ccessory | VES030I | VESO40I | VES 1301 | VE3 1401 | V LJZJUI | VESE 101 | 7233301 | |
| Accessory A000V | VES030I • | VESO40I • | | | VL32301 | 7 L J L 101 | 125501 | |
| ACCESSORY AA000V AA100V | | | • | • | YLJZJVI | YESE IVI | 125550. | |
| ntake plenum with circl Accessory PA100V PA200V PA300V | | | | | VL32301 | • | 725500 | |

Delivery accessories

Outlet grille with adjustable louvers

| Accessory | VES030I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|--|------------------|--------------|--------------|-----------|---------|----------------------|--------------|--------------|
| M22 | • | VE3040I | 4LJ IJUI | V LJ 1401 | ¥L3Z30I | VLJ2 1 UI | AFOOON | VLJJ401 |
| M32 | • | • | • | • | | | | |
| M42 | | | • | • | • | • | | |
| M62 | | | | | • | • | • | • |
| IMOZ | | | | | | | • | <u> </u> |
| Plenum with motor-driven dam | | | | | | | | |
| ccessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| NZC220 | • | • | | | | | | |
| NZC320 | | | • | • | | | | |
| AZC530 | | | | | • | • | | |
| MZC830 | | | | | | | • | • |
| Delivery plenum internally insul | ated, with circเ | lar flanges | | | | | | |
| Accessory | VES030I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| PM000V | • | • | | | | | | |
| M100V | | | • | • | | | | |
| M200V | | | | | • | • | | |
| M300V | | | | | | | | |
| ccessory PM000V | VES030I • | VES040I • | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| RPM100V | • | • | | | | | | |
| PM200V | | | • | • | • | • | | |
| PM300V | | | | | • | • | • | |
| Delivery straight internally insul | ated with circu | ılar flanaes | | | | | <u> </u> | · · |
| ccessory | VESO30I | VESO40I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
| | | | | | | | | VE3340I |
| DMC000V | • | | | | | | 1255501 | VE3340I |
| | • | • | • | | | | | VE3340I |
| DMC100V | • | • | • | | | | 725500 | VE3340I |
| IDMC000V IDMC100V IDMC200V IDMC300V | • | • | • | | | | | VE3340I |
| DMC100V DMC200V DMC300V | • | • | | | • | | | |
| DMC100V DMC200V DMC300V itraight delivery coupling | • VES030I | • VESO40I | • VES130I | | ves1401 | | | |
| DMC100V DMC200V DMC300V Straight delivery coupling | | | | | | • | | • |
| DMC100V DMC200V DMC300V Straight delivery coupling ACCESSORY DM000V | VESO30I | VESO401 | | | | • | | • |
| DMC100V DMC200V DMC300V Straight delivery coupling sccessory DM000V DM100V | VESO30I | VESO401 | VES130I | | VES140I | • | | |
| DMC100V DMC200V DMC300V itraight delivery coupling ccessory DM000V DM100V DM200V | VESO30I | VESO401 | VES130I | | VES140I | • VES2301 | • VES240I | • |
| DMC100V DMC200V DMC300V Straight delivery coupling sccessory DM000V DM100V DM200V DM300V | VESO30I | VESO401 | VES130I | | VES140I | • VES2301 | • VES240I | • VES340I |
| DMC100V DMC200V | VESO30I | VESO401 | VES130I | | VES140I | • VES2301 | • VES240I | • VES3401 |

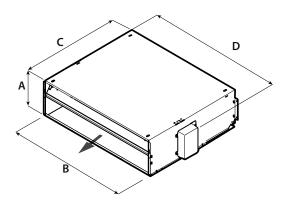
PERFORMANCE SPECIFICATIONS

2-pipe

| | | 1 | VES03 | Ol | 1 | VES04 | Ol | 1 | VES13 |)I | 1 | /ES140 | DI | ١ | /ES23(|)l | ١ | /ES240 |)l | ١ | /ES330 |)l | 1 | /ES340 |)I |
|---------------------------------------|-------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|----------|------|------|----------|-------|------|----------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,82 | 3,37 | 3,69 | 2,37 | 3,57 | 3,92 | 4,40 | 5,83 | 6,29 | 4,52 | 6,09 | 6,58 | 5,35 | 6,50 | 7,16 | 5,80 | 7,14 | 7,91 | 7,81 | 9,34 | 10,51 | 8,31 | 10,02 | 10,95 |
| Water flow rate system side | l/h | 160 | 296 | 323 | 207 | 313 | 343 | 386 | 512 | 552 | 396 | 534 | 577 | 469 | 570 | 628 | 509 | 626 | 694 | 685 | 819 | 921 | 729 | 878 | 960 |
| Pressure drop system side | kPa | 3 | 7 | 9 | 4 | 10 | 12 | 13 | 22 | 26 | 9 | 16 | 18 | 27 | 30 | 37 | 18 | 26 | 32 | 9 | 13 | 16 | 22 | 28 | 32 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,80 | 1,67 | 1,85 | 1,18 | 1,77 | 1,95 | 2,19 | 2,90 | 3,13 | 2,25 | 3,02 | 3,26 | 2,38 | 2,96 | 3,29 | 2,88 | 3,55 | 3,93 | 3,88 | 4,64 | 5,22 | 4,13 | 4,96 | 5,45 |
| Water flow rate system side | l/h | 140 | 291 | 321 | 205 | 308 | 339 | 380 | 504 | 544 | 391 | 525 | 566 | 414 | 514 | 572 | 500 | 616 | 683 | 673 | 806 | 907 | 717 | 865 | 946 |
| Pressure drop system side | kPa | 2 | 7 | 9 | 5 | 11 | 12 | 14 | 24 | 27 | 9 | 16 | 18 | 28 | 41 | 50 | 18 | 26 | 32 | 10 | 13 | 16 | 17 | 24 | 28 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,26 | 1,75 | 1,91 | 1,30 | 1,89 | 2,00 | 2,20 | 2,87 | 3,12 | 2,43 | 3,10 | 3,31 | 2,84 | 3,56 | 3,95 | 3,39 | 3,37 | 4,10 | 3,99 | 4,81 | 5,24 | 4,46 | 5,12 | 5,71 |
| Sensible cooling capacity | kW | 0,89 | 1,24 | 1,35 | 0,86 | 1,32 | 1,45 | 1,59 | 2,17 | 2,34 | 1,68 | 2,20 | 2,38 | 2,12 | 2,61 | 2,89 | 2,34 | 2,73 | 3,02 | 2,84 | 3,44 | 3,86 | 3,18 | 3,66 | 4,09 |
| Water flow rate system side | I/h | 98 | 138 | 151 | 57 | 88 | 136 | 173 | 228 | 244 | 192 | 242 | 262 | 225 | 283 | 309 | 270 | 300 | 333 | 349 | 397 | 445 | 354 | 416 | 461 |
| Pressure drop system side | kPa | 12 | 21 | 25 | 16 | 31 | 36 | 30 | 49 | 57 | 17 | 23 | 29 | 56 | 85 | 102 | 41 | 49 | 57 | 18 | 25 | 31 | 32 | 41 | 50 |
| Cooling performance 13 °C / 18 °C (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,57 | 0,80 | 0,88 | 0,33 | 0,51 | 0,78 | 1,00 | 1,32 | 1,42 | 1,11 | 1,40 | 1,52 | 1,30 | 1,64 | 1,80 | 1,57 | 1,74 | 1,93 | 2,03 | 2,30 | 2,58 | 2,05 | 2,41 | 2,68 |
| Sensible cooling capacity | kW | 0,57 | 0,80 | 0,88 | 0,33 | 0,51 | 0,78 | 1,00 | 1,32 | 1,42 | 1,11 | 1,40 | 1,52 | 1,30 | 1,64 | 1,80 | 1,57 | 1,74 | 1,93 | 2,03 | 2,30 | 2,58 | 2,05 | 2,41 | 2,68 |
| Water flow rate system side | I/h | 98 | 138 | 151 | 57 | 88 | 136 | 173 | 228 | 244 | 192 | 242 | 262 | 225 | 283 | 309 | 270 | 300 | 333 | 349 | 397 | 445 | 354 | 416 | 461 |
| Pressure drop system side | kPa | 2 | 4 | 4 | 1 | 2 | 5 | 5 | 9 | 10 | 3 | 4 | 5 | 10 | 15 | 18 | 6 | 7 | 9 | 3 | 4 | 6 | 5 | 6 | 8 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | (| entrifu | gal | (| entrifu | gal | 0 | entrifu | gal | C | entrifu | gal | C | entrifu | gal | C | entrifug | jal | C | entrifug | gal | C | entrifug | jal |
| Fan motor | type | Asy | ynchror | nous | Asy | /nchror | nous | Asy | /nchror | nous | Asy | nchror | nous | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 3 | | | 3 | |
| Air flow rate | m³/h | 161 | 256 | 285 | 160 | 249 | 277 | 287 | 397 | 434 | 420 | 386 | 420 | 416 | 524 | 590 | 406 | 509 | 570 | 571 | 704 | 805 | 563 | 685 | 776 |
| High static pressure | Pa | 21 | 50 | 61 | 21 | 50 | 61 | 26 | 50 | 60 | 26 | 50 | 60 | 32 | 50 | 64 | 32 | 50 | 63 | 33 | 50 | 66 | 34 | 50 | 64 |
| Sound power level (inlet + radiated) | dB(A) | 44,0 | 52,0 | 54,0 | 44,0 | 52,0 | 54,0 | 47,0 | 53,0 | 55,0 | 47,0 | 53,0 | 55,0 | 49,0 | 54,0 | 57,0 | 49,0 | 54,0 | 57,0 | 38,0 | 55,0 | 58,0 | 38,0 | 55,0 | 58,0 |
| Sound power level (outlet) | dB(A) | 40,0 | 48,0 | 50,0 | 40,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 42,0 | 48,0 | 50,0 | 44,0 | 49,0 | 52,0 | 44,0 | 49,0 | 52,0 | 45,0 | 51,0 | 54,0 | 34,0 | 51,0 | 54,0 |
| Input power | W | 12 | 29 | 36 | 12 | 29 | 36 | 17 | 33 | 45 | 17 | 33 | 45 | 24 | 40 | 53 | 24 | 40 | 53 | 35 | 60 | 86 | 35 | 60 | 86 |
| Signal 0-10V | % | 54 | 80 | 90 | 54 | 80 | 90 | 58 | 82 | 90 | 58 | 82 | 90 | 62 | 80 | 90 | 62 | 80 | 90 | 62 | 78 | 90 | 66 | 78 | 90 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | 23 | 80V~50 |)Hz | 23 | 0V~50 | Hz | 23 | 0V~50 | Hz | 23 | 0V~50 | Hz | 23 | 0V~50 | Hz |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 13 °C/18 °C;

DIMENSIONS



| | | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|------------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | | | | |
| A | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| В | mm | 550 | 550 | 781 | 781 | 1001 | 1001 | 1122 | 1122 |
| C | mm | 584 | 584 | 584 | 584 | 584 | 584 | 584 | 584 |
| D | mm | 576 | 576 | 807 | 807 | 1027 | 1027 | 1148 | 1148 |
| Net weight | kg | 22,00 | 24,00 | 25,00 | 33,00 | 33,00 | 34,00 | 35,00 | 34,00 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VES 5300-7400-I

Fan coil unit for ducted installations



- Horizontal and vertical installation
- Large range of available static pressure
- Heat eschanger developed to optimize the performance sensitive
- · Height 217 mm





DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying.

Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, for increased comfort, also in terms of noise, and electrical savings.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

- Internally insulated structure with class 1 fire resistance.
- Casing protection rating: IP20

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

Air filter

Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

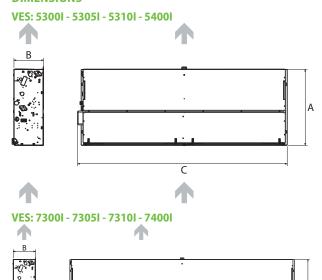
PERFORMANCE SPECIFICATIONS

2-pipe

| | | VESS300I VESS400I VES7300I | | | | VES7400I | | | | | | | |
|---|---|---|--|---|--|---|--|--|--|--|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Heating was former to 70 °C / C0 °C | | L | М | Н | L | M | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C Heating capacity | kW | 9,91 | 11,27 | 12,18 | 10,29 | 11,92 | 12,98 | 16,78 | 21,67 | 23,50 | 17,88 | 23,30 | 25,37 |
| Water flow rate system side | I/h | 869 | 989 | 1069 | 902 | 1046 | 1139 | 1472 | 1901 | 2061 | 1569 | 2044 | 2225 |
| Pressure drop system side | kPa | 22 | 26 | 32 | 11 | 14 | 16 | 23 | 40 | 47 | 18 | 28 | 33 |
| Heating performance 45 °C / 40 °C | | | | | | | | | | | | | |
| Heating capacity | kW | 4,93 | 5,60 | 6,06 | 5,11 | 5,92 | 6,45 | 8,34 | 10,78 | 11,69 | 8,89 | 11,59 | 12,62 |
| Water flow rate system side | l/h | 855 | 972 | 1051 | 888 | 1028 | 1120 | 1448 | 1870 | 2028 | 1543 | 2011 | 2187 |
| Pressure drop system side | kPa | 22 | 28 | 32 | 10 | 14 | 16 | 25 | 40 | 46 | 17 | 28 | 33 |
| Cooling performance 7 °C / 12 °C | | | | | | | | | | | | | |
| Cooling capacity | kW | 4,44 | 5,18 | 5,62 | 4,56 | 5,35 | 5,85 | 8,17 | 9,94 | 10,63 | 8,00 | 10,80 | 11,80 |
| Sensible cooling capacity | kW | 3,02 | 3,51 | 3,92 | 3,12 | 3,59 | 3,91 | 5,35 | 6,75 | 7,29 | 5,48 | 7,26 | 7,90 |
| Water flow rate system side Pressure drop system side | I/h kPa | 764 23 | 891 31 | 967 36 | 784 12 | 920 17 | 1006 19 | 1405 31 | 1710 44 | 1828 50 | 1376 | 1858 34 | 2030 39 |
| Cooling performance 13 °C / 18 °C | KPd | 23 | 31 | 30 | IZ. | 1/ | 19 | 31 | 44 | 30 | 20 | 34 | 39 |
| Cooling capacity | kW | 2,03 | 2,37 | 2,57 | 2,08 | 2,45 | 2,68 | 3,74 | 4,55 | 4,87 | 3,68 | 4,97 | 5,41 |
| Sensible cooling capacity | kW | 2,03 | 2,37 | 2,57 | 2,08 | 2,45 | 2,68 | 3,74 | 4,55 | 4,87 | 3,68 | 4,97 | 5,41 |
| Water flow rate system side | I/h | 350 | 408 | 443 | 359 | 421 | 461 | 644 | 783 | 839 | 634 | 856 | 931 |
| Pressure drop system side | kPa | 6 | 8 | 9 | 3 | 4 | 5 | 8 | 11 | 12 | 5 | 8 | 10 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | Centrifugal | | | Centrifugal | | | Centrifugal | | | Centrifugal | |
| Fan motor | type | | Inverter | | | Inverter | | | Inverter | | | Inverter | |
| Number | no. | | 4 | | | 4 | | | 6 | | | 6 | |
| Air flow rate | m³/h | 640 | 750 | 825 | 640 | 750 | 825 | 1138 | 1500 | 1650 | 1138 | 1500 | 1650 |
| High static pressure | Pa | 37 | 50 | 60 | 36 | 50 | 60 | 29 | 50 | 60 | 29 | 50 | 60 |
| Sound power level (inlet + radiated) Sound power level (outlet) | dB(A) dB(A) | 52,0 48,0 | 56,0 52,0 | 58,0 54,0 | 52,0 48,0 | 56,0 52,0 | 58,0 54,0 | 40,0 36,0 | 60,0 56,0 | 62,0 58,0 | 40,0 36,0 | 60,0 56,0 | 62,0 58,0 |
| Input power | W W | 38 | 53 | 72 | 38 | 53 | 72 | 59 | 120 | 153 | 59 | 120 | 153 |
| Signal 0-10V | % | 70 | 82 | 90 | 70 | 82 | 90 | 62 | 82 | 90 | 62 | 82 | 90 |
| Diametre hydraulic fittings | 70 | 70 | 02 | - 70 | 70 | 02 | - 70 | 02 | 02 | - 70 | 02 | 02 | - 70 |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | | | 230V~50Hz | |
| 4-pipe | | | | | | | | | | | | | |
| - F-F- | | | VES53051 | | | VES5310I | | 1 | VES73051 | | | VES7310I | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | - 14 | |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | L | M | Н |
| Heating capacity | | | | | | | | | | | | M | |
| | kW | 3,55 | 3,91 | 4,15 | 5,95 | 6,64 | 7,07 | 4,06 | 4,94 | 5,24 | 7,54 | 9,01 | 8,56 |
| Water flow rate system side | l/h | 311 | 343 | 364 | 522 | 582 | 621 | 356 | 434 | 460 | 7,54 662 | 9,01 790 | 8,56 838 |
| Pressure drop system side | | | | | _ | | | | | | 7,54 | 9,01 | 8,56 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) | I/h kPa | 311 6 | 343 8 | 364 9 | 522 8 | 582 10 | 621 11 | 356 6 | 434 9 | 460 10 | 7,54 662 11 | 9,01 790 14 | 8,56 838 17 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity | I/h kPa kW | 311 6 4,44 | 343 8 5,18 | 364 9 5,62 | 522 8 4,44 | 582 10 5,18 | 621 11 5,62 | 356 6 8,17 | 9 9,94 | 460 10 10,63 | 7,54 662 11 8,17 | 9,01 790 14 | 8,56 838 17 |
| Pressure drop system side Cooling performance 7 °C/12 °C(2) Cooling capacity Sensible cooling capacity | I/h kPa kW kW | 311 6 4,44 3,02 | 343 8 5,18 3,51 | 364 9 5,62 3,92 | 522 8 4,44 3,02 | 582 10 5,18 3,51 | 621 11 5,62 3,92 | 356 6 8,17 5,35 | 9,94 6,75 | 460 10 10,63 7,29 | 7,54 662 11 8,17 5,35 | 9,01 790 14 9,94 6,75 | 8,56 838 17 10,63 7,29 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW kW | 311 6 4,44 3,02 764 | 343 8 5,18 3,51 891 | 364 9 5,62 3,92 967 | 522 8 4,44 3,02 764 | 582 10 5,18 3,51 891 | 621 11 5,62 3,92 967 | 356 6 8,17 5,35 1405 | 9,94 6,75 1710 | 460 10 10,63 7,29 1828 | 7,54 662 11 8,17 5,35 1405 | 9,01 790 14 9,94 6,75 1710 | 8,56 838 17 10,63 7,29 1828 |
| Pressure drop system side Cooling performance 7 °C/12 °C(2) Cooling capacity Sensible cooling capacity | I/h kPa kW kW | 311 6 4,44 3,02 | 343 8 5,18 3,51 | 364 9 5,62 3,92 | 522 8 4,44 3,02 | 582 10 5,18 3,51 | 621 11 5,62 3,92 | 356 6 8,17 5,35 | 9,94 6,75 | 460 10 10,63 7,29 | 7,54 662 11 8,17 5,35 | 9,01 790 14 9,94 6,75 | 8,56 838 17 10,63 7,29 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side | I/h kPa kW kW | 311 6 4,44 3,02 764 | 343 8 5,18 3,51 891 | 364 9 5,62 3,92 967 | 522 8 4,44 3,02 764 | 582 10 5,18 3,51 891 | 621 11 5,62 3,92 967 | 356 6 8,17 5,35 1405 | 9,94 6,75 1710 | 460 10 10,63 7,29 1828 | 7,54 662 11 8,17 5,35 1405 | 9,01 790 14 9,94 6,75 1710 | 8,56 838 17 10,63 7,29 1828 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) | I/h kPa kW kW I/h kPa | 311 6 4,44 3,02 764 23 | 343 8 5,18 3,51 891 31 | 364 9 5,62 3,92 967 36 | 522 8 4,44 3,02 764 23 | 582 10 5,18 3,51 891 31 | 621 11 5,62 3,92 967 36 | 356 6 8,17 5,35 1405 31 | 9 9,94 6,75 1710 44 | 460 10 10,63 7,29 1828 50 | 7,54 662 11 8,17 5,35 1405 31 | 9,01 790 14 9,94 6,75 1710 44 | 8,56 838 17 10,63 7,29 1828 50 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity | I/h kPa kW kW I/h kPa | 311 6 4,44 3,02 764 23 | 343 8 5,18 3,51 891 31 | 364 9 5,62 3,92 967 36 2,57 2,57 443 | 522 8 4,44 3,02 764 23 | 582 10 5,18 3,51 891 31 | 621 11 5,62 3,92 967 36 | 356 6 8,17 5,35 1405 31 | 9 9,94 6,75 1710 44 4,55 | 460 10 10,63 7,29 1828 50 4,87 | 7,54 662 11 8,17 5,35 1405 31 | 9,01 790 14 9,94 6,75 1710 44 | 8,56 838 17 10,63 7,29 1828 50 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity | I/h kPa kW kW I/h kPa kW kW | 311 6 4,44 3,02 764 23 2,03 2,03 | 343 8 5,18 3,51 891 31 2,37 2,37 | 364 9 5,62 3,92 967 36 2,57 2,57 | 522 8 4,44 3,02 764 23 2,03 2,03 | 582 10 5,18 3,51 891 31 2,37 2,37 | 621 11 5,62 3,92 967 36 2,57 2,57 | 356 6 8,17 5,35 1405 31 3,74 3,74 | 434 9 9,94 6,75 1710 44 4,55 4,55 | 460 10 10,63 7,29 1828 50 4,87 4,87 | 7,54 662 11 8,17 5,35 1405 31 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan | I/h kPa kW kW I/h kPa kW kW L/h kPa | 311 6 4,44 3,02 764 23 2,03 2,03 350 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 | 364 9 5,62 3,92 967 36 2,57 2,57 443 | 522 8 4,44 3,02 764 23 2,03 2,03 350 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 | 5,62 3,92 967 36 2,57 2,57 443 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 | 9,94 6,75 1710 44 4,55 4,55 783 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | kW kW l/h kPa kW kW l/h kPa kW kW l/h kPa | 311 6 4,44 3,02 764 23 2,03 2,03 350 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 | 364 9 5,62 3,92 967 36 2,57 2,57 443 | 522 8 4,44 3,02 764 23 2,03 2,03 350 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 | 5,62 3,92 967 36 2,57 2,57 443 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 | 9,94 6,75 1710 44 4,55 4,55 783 11 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | I/h kPa kW kW I/h kPa kW type type | 311 6 4,44 3,02 764 23 2,03 2,03 350 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter | 364 9 5,62 3,92 967 36 2,57 2,57 443 | 522 8 4,44 3,02 764 23 2,03 2,03 350 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 | 5,62 3,92 967 36 2,57 2,57 443 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 | 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter | 460 10 10,63 7,29 1828 50 4,87 4,87 839 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | I/h kPa kW kW I/h kPa kW kW I/h kPa type type no. | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW kW l/h kPa kW kW l/h kPa type type no. m²/h | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure | kW kW l/h kPa kW l/h kPa type type no. m²/h Pa | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Sound power level (inlet + radiated) | kW kW l/h kPa kW kW l/h kPa type type no. m²/h Pa dB(A) | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C/12 °C(2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C/18 °C(3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) | kW kW l/h kPa kW kW l/h kPa type type no. m²/h Pa dB(A) dB(A) | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan | kW kW l/h kPa kW kW l/h kPa type type no. m²/h Pa dB(A) | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power | kW kW l/h kPa kW l/h kPa kW l/h kPa dB(A) dB(A) W | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 53 82 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 640 37 52,0 48,0 38 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 1650 60 62,0 58,0 153 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Signal 0-10V | kW kW l/h kPa kW l/h kPa kW l/h kPa dB(A) dB(A) W | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 53 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 640 37 52,0 48,0 38 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 1650 60 62,0 58,0 153 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |
| Pressure drop system side Cooling performance 7 °C / 12 °C (2) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Cooling performance 13 °C / 18 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Fan Type Fan motor Number Air flow rate High static pressure Sound power level (inlet + radiated) Sound power level (outlet) Input power Signal 0-10V Diametre hydraulic fittings | kW kW I/h kPa kW kW I/h kPa type type no. m²/h Pa dB(A) dB(A) W % | 311 6 4,44 3,02 764 23 2,03 2,03 350 6 | 343 8 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 53 82 | 364 9 5,62 3,92 967 36 2,57 2,57 443 9 | 522 8 4,44 3,02 764 23 2,03 2,03 350 6 640 37 52,0 48,0 38 | 582 10 5,18 3,51 891 31 2,37 2,37 408 8 Centrifugal Inverter 4 750 50 56,0 52,0 53 82 | 621 11 5,62 3,92 967 36 2,57 2,57 443 9 | 356 6 8,17 5,35 1405 31 3,74 3,74 644 8 | 434 9 9,94 6,75 1710 44 4,55 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 82 | 460 10 10,63 7,29 1828 50 4,87 4,87 839 12 1650 60 62,0 58,0 153 | 7,54 662 11 8,17 5,35 1405 31 3,74 3,74 644 8 | 9,01 790 14 9,94 6,75 1710 44 4,55 783 11 Centrifugal Inverter 6 1500 50 60,0 56,0 120 82 | 8,56 838 17 10,63 7,29 1828 50 4,87 4,87 839 12 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C (2) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 13 °C/18 °C;

DIMENSIONS



| | | VES5300I | VES5400I | VES7300I | VES7400I |
|------------------------|----|----------|----------|----------|----------|
| Dimensions and weights | | | | | |
| A | mm | 558 | 558 | 558 | 558 |
| В | mm | 217 | 217 | 217 | 217 |
| C | mm | 1539 | 1539 | 2222 | 2222 |
| Net weight | kg | 46,00 | 47,00 | 65,00 | 68,00 |
| | | VES53051 | VES5310I | VES7305I | VES7310I |
| Dimensions and weights | | | | | |
| A | mm | 558 | 558 | 558 | 558 |
| В | mm | 217 | 217 | 217 | 217 |
| C | mm | 1539 | 1539 | 2222 | 2222 |
| Net weight | kg | 47,00 | 47,00 | 68,00 | 68,00 |

Aermec si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto con eventuale modifica dei relativi dati tecnici.

Aermec S.p.A.Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com

















MZC

Plenum with motor-driven dampers



- Multi-zone plenum for controlling air capacity
- Available for channelles on/off and inverter fan coils



DESCRIPTION

The plenum with motor-driven dampers is designed for residential and tertiary applications. It combines optimal ambient comfort with assured energy savings.

Modern plant increasingly require overall air conditioning using channelled systems. Thanks to the electronic control of the dampers, the MZC accessory regulates the room's comfort by adjusting the air flow to meet the actual requirements.

MZC is designed for use in combination with all fan coils with asynchronous or brushless motors and is pre-set to distribute exchange air.

FEATURES

Structure

- Galvanized sheet metal structure, insulated with self-extinguishing material.
- From 2 to 6 delivery outlets, depending on the model. Each outlet is fitted with a motorised damper, with the possibility - if required by the system - to add an MZCSM accessory outlet (possibility not available for all models - see the accessory compatibility table)
- Fresh air injection flange, supplied as standard, for connecting the MZC plenum to a heat recovery unit.
- Pre-setting for the installation of an additional air probe (accessory MZCSA) to control modulating or pressure-independent valves.
- Possibility to install the plenum even on the fan coil intake, using a flange (accessory MZCA)
- Reversible electrical box (right/left)
- Water probe supplied as standard, for the fan coil.

Regulation

- MZC is equipped with a zone thermostat VMHI to define the required temperature setting.
- The status of the dampers (open/closed) is adjusted on reaching the temperature set in each room.
- Management of up to 6 motorized dampers.
- Flow control for each damper (the maximum and minimum damper opening can be set for each outlet).

- Possibility to associate the control of several dampers with the request from the same zone thermostat (VMHI or WT10).
- For installations in which the dampers and room thermostats are uniquely associated, the dampers can be modulated in relation to the room thermostat requirements.
- "Suction plenum" function enabling
- MZC can control the valves that may be installed on the fan coil associated with it (On/Off, modulating or pressure-independent types), for 2- or 4-pipe systems
- Possibility to set the control unit parameters via the supervision serial port.

ACCESSORIES

Control panels

WR10: Two-channel wireless receiver for WT10.

WT10: Wireless thermostat.



n°1 as standard

VMF Components

VMF-VOC: Air quality detection accessory.

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Installation accessories

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

MZCBC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with a brushless motor.

MZCSM: Single module with motorized damper.

MZCA: Adapter flange for installing the Plenum even under fan coil suction.

MZCSA: Air probe for controlling modulating or pressure independent valves.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Accessory | MZC220 | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
|-----------|--------|--------|--------|--------|---------|---------|
| WR10 | • | • | • | • | • | • |
| WT10 | • | | • | | • | • |

VMF system

| Accessory | MZC220 | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
|-----------|--------|--------|--------|--------|---------|---------|
| VMF-VOC | • | • | • | • | • | • |
| VMHI | | | • | • | • | • |

Installation accessories

Relay interface board

| Accessory | | | MZC | 7050 | | |
|-----------|--------|--------|--------|--------|---------|---------|
| MZCACV | | | | • | | |
| Accessory | MZC220 | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
| MZCAC | | | • | • | | • |

Compulsory electrical plant

| Accessory | MZC220 | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
|-----------|--------|--------|--------|--------|---------|---------|
| MZCBC | • | • | • | • | • | • |

Single module with damper

| Accessory | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
|-----------|--------|--------|--------|---------|---------|
| MZCSM | • | • | • | • | • |

Adaptation flange

| Accessory | MZC220 | MZC320 | MZC530 | MZC830 |
|-----------|--------|--------|--------|--------|
| MZCA2 | • | | | |
| MZCA3 | | • | | |
| MZCA5 | | | • | |
| MZCA8 | | | | • |

Air temperature probe

| Accessory | MZC220 | MZC320 | MZC530 | MZC830 | MZC5040 | MZC7050 |
|-----------|--------|--------|--------|--------|---------|---------|
| MZCSA | • | • | • | • | • | • |

COMPATIBILITY OF MZC PLENUMS WITH AERMEC FAN COILS

Plenum with motorised dampers - FCZ - PO

| Model | Ver | 100 | 101 | 102 | 150 | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 |
|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| MZC220 | PO,POR | | | | | • | • | • | • | | | | | | | | | | | | |
| MZC320 | PO,POR | | | | | | | | | | • | • | • | | | | | | | | |
| MZC530 | PO,POR | | | | | | | | | | | | | • | • | • | • | • | • | • | • |
| Model | Ver | 600 | 601 | 602 | 2 6 | 50 | 700 | 701 | 702 | 750 | 8 | 00 | 801 | 802 | 850 | 900 | 90 | 1 9 | 950 | 1000 | 1001 |
| MZC830 | PO,POR | • | • | • | | | • | • | • | • | | • | | • | • | • | • | | | | |

Plenum with motorised dampers - FCZI - P

| Model | Ver | 200 | 201 | 202 | 250 | 300 | 301 | 302 | 350 | 400 | 401 | 402 | 450 | 500 | 501 | 502 | 550 | 700 | 701 | 702 | 750 | 900 | 901 | 950 |
|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MZC220 | P,PR | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| MZC320 | P,PR | | | | | • | • | • | • | | | | | | | | | | | | | | | |
| MZC530 | P,PR | | | | | | | | | • | • | • | | | • | • | • | | | | | | | |
| MZC830 | P,PR | | | | | | | | | | | | | | | | | | | • | | | • | • |

Plenum with motorised dampers - VED 030-340

| Accessory | VED030 | VED040 | VED130 | VED140 | VED230 | VED240 | VED330 | VED340 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MZC220 | • | • | | | | | | |
| MZC320 | | | • | • | | | | |
| MZC530 | | | | | • | • | | _ |
| MZC830 | | | | | | | • | • |

Plenum with motorised dampers - VED 430-741

| Accessory | VED430 | VED440 | VED530 | VED540 | VED630 | VED640 | VED730 | VED740 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MZC5040 | • | • | • | • | | | | |
| MZC7050 | | | | | • | • | • | • |
| Accessory | VED432 | VED441 | VED532 | VED541 | VED632 | VED641 | VED732 | VED741 |
| MZC5040 | • | | • | • | | | | |
| MZC7050 | | | | | | | | |

Plenum with motorised dampers - VED 0301-3401

| Accessory | VED030I | VED040I | VED130I | VED140I | VED230I | VED240I | VED330I | VED340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| MZC220 | • | • | | | | | | |
| MZC320 | | | • | • | | | | |
| MZC530 | | | | | • | • | | _ |
| MZC830 | | | | | | | • | • |

Plenum with motorised dampers - VED 5301-7411

| Accessory | VED530I | VED540I | VED730I | VED740I |
|----------------------|---------|--------------|---------|---------|
| MZC5040 | • | • | | |
| MZC7050 | | | • | • |
| | | | | |
| Accessory | VED532I | VED541I | VED732I | VED7411 |
| Accessory MZC5040 | VED532I | VED541I • | VED732I | VED741I |

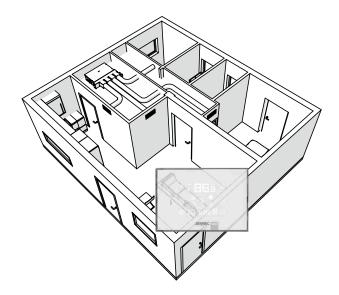
${\it Plenum\ with\ motor-driven\ dampers-VES\ 030-340}$

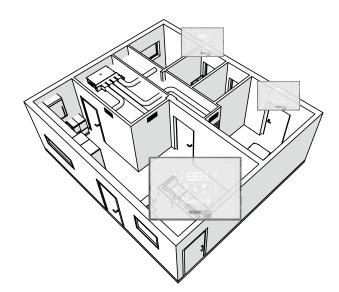
| Accessory | VES030 | VES040 | VES130 | VES140 | VES230 | VES240 | VES330 | VES340 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MZC220 | • | • | | | | | | |
| MZC320 | | | • | • | | | | |
| MZC530 | | | | | • | • | | |
| MZC830 | | | | | | | • | • |

Plenum with motor-driven dampers - VES 0301-3401

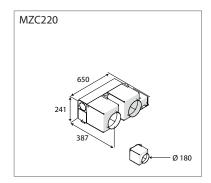
| Accessory | VES030I | VES040I | VES130I | VES140I | VES230I | VES240I | VES330I | VES340I |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| MZC220 | • | • | | | | | | |
| MZC320 | | | • | • | | | | |
| MZC530 | | | | | • | • | | |
| MZC830 | | | | | | | • | • |

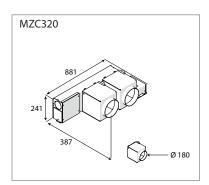
SYSTEM SOLUTIONS

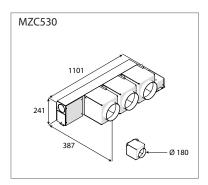


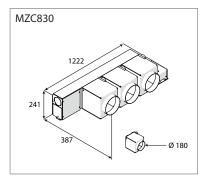


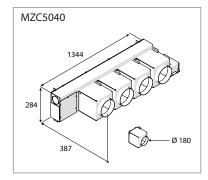
DIMENSIONS

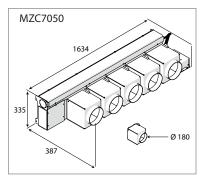


























VEC

Coanda-effect fan coil for cassette installation



- Very quiet
- Total comfort in every season





DESCRIPTION

Thanks to a special air intake and flow grid, these units allow a coanda-effect air flow to be generated, parallel to the ceiling, creating optimal circulation inside the room to be air-conditioned.

They are suitable to be installed inside a suspended ceiling.

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

In addition to the traditional three-speed asynchronous motor for the "VECs", every unit can be supplied with a "VEC_I" Brushless-type inverter motor controlled by an inverter board.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. Units are available with a standard coil (20-50) and a larger coil (24-54). Only units with the standard coil can be combined with an additional electric or water coil with 1 row, both available as an accessory.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Fire resistance class 1 air filter.

ACCESSORY COMPULSORY

VEC_GL: Air intake and flow grid with adjustable Coanda-effect vents (white M9016 = lacquered white similar to Ral 9016).

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp),

with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VMF Components

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Common accessories

BV: Single row hot water heat exchanger.

RX: Armoured electric coil with safety thermostat.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VCF41 - 42 - 43 - for main coil: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

DSC: Condensate drainage device.

BC: Condensate drip.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

PCR: Galvanised plate protection for the controls and the electrical element.

ACCESSORIES COMPATIBILITY

Accessories mandatory

Intake grid and distribution of the air

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-------------|-----|----|----|----|----|----|----|----|----|
| VEC20GL (1) | | • | • | | | | | | |
| VEC30GL (1) | | | | • | • | | | | |
| VEC40GL (1) | | | | | | • | • | • | • |

(1) Mandatory accessory.

Control panels and dedicated accessories

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|--------------|-----|----|----|----|----|----|----|----|----|
| AER503IR (1) | | • | • | • | • | • | • | | • |
| FMT10 | | • | • | • | • | • | • | • | • |
| PR0503 | | • | • | • | • | • | • | • | • |
| SA5 (2) | | • | • | • | • | • | • | • | • |
| SIT3 (3) | | • | • | • | • | • | • | • | • |
| SIT5 (4) | | • | • | • | • | • | • | • | • |
| SW3 (2) | | • | • | • | • | • | • | • | • |
| SW5 (2) | | • | • | • | • | • | • | • | • |
| TX (1) | | • | • | • | • | • | • | • | • |
| WMT05 (1) | | • | • | • | • | • | • | • | • |
| WMT06 (1) | | • | • | • | • | • | • | • | • |
| WMT10 (1) | | • | • | | | • | • | • | • |

⁽¹⁾ Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF Components

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-------------|-----|----|----|----|----|----|----|----|----|
| VMF-E19 (1) | | • | • | • | • | • | • | • | • |
| VMF-E3 | | • | • | • | • | • | • | • | • |
| VMF-E4X | | • | • | • | • | • | • | • | • |
| VMF-IR | | • | • | • | • | • | • | • | • |
| VMF-SW | | • | • | • | • | • | • | • | • |
| VMF-SW1 | | | • | | • | | | • | • |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Common accessories

Electric coil

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|----------|-----|----|----|----|----|----|----|----|----|
| RX22 (1) | | • | • | | | | | | |
| RX32 (1) | | | | | • | | | | |
| RX42 (1) | | | | | | • | • | | |
| RX52 (1) | | | | | | | | | • |

⁽¹⁾ It requires a thermostat with heater management and the units without a housing also require the PCR1 or PCR2 accessory, depending on the unit. The heater is not available for sizes with a larger main battery.

Protection for controls and electric resistance

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-------|-----|----|----|----|----|----|----|----|----|
| PCR1V | | | • | • | • | | | | • |

⁽²⁾ Probe for AER503IR-TX thermostats, if fitted.

⁽³⁾ Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere. (4) Probe for AERSO3IR-TX thermostats, if fitted.

Water coil with 1 row

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-----------|-----|----|----|----|----|----|----|----|----|
| BV122 (1) | | • | | | | | | | |
| BV132 (1) | | | | • | | | | | |
| BV142 (1) | | | | | | • | | | |

(1) Not available for sizes with oversized main coil.

3-way valve kit - main coil or accessory BV coil

| | VEC20 | VEC24 | VEC30 | VEC34 | VEC40 | VEC44 | VEC50 | VEC54 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Main coil | VCF41 - VCF4124 | VCF42 - VCF4224 | VCF41 - VCF4124 | VCF42 - VCF4224 |
| Additional coil "BV" | VCF44 - VCF4424 | - |

2-way valve kit - main coil or accessory BV coil

| | VEC20 | VEC24 | VEC30 | VEC34 | VEC40 | VEC44 | VEC50 | VEC54 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Main coil | VCFD1 - VCFD124 | VCFD2 - VCFD224 | VCFD1 - VCFD124 | VCFD2 - VCFD224 |
| Additional coil "BV" | VCFD4 - VCFD424 | - |

Valves ending with 24 ex. VCFD124, are 24V.

Condensate drip

| Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| | BC5 (1) |

(1) For horizontal installation.

Condensate drainage

| Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-----|------|------|------|------|------|------|------|------|
| | DSC4 |

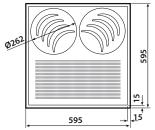
PERFORMANCE SPECIFICATIONS VEC

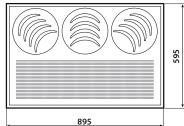
2-pipe

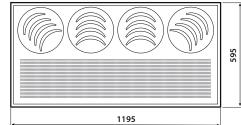
| | VEC20 VEC24 VEC30 VEC34 VEC40 VEC44 VEC50 | | | | | | | | |) | | VEC54 | , | | | | | | | | | | | |
|---------------------------------------|---|------|------|------|------|------|------|------|------|------|-------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity kW | 1,87 | 2,54 | 3,10 | 2,07 | 2,50 | 3,42 | 3,03 | 3,64 | 4,31 | 4,31 | 53,18 | 6,14 | 4,21 | 5,21 | 6,29 | 5,41 | 6,68 | 8,07 | 4,76 | 6,34 | 7,16 | 6,06 | 8,08 | 9,18 |
| Water flow rate system side I/h | 164 | 223 | 272 | 181 | 219 | 300 | 266 | 319 | 378 | 378 | 454 | 538 | 369 | 457 | 551 | 474 | 586 | 708 | 417 | 556 | 628 | 532 | 709 | 805 |
| Pressure drop system side kPa | 2 | 4 | 6 | 1 | 2 | 3 | 9 | 13 | 17 | 5 | 7 | 9 | 6 | 9 | 12 | 9 | 14 | 19 | 7 | 11 | 14 | 9 | 15 | 19 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity kW | 0,95 | 1,26 | 1,54 | 1,20 | 1,40 | 1,70 | 1,50 | 1,81 | 2,14 | 2,15 | 2,57 | 3,05 | 2,09 | 2,59 | 3,12 | 2,69 | 3,30 | 4,01 | 2,37 | 3,15 | 3,56 | 3,02 | 4,02 | 4,54 |
| Water flow rate system side I/h | 163 | 217 | 265 | 206 | 241 | 292 | 258 | 311 | 368 | 370 | 442 | 525 | 359 | 445 | 537 | 463 | 568 | 690 | 408 | 542 | 612 | 519 | 691 | 781 |
| Pressure drop system side kPa | 3 | 5 | 7 | 2 | 3 | 4 | 9 | 13 | 17 | 5 | 7 | 9 | 6 | 9 | 13 | 10 | 14 | 20 | 7 | 12 | 14 | 17 | 15 | 19 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity kW | 0,80 | 1,07 | 1,31 | 0,88 | 1,21 | 1,52 | 1,35 | 1,61 | 1,91 | 1,79 | 2,14 | 2,47 | 1,99 | 2,47 | 2,99 | 2,55 | 3,34 | 3,91 | 2,35 | 3,17 | 3,61 | 3,00 | 4,00 | 4,28 |
| Sensible cooling capacity kW | 0,64 | 0,87 | 1,07 | 0,67 | 0,90 | 1,14 | 1,03 | 1,25 | 1,49 | 1,26 | 1,51 | 1,78 | 1,58 | 1,98 | 2,41 | 1,91 | 2,42 | 2,74 | 1,68 | 2,27 | 2,59 | 2,09 | 2,83 | 3,04 |
| Water flow rate system side I/h | 138 | 184 | 225 | 151 | 208 | 261 | 232 | 277 | 329 | 308 | 368 | 425 | 342 | 425 | 514 | 439 | 574 | 673 | 404 | 545 | 621 | 516 | 688 | 736 |
| Pressure drop system side kPa | 3 | 4 | 6 | 1 | 2 | 3 | 6 | 11 | 13 | 5 | 6 | 8 | 6 | 9 | 12 | 11 | 17 | 22 | 7 | 12 | 15 | 17 | 27 | 30 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | |
| Type type | | | | | | | | | | | | Centri | fugal | | | | | | | | | | | |
| Fan motor type | | | | | | | | | | | | Asynch | ronous | | | | | | | | | | | |
| Number no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate m ³ /h | 130 | 194 | 247 | 130 | 167 | 247 | 241 | 309 | 383 | 241 | 309 | 383 | 306 | 406 | 511 | 306 | 406 | 511 | 371 | 529 | 613 | 371 | 529 | 613 |
| Input power W | 19 | 22 | 25 | 19 | 22 | 25 | 25 | 33 | 44 | 25 | 33 | 44 | 30 | 43 | 57 | 30 | 43 | 57 | 34 | 46 | 67 | 34 | 46 | 67 |
| Electrical wiring | V1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | ٧1 | V2 | V3 | V1 | V2 | V3 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level dB(A) | 35,0 | 42,0 | 48,0 | 35,0 | 42,0 | 48,0 | 37,0 | 43,0 | 49,0 | 37,0 | 43,0 | 49,0 | 38,0 | 43,0 | 48,0 | 38,0 | 43,0 | 48,0 | 43,0 | 50,0 | 53,0 | 43,0 | 50,0 | 53,0 |
| Sound pressure dB(A) | 27,0 | 34,0 | 40,0 | 27,0 | 34,0 | 40,0 | 29,0 | 35,0 | 41,0 | 29,0 | 35,0 | 41,0 | 30,0 | 35,0 | 40,0 | 30,0 | 35,0 | 40,0 | 35,0 | 38,0 | 45,0 | 35,0 | 38,0 | 45,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil Ø | | 1/2" | | | 3/4" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | | | 230V~ | FOLL- | | | | | | | | | | | |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

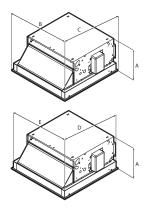
GRID DIMENSIONS (MANDATORY ACCESSORY)







DIMENSIONS



Dimensions and weights of the unit with grid (maximum dimensions)

| Size | | | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|--------------------|--------|----|-----|-----|-----|-----|------|------|------|------|
| Dimensions and w | eights | | | | | | | | | |
| A | | mm | 283 | 283 | 283 | 283 | 283 | 283 | 283 | 283 |
| В | | mm | 595 | 595 | 895 | 895 | 1195 | 1195 | 1195 | 1195 |
| С | | mm | 595 | 595 | 595 | 595 | 595 | 595 | 595 | 595 |
| Empty weight | | kg | 16 | 16 | 21 | 21 | 25 | 25 | 25 | 25 |
| Weight of the grid | | kg | 3,7 | 3,7 | 5,7 | 5,7 | 7,0 | 7,0 | 7,0 | 7,0 |

Dimensions of the unit with grid (dimensions for installation)

| | | | | , | | | | | , | |
|---------------|------------|----|-----|-----|-----|-----|------|------|------|------|
| Size | | | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
| Dimensions an | nd weights | | | | | | | | | |
| A | | mm | 283 | 283 | 283 | 283 | 283 | 283 | 283 | 283 |
| D | | mm | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 |
| F | | mm | 574 | 574 | 874 | 874 | 1174 | 1174 | 1174 | 1174 |















VEC-I

Coanda-effect fan coil for cassette installation



- Very quiet
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced variations in temperature and relative humidity in every season





DESCRIPTION

Thanks to a special air intake and flow grid, these units allow a coanda-effect air flow to be generated, parallel to the ceiling, creating optimal circulation inside the room to be air-conditioned.

They are suitable to be installed inside a suspended ceiling.

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Continuous air flow rate variation is made possible by a 0-10V signal generated by Aermec adjustment and control commands or by independent regulation systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Apart from the inverter motor of the "VEC-I" models, each unit can be supplied with a single-phase asynchronous "VEC" motor.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas water connections on the left side and the manifolds have air vents. Units are available with a standard coil (20-50) and a larger coil (24-54). Only units with the standard coil can be combined with an additional electric or water coil with 1 row, both available as an accessory.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

Air filter

Fire resistance class 1 air filter.

ACCESSORY COMPULSORY

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF Components

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-SW: Water probe (L=2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Common accessories

BV: Single row hot water heat exchanger.

RX: Armoured electric coil with safety thermostat.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VCF41 - 42 - 43 - for main coil: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and

relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

DSC: Condensate drainage device.

BC: Condensate drip.

PCR: Galvanised plate protection for the controls and the electrical element

ACCESSORIES COMPATIBILITY

Accessories mandatory

Intake grid and distribution of the air

| Accessory | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|
| VEC20GL | • | | | | | | |
| VEC30GL | | • | • | | | | |
| VEC40GL | | | | | • | • | • |

Control panels and dedicated accessories

| Accessory | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| AER503IR | • | • | • | • | • | • | • | • |
| PR0503 | • | • | • | • | • | • | • | • |
| SA5 | • | • | • | • | • | • | • | • |
| SW5 | • | • | • | • | • | • | • | • |
| TX | • | • | • | | • | • | • | • |

VMF Components

| Model | Ver | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|-------------|-----|----|----|----|----|----|----|----|----|
| VMF-E19 (1) | | • | • | • | • | • | • | • | • |
| VMF-E3 | | • | • | • | • | | • | | • |
| VMF-E4X | | • | • | • | • | • | • | • | • |
| VMF-IR | | | | | • | | | | • |
| VMF-SW | | • | • | • | • | • | • | • | • |
| VMF-SW1 | | • | • | | • | | | | • |

⁽¹⁾ Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Common accessories

Electric coil

| Accessory | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| RX22 | • | • | | | | | | |
| RX32 | | | • | • | | | | _ |
| RX42 | | | | | • | • | | |
| RX52 | | | | | | | • | • |

Protection for controls and electric resistance

| Accessory | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| PCR1V | • | • | • | • | | • | • | • |

Water coil with 1 row

| Accessory | VEC20I | VEC30I | VEC40I | VEC50I |
|-----------|--------|--------|--------|--------|
| BV122 | • | | | |
| BV132 | | • | | |
| BV142 | | | • | |

3-way valve kit - main coil or accessory BV coil

| | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Main coil | VCF41 - VCF4124 | VCF42 - VCF4224 | VCF41 - VCF4124 | VCF42 - VCF4224 |
| Additional coil "BV" | VCF44 - VCF4424 | - | VCF44 - VCF4224 | - | VCF44 - VCF4224 | - | VCF44 - VCF4224 | - |

2-way valve kit - main coil or accessory BV coil

| | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Main coil | VCFD1 - VCFD124 | VCFD2 - VCFD224 | VCFD1 - VCFD124 | VCFD2 - VCFD224 |
| Additional coil | VCFD2 - VCFD424 | - | VCFD4 - VCFD424 | - | VCFD4 - VCFD424 | - | VCFD4 - VCFD424 | - |

Valves ending with 24 ex. VCFD124, are 24V.

Condensate drip

| Accessory | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| BC5 | • | • | • | • | • | • | • | • |

Condensate drainage

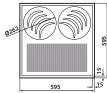
| Accessory | VEC20I | VEC24I | VEC30I | VEC34I | VEC40I | VEC44I | VEC50I | VEC54I |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
| DSC4 | | | | | | • | | |

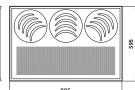
PERFORMANCE SPECIFICATIONS VEC

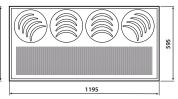
| | | VEC20I | | | VEC24 | I | VEC30I | | VEC34I | | VEC40I | | VEC44I | | VEC50I | | VEC54I | | | | | | | | |
|---------------------------------------|-------|-----------|------|------|-------|------|--------|------|--------|------|--------|-------|--------|--------|--------|------|--------|------|------|------|------|------|------|------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,87 | 2,54 | 3,10 | 2,07 | 2,50 | 3,42 | 3,03 | 3,64 | 4,31 | 4,31 | 53,18 | 6,14 | 4,21 | 5,21 | 6,29 | 5,41 | 6,68 | 8,07 | 4,76 | 6,34 | 7,16 | 6,06 | 8,08 | 9,18 |
| Water flow rate system side | l/h | 164 | 223 | 272 | 181 | 219 | 300 | 266 | 319 | 378 | 378 | 454 | 538 | 369 | 457 | 551 | 474 | 586 | 708 | 417 | 556 | 628 | 532 | 709 | 805 |
| Pressure drop system side | kPa | 2 | 4 | 6 | 1 | 2 | 3 | 9 | 13 | 17 | 5 | 7 | 9 | 6 | 9 | 12 | 9 | 14 | 19 | 7 | 11 | 14 | 9 | 15 | 19 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 0,95 | 1,26 | 1,54 | 1,20 | 1,40 | 1,70 | 1,50 | 1,81 | 2,14 | 2,15 | 2,57 | 3,05 | 2,09 | 2,59 | 3,12 | 2,69 | 3,30 | 4,01 | 2,37 | 3,15 | 3,56 | 3,02 | 4,02 | 4,54 |
| Water flow rate system side | l/h | 163 | 217 | 265 | 206 | 241 | 292 | 258 | 311 | 368 | 370 | 442 | 525 | 359 | 445 | 537 | 463 | 568 | 690 | 408 | 542 | 612 | 519 | 691 | 781 |
| Pressure drop system side | kPa | 3 | 5 | 7 | 2 | 3 | 4 | 9 | 13 | 17 | 5 | 7 | 9 | 6 | 9 | 13 | 10 | 14 | 20 | 7 | 12 | 14 | 17 | 15 | 19 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 0,80 | 1,07 | 1,31 | 0,88 | 1,21 | 1,52 | 1,35 | 1,61 | 1,91 | 1,79 | 2,14 | 2,47 | 1,99 | 2,47 | 2,99 | 2,55 | 3,34 | 3,91 | 2,35 | 3,17 | 3,61 | 3,00 | 4,00 | 4,28 |
| Sensible cooling capacity | kW | 0,64 | 0,87 | 1,07 | 0,67 | 0,90 | 1,14 | 1,03 | 1,25 | 1,49 | 1,26 | 1,51 | 1,78 | 1,58 | 1,98 | 2,41 | 1,91 | 2,42 | 2,74 | 1,68 | 2,27 | 2,59 | 2,09 | 2,83 | 3,04 |
| Water flow rate system side | l/h | 138 | 184 | 225 | 151 | 208 | 261 | 232 | 277 | 329 | 308 | 368 | 425 | 342 | 425 | 514 | 439 | 574 | 673 | 404 | 545 | 621 | 516 | 688 | 736 |
| Pressure drop system side | kPa | 3 | 4 | 6 | 1 | 2 | 3 | 6 | 11 | 13 | 5 | 6 | 8 | 6 | 9 | 12 | 11 | 17 | 22 | 7 | 12 | 15 | 17 | 27 | 30 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | | | | Centr | ifugal | | | | | | | | | | | |
| Fan motor | type | | | | | | | | | | | | Inve | rter | | | | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Air flow rate | m³/h | 130 | 194 | 247 | 130 | 167 | 247 | 241 | 309 | 383 | 241 | 309 | 383 | 306 | 406 | 511 | 306 | 406 | 511 | 371 | 529 | 613 | 371 | 529 | 613 |
| Input power | W | 4 | 9 | 14 | 4 | 9 | 14 | 11 | 16 | 35 | 11 | 16 | 35 | 16 | 20 | 26 | 16 | 20 | 26 | 18 | 27 | 34 | 18 | 27 | 34 |
| Signal 0-10V | % | 48 | 70 | 90 | 48 | 70 | 90 | 58 | 66 | 90 | 58 | 66 | 90 | 54 | 72 | 90 | 54 | 72 | 90 | 56 | 78 | 90 | 56 | 78 | 90 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 35,0 | 42,0 | 48,0 | 35,0 | 42,0 | 48,0 | 37,0 | 43,0 | 49,0 | 37,0 | 43,0 | 49,0 | 38,0 | 43,0 | 48,0 | 38,0 | 43,0 | 48,0 | 43,0 | 50,0 | 53,0 | 43,0 | 50,0 | 53,0 |
| Sound pressure | dB(A) | 27,0 | 34,0 | 40,0 | 27,0 | 34,0 | 40,0 | 29,0 | 35,0 | 41,0 | 29,0 | 35,0 | 41,0 | 30,0 | 35,0 | 40,0 | 30,0 | 35,0 | 40,0 | 35,0 | 38,0 | 45,0 | 35,0 | 38,0 | 45,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 3/4" | | | 1/2" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | 230V~50Hz | | | | | | | | | | | | | | | | | | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45°C/40°C; EUROVENT
 (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

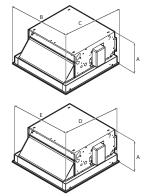
GRID DIMENSIONS (MANDATORY ACCESSORY)







DIMENSIONS



All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Dimensions and weights of the unit with grid (maximum dimensions)

| Size | | | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|--------------------|--------|----|-----|-----|-----|-----|------|------|------|------|
| Dimensions and we | eights | | | | | | | | | |
| A | | mm | 283 | 283 | 283 | 283 | 283 | 283 | 283 | 283 |
| В | | mm | 595 | 595 | 895 | 895 | 1195 | 1195 | 1195 | 1195 |
| C | | mm | 595 | 595 | 595 | 595 | 595 | 595 | 595 | 595 |
| Empty weight | | kg | 16 | 16 | 21 | 21 | 25 | 25 | 25 | 25 |
| Weight of the grid | | kg | 3,7 | 3,7 | 5,7 | 5,7 | 7,0 | 7,0 | 7,0 | 7,0 |

Dimensions of the unit with grid (dimensions for installation)

| Size | | | 20 | 24 | 30 | 34 | 40 | 44 | 50 | 54 |
|---------------|-----------|----|-----|-----|-----|-----|------|------|------|------|
| Dimensions an | d weights | | | | | | | | | |
| A | | mm | 283 | 283 | 283 | 283 | 283 | 283 | 283 | 283 |
| D | | mm | 574 | 574 | 574 | 574 | 574 | 574 | 574 | 574 |
| E | | mm | 574 | 574 | 874 | 874 | 1174 | 1174 | 1174 | 1174 |

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FCL

Cassette Type Fan Coil Unit



- Standard internal three-way valve
- Version with 2-way valve for variable water flow rate systems
- Version without valves





DESCRIPTION

4-way cassettes that can be installed in any type of 2- or 4-pipe system with any heat generator, even at low temperatures. Thanks to the selection of versions and configurations, it's easy to choose the best solution for every need.

FEATURES

Intake grid and distribution of the air

The recovery and air diffusion grille has an elegant design. In plastic, RAL 9010.

The dimensions of the first nine sizes respect the 600x600 mm modularity of false ceilings, whereas the larger sizes measuring 840x840 mm are designed for quiet operation and optimum performance.

Load-bearing structure

Models with a 600x600 mm module have a reinforced load-bearing structure with side panels in galvanised steel sheet, thermally insulated with internal polystyrene foam elements.

The structure of models with a 840x840 mm module is made entirely of galvanised steel sheet, thermally insulated with polyethylene foam on the inside and with an anti-condensate felt coating.

Ventilation group

Formed of a particularly quiet axial-centrifugal fan, statically and dynamically balanced.

The single-phase electric motor offers three or four speeds (depending on the size), is mounted on anti-vibration supports, and has a permanently enabled condenser.

Heat exchanger coil

Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves.

There are models with a single coil for 2-pipe systems, with the possibility to add an electric heater too, and models with two coils for 4-pipe systems

There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

Condensate drip

Condensation drip tray in one piece, with V0 self-extinguishing level and overmoulding to insulation in expanded polystyrene with flame retardant additive.

Air filter

Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with class-V0 fire resistance (UL 94).

Versions

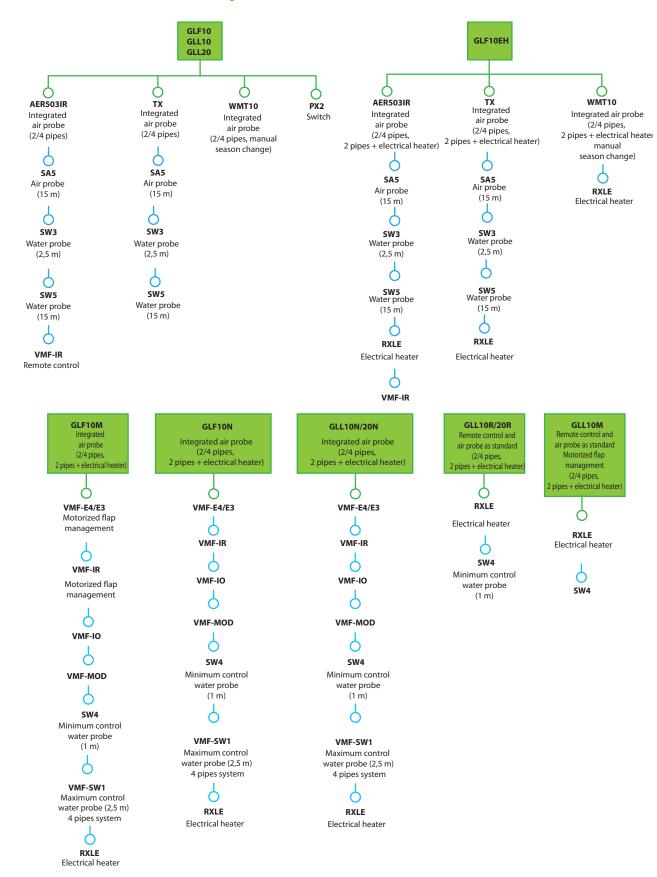
FCL Standard with internal 3-way valve

V2 With internal 2-way valve

VL Without internal valve

ACCESSORIES

Accessories that can be combined with the grilles



RXLE it can be installed only at the factory.

Intake grids and distribution of the air, compulsory accessory

GLF10: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated louvers. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLF10EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available). **GLF10M:** Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLL10: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLL10M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with an infrared receiver with an emergency operation button, and a remote control. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control.

GLL10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL10R: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with an infrared receiver with an emergency operation button, and a remote control. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL20: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLL20N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL20R: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with an infrared receiver with an emergency operation button, and a remote control. Suitable for use

with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

VMF system

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SW1: Additional water probe (L=2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Control panels and their accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW4: Water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

Electric heaters

RXLE: Electric heater for heating, can be installed on board the units. **RXLE20:** Electric heater for heating, can be installed on board the units.

Water valve kit

VCFLX4: 3-way valve kit for single-coil fan coil for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings.

VHL1: 3-way motorised valve kit with 4 connections including the actuator. 230V~50Hz power supply.

VHL124: 3-way motorised valve kit with 4 connections including the actuator. 24V power supply.

VHL20: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 230V~50Hz power sup-

VHL2024: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL2: 2-way motorised valve kit with 2 connections including the actuator. Power supply 230V~50Hz;

VHL22: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. Power supply 230V~50Hz; VHL2224: Motorised 2-way valve kit with 2 connections, complete

with actuator and the relative hydraulic couplings. 24V power supply. VHL224: 2-way motorised valve kit with 2 connections including the actuator. 24V power supply.

Installation accessories

FEL10: Kit n°5 electrostatically pre-charged air filter, with fire resistance class 2 (UL 900).

KFL: Delivery flange, allowing the air to be directed to an adjacent

KFL20: Delivery flange, allowing the air to be directed to an adjacent room. Up to three KFL20 can be assembled on a single unit.

KFLD: Suction flange, allows to introduce external air directly into the room without mixing.

KFLD20: Suction flange, allows to introduce external air directly into the room without mixing. Up to two KFL20D can be assembled on a single unit.

FCLMC10: Perimeter housing in painted galvanised sheet metal, 600x600 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

FCLMC20: Perimeter housing in painted sheet metal, 840x840 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI

ACCESSORIES COMPATIBILITY

Intake grids and distribution of the air

| Model | Ver | 32 | 34 | 36 | 38 | 42 | 44 | 62 | 64 |
|-------------|-----------|----|----|----|----|----------|-----|-----|-----|
| GLF10 (1) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| GLF10EH (2) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| GLF10M (3) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| GLF10N (3) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| Model | Ver | 72 | 82 | 84 | 10 | י | 104 | 122 | 124 |
| mouci | ver | 12 | 02 | 04 | 10 | 2 | 104 | 122 | 147 |
| GLF10 (1) | FCL,V2,VL | • | 02 | 04 | 10 | <u> </u> | 104 | 122 | 127 |
| | | • | 02 | 04 | 10 | 2 | 104 | 122 | 124 |
| GLF10 (1) | FCL,V2,VL | • | 02 | 04 | 10 | 2 | 104 | 122 | 127 |

- Not compatible with the VMF system and electric heaters.
 Not compatible with the VMF system, but compatible with electric heaters.
 Compatible with the VMF system and electric heaters.
- Intake grid and distribution of the air

| Model | Ver | 32 | 34 | 36 | 38 | 42 | 44 | 62 | 64 |
|------------|-----------|----|----|----|----|----|-----|-----|-----|
| GLL10 (1) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| GLL10M (2) | FCL,V2,VL | | • | | | | • | • | • |
| GLL10N (3) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| GLL10R (2) | FCL,V2,VL | • | • | • | • | • | • | • | • |
| Model | Ver | 72 | 82 | 84 | 10 | 2 | 104 | 122 | 124 |
| GLL10 (1) | FCL,V2,VL | | | | | | | | |
| GLL10M (2) | FCL,V2,VL | | | | | | | | |
| GLL10N (3) | FCL,V2,VL | • | | | | | | | |
| GLL10R (2) | FCL,V2,VL | • | | | | | | | |
| GLL20 (1) | FCL,V2,VL | | • | • | | | • | | • |
| GLL20N (3) | FCL,V2,VL | | • | • | | | • | • | • |
| GLL20R (4) | FCL,V2,VL | | • | | | | • | • | |

- (1) Not compatible with the VMF system and electric heaters.
 (2) Not compatible with the VMF system, but compatible with electric heaters.

- (3) Compatibility with VMF system.(4) Not compatible with the VMF system.

VMF system

| Model | Ver | 32 | 34 | 36 | 38 | 42 | 44 | 62 | 64 |
|----------|-----------|----|----|----|----|----|-----|-----|-----|
| VMF-E3 | FCL,V2,VL | • | • | • | • | • | • | • | • |
| VMF-E4DX | FCL,V2,VL | • | | • | | | • | • | |
| VMF-E4X | FCL,V2,VL | • | • | • | • | | • | • | • |
| VMF-I0 | FCL,V2,VL | • | • | • | | • | • | • | |
| VMF-IR | FCL,V2,VL | • | • | • | • | • | • | • | • |
| VMF-MOD | FCL,V2,VL | • | • | • | • | • | • | • | • |
| VMF-SW1 | FCL,V2,VL | • | • | • | • | • | • | • | • |
| Model | Ver | 72 | 82 | 84 | 10 | 2 | 104 | 122 | 124 |
| VMF-E3 | FCL,V2,VL | • | | | | | • | • | • |
| VMF-E4DX | FCL,V2,VL | • | • | • | | | • | • | • |
| VMF-E4X | FCL,V2,VL | • | • | • | | | • | • | • |
| VMF-I0 | FCL,V2,VL | • | • | • | | | • | • | • |
| VMF-IR | FCL,V2,VL | • | • | • | | | • | • | • |
| VMF-MOD | FCL,V2,VL | • | • | • | | | • | • | • |

| Model | Ver | 7 | 2 | | 82 | | 84 | | 102 | | 104 | | 122 | | 12 | 4 |
|--|--|--|------|------|-------|--------------|-----------|---------------|----------|----|-----|------|-----|-----|------|--------------|
| VMF-SW1 | FCL,V2,VL | | • | | • | | • | | • | | • | | • | | • | |
| Control panels and dec | dicated accessories | | | | | | | | | | | | | | | |
| lodel | Ver | 32 | 34 | 36 | 38 | 42 | 44 | 62 | 64 | 72 | 82 | 84 | 102 | 104 | 122 | 12 |
| ER503IR (1) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| A5 (2) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| T3 (3) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| IT5 (4) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| W3 (2) | FCL,V2,VL | • | • | • | • | • | • | ٠ | • | • | • | • | • | ٠ | • | |
| W4 | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| W5 (2) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| X (1) | FCL,V2,VL | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| /MT10 (1) 1) Wall-mounting. If the unit intak 2) Probe for AER503IR-TX thermos 3) Cards for AER503IR-TX thermost 4) Probe for AER503IR-TX thermos | tats, if fitted. ats, if present, to be installed i | | _ | _ | | ostat, board | SIT3 and/ | or SIT5 is re | equired. | • | • | • | • | • | • | |
| way valve kit | | | | | | | | | | | | | | | | |
| Nodel | Ver | 32 | | 34 | | 36 | | 38 | | 42 | | 44 | | 62 | (| 54 |
| /HL1 (1) | FCL,V2,VL | | | • | | | | • | | | | • | | | | • |
| HL124 (1) | FCL,V2,VL | | | • | | | | • | | | | • | | | | • |
| Nodel | Ver | 7 | 2 | | 82 | | 84 | | 102 | | 104 | | 122 | | 12 | 4 |
| 'HL20 (1) | FCL,V2,VL | | | | | | | | | | • | | | | | |
| HL2024 (1) | FCL,V2,VL | | | | | | | | | | | | | | | |
|) Obligatory accessory in 4-pipe s | | | | | | | | | | | | | | | | |
| way valve kit | | | | | | | | | | | | | | | | |
| lodel | Ver | 32 | | 34 | | 36 | | 38 | | 42 | | 44 | | 62 | | 54 |
| HL2 (1) | FCL,V2,VL | | | • | | | | • | | | | • | | | | • |
| HL224 (1) | FCL,V2,VL | | | | | | | • | | | | | | | | |
| Model . | Ver | | 2 | | 82 | | 84 | | 102 | | 104 | | 122 | | 12 | 4 |
| HL22 (1) | FCL,V2,VL | | | | 82 | | • | | 102 | | 104 | | 122 | | . 12 | |
| HL2224 (1) | FCL,V2,VL | | | | | | • | | | | • | - | | | | |
| | | | | | | | | | | | | | | | | |
| 1) Compulsory accessory in 4-pipe | systems with variable flow rat | e. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| /alve Kit for 4 pipe sys | tems | | | | | | | | | | | | | | | |
| /alve Kit for 4 pipe sys Model (CFLX4 (1) | Ver VL | 32 | | 34 | | 36 | 38 | | 42 | | 44 | 62 | | 64 | | 72 • |
| Nodel CFLX4 (1) | Ver VL | • | rol. | 34 | | | 38 | | | | 44 | | | 64 | | |
| Aodel (CFLX4 (1) 1) The valve must be commanded | Ver VL | • | rol. | 34 | | | 38 | | | | 44 | | | 64 | | |
| Nodel (FLX4 (1) 1) The valve must be commanded Nir filters Nodel | Ver VL via command panels enabled f Ver | • | | 34 | | | 38 | 38 | | 42 | 44 | | | 64 | | |
| Nodel (CFLX4 (1) 1) The valve must be commanded Air filters Andel | Ver VL Via command panels enabled f | or valve cont | | | | • | 38 | | | 42 | 44 | • | | | | • |
| Nodel (CFLX4 (1) 1) The valve must be commanded lir filters Nodel EL10 | Ver VL via command panels enabled i Ver FCL,V2,VL | or valve cont | | 34 | | . 36 | | 38 | • | | | 44 | | 62 | (| 54 |
| Addel (CFLX4 (1) 1) The valve must be commanded Air filters Addel EL10 Addel | Ver VL via command panels enabled f Ver | or valve cont | | 34 | 82 | . 36 | 38 | 38 | | | 104 | 44 | 122 | 62 | | 54 |
| Nodel (CFLX4 (1) I) The valve must be commanded Air filters Nodel EL10 Nodel EL10 | Ver VL via command panels enabled i Ver FCL,V2,VL Ver | or valve cont | 2 | 34 | | . 36 | | 38 | • | | | 44 | | 62 | (| 54 |
| Addel (CFLX4 (1) 1) The valve must be commanded Air filters Aodel EL10 Aodel EL10 Delivery flange | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | or valve cont | 2 | 34 | 82 | 36 | | 38 | • | • | | 44 | 122 | 62 | 12 | 64 |
| Addel (CFLX4 (1) 1) The valve must be commanded Air filters Aodel EL10 Aodel EL10 Delivery flange Aodel | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | or valve cont | 2 | 34 | 82 | . 36 | | 38 | • | | | 44 | 122 | 62 | 12 | 54 |
| Addel (CFLX4 (1) 1) The valve must be commanded Air filters Aodel EL10 Aodel EL10 Delivery flange Aodel | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | or valve control or val | 2 | 34 | 82 | 36 | | 38 | • | 42 | | 44 | 122 | 62 | 12 | |
| Nodel (CFLX4 (1) I) The valve must be commanded Air filters Nodel EL10 Nodel EL10 Delivery flange Nodel FL FL | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL | 32 · 32 · · | 2 | 34 . | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 . | 122 | 62 | 122 | 64 4 |
| Nodel (CFLX4 (1) I) The valve must be commanded Air filters Nodel EL10 Nodel EL10 Delivery flange Nodel FL FL Nodel | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL Ver | 32 | 2 | 34 . | 82 | 36 | | 38 . | • | 42 | | 44 . | 122 | 62 | 12 | 64 4 |
| Iodel CFLX4 (1) The valve must be commanded lir filters Iodel EL10 Iodel EL10 Delivery flange Iodel FL Iodel FL Iodel FL | Ver VL via command panels enabled i Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL Ver FCL,V2,VL | 32 | 2 | 34 . | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 . | 122 | 62 | 12 | 54 • |
| Nodel (CFLX4 (1) I) The valve must be commanded lir filters Nodel EL10 Nodel EL10 Delivery flange Nodel FL FL FL Nodel FL | Ver VL via command panels enabled i Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL | 32 - 32 3 | 2 | 34 . | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 . | 122 | 62 | 122 | 64 4 |
| Aodel (CFLX4 (1) The valve must be commanded Air filters Aodel EL10 Aodel EL10 Delivery flange Aodel FL FL FL FL FL FFL FFL FFL FFL FFL FFL | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL | 32 - 32 3 | 2 | 34 . | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 . | 122 | 62 | 12 | 54 |
| Nodel (CFLX4 (1) I) The valve must be commanded Air filters Nodel EL10 Nodel EL10 Delivery flange Nodel FL FLD FLD FLD FLD FLD FLD FLD FLD | Ver VL via command panels enabled i Ver FCL,V2,VL Ver FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL | 32 - 32 3 | 2 | 34 . | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 . | 122 | 62 | 12 | 54 |
| Nodel (CFLX4 (1) IT he valve must be commanded lir filters Nodel EL10 Nodel EL10 Delivery flange Nodel FL FLD FLD FLD FLD FLD FLD FLD FLD FLD | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | 32 | 2 | 34 | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 | 122 | 62 | 12 | 54 |
| Iodel (FLX4 (1)) The valve must be commanded lir filters Iodel EL 10 Iodel EL 10 Iodel FL D Iodel FL FLD Iodel FL FLD | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | 32 | 2 | 34 | 82 | 36 | 84 | 38 | 102 | 42 | 104 | 44 | 122 | 62 | 122 | 4 |
| Iodel (FLX4 (1)) The valve must be commanded lir filters Iodel EL 10 Iodel EL 10 Iodel FL D Iodel FL FLD Iodel FL FLD | Ver VL via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL | 32 | 2 | 34 | 82 | 36 | 84 | 38 . | 102 | 42 | 104 | 44 | 122 | 62 | 122 | 54 |
| Nodel (CFLX4 (1) IT he valve must be commanded lir filters Nodel EL10 Nodel EL10 Pelivery flange Nodel FL FLD FLD FLD FLD FLD FLD FLD FLO | Ver VL Via command panels enabled for the properties of the prope | 32 | 2 | 34 | 82 | 36 | 84 | 38 | 102 | 42 | 104 | 44 | 122 | 62 | 122 | 64 4 4 |
| Nodel (CFLX4 (1) IT he valve must be commanded lir filters Nodel EL10 Nodel EL10 Pelivery flange Nodel FL FLD FLD FLD FLD FLD FLO | Ver VL Via command panels enabled f Ver FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL Ver FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL FCL,V2,VL | 32 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 | 2 | 34 | 82 82 | 36 | 84 | 38 | 102 | 42 | 104 | 44 | 122 | 62 | 12 | |

⁽¹⁾ Can only be combined with GLL/GLLI grilles

PERFORMANCE SPECIFICATIONS

2-pipe

| | | | FCL32 | 2 | | FCL36 | , | | FCL42 | ! | | FCL62 | ! | | FCL72 | ! | | FCL82 | | | FCL102 | 2 | | FCL122 | 2 |
|---------------------------------------|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|-------|------|---------|-------|------|---------|-------|------|----------|-------|-------|----------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 2,22 | 2,95 | 4,00 | 3,42 | 4,50 | 6,27 | 3,32 | 4,47 | 7,34 | 5,19 | 6,37 | 10,49 | 6,14 | 7,57 | 11,32 | 5,88 | 8,12 | 11,88 | 8,30 | 11,71 | 17,73 | 10,53 | 14,73 | 21,75 |
| Water flow rate system side | l/h | 194 | 258 | 350 | 300 | 394 | 549 | 290 | 391 | 642 | 454 | 558 | 918 | 538 | 662 | 991 | 514 | 710 | 1039 | 726 | 1025 | 1551 | 921 | 1289 | 1903 |
| Pressure drop system side | kPa | 4 | 6 | 10 | 6 | 10 | 19 | 6 | 10 | 24 | 12 | 17 | 42 | 14 | 20 | 42 | 7 | 13 | 26 | 6 | 12 | 25 | 11 | 21 | 42 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,10 | 1,47 | 1,98 | 1,70 | 2,24 | 3,12 | 1,65 | 2,22 | 3,64 | 2,58 | 3,17 | 5,21 | 3,50 | 3,76 | 5,63 | 2,92 | 4,03 | 5,90 | 4,12 | 5,82 | 8,81 | 5,23 | 7,32 | 10,80 |
| Water flow rate system side | l/h | 192 | 254 | 345 | 295 | 389 | 541 | 287 | 386 | 633 | 448 | 550 | 905 | 530 | 654 | 977 | 507 | 701 | 1025 | 716 | 1011 | 1530 | 909 | 1271 | 1877 |
| Pressure drop system side | kPa | 4 | 6 | 11 | 6 | 9 | 17 | 5 | 9 | 23 | 10 | 15 | 36 | 13 | 19 | 40 | 7 | 12 | 23 | 4 | 7 | 15 | 10 | 17 | 35 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,14 | 1,44 | 1,86 | 1,77 | 2,22 | 2,96 | 1,94 | 2,51 | 3,88 | 2,63 | 3,17 | 4,90 | 2,75 | 3,29 | 5,35 | 2,76 | 3,97 | 5,85 | 4,00 | 5,82 | 8,85 | 5,31 | 7,40 | 10,83 |
| Sensible cooling capacity | kW | 0,97 | 1,22 | 1,48 | 1,37 | 1,75 | 2,36 | 1,36 | 1,79 | 3,09 | 1,83 | 2,23 | 3,73 | 1,84 | 2,29 | 3,99 | 1,86 | 2,69 | 4,05 | 2,89 | 4,22 | 6,51 | 3,99 | 5,63 | 8,30 |
| Water flow rate system side | l/h | 200 | 253 | 327 | 308 | 387 | 516 | 337 | 437 | 679 | 458 | 551 | 856 | 484 | 571 | 938 | 482 | 695 | 1032 | 697 | 1012 | 1547 | 921 | 1292 | 1893 |
| Pressure drop system side | kPa | 4 | 7 | 10 | 6 | 9 | 15 | 7 | 11 | 25 | 12 | 16 | 36 | 13 | 18 | 43 | 7 | 14 | 28 | 7 | 13 | 28 | 10 | 19 | 38 |
| Fan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | Ce | entrifug | gal | Ce | entrifug | jal | Ce | entrifug | jal | Ce | ntrifug | jal | Ce | ntrifug | ıal | Ce | ntrifug | ıal | Ce | entrifug | ıal | C | entrifug | al |
| Fan motor | type | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous | Asy | nchron | ous | Asy | /nchron | ous | Asy | nchrono | ous |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate | m³/h | 300 | 410 | 600 | 300 | 410 | 600 | 260 | 360 | 700 | 380 | 500 | 880 | 400 | 520 | 900 | 460 | 680 | 1100 | 560 | 830 | 1350 | 750 | 1100 | 1750 |
| Sound power level (4) | dB(A) | 35,0 | 38,0 | 46,0 | 35,0 | 38,0 | 46,0 | 35,0 | 38,0 | 53,0 | 41,0 | 47,0 | 61,0 | 44,0 | 49,0 | 60,0 | 39,0 | 43,0 | 50,0 | 40,0 | 45,0 | 54,0 | 44,0 | 50,0 | 60,0 |
| Input power | W | 21 | 31 | 45 | 21 | 31 | 45 | - | 32 | 75 | 26 | 37 | 83 | 50 | 58 | 110 | 45 | 80 | 150 | 50 | 80 | 155 | 55 | 105 | 175 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | Gas - F | = | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Water coil | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | 1 | | 0,6 | | | 0,8 | | | 0,8 | | | 1,3 | | | 1,3 | | | 2,6 | | | 4,0 | | | 4,0 | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | 23 | 0V~50 | OHz | 23 | 0V~50 |)Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 |)Hz | 23 | 0V~50 |)Hz | 23 | 30V~50 |)Hz | 23 | 30V~50 | Hz |

4-pipe

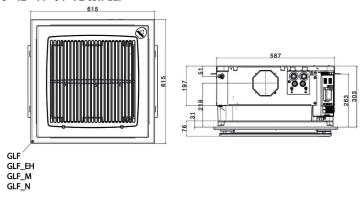
| | | | FCL34 | | | FCL38 | | | FCL44 | | | FCL64 | | | FCL84 | | | FCL104 | | | FCL124 | |
|---------------------------------------|-------|------|----------|------|------|----------|------|------|----------|-------|------|----------|-------|------|----------|------|----------|----------|------------|------|----------|-------|
| - | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 |
| | | i | M | Н | ÷ | M | Н | ÷ | M | H | i | M | H | ÷ | M | H | <u>'</u> | M | <u>-</u> Т | i | M | H |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,74 | 1,95 | 2,32 | 1,74 | 1,95 | 2,32 | 1,75 | 2,04 | 2,44 | 2,21 | 2,50 | 3,19 | 4,73 | 5,71 | 7,59 | 5,27 | 6,53 | 8,93 | 6,30 | 8,31 | 11,17 |
| Water flow rate system side | I/h | 152 | 171 | 203 | 152 | 171 | 203 | 153 | 178 | 240 | 194 | 219 | 279 | 414 | 500 | 664 | 461 | 571 | 782 | 551 | 727 | 977 |
| Pressure drop system side | kPa | 6 | 7 | 10 | 6 | 7 | 10 | 6 | 7 | 10 | 10 | 10 | 19 | 6 | 8 | 12 | 7 | 10 | 17 | 9 | 15 | 25 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,14 | 1,44 | 1,86 | 1,63 | 2,05 | 2,73 | 1,79 | 2,31 | 2,95 | 2,43 | 2,93 | 4,51 | 2,76 | 3,97 | 5,85 | 3,45 | 4,84 | 7,05 | 4,52 | 6,11 | 8,63 |
| Sensible cooling capacity | kW | 0,97 | 1,22 | 1,48 | 1,28 | 1,63 | 2,20 | 1,25 | 1,65 | 2,13 | 1,69 | 2,06 | 3,43 | 1,86 | 2,69 | 4,05 | 2,43 | 3,45 | 5,15 | 3,32 | 4,57 | 6,60 |
| Water flow rate system side | l/h | 200 | 253 | 327 | 284 | 358 | 476 | 314 | 396 | 626 | 424 | 510 | 793 | 482 | 695 | 1032 | 602 | 845 | 1238 | 786 | 1068 | 1513 |
| Pressure drop system side | kPa | 4 | 7 | 10 | 5 | 8 | 13 | 6 | 10 | 15 | 11 | 16 | 35 | 6 | 12 | 25 | 7 | 13 | 26 | 12 | 22 | 38 |
| Fan | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | C | entrifug | al | C | entrifug | al | G | entrifug | al | C | entrifug | al | G | entrifug | al | (| entrifug | al | 0 | entrifug | al |
| Fan motor | type | As | ynchron | ous | Asy | nchron | ous | Asy | /nchron | ous | Asy | ynchron | ous | Asy | /nchron | ous | As | ynchron | ous | Asy | ynchron | ous |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate | m³/h | 300 | 410 | 600 | 300 | 410 | 600 | 260 | 360 | 530 | 380 | 500 | 880 | 460 | 680 | 1100 | 560 | 830 | 1350 | 750 | 1100 | 1750 |
| Sound power level (3) | dB(A) | 35,0 | 38,0 | 46,0 | 35,0 | 38,0 | 46,0 | 35,0 | 39,0 | 46,0 | 41,0 | 47,0 | 61,0 | 39,0 | 43,0 | 50,0 | 40,0 | 45,0 | 54,0 | 46,0 | 50,0 | 60,0 |
| Input power | W | 21 | 31 | 45 | 21 | 31 | 45 | 22 | 32 | 47 | 32 | 45 | 101 | 45 | 80 | 150 | 50 | 80 | 155 | 55 | 105 | 175 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | | | | |
| Туре | type | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | | | Gas - F | |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | |
| Water coil | | | | | | | | | | | | | | | | | | | | | | |
| Water content main coil | 1 | | 0,8 | | | 0,8 | | | 0,8 | | | 1,1 | | | 2,6 | | | 2,6 | | | 2,6 | |
| Water content the secondary coil | 1 | | 0,2 | | | 0,2 | | | 0,2 | | | 0,2 | | | 1,4 | | | 1,4 | | | 1,4 | |
| Power supply | | | | | | | | | | | | | | | | | | | | | | |
| Power supply | | 2: | 30V~50 | Hz | 23 | 30V~50 | Hz | 23 | 80V~50 | Hz | 23 | 30V~50 | Hz | 23 | 80V~50 | Hz | 2: | 30V~50 | Hz | 23 | 30V~50 | Hz |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

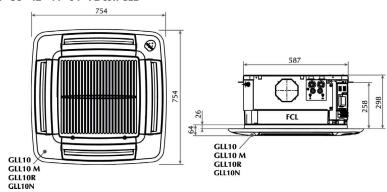
⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS

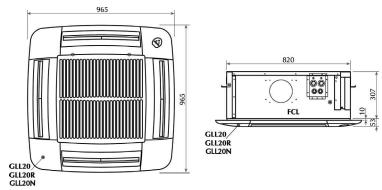
Dimensions FCL 32 - 34 - 36 - 38 - 42 - 44 - 64 - 72 con GLF



Dimensions FCL 32 - 34 - 36 - 38 - 42 - 44 - 64 - 72 con GLL



Dimensions FCL 82 - 84 - 102- 104 - 122 - 124 con GLL



| Size | | | 102 | 104 | 122 | 124 | 32 | 34 | 36 | 38 | 42 | 44 | 62 | 64 | 72 | 82 | 84 |
|------------------------|-----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| | FCL | kg | 36 | 36 | 36 | 36 | 20 | 21 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 35 | 36 |
| Empty weight | V2 | kg | 36 | 36 | 36 | 36 | 20 | 21 | 20 | 21 | 20 | 21 | 21 | 22 | 22 | 35 | 36 |
| | ٧L | kg | 35 | 35 | 35 | 35 | 20 | 20 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 34 | 35 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCLI

Cassette Type Fan Coil Unit



- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced variations in temperature and relative humidity
- · Standard internal three-way valve
- Version with 2-way valve for variable water flow rate systems
- Version without valves





DESCRIPTION

4-way cassettes that can be installed in any type of 2- or 4-pipe system with any heat generator, even at low temperatures. Thanks to the selection of versions and configurations, it's easy to choose the best solution for every need.

FEATURES

Intake grid and distribution of the air

The recovery and air diffusion grille has an elegant design. In plastic, RAL 9010. The dimensions of the first 5 sizes comply with the 600x600 mm modularity of false ceilings, whereas the larger sizes measuring 840x840 mm are designed for quiet operation and optimum performance of these large models.

Load-bearing structure

Models with a 600x600 mm module have a reinforced load-bearing structure with side panels in galvanised steel sheet, thermally insulated with internal polystyrene foam elements.

The structure of models with a 840x840 mm module is made entirely of galvanised steel sheet, thermally insulated with polyethylene foam on the inside and with an anti-condensate felt coating.

Ventilation group

Formed of a particularly quiet axial-centrifugal fan, statically and dynamically balanced.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves.

There are models with a single coil for 2-pipe systems, with the possibility to add an electric heater too, and models with two coils for 4-pipe systems.

There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Condensate drip

Condensation drip tray in one piece, with V0 self-extinguishing level and overmoulding to insulation in expanded polystyrene with flame retardant additive.

Air filter

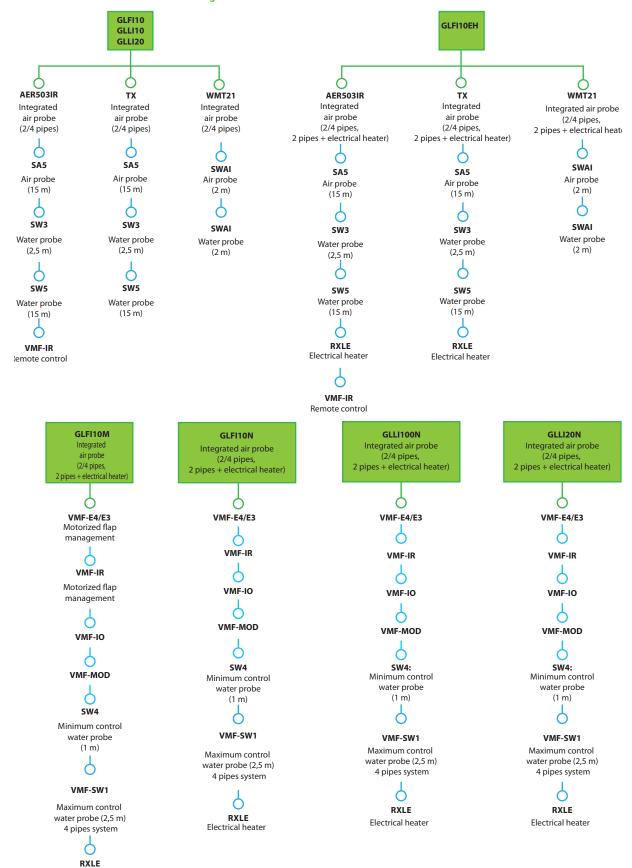
Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with class-V0 fire resistance (UL 94).

Versions

FCLI Standard **V2** With internal 2-way valve **VL** Without internal valve

ACCESSORIES

Accessories that can be combined with the grilles



RXLE it can be installed only at the factory.

Electrical heater

Intake grids and distribution of the air, compulsory accessory

GLF110: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated louvers. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLF110EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available). **GLF110M:** Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF110N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLL1100: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel. GLLI100EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available). GLL1100N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X panel as well, and suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL120: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLL120N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

VMF system

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Control panels and their accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW4: Water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWAI: External air or water temperature probe.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualiet).

WMT21: Electronic thermostat for inverter fancoils.

Electric heaters

RXLE: Electric heater for heating, can be installed on board the units. **RXLE20:** Electric heater for heating, can be installed on board the units.

Water valve kit

VCFLX4: 3-way valve kit for single-coil fan coil for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings.

VHL1: 3-way motorised valve kit with 4 connections including the actuator. 230V~50Hz power supply.

VHL124: 3-way motorised valve kit with 4 connections including the actuator. 24V power supply.

VHL20: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 230V~50Hz power supply.

VHL2024: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL2: 2-way motorised valve kit with 2 connections including the actuator. Power supply 230V~50Hz;

VHL22: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. Power supply 230V~50Hz;

VHL224: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. 24V power supply. **VHL224:** 2-way motorised valve kit with 2 connections including the

VHL224: 2-way motorised valve kit with 2 connections including the actuator. 24V power supply.

Installation accessories

FEL10: Kit n°5 electrostatically pre-charged air filter, with fire resistance class 2 (UL 900).

KFL: Delivery flange, allowing the air to be directed to an adjacent room.

KFL20: Delivery flange, allowing the air to be directed to an adjacent room. Up to three KFL20 can be assembled on a single unit.

KFLD: Suction flange, allows to introduce external air directly into the room without mixing.

KFLD20: Suction flange, allows to introduce external air directly into the room without mixing. Up to two KFL20D can be assembled on a single unit.

FCLMC10: Perimeter housing in painted galvanised sheet metal, 600x600 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

FCLMC20: Perimeter housing in painted sheet metal, 840x840 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI

FCLMC20IK: Installation kit for the inverter controller. Mandatory for units with FCLMC20.

ACCESSORIES COMPATIBILITY

Intake grids and distribution of the air

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|--------------|------------|----|----|----|----|----|----|----|-----|-----|
| GLFI10 (1) | FCLI,V2,VL | • | • | • | • | • | • | | | |
| GLFI10EH (2) | FCLI,V2,VL | | • | • | • | • | • | | | |
| GLFI10M (3) | FCLI,V2,VL | • | • | • | • | • | • | | | |
| GLFI10N (3) | FCLI,V2,VL | • | | | | | • | | | |

- Not compatible with the VMF system and electric heaters.
 Not compatible with the VMF system, but compatible with electric heaters.
- (3) Compatible with the VMF system and electric heaters.

Intake grid and distribution of the air

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|---------------|------------|----|----|----|----|----|----|----|-----|-----|
| GLLI100 (1) | FCLI,V2,VL | • | • | • | • | • | • | | | |
| GLLI100EH (2) | FCLI,V2,VL | • | • | • | • | • | • | | | |
| GLLI100N (3) | FCLI,V2,VL | | | | | | | | | |
| GLLI20 (1) | FCLI,V2,VL | | | | | | | • | • | • |
| GLLI20N (4) | FCLI,V2,VL | | | | | | | | • | • |

- Not compatible with the VMF system and electric heaters.
 Not compatible with the VMF system, but compatible with electric heaters.
 Compatible with the VMF system and electric heaters.
 Compatible with VMF system.

VMF system

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|----------|------------|----|----|----|----|----|----|----|-----|-----|
| VMF-E3 | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-E4DX | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-E4X | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-IO | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-IR | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-MOD | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-SW | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| VMF-SW1 | FCLI,V2,VL | • | • | • | | • | | • | | |

Control panels and dedicated accessories

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|--------------|------------|----|----|----|----|----|----|----|-----|-----|
| AER503IR (1) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| SA5 (2) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| SW3 (2) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| SW4 | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| SW5 (2) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| SWAI (3) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| TX (1) | FCLI,V2,VL | • | • | • | • | • | • | • | • | • |
| WMT21 | FCLI,V2,VL | • | • | • | • | | | • | • | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.
- (2) Probe for AER503IR-TX thermostats, if fitted.(3) Probe for thermostat WMT21.

3 way valve kit

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|-------------|-----|----|----|----|----|----|----|----|-----|-----|
| VHL1 (1) | VL | | • | | • | | • | | | |
| VHL124 (1) | VL | | • | | • | | • | | | |
| VHL20 (1) | VL | | | | | | | | | • |
| VHL2024 (1) | VL | | | | | | | | | • |

(1) Obligatory accessory in 4-pipe systems.

2 way valve kit

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|-------------|-----|----|----|----|----|----|----|----|-----|-----|
| VHL2 (1) | VL | | • | | • | | • | | | _ |
| VHL22 (1) | VL | | | | | | | | | • |
| VHL2224 (1) | VL | | | | | | | | | • |
| VHL224 (1) | VL | | • | | • | | • | | | |

(1) Compulsory accessory in 4-pipe systems with variable flow rate.

| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
|---------------------------------|---------------------------------|------------------|----|----|----|----|----|----|-----|-----|
| VCFLX4 (1) | VL | • | | • | | • | | | | |
| (1) The valve must be commanded | d via command panels enabled fo | r valve control. | | | | | | | | |
| Air filters | | | | | | | | | | |
| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
| FEL10 | FCLI,V2,VL | • | • | • | • | • | • | | | |
| Delivery and suction to Model | flange Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
| | | | | | | | | 82 | 122 | 124 |
| KFL | FCLI,V2,VL | • | • | • | • | • | • | | | |
| KFL20 | FCLI,V2,VL | | | | | | | • | • | • |
| KFLD | FCLI,V2,VL | • | • | • | • | • | • | | | |
| KFLD20 | FCLI,V2,VL | | | | | | | • | • | • |
| Perimeter case | | | | | | | | | | |
| Model | Ver | 32 | 34 | 42 | 44 | 62 | 64 | 82 | 122 | 124 |
| FCLMC10 (1) | FCLI,V2,VL | • | • | • | • | • | • | | | |
| FCLMC20 (1) | FCLI,V2,VL | | | | | | | • | • | • |
| FCLMC20IK (2) | FCLI,V2,VL | | | | | | | | | |

⁽¹⁾ Can only be combined with GLL/GLLI grilles (2) Mandatory for units with FCLMC20.

PERFORMANCE SPECIFICATIONS

2-pipe

| z-pipe | _ | | | | | | | | | | | | | | | |
|---------------------------------------|-------|------|-------------|------|------|-------------|------|------|-------------|-------|------|-------------|-------|-------|-------------|-------|
| | | | FCLI32 | | | FCLI42 | | | FCLI62 | | | FCL182 | | | FCLI122 | |
| | | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 | 1 | 2 | 4 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 2,22 | 2,95 | 4,00 | 3,32 | 4,47 | 7,34 | 5,19 | 6,37 | 10,49 | 5,88 | 8,12 | 11,88 | 10,53 | 14,73 | 21,75 |
| | I/h | 194 | 258 | 350 | 290 | 391 | 642 | 454 | 558 | 918 | 514 | 710 | 1039 | 921 | 1289 | 1903 |
| Pressure drop system side | kPa | 4 | 6 | 10 | 6 | 10 | 24 | 12 | 17 | 42 | 7 | 13 | 26 | 11 | 21 | 42 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,10 | 1,47 | 1,98 | 1,67 | 2,21 | 3,64 | 2,58 | 3,21 | 5,21 | 2,94 | 4,05 | 5,90 | 5,28 | 7,37 | 10,80 |
| Water flow rate system side | l/h | 192 | 254 | 345 | 287 | 386 | 633 | 448 | 550 | 905 | 507 | 701 | 1025 | 909 | 1271 | 1877 |
| Pressure drop system side | kPa | 4 | 6 | 11 | 5 | 9 | 21 | 10 | 17 | 41 | 7 | 13 | 23 | 12 | 21 | 41 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,15 | 1,46 | 1,88 | 1,95 | 2,52 | 3,90 | 2,65 | 3,19 | 4,92 | 2,79 | 4,04 | 5,97 | 5,34 | 7,47 | 10,87 |
| Sensible cooling capacity | kW | 0,98 | 1,24 | 1,50 | 1,37 | 1,80 | 3,11 | 1,85 | 2,25 | 3,75 | 1,89 | 2,76 | 4,17 | 4,02 | 5,70 | 8,34 |
| Water flow rate system side | l/h | 200 | 253 | 327 | 337 | 437 | 679 | 458 | 551 | 856 | 482 | 695 | 1032 | 921 | 1292 | 1893 |
| Pressure drop system side | kPa | 4 | 4 | 13 | 7 | 11 | 25 | 12 | 16 | 36 | 7 | 12 | 28 | 10 | 19 | 38 |
| Fan | | | | | | | | | | | | | | | | |
| Type t | type | | Centrifugal | | | Centrifugal | | | Centrifugal | | | Centrifugal | | | Centrifugal | |
| Fan motor t | type | | Inverter | | | Inverter | | | Inverter | | | Inverter | | | Inverter | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate r | n³/h | 300 | 410 | 600 | 260 | 360 | 700 | 380 | 500 | 880 | 460 | 680 | 1100 | 750 | 1100 | 1750 |
| Input power | W | 10 | 13 | 18 | 12 | 16 | 55 | 14 | 20 | 61 | 10 | 14 | 33 | 16 | 33 | 135 |
| Signal 0-10V | % | 42 | 62 | 90 | 34 | 46 | 90 | 40 | 52 | 90 | 38 | 54 | 90 | 38 | 54 | 90 |
| Cassettes sound data (4) | | | | | | | | | | | | | | | | |
| Sound power level (5) | IB(A) | 35,0 | 38,0 | 46,0 | 35,0 | 38,0 | 53,0 | 41,0 | 47,0 | 61,0 | 39,0 | 43,0 | 50,0 | 44,0 | 50,0 | 60,0 |
| Sound pressure (6) | IB(A) | 26,0 | 29,0 | 37,0 | 26,0 | 30,0 | 44,0 | 32,0 | 38,0 | 52,0 | 30,0 | 34,0 | 41,0 | 35,0 | 41,0 | 51,0 |
| Diametre hydraulic fittings | | | | | | | | - | | | | | | | | |
| Main coil | Ø | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | | | 3/4" | |
| Secondary coil | Ø | | - | | | - | | | - | | | - | | | - | |
| Power supply | | | | | | | | | | | | | | | | |
| Power supply | | | 230V~50Hz | | | 230V~50Hz | ! | | 230V~50Hz | ! | | 230V~50Hz | ! | | 230V~50Hz | ! |

4-pipe

| | | | FCLI34 | | | FCL144 | | | FCLI64 | | | FCLI124 | |
|---------------------------------------|-------|------|--------|------|------|--------|-------|---------|--------|------|------|---------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 2 | 4 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 65 °C / 55 °C (1) | | | | | | | | | | | | | |
| Heating capacity | kW | 1,70 | 1,97 | 2,32 | 1,70 | 2,02 | 2,74 | 2,05 | 2,76 | 3,14 | 6,46 | 8,30 | 11,10 |
| Water flow rate system side | l/h | 152 | 171 | 203 | 153 | 178 | 240 | 194 | 219 | 279 | 551 | 727 | 977 |
| Pressure drop system side | kPa | 5 | 7 | 9 | 6 | 7 | 12 | 9 | 11 | 19 | 10 | 15 | 25 |
| Cooling performance 7 °C / 12 °C (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,15 | 1,46 | 1,88 | 1,80 | 2,32 | 3,59 | 2,29 | 2,76 | 4,25 | 4,55 | 6,19 | 8,67 |
| Sensible cooling capacity | kW | 0,98 | 1,24 | 1,50 | 1,26 | 1,66 | 2,87 | 1,59 | 1,93 | 3,22 | 3,35 | 4,64 | 6,64 |
| Water flow rate system side | l/h | 200 | 253 | 327 | 314 | 396 | 626 | 424 | 510 | 793 | 786 | 1068 | 1513 |
| Pressure drop system side | kPa | 4 | 7 | 10 | 6 | 10 | 23 | 16 | 23 | 50 | 10 | 20 | 38 |
| Fan | | | | | | | | | | | | | |
| Туре | type | | | | | | Centr | rifugal | | | | | |
| Fan motor | type | | | | | | Inve | erter | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate | m³/h | 300 | 410 | 600 | 260 | 360 | 700 | 380 | 500 | 880 | 750 | 1100 | 1750 |
| Input power | W | 10 | 13 | 18 | 12 | 16 | 55 | 14 | 20 | 61 | 16 | 33 | 135 |
| Signal 0-10V | % | 42 | 62 | 90 | 34 | 46 | 90 | 40 | 52 | 90 | 38 | 58 | 90 |
| Cassettes sound data (3) | | | | | | | | | | | | | |
| Sound power level (4) | dB(A) | 35,0 | 38,0 | 46,0 | 35,0 | 39,0 | 53,0 | 41,0 | 47,0 | 61,0 | 44,0 | 52,0 | 60,0 |
| Sound pressure (5) | dB(A) | 26,0 | 29,0 | 37,0 | 26,0 | 30,0 | 44,0 | 32,0 | 38,0 | 52,0 | 35,0 | 41,0 | 51,0 |
| Diametre hydraulic fittings | | | | | | | | | | | | | |
| Main coil | Ø | | | | | | 3, | /4" | | | | | |
| Secondary coil | Ø | | | | | | 1, | /2" | | | | | |
| Power supply | | | | | | | | | | | | | |
| Power supply | | | | | | | 230V- | ~50Hz | | | | | |

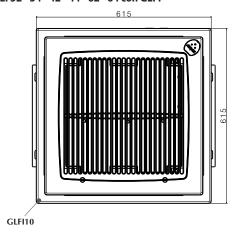
⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45°C/40°C; EUROVENT
(3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) For the cassettes, Aermec determines the value of the sound power on the basis of measurements carried out in accordance with the standard UNI EN 16583:15, in observance of the EUROVENT certification and the level of sound pressure (weighed A) measured in an environment with volume V=100m3, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.
(5) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.
(6) Sound pressure (weighed A) measured in an environment with volume V=100m3, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

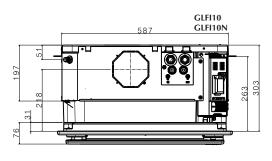
⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(3) For the cassettes, Aermec determines the value of the sound power on the basis of measurements carried out in accordance with the standard UNI EN 16583:15, in observance of the EUROVENT certification and the level of sound pressure (weighed A) measured in an environment with volume V=100m3, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

⁽⁵⁾ Sound pressure (weighed A) measured in an environment with volume V=100m3, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

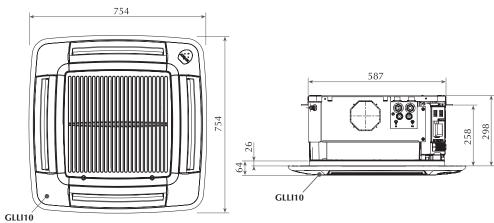
DIMENSIONS

Dimensions FCLI 32 - 34 - 42 - 44 - 62 - 64 con GLFI

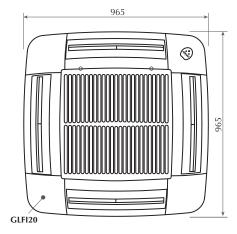


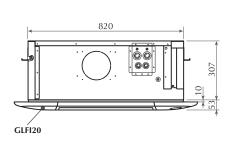


Dimensions FCLI 32 - 34 - 42 - 44 - 62 - 64 con GLLI



Dimensions FCLI 82 - 122 - 124 con GLLI





| Size | | | 122 | 124 | 32 | 34 | 42 | 44 | 62 | 64 | 82 |
|------------------------|------|----|-----|-----|----|----|----|----|----|----|----|
| Dimensions and weights | | | | | | | | | | | |
| | FCLI | kg | 36 | 36 | 21 | 21 | 22 | 21 | 22 | 23 | 35 |
| Empty weight | V2 | kg | 36 | 36 | 21 | 21 | 21 | 21 | 22 | 23 | 35 |
| | VL | kg | 35 | 35 | 20 | 21 | 20 | 21 | 22 | 22 | 34 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCW

Fan coils wall-mount installation



- · Versions with internal 2 or 3-way valve
- Compact dimensions





DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors.

To respond to the various system requirements, the product is configurable and available with or without (2- or 3-way) valve, as well as with or without control board, which ensures compatibility with various system requirements. Fan coils without control board must be necessarily combined with an external control device.

VERSIONS

2V Internal 2-way valve and microprocessor control
2VN Internal 2-way valve without microprocessor control
3V Internal 3-way valve and microprocessor control
3VN Internal 3-way valve without microprocessor control
VL Without internal valve but with microprocessor control
VLN Without internal valve and microprocessor control

FEATURES

Case

Aesthetically styled with flat panel:

Microprocessor control

- Air flow louvered louvers with horizontal adjustment facility
- Colors pure white pantone GRIS 1C RAL 9010.

Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Three-speed cross flow fan.

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filter

Fan coils are fitted with air filters easy to remove and clean.

Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW2 and PFW2)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW2 and PFW2)
- Night time Well-being Program (TLW2)
- Automatic season change (TLW2 and PFW2)
- Automatic re-start after power cut.

ACCESSORIES

For models with control board installed

FCW_2V, 3V, VL it is mandatory to select among the user interfaces designed for the FCW series (TLW2 or PFW2)

PFW2: Wired panel to control all the functions of the unit. It is supplied separately and can control only one unit. The panel must be installed on the wall and connected to the fan coil with the supplied cable, 7.5 meters long.

TLW2: Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.

TLW2 PFW2





For models without control board installed

FCW_2VN, 3VN, VLN a user interface must be mounted outside the fan coil, using either a visible or a recessed wall-mount installation.

To make the selection please refer to the "control panels" or "VMF system shett" where you will find comprehensive information on this topic.

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

ACCESSORIES COMPATIBILITY

VMF system

Control panels and dedicated accessories

| Model | Ver | 22 | 32 | 42 | 52 |
|----------|----------|----|----|----|----|
| PFW2 | 2V,3V,VL | • | • | • | • |
| TLW2 (1) | 2V,3V,VL | • | • | • | • |

(1) Accessory is required for operating the fan coil as an alternative to the wired remote control panel PFW2. mandatory accessory for versions with controller FCW_2V, FCW_3V, FCW_VL.

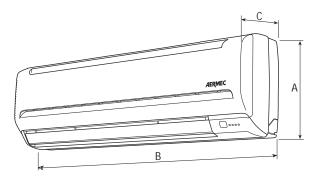
PERFORMANCE SPECIFICATIONS

2-pipe

| | | | FCW22V | L | | FCW32V | | | FCW42V | L | | FCW52VI | L | | FCW222 | 1 | | FCW223 | V |
|--|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|--|---|--|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | • | | | • | | | • | | |
| Heating capacity | kW | 2,85 | 3,66 | 4,29 | 3,73 | 4,51 | 5,24 | 6,44 | 7,84 | 8,56 | 8,20 | 13,06 | 15,28 | 2,35 | 3,02 | 4,03 | 2,35 | 3,02 | 4,03 |
| Water flow rate system side | I/h | 250 | 321 | 377 | 328 | 396 | 460 | 565 | 688 | 751 | 718 | 1145 | 1339 | 206 | 265 | 354 | 206 | 265 | 354 |
| Pressure drop system side | kPa | 4 | 6 | 9 | 9 | 12 | 16 | 16 | 22 | 26 | 10 | 23 | 30 | 9 | 14 | 24 | 9 | 14 | 24 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,42 | 1,82 | 2,14 | 1,85 | 2,24 | 2,61 | 3,21 | 3,90 | 4,26 | 4,10 | 6,50 | 7,60 | 1,17 | 1,50 | 2,00 | 1,17 | 1,50 | 2,00 |
| Water flow rate system side | l/h | 246 | 316 | 371 | 322 | 390 | 453 | 556 | 677 | 739 | 712 | 1129 | 1320 | 203 | 261 | 348 | 203 | 261 | 348 |
| Pressure drop system side | kPa | 4 | 6 | 8 | 9 | 12 | 16 | 15 | 22 | 25 | 10 | 22 | 29 | 9 | 14 | 24 | 9 | 14 | 24 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,37 | 1,74 | 2,05 | 1,78 | 2,15 | 2,50 | 3,07 | 3,74 | 4,08 | 4,40 | 6,50 | 7,45 | 1,10 | 1,45 | 1,90 | 1,10 | 1,45 | 1,90 |
| Sensible cooling capacity | kW | 1,16 | 1,47 | 1,73 | 1,51 | 1,82 | 2,04 | 2,59 | 3,10 | 3,47 | 3,30 | 5,05 | 5,80 | 0,92 | 1,20 | 1,55 | 0,92 | 1,20 | 1,55 |
| Water flow rate system side | I/h | 236 | 299 | 353 | 306 | 370 | 430 | 528 | 643 | 702 | 755 | 1115 | 1278 | 189 | 249 | 327 | 189 | 249 | 327 |
| Pressure drop system side | kPa | 5 | 7 | 9 | 8 | 11 | 15 | 15 | 21 | 26 | 12 | 24 | 30 | 9 | 14 | 23 | 9 | 14 | 23 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | Tangentia | al | | Tangentia | | | Tangentia | al | | Tangentia | l | | Tangentia | 1 | 1 | angentia | al |
| Fan motor | type | | ynchrono | | | synchrono | | | ynchrono | | | ynchrono | | | ynchrono | | | ynchrono | |
| Number | no. | | 1 | | 1 | 1 | | | 1 | | | 1 | - | | 1 | | | 1 | |
| Air flow rate | m³/h | 280 | 340 | 389 | 330 | 400 | 446 | 476 | 602 | 684 | 592 | 945 | 1179 | 270 | 330 | 380 | 270 | 330 | 380 |
| Input power | W | 23 | 24 | 27 | 22 | 23 | 27 | 31 | 41 | 48 | 38 | 55 | 75 | 23 | 24 | 27 | 23 | 24 | 27 |
| Fan coil sound data (4) | ** | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 | 44,0 | 49,0 | 54,0 | 44,0 | 54,0 | 60,0 | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 |
| Sound pressure | dB(A) | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 | 35,5 | 40,5 | 45,5 | 35,5 | 45,5 | 51,5 | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 |
| Diametre hydraulic fittings | ub(//) | 3 .,0 | 37/3 | ,5 | 3 .,0 | 37/3 | ,5 | 33/3 | .0,5 | .5/5 | 33/3 | .5/5 | 3.,3 | 3.,0 | 37/3 | , 5 | 3 .,0 | 37/3 | ,5 |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 3/4" | | | 1/2" | | | 1/2" | |
| Power supply | - | | | | | | | | | | 1 | -, . | | | | | | | |
| Power supply | | 2 | 30V~50H | Hz | 2 | 30V~50H | z | 2 | 30V~50H | -lz | 2 | 30V~50H | lz | 2 | 30V~50H | łz | 2 | 30V~50H | Hz |
| | | | FCW322 | v | | FCW323\ | | | FCW422 | v | | FCW423\ | , | | FCW522 | , | | FCW523 | v |
| | | | | | | | | | | | | | | | | | | | ¥ |
| | | | | | | | | | | | _ | | | _ | | | _ | | 3 |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 H |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | _ | | | _ | | | _ | | 3 H |
| | kW | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | 3 H | 1 L | 2 M | Н |
| Heating performance 70 °C / 60 °C (1) Heating capacity Water flow rate system side | kW I/h | 1 L | 2 M | 3 H 5,03 | 1 L | 2 M | 3 H 5,03 | 1 L | 2 M | 3 H 7,97 | 1 L | 2 M | 3 H 7,97 | 1 L | 2 M | 3 H | 1 L | 2 M | H 14,0 |
| Heating capacity Water flow rate system side | l/h | 1 L 3,25 286 | 2 M 4,36 383 | 3 H 5,03 442 | 1 L 3,25 286 | 2 M 4,36 383 | 3 H 5,03 442 | 1 L 6,29 552 | 2 M 7,23 635 | 3 H 7,97 699 | 1 L 6,29 552 | 2 M 7,23 635 | 3 H 7,97 699 | 1 L 8,04 704 | 2 M 11,80 1034 | 3 H 14,00 1227 | 1 L 8,04 704 | 2 M 11,80 1034 | 14,00 1227 |
| Heating capacity Water flow rate system side Pressure drop system side | | 1 L | 2 M | 3 H 5,03 | 1 L | 2 M | 3 H 5,03 | 1 L | 2 M | 3 H 7,97 | 1 L | 2 M | 3 H 7,97 | 1 L | 2 M | 3 H | 1 L | 2 M | 14,00 1227 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) | I/h kPa | 1 L 3,25 286 13 | 2 M 4,36 383 22 | 3 H 5,03 442 29 | 1 L 3,25 286 13 | 2 M 4,36 383 22 | 3 H 5,03 442 29 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | 3 H 14,00 1227 28 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | 14,00 1227 28 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity | I/h kPa kW | 1 L 3,25 286 13 | 2 M 4,36 383 22 2,17 | 3 H 5,03 442 29 | 3,25 286 13 | 2 M 4,36 383 22 2,17 | 3 H 5,03 442 29 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | 3 H 14,00 1227 28 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | H 14,00 1227 28 7,00 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side | I/h kPa kW I/h | 1 L 3,25 286 13 1,62 281 | 2 M 4,36 383 22 2,17 377 | 3 H 5,03 442 29 2,50 434 | 1 L 3,25 286 13 1,62 281 | 2 M 4,36 383 22 2,17 377 | 3 H 5,03 442 29 2,50 434 | 1 L 6,29 552 21 3,13 543 | 2 M 7,23 635 27 3,60 624 | 3 H 7,97 699 32 3,96 688 | 1 L 6,29 552 21 3,13 543 | 2 M 7,23 635 27 3,60 624 | 3 H 7,97 699 32 3,96 688 | 1 L 8,04 704 10 4,00 695 | 2 M 11,80 1034 21 5,90 1025 | 3 H 14,00 1227 28 7,00 1216 | 1 L 8,04 704 10 4,00 695 | 2 M 11,80 1034 21 5,90 1025 | H 14,00 1227 28 7,00 1216 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side | I/h kPa kW | 1 L 3,25 286 13 | 2 M 4,36 383 22 2,17 | 3 H 5,03 442 29 | 3,25 286 13 | 2 M 4,36 383 22 2,17 | 3 H 5,03 442 29 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 6,29 552 21 | 2 M 7,23 635 27 | 3 H 7,97 699 32 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | 3 H 14,00 1227 28 | 1 L 8,04 704 10 | 2 M 11,80 1034 21 | H 14,00 1227 28 7,00 1216 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) | I/h kPa kW I/h kPa | 1 L 3,25 286 13 1,62 281 | 2 M 4,36 383 22 2,17 377 22 | 3 H 5,03 442 29 2,50 434 29 | 3,25 286 13 1,62 281 | 2 M 4,36 383 22 2,17 377 22 | 3 H 5,03 442 29 2,50 434 29 | 1 L 6,29 552 21 3,13 543 20 | 2 M 7,23 635 27 3,60 624 26 | 3 H 7,97 699 32 3,96 688 31 | 1 L 6,29 552 21 3,13 543 20 | 2 M 7,23 635 27 3,60 624 26 | 3 H 7,97 699 32 3,96 688 31 | 8,04 704 10 4,00 695 | 2 M 11,80 1034 21 5,90 1025 22 | 3 H 14,00 1227 28 7,00 1216 30 | 8,04 704 10 4,00 695 | 2 M 11,80 1034 21 5,90 1025 22 | H 14,00 1227 28 7,00 1216 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity | I/h kPa kW I/h kPa | 3,25 286 13 1,62 281 13 | 2 M 4,36 383 22 2,17 377 22 | 3 H 5,03 442 29 2,50 434 29 | 3,25 286 13 1,62 281 13 | 2 M 4,36 383 22 2,17 377 22 | 3 H 5,03 442 29 2,50 434 29 | 1 L 6,29 552 21 3,13 543 20 | 2 M 7,23 635 27 3,60 624 26 | 3 H 7,97 699 32 3,96 688 31 | 1 L 6,29 552 21 3,13 543 20 | 2 M 7,23 635 27 3,60 624 26 | 3 H 7,97 699 32 3,96 688 31 | 1 L 8,04 704 10 4,00 695 11 | 2 M 11,80 1034 21 5,90 1025 22 | 3 H 14,00 1227 28 7,00 1216 30 | 8,04 704 10 4,00 695 11 | 2 M 11,80 1034 21 5,90 1025 22 | H 14,00 1227 28 7,00 1216 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40 °C(2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C(3) Cooling capacity Sensible cooling capacity | I/h kPa kW I/h kPa kW kW | 3,25 286 13 1,62 281 13 1,55 1,28 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 | 1 L 3,25 286 13 1,62 281 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 | 8,04 704 10 4,00 695 11 4,00 2,85 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 | 14,00 1227 28 7,00 1216 30 7,00 5,30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side | I/h kPa kW I/h kPa kW I/h kPa | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 686 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 686 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 | 14,00 1227 28 7,000 1216 30 7,000 5,300 1201 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side | I/h kPa kW I/h kPa kW kW | 3,25 286 13 1,62 281 13 1,55 1,28 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 | 1 L 3,25 286 13 1,62 281 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 | 8,04 704 10 4,00 695 11 4,00 2,85 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 | 14,00 1227 28 7,000 1216 30 7,000 5,300 1201 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C/40 °C(2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C/12 °C(3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan | I/h kPa kW I/h kPa kW I/h kPa kW I/h kPa | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 1 L 3,25 286 13 1,62 281 13 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 | 1 L 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | H 14,00 1222 28 7,000 1216 30 7,000 120 120 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type | I/h kPa kW I/h kPa kW kW I/h kPa type | 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 3,25 286 13 1,62 281 13 1,55 1,28 267 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 | H 14,000 1227 28 7,000 1216 30 7,000 5,300 1201 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor | I/h kPa kW I/h kPa kW kW I/h kPa type type | 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 3,25 286 13 1,62 281 13 1,55 1,28 267 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | H 14,000 1227 28 7,000 12166 30 7,000 5,300 12011 30 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number | I/h kPa kW I/h kPa kW I/h kPa type type no. | 1 L S S S S S S S S S S S S S S S S S S | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 all | 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 Tangentia | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 Tangentia | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | H 14,010 1227 28 7,000 1216 30 7,000 1201 30 30 30 30 30 30 30 30 30 30 30 30 30 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h | 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 16angentia 1 390 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 2Tangentia 1 390 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 As | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 As | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 13agentia 1 859 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1210 30 1201 30 1082 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 23 23 23 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | H 14,000 1227 28 7,000 1216 30 7,000 1201 30 1201 30 1082 1082 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power | I/h kPa kW I/h kPa kW I/h kPa type type no. | 1 L S S S S S S S S S S S S S S S S S S | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 all | 3,25 286 13 1,62 281 13 1,55 1,28 267 13 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 Tangentia | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 6,29 552 21 3,13 543 20 3,00 2,01 516 21 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 Tangentia | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 6,00 4,50 1030 23 | H 14,00 1222 28 7,000 1216 30 7,000 7,000 1200 30 1200 30 1200 30 1000 1000 10 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 24 Information 1 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 27 | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 2 Tangentia 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 1 L 6,29 552 21 3,13 543 20 2,01 516 21 As | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I | 3,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 Tangentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1201 30 1201 30 1082 75 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As | 2 M 11,80 1034 21 5,90 1025 22 22 4,50 1030 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | H 14,0 122 28 7,00 121 30 7,00 30 30 120 30 108 75 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) Sound power level | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 Iangentia 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 27 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 2Tangentia 1 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 I us 53,0 | 1 L 6,29 552 21 3,13 543 20 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I us 540 48 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 13agentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1210 30 1201 30 1082 75 60,0 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As | 2 M 11,80 1034 21 5,90 1025 22 22 22 6,00 4,50 1030 23 23 23 23 23 555 55 | 14,0 122 28 7,00 121 30 7,00 5,33 120 30 108 75 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) Sound power level Sound pressure | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 24 Information 1 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 27 | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 2 Tangentia 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 | 1 L 6,29 552 21 3,13 543 20 2,01 516 21 As | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 1 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I | 3,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 Tangentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1201 30 1201 30 1082 75 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As | 2 M 11,80 1034 21 5,90 1025 22 22 4,50 1030 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | 14,0 122 28 7,00 121 30 7,00 5,33 120 30 108 75 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W dB(A) | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 1angentia 390 23 48,0 39,5 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 27 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 21 Tangentia 390 23 48,0 39,5 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 I us 440 27 | 1 L 6,29 552 21 3,13 543 20 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 49,0 40,5 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 49,0 40,5 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I us 540 48 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 13angentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1210 30 1201 30 1082 75 60,0 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 23 23 23 24 25 25 25 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | 14,00 1222 28 7,00 1211 30 7,00 5,30 1200 30 108.2 75 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings Main coil | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W | 1 L 3,25 286 13 1,62 281 13 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 Iangentia 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 440 27 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 22 42,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 2Tangentia 1 390 23 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 I us 440 27 | 1 L 6,29 552 21 3,13 543 20 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 As 370 31 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I us 540 48 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 13agentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 1210 30 1201 30 1082 75 60,0 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As | 2 M 11,80 1034 21 5,90 1025 22 22 22 6,00 4,50 1030 23 23 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | 14,0 122 28 7,00 121 30 7,00 5,33 120 30 108 75 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (2) Heating capacity Water flow rate system side Pressure drop system side Cooling performance 7 °C / 12 °C (3) Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Pressure drop system side Fan Type Fan motor Number Air flow rate Input power Fan coil sound data (4) Sound power level Sound pressure Diametre hydraulic fittings | kW I/h kPa kW I/h kPa kW I/h kPa type type no. m³/h W dB(A) | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 22 42,0 34,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 1angentia 390 23 48,0 39,5 | 3 H 5,03 H 29 2,50 434 29 2,40 1,97 413 29 440 27 53,0 44,5 | 1 L 3,25 286 13 1,62 281 13 1,55 1,28 267 13 320 22 42,0 34,0 | 2 M 4,36 383 22 2,17 377 22 2,08 1,68 358 22 21 Tangentia 390 23 48,0 39,5 | 3 H 5,03 442 29 2,50 434 29 2,40 1,97 413 29 1 1 us 440 27 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 370 31 44,0 35,5 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 49,0 40,5 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 540 48 | 1 L 6,29 552 21 3,13 543 20 3,00 2,01 516 21 370 31 44,0 35,5 | 2 M 7,23 635 27 3,60 624 26 3,45 2,50 593 27 Iangentia 470 41 49,0 40,5 | 3 H 7,97 699 32 3,96 688 31 3,80 2,85 654 32 I us 540 48,55 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 As 44,0 35,5 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 13angentia 1 859 55 | 3 H 14,00 1227 28 7,00 1216 30 7,00 5,30 1201 30 1082 75 60,0 51,5 | 8,04 704 10 4,00 695 11 4,00 2,85 686 11 1 As 33,8 | 2 M 11,80 1034 21 5,90 1025 22 22 6,00 4,50 1030 23 23 23 23 24 25 25 25 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20 | H 14,00 1227 28 7,000 1216 30 7,000 1201 30 1082 75 60,0 51,5 |

⁽¹⁾ Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



| | | FCW22VL | FCW32VL | FCW42VL | FCW52VL | FCW222V | FCW223V |
|------------------------|----|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | * | |
| | mm | 298 | 305 | 360 | 365 | 298 | 298 |
| В | mm | 880 | 990 | 1170 | 1450 | 880 | 880 |
| C | mm | 205 | 210 | 220 | 230 | 205 | 205 |
| Empty weight | kg | 9 | 10 | 19 | 28 | 9 | 9 |
| | | FCW322V | FCW323V | FCW422V | FCW423V | FCW522V | FCW523V |
| Dimensions and weights | | | | | | | |
| A | mm | 305 | 305 | 360 | 360 | 365 | 365 |
| В | mm | 990 | 990 | 1170 | 1170 | 1450 | 1450 |
| C | mm | 210 | 210 | 220 | 220 | 230 | 230 |
| Empty weight | ka | 10 | 10 | 19 | 19 | 28 | 28 |

















FCWI

Fan coils wall-mount installation



- Versions with internal 2 or 3-way valve
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced temperature and humidity oscillations
- Fully silent operation





DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors.

The product is configurable and available with or without (2- or 3-way) valve which ensures compatibility with various system requirements.

VERSIONS

2V Internal 2-way valve and microprocessor control

3V Internal 3-way valve and microprocessor control

VL Without internal valve but with microproccessor control

FEATURES

Case

Aesthetically styled with flat panel:

- Air flow louvered louvers with horizontal adjustment facility
- Motorised deflector louvers that can be activated by remote control TLW3 for vertical orientation of the outlet air with steps fixed positions and continuous oscillation
- Colors pure white pantone GRIS 1C RAL 9010.

Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Brushless motor with continuous speed variation 0-100%.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filter

Fan coils are fitted with air filters easy to remove and clean.

Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW3/ PFW3)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW3/ PFW3)
- Night time Well-being Program (TLW3/ PFW3)
- Automatic season change (TLW3/ PFW3)
- Automatic re-start after power cut.
- Possibility of using a contact on the board to switch off the unit (window contact) or change the set point (presence contact) via microswitch.
- Controllable via RS485 port with Modbus RTU communication protocol.

ACCESSORIES

For models with control board installed

FCWI_2V, 3V, VL it is mandatory to select among the user interfaces designed for the FCWI series (TLW3 o PFW3)

PFW3: This accessory is essential for fan coil operation (as an alternative to TLW3). The PFW3 wired panel is supplied separately from the fan coil. It is used to set the main device operating parameters, and is essential for setting the Modbus address of the unit (handy only if you want to command the unit via the RS-485 port).

TLW3: Mandatory accessory. Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.





VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

| Model | Ver | 22 | 32 | 42 | 52 |
|--------------------------|----------|----|----|----|----|
| PFW3 (1) | 2V,3V,VL | • | • | • | • |
| TLW3 (1) | 2V,3V,VL | • | • | • | • |
| (1) Mandatory accessory. | | | | | |
| Model | Ver | 22 | 32 | 42 | 52 |
| VMF-485LINK | 2V,3V,VL | • | • | • | • |

PERFORMANCE SPECIFICATIONS

| | | | 411110011 | | | . 4111110 011 | | | | | | | | | | | | 411110000 | |
|---------------------------------------|-------|------|-----------|------|------|---------------|------|------|--------|-------|--------|--------|-------|------|--------|------|------|-----------|------|
| | | | CWI22V | | | CWI32V | | | CWI42V | | | CWI52V | | | CWI222 | | F | CW1223 | |
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 2,85 | 3,66 | 4,29 | 3,73 | 4,51 | 5,24 | 6,44 | 7,84 | 8,56 | 8,20 | 13,06 | 15,28 | 2,35 | 3,02 | 4,03 | 2,35 | 3,02 | 4,03 |
| Water flow rate system side | I/h | 250 | 321 | 377 | 328 | 396 | 460 | 565 | 688 | 751 | 718 | 1145 | 1339 | 206 | 265 | 354 | 206 | 265 | 354 |
| Pressure drop system side | kPa | 4 | 6 | 9 | 9 | 12 | 16 | 16 | 22 | 26 | 10 | 23 | 30 | 9 | 14 | 24 | 9 | 14 | 24 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,42 | 1,82 | 2,14 | 1,85 | 2,24 | 2,61 | 3,21 | 3,90 | 4,26 | 4,10 | 6,50 | 7,60 | 1,17 | 1,50 | 2,00 | 1,17 | 1,50 | 2,00 |
| Water flow rate system side | l/h | 246 | 316 | 371 | 322 | 390 | 453 | 556 | 677 | 739 | 712 | 1129 | 1320 | 203 | 261 | 348 | 203 | 261 | 348 |
| Pressure drop system side | kPa | 4 | 6 | 8 | 9 | 12 | 16 | 15 | 22 | 25 | 10 | 22 | 29 | 9 | 14 | 24 | 9 | 14 | 24 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,37 | 1,74 | 2,05 | 1,78 | 2,15 | 2,50 | 3,07 | 3,74 | 4,08 | 4,40 | 6,50 | 7,45 | 1,10 | 1,45 | 1,90 | 1,10 | 1,45 | 1,90 |
| Sensible cooling capacity | kW | 1,16 | 1,47 | 1,73 | 1,51 | 1,82 | 2,04 | 2,59 | 3,10 | 3,47 | 3,30 | 5,05 | 5,80 | 0,92 | 1,20 | 1,55 | 0,92 | 1,20 | 1,55 |
| Water flow rate system side | l/h | 236 | 299 | 353 | 306 | 370 | 430 | 528 | 643 | 702 | 755 | 1115 | 1278 | 189 | 249 | 327 | 189 | 249 | 327 |
| Pressure drop system side | kPa | 5 | 7 | 9 | 8 | 11 | 15 | 15 | 21 | 26 | 12 | 24 | 30 | 9 | 14 | 23 | 9 | 14 | 23 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Tang | ential | | | | | | | | |
| Fan motor | type | | | | | | | | | Inve | erter | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate | m³/h | 280 | 340 | 389 | 330 | 400 | 446 | 476 | 602 | 684 | 592 | 945 | 1179 | 270 | 330 | 380 | 270 | 330 | 380 |
| Input power | W | 13 | 17 | 22 | 14 | 18 | 22 | 24 | 29 | 33 | 22 | 36 | 55 | 13 | 17 | 22 | 13 | 17 | 22 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 | 44,0 | 49,0 | 54,0 | 44,0 | 54,0 | 60,0 | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 |
| Sound pressure | dB(A) | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 | 35,5 | 40,5 | 45,5 | 35,5 | 45,5 | 51,5 | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Main coil Section 1 | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 3/4" | | | 1/2" | | | 1/2" | |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V- | ~50Hz | | | | | | | | |

| | | ı | CW1322 | V | F | CWI323 | V | F | CW1422 | V | F | FCWI423 | V | FCWI522V | | | | CWI523 | V |
|---------------------------------------|-------|------|--------|------|------|--------|------|------|--------|------|--------|---------|------|----------|-------|-------|------|--------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н | L | М | Н |
| Heating performance 70 °C / 60 °C (1) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 3,25 | 4,36 | 5,03 | 3,25 | 4,36 | 5,03 | 6,29 | 7,23 | 7,97 | 6,29 | 7,23 | 7,97 | 8,04 | 11,80 | 14,00 | 8,04 | 11,80 | 14,00 |
| Water flow rate system side | I/h | 286 | 383 | 442 | 286 | 383 | 442 | 552 | 635 | 699 | 552 | 635 | 699 | 704 | 1034 | 1227 | 704 | 1034 | 1227 |
| Pressure drop system side | kPa | 13 | 22 | 29 | 13 | 22 | 29 | 21 | 27 | 32 | 21 | 27 | 32 | 10 | 21 | 28 | 10 | 21 | 28 |
| Heating performance 45 °C / 40 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 1,62 | 2,17 | 2,50 | 1,62 | 2,17 | 2,50 | 3,13 | 3,60 | 3,96 | 3,13 | 3,60 | 3,96 | 4,00 | 5,90 | 7,00 | 4,00 | 5,90 | 7,00 |
| Water flow rate system side | l/h | 281 | 377 | 434 | 281 | 377 | 434 | 543 | 624 | 688 | 543 | 624 | 688 | 695 | 1025 | 1216 | 695 | 1025 | 1216 |
| Pressure drop system side | kPa | 13 | 22 | 29 | 13 | 22 | 29 | 20 | 26 | 31 | 20 | 26 | 31 | 11 | 22 | 30 | 11 | 22 | 30 |
| Cooling performance 7 °C / 12 °C (3) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1,55 | 2,08 | 2,40 | 1,55 | 2,08 | 2,40 | 3,00 | 3,45 | 3,80 | 3,00 | 3,45 | 3,80 | 4,00 | 6,00 | 7,00 | 4,00 | 6,00 | 7,00 |
| Sensible cooling capacity | kW | 1,28 | 1,68 | 1,97 | 1,28 | 1,68 | 1,97 | 2,01 | 2,50 | 2,85 | 2,01 | 2,50 | 2,85 | 2,85 | 4,50 | 5,30 | 2,85 | 4,50 | 5,30 |
| Water flow rate system side | l/h | 267 | 358 | 413 | 267 | 358 | 413 | 516 | 593 | 654 | 516 | 593 | 654 | 686 | 1030 | 1201 | 686 | 1030 | 1201 |
| Pressure drop system side | kPa | 13 | 22 | 29 | 13 | 22 | 29 | 21 | 27 | 32 | 21 | 27 | 32 | 11 | 23 | 30 | 11 | 23 | 30 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | Tang | ential | | | | | | | | |
| Fan motor | type | | | | | | | | | Inve | erter | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | 1 | |
| Air flow rate | m³/h | 320 | 390 | 440 | 320 | 390 | 440 | 370 | 470 | 540 | 370 | 470 | 540 | 535 | 859 | 1082 | 535 | 859 | 1082 |
| Input power | W | 14 | 18 | 22 | 14 | 18 | 22 | 24 | 29 | 33 | 24 | 29 | 33 | 22 | 36 | 55 | 22 | 36 | 55 |
| Fan coil sound data (4) | | | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 42,0 | 48,0 | 53,0 | 42,0 | 48,0 | 53,0 | 44,0 | 49,0 | 54,0 | 44,0 | 49,0 | 54,0 | 44,0 | 54,0 | 60,0 | 44,0 | 54,0 | 60,0 |
| Sound pressure | dB(A) | 34,0 | 39,5 | 44,5 | 34,0 | 39,5 | 44,5 | 35,5 | 40,5 | 45,5 | 35,5 | 40,5 | 45,5 | 35,5 | 45,5 | 51,5 | 35,5 | 45,5 | 51,5 |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | | | 1/2" | | | 1/2" | | | 3/4" | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
 (3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

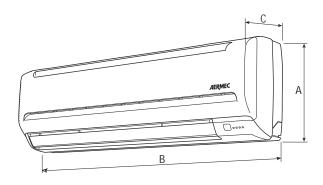
210

10

mm

kg

DIMENSIONS



| | | FCWI22VL | FCWI32VL | FCWI42VL | FCWI52VL | FCWI222V | FCWI223V |
|------------------------|----|----------|----------|----------|----------|----------|----------|
| Dimensions and weights | | | | | | | |
| A | mm | 298 | 305 | 360 | 365 | 298 | 298 |
| В | mm | 880 | 990 | 1170 | 1450 | 880 | 880 |
| C | mm | 205 | 210 | 220 | 230 | 205 | 205 |
| Empty weight | kg | 9 | 10 | 19 | 28 | 9 | 9 |
| | | FCWI322V | FCWI323V | FCWI422V | FCWI423V | FCWI522V | FCWI523V |
| Dimensions and weights | | | | | | | |
| A | mm | 305 | 305 | 360 | 360 | 365 | 365 |
| В | mm | 990 | 990 | 1170 | 1170 | 1450 | 1450 |

210

10

Aermec si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto con eventuale modifica dei relativi dati tecnici.

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220

19

220

19



230

28

Empty weight

230

28











UFB

Handling units Floating floor installation



- Low electrical consumption
- Fully silent operation
- Easy maintenance.



DESCRIPTION

Air handling terminal for installations in floating floor, also called floating or raised floor. Is a unit consisting of a fan unit with brushless inverter motor, enclosed in a metal structure with mixing chamber equipped with motor-driven damper, filter and electronic card. The use of these units is expected within a floating floor, often used in offices or equipment rooms for data centre and similar. In these systems there is often an air handling unit that cools the environment by entering the treated air in the underfloor and the buster units combine to improve the distribution in the rooms and, depending on the version, perform localized after-treatment. Using the two ambient air temperature sensors (return air) and the underfloor air temperature sensors, the electronic regulation through the positioning of the motor-driven damper, performs a mix to reach the temperature setpoint set with the local user interface (type VMF-E4) or by the supervision system.

VERSIONS

UFB20: booster unit for the distribution of the UTA treated air, the mix with room air for the room temperature control.

UFB20W: booster unit for UTA treated air distribution, the mix with the ambient air and any post-treatment using a water coil (heating, cooling, dehumidification) for the control of the room temperature.

UFB20HE: booster unit for UTA treated air distribution, the mix with the ambient air and any post-treatment using electric heating coil (only in heating) for the control of the room temperature.

FEATURES

- Unit is easy to install, as completely compatible with squares 600x600 mm used in these applications. Using the normal support systems of such floating floors allow to fully replace a square, obtaining a perfect joint, in line with the rest of the floor, with no "step".
- Centrifugal fan with Brushless inverter with continuous speed variation, 0-100%, which allows the exact adjustment to the requests of the internal environment without temperature fluctuations. Also allows an electric savings and better acoustic comfort.
- Compact dimensions, thickness 129 mm
- For a better air quality, the UFB are equipped with electro-statically pre-loaded filters.

ACCESSORIES ONLY AVAILABLE FOR UFB20W

USC4UFB: Condensate drainage device for use when natural run-off is not possible.

VCF-U: Kit consisting of motor-driven 3-way valve with insulating shell, insulated copper couplings and pipes. Versions with 230V~50Hz power supply.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PAN-TONE COOL GRAY 1C.

For more information about the VMF system, refer to the specific documentation available on the site www.aermec.com

TECHNICAL DATA

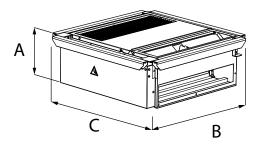
2-pipe

| | | UFB20W | |
|------|---|---------------------------------------|------|
| | 1 | 2 | 3 |
| | L | M | Н |
| | | | |
| kW | 1,91 | 2,53 | 2,96 |
| l/h | 167 | 222 | 260 |
| kPa | 3 | 4 | 6 |
| | | | |
| kW | 1,13 | 1,51 | 1,77 |
| l/h | 144 | 210 | 258 |
| kPa | | 5 | 6 |
| | | | |
| kW | 0,84 | 1,22 | 1,50 |
| kW | 0,67 | 1,00 | 1,24 |
| l/h | 144 | 210 | 258 |
| kPa | 3 | 5 | 6 |
| | | | |
| type | | Centrifugal | |
| type | | Inverter | |
| no. | | 1 | |
| m³/h | 140 | 220 | 290 |
| W | 5 | 8 | 12 |
| | V1 | V2 | V3 |
| | | | |
| Ø | | 1/2″ | |
| | | | |
| | <u> </u> | 230V~50Hz | |
| | kW I/h kPa kW I/h kPa kW type type no. m²/h W | L L L L L L L L L L | 1 |

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C (2) Room air 20 °C d.b.; Water (in) 50 °C; Water flow rate as in cooling mode (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

| - P-P- | | | | | | | |
|-----------------------------|------|-----|-------------|-----|-----|-------------|-----|
| | | | UFB20EH | | | UFB20 | |
| | | 1 | 2 | 3 | 1 | 2 | 3 |
| | | L | М | Н | L | M | Н |
| Fan | | | | | | | |
| Туре | type | | Centrifugal | | | Centrifugal | |
| Fan motor | type | | - | | | - | |
| Number | no. | | 1 | | | 1 | |
| Air flow rate | m³/h | 140 | 220 | 290 | 140 | 220 | 290 |
| Input power | W | 5 | 8 | 12 | 5 | 8 | 12 |
| Electrical wiring | | V1 | V2 | V3 | V1 | V2 | V3 |
| Diametre hydraulic fittings | | | | | | | |
| Main coil | Ø | | 1/2" | | | 1/2" | |
| Electric heater | | | | | | | |
| Input power | W | | 500 | | | - | |
| Maximum current | A | | 0,20 | | | - | |
| Power supply | | | | | | | |
| Power supply | | | 230V~50Hz | | | 230V~50Hz | |

DIMENSIONS AND WEIGHTS



| | | UFB20W | |
|-------------------|--------|--------|--|
| Dimensions and we | eights | | |
| A | mm | 219 | |
| В | mm | 571 | |
| C | mm | 572 | |
| Empty weight | kg | 17 | |

| | | UFB20HE | UFB20 |
|-------------------|--------|---------|-------|
| Dimensions and we | eights | | |
| A | mm | 219 | 219 |
| В | mm | 571 | 571 |
| C | mm | 572 | 572 |
| Empty weight | kg | 17 | 17 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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EHT

Active chilled beams

Primary air flow rate for single unit 17,0 ÷ 947,0 m³/h Nominal width 600 mm



- Easy installation, thanks to the integrated valves.
- Extremely high induction ratios.
- High primary air flow rate at required low useful static pressure.
- Double water-side heat exchanger with low pressure drops.
- 4-pipe unit that can be installed in both 2-pipe and 4-pipe systems.



DESCRIPTION

The EHT series is the new generation of active chilled beams developed by Aermec in partnership with Aachen**University** (Germany). These terminals are particularly easy to install because their dimensions are compatible with modular 600 x 600 mm suspended ceilings and they are already fitted with hydronic control components (each terminal has two 2-way valves, one for the hot circuit and one for the cold circuit, and actuators).

The ease of installation is also linked to other factors, such as:

- possibility of front or side hydraulic connection,
- primary air connection on both sides,
- possibility of adjacent installations,
- reduced terminal height.

The innovative nozzle geometry was developed and optimised with the help of CFD analyses and verified with accurate aeraulic tests in the Aermec and Aachen University laboratories.

The result of the research was a terminal with a high specific Watt per metre power, which reduces the number of terminals and thus lower costs and space requirements.

Aeraulic optimisation results in low pressure drops leading to reduced ventilation consumption and noise.

The use of two inclined heat exchangers maximises the exchange area and halves the hydraulic pressure drops, thereby providing maximum system efficiency.

Simple access to all components makes maintenance and cleaning quick and easy.

A system of this type is able to limit operating costs thanks to its high en-ergy efficiency, which also safeguards the environment. This is one of Aer-mec's foremost goals, as it skilfully develops its products combining maxi-mum practicality with the minimum environmental impact.

Chilled Beams are terminals that work in cooling mode with medium temperature water, so that the chillers feeding them can work at maximum efficiency. Room humidity is controlled by Primary Air Handling Units, this way mould and bacterial growth is prevented from forming because there is no condensation in the rooms.

APPLICATION

Chilled beams are suitable for ventilation, cooling and heating of rooms up to 4 m high. They can be installed in open space offices, airports, train stations and hospital wards and always ensure that the air is exchanged properly and evenly distributed by optimising the temperature throughout.







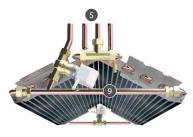
ADVANTAGES OF THE EHT ACTIVE CHILLED BEAMS RANGE

- Quiet operation, thanks to the innovative design of the nozzles and the lack of moving parts;
- Energy savings;
- Optimum environmental comfort because of the perfect air distribution;
- Excellent hygiene standards: the primary air is dehumidified during the initial treatment phase, so there is no condensate at all on the chilled beam, eliminating the root cause of mould proliferation caused by stagnating condensate;
- Optimum access to components: the components are accessed from below, just by opening the suction grille;
- Continuous service, thanks to the head positioning of two adjacent units:
- No maintenance: filtering is handled by the air treatment unit.

MAIN COMPONENTS



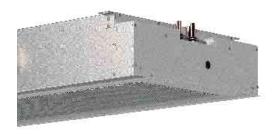
- 1. Plenum
- 2. Primary air inlet
- 3. Suspension brackets
- 4. Nozzles
- 5. Hydraulic connections
- **6.** Coils
- 7. Deflectors
- 8. Grille
- 9. Control component

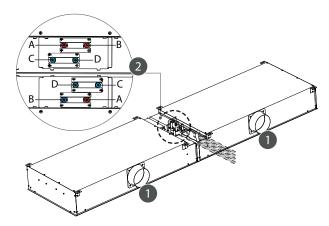


Hydraulic connections and control components on the hydronic side (two 2-way valves and actuators inside the terminal).

HYDRAULIC CONNECTIONS

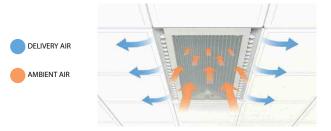
Hydraulic connections can be done on the side or front.





- A. Outlet
- **B.** Inlet
- C. Outlet
- D. Inlet
- 1. Primary air inlet
- 2. Hydraulic connections

AIR FLOW RATE



When the ambient air enters the exchange coils, it heats up or cools down depending on the operating season.

OPERATION

EHT chilled beams have been developed with the aim of obtaining high performance while still ensuring the highest degree of comfort in the occupied area.

This is achieved through the coanda effect and the inductive effect.

Coanda effect:

It keeps the air flow on the ceiling until it reaches residual speeds and temperatures that do not trigger critical situations, such as cold air currents.

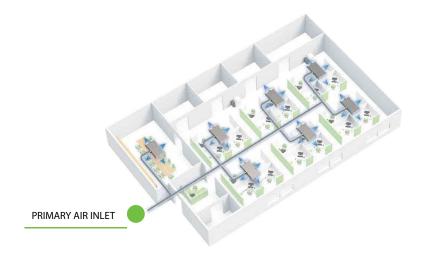


Coanda effect.

Inductive effect:

Primary fresh air is filtered and treated by a dedicated plant and sent by the fans therein to the chilled beam plenums. The suitable overpressure that is maintained in the plenums pushes the primary air through the nozzles which, due to the particular geometry of their profile, inject it into the environment. The high speed of the air coming out of the noz-

zles forms low-pressure areas around them, which draw in ambient air and force it through the heat exchange coils.



CONFIGURATOR

By suitably combining the numerous options available, it is possible to configure each model in such a way as to meet the most specific system requirements.

| Field | Description |
|-------|------------------|
| 1,2,3 | EHT |
| 4 | Nominal width |
| 6 | 600 mm |
| 5,6 | Nominal length |
| 09 | 900 mm |
| 12 | 1200 mm |
| 15 | 1500 mm |
| 18 | 1800 mm |
| 21 | 2100 mm |
| 24 | 2400 mm |
| 27 | 2700 mm |
| 30 | 3000 mm |
| 7 | Delivery range |
| 0 | XS air flow rate |
| 1 | S air flow rate |
| 2 | M air flow rate |
| 3 | L air flow rate |
| 4 | XL air flow rate |

ACCESSORIES

 $\mathbf{MCR} :$ Electronic control board to control the active chilled beams of the EHT family.

MCR-HP: The MCR-HP accessory is a humidity probe that can ensure the correct operation of chilled beams.

MZCSA: Air probe for controlling modulating or pressure independent

Accessories available for all versions.

GENERAL TECHNICAL DATA

| | | | | (| Cooling pe | rformance | S | | | Heatir | ng perform | nances | |
|----------------------|------------|--------------|----------|------------|------------------|-----------------------|--------------|------------|---------------------|------------|------------------|-----------------------|--------------|
| Size | Q_p | Δp_a | Δθ,ς | $Q_{wN,c}$ | $\Delta p_{w.c}$ | $\Delta \theta_{w.c}$ | P | $P_{w.c}$ | $\Delta\theta_{,h}$ | $Q_{wN,h}$ | $\Delta p_{w.h}$ | $\Delta \theta_{w.h}$ | $P=P_{w.h}$ |
| | M³/h | Pa | K | L/h | KPa | K | W | W | K | L/h | KPa | K | W |
| EHT 6090 | 17 | 50 | 9 | 141 | 1,2 | 2 | 383 | 325 | 30 | 69 | 0,9 | 4,1 | 328 |
| EHT 6090 | 24 | 100 | 9 | 155 | 1,4 | 2,2 | 478 | 396 | 30 | 69 | 0,9 | 4,7 | 372 |
| EHT 6090 | 29 | 150 | 9 | 155 | 1,4 | 2,4 | 535 | 436 | 31 | 69 | 0,9 | 5 | 398 |
| EHT 6091 | 34 | 50 | 9 | 141 | 1,2 | 2,4 | 511 | 395 | 31 | 69 | 0,9 | 5,2 | 406 |
| EHT 6091 | 47 | 100 | 9 | 151 | 1,4 | 2,7 | 630 | 470 | 31 | 69 | 0,9 | 5,6 | 455 |
| EHT 6091 EHT 6092 | 58 67 | 150 50 | 9 | 155 141 | 1,4 1,2 | 2,9 2,7 | 724 673 | 526 445 | 31 | 69 69 | 0,9 | 6,1 4,9 | 492 380 |
| EHT 6092 | 95 | 100 | 9 | 155 | 1,4 | 3 | 865 | 541 | 31 | 69 | 0,9 | 5,4 | 430 |
| EHT 6092 | 116 | 150 | 8 | 155 | 1,4 | 3,3 | 989 | 594 | 31 | 69 | 0,9 | 5,8 | 463 |
| EHT 6093 | 84 | 50 | 9 | 151 | 1,4 | 2,7 | 755 | 469 | 31 | 69 | 0,9 | 5,3 | 417 |
| EHT 6093 | 118 | 100 | 8 | 141 | 1,2 | 3,3 | 945 | 543 | 31 | 69 | 0,9 | 6,1 | 473 |
| EHT 6093 | 145 | 150 | 8 | 155 | 1,4 | 3,4 | 1111 | 617 | 31 | 69 | 0,9 | 6,5 | 510 |
| EHT 6094 | 135 | 50 | 9 | 151 | 1,4 | 2,8 | 950 | 490 | 31 | 69 | 0,9 | 5,8 | 463 |
| EHT 6094 | 190 | 100 | 8 | 151 | 1,4 | 3,3 | 1223 | 576 | 31 | 69 | 0,9 | 6,5 | 524 |
| EHT 6094 | 232 | 150 | 8 | 151 | 1,4 | 3,6 | 1426 | 635 | 32 | 69 | 0,9 | 7 | 565 |
| EHT 6120 | 24 | 50 | 9 | 137 | 1,6 | 2,6 | 500 | 418 | 31 | 73 | 1,1 | 5,7 | 482 |
| EHT 6120 | 34 | 100 | 9 | 144 | 1,8 | 3 | 616 | 500 | 31 | 73 | 1,1 | 6,6 | 549 |
| EHT 6120 | 42 | 150 | 8 | 144 | 1,8 | 3,3 | 697 | 554 | 32 | 73 | 1,1 | 7 | 593 |
| EHT 6121 | 49 | 50 | 8 | 130 | 1,4 | 3,3 | 668 | 501 | 32 | 73 | 1,1 | 7,3 | 605 |
| EHT 6121 | 68 | 100 | 8 | 144 | 1,8 | 3,6 | 833 | 601 | 32 | 73 | 1,1 | 8,4 | 686 |
| EHT 6121 | 83 | 150 | 8 | 141 | 1,7 | 4 | 938 | 655 | 32 | 73 | 1,1 | 8,8 | 738 |
| EHT 6122 | 97 | 50 | 8 | 137 | 1,6 | 3,6 | 902 | 571 | 31 | 73 | 1,1 | 6,9 | 566 |
| EHT 6122 | 137 | 100 | 8 | 141 | 1,7 | 4,1 | 1144 | 677 | 32 | 73 | 1,1 | 7,6 | 642 |
| EHT 6122 EHT 6123 | 167 121 | 150 50 | 8 8 | 141 144 | 1,7 1,8 | 4,5 3,6 | 1306 1011 | 737 599 | 32 32 | 73 73 | 1,1 1,1 | 8,1 7,4 | 691 622 |
| EHT 6123 | 171 | 100 | 8 | 144 | 1,8 | 4,2 | 1285 | 702 | 32 | 73 | 1,1 | 8,5 | 710 |
| EHT 6123 | 208 | 150 | 8 | 144 | 1,8 | 4,6 | 1472 | 763 | 33 | 73 | 1,1 | 9,1 | 764 |
| EHT 6124 | 194 | 50 | 8 | 126 | 1,4 | 4,1 | 1256 | 595 | 32 | 73 | 1,1 | 8,1 | 691 |
| EHT 6124 | 273 | 100 | 8 | 141 | 1,7 | 4,4 | 1652 | 722 | 33 | 73 | 1,1 | 9,4 | 790 |
| EHT 6124 | 334 | 150 | 8 | 141 | 1,7 | 4,8 | 1926 | 788 | 33 | 73 | 1,1 | 10,2 | 854 |
| EHT 6124 | 32 | 50 | 8 | 144 | 2,3 | 3,1 | 625 | 516 | 31 | 80 | 1,4 | 6,9 | 646 |
| EHT 6150 | 45 | 100 | 8 | 144 | 2,3 | 3,6 | 762 | 609 | 32 | 80 | 1,4 | 7,9 | 735 |
| EHT 6150 | 54 | 150 | 8 | 141 | 2,2 | 4 | 839 | 655 | 32 | 80 | 1,4 | 8,4 | 787 |
| EHT 6151 | 63 | 50 | 8 | 144 | 2,3 | 3,7 | 830 | 615 | 32 | 80 | 1,4 | 8,7 | 804 |
| EHT 6151 | 89 | 100 | 8 | 144 | 2,3 | 4,3 | 1024 | 721 | 33 | 80 | 1,4 | 10,1 | 920 |
| EHT 6151 | 109 | 150 | 8 | 144 | 2,3 | 4,7 | 1158 | 787 | 33 | 80 | 1,4 | 10,6 | 992 |
| EHT 6152 | 127 | 50 | 8 | 137 | 2,1 | 4,3 | 1117 | 684 | 32 | 80 | 1,4 | 8,2 | 755 |
| EHT 6152 | 178 | 100 | 8 | 144 | 2,3 | 4,8 | 1415 | 808 | 33 | 80 | 1,4 | 9,5 | 861 |
| EHT 6152 | 218 | 150 | 7 | 141 | 2,2 | 5,3 | 1614 | 871 | 33 | 80 | 1,4 | 10,2 | 931 |
| EHT 6153 | 158 | 50 | 8 | 144 | 2,3 | 4,3 | 1255 | 717 | 32 | 80 | 1,4 | 8,9 | 831 |
| EHT 6153 | 223 | 100 | 8 | 144 | 2,3 | 5 | 1590 | 830 | 33 | 80 | 1,4 | 10,2 | 951 |
| EHT 6153 | 272 254 | 150 50 | - 7 8 | 144 | 2,3 | 5,4 | 1829 | 902 741 | 33 | 80 | 1,4 | 10,9 | 932 |
| EHT 6154 EHT 6154 | 357 | 100 | 7 | 141 141 | 2,2 | 4,5 5,2 | 1606 2071 | 855 | 34 | 80 | 1,4 1,4 | 10,2 11,3 | 1062 |
| EHT 6154 | 436 | 150 | 7 | 144 | 2,3 | 5,6 | 2416 | 930 | 34 | 80 | 1,4 | 12,7 | 1158 |
| EHT 6180 | 39 | 50 | 8 | 141 | 2,7 | 3,6 | 725 | 592 | 32 | 84 | 1,6 | 8,3 | 811 |
| EHT 6180 | 55 | 100 | 8 | 141 | 2,7 | 4,2 | 880 | 693 | 33 | 84 | 1,6 | 9,5 | 927 |
| EHT 6180 | 67 | 150 | 8 | 141 | 2,7 | 4,6 | 982 | 754 | 33 | 84 | 1,6 | 10,5 | 1005 |
| EHT 6181 | 78 | 50 | 8 | 141 | 2,7 | 4,3 | 972 | 706 | 33 | 84 | 1,6 | 10,5 | 1020 |
| EHT 6181 | 110 | 100 | 8 | 141 | 2,7 | 5 | 1192 | 817 | 34 | 84 | 1,6 | 12,1 | 1171 |
| EHT 6181 | 135 | 150 | 7 | 141 | 2,7 | 5,4 | 1352 | 892 | 35 | 84 | 1,6 | 13,3 | 1275 |
| EHT 6182 | 157 | 50 | 8 | 137 | 2,6 | 4,9 | 1320 | 785 | 33 | 84 | 1,6 | 9,9 | 957 |
| EHT 6182 | 220 | 100 | 7 | 141 | 2,7 | 5,6 | 1653 | 903 | 34 | 84 | 1,6 | 11,3 | 1094 |
| EHT 6182 | 269 | 150 | 7 | 141 | 2,7 | 6 | 1899 | 982 | 34 | 84 | 1,6 | 12,2 | 1185 |
| EHT 6183 | 195 | 50 | 8 | 141 | 2,7 | 5 | 1475 | 811 | 34 | 84 | 1,6 | 11,1 | 1061 |
| EHT 6183 | 275 | 100 | 7 | 141 | 2,7 | 5,7 | 1874 | 937 | 34 | 84 | 1,6 | 12,8 | 1219 |
| EHT 6183 | 336 | 150 | 7 | 141 | 2,7 | 6,2 | 2149 | 1004 | 35 | 84 | 1,6 | 13,7 | 1319 |
| EHT 6184 | 313 | 50 | 7 | 141 | 2,7 | 5,2 | 1905 | 838 | 34 | 84 | 1,6 | 12,2 | 1185 |
| EHT 6184 | 441 | 100 | 7 | 141 | 2,7 | 5,9 | 2468 | 965 | 35 | 84 | 1,6 | 14,1 | 1366 |
| EHT 6184 | 538 | 150 | 7 | 141 | 2,7 | 6,4 | 2866 | 1033 | 36 | 84 | 1,6 | 15,2 | 1482 |
| EHT 6210 | 47 | 50 100 | 9 | 231 231 | 8,7 | 2,9 | 939 | 779 917 | 33 | 87 87 | 1,8 | 9,9 | 994 |
| EHT 6210 EHT 6210 | 66 80 | 150 | 8 | 231 | 8,7 9 | 3,4 | 1142 1278 | 1005 | 34 | 87 87 | 1,8 1,8 | 11,4 | 1138 1226 |
| EHT 6210 | 93 | 50 | 8 | 234 | 8,7 | 3,7 | 12/8 | 930 | 34 | 87 | 1,8 | 12,1 12,6 | 1252 |
| EHT 6211 | 131 | 100 | 8 | 227 | 8,4 | 4,1 | 1533 | 1087 | 35 | 87 | 1,8 | 14,5 | 1443 |
| EHT 6211 | 160 | 150 | 8 | 234 | 9 | 4,1 | 1744 | 1199 | 36 | 87 | 1,8 | 15,9 | 1573 |
| EHT 6212 | 186 | 50 | 8 | 234 | 9 | 3,9 | 1688 | 1054 | 34 | 87 | 1,8 | 11,9 | 1171 |
| EHT 6212 | 262 | 100 | 8 | 227 | 8,4 | 4,6 | 2112 | 1219 | 35 | 87 | 1,8 | 13,6 | 1347 |
| LIII UZ IZ | 202 | 100 | | 441 | ∪,⊤ | Τ,∪ | 2112 | 1417 | J.J | 07 | 1,0 | 13,0 | 137/ |

| | | | | (| Cooling pe | rformance | | | Heatii | ng perform | nances | | |
|-----------|----------------|-----------------|-----|-------------------|-------------------|-------------------|------|------------------|--------|------------|------------------|----------------------|--------------------|
| Size | Q _p | Δp _a | Δθ, | Q _{wN.c} | Δp _{w.c} | Δθ _{w.c} | Р | P _{w.c} | Δθ, | $Q_{wN,h}$ | $\Delta p_{w,h}$ | $\Delta\theta_{w,h}$ | P=P _{w.h} |
| | M³/h | Pa | K | L/h | KPa | K | W | W | K | L/h | KPa | K | W |
| EHT 6212 | 320 | 150 | 8 | 231 | 8,7 | 5 | 2418 | 1328 | 35 | 87 | 1,8 | 14,6 | 1460 |
| EHT 6213 | 233 | 50 | 8 | 234 | 9 | 4 | 1889 | 1095 | 34 | 87 | 1,8 | 12,8 | 1295 |
| EHT 6213 | 327 | 100 | 8 | 231 | 8,7 | 4,7 | 2378 | 1264 | 35 | 87 | 1,8 | 14,7 | 1491 |
| EHT 6213 | 400 | 150 | 7 | 234 | 9 | 5,1 | 2741 | 1378 | 36 | 87 | 1,8 | 16,4 | 1631 |
| EHT 6214 | 373 | 50 | 8 | 231 | 8,7 | 4,2 | 2400 | 1129 | 35 | 87 | 1,8 | 14,6 | 1461 |
| EHT 6214 | 524 | 100 | 8 | 223 | 8,2 | 5 | 3072 | 1287 | 36 | 87 | 1,8 | 17 | 1690 |
| EHT 6214 | 640 | 150 | 7 | 231 | 8,7 | 5,3 | 3600 | 1419 | 37 | 87 | 1,8 | 18,3 | 1839 |
| EHT 6240 | 54 | 50 | 8 | 231 | 10,1 | 3,2 | 1046 | 862 | 34 | 91 | 2,1 | 11,4 | 1176 |
| EHT 6240 | 76 | 100 | 8 | 227 | 9,8 | 3,8 | 1265 | 1006 | 35 | 91 | 2,1 | 13,1 | 1350 |
| EHT 6240 | 93 | 150 | 8 | 234 | 10,4 | 4,1 | 1428 | 1111 | 35 | 91 | 2,1 | 13,9 | 1461 |
| EHT 6241 | 108 | 50 | 8 | 234 | 10,4 | 3,8 | 1407 | 1039 | 35 | 91 | 2,1 | 14,5 | 1493 |
| EHT 6241 | 152 | 100 | 8 | 231 | 10,1 | 4,5 | 1719 | 1201 | 36 | 91 | 2,1 | 16,7 | 1726 |
| EHT 6241 | 186 | 150 | 8 | 231 | 10,1 | 4,9 | 1944 | 1310 | 37 | 91 | 2,1 | 18,3 | 1887 |
| EHT 6242 | 216 | 50 | 8 | 223 | 9,5 | 4,4 | 1886 | 1150 | 35 | 91 | 2,1 | 13 | 1382 |
| EHT 6242 | 304 | 100 | 8 | 231 | 10,1 | 5 | 2381 | 1345 | 36 | 91 | 2,1 | 15,6 | 1608 |
| EHT 6242 | 371 | 150 | 7 | 234 | 10,4 | 5,4 | 2728 | 1464 | 36 | 91 | 2,1 | 16,8 | 1746 |
| EHT 6243 | 270 | 50 | 8 | 195 | 7,2 | 5 | 2042 | 1122 | 35 | 91 | 2,1 | 14,7 | 1544 |
| EHT 6243 | 379 | 100 | 7 | 234 | 10,4 | 5,1 | 2685 | 1394 | 36 | 91 | 2,1 | 16,9 | 1782 |
| EHT 6243 | 463 | 150 | 7 | 231 | 10,1 | 5,6 | 3076 | 1498 | 37 | 91 | 2,1 | 18,8 | 1955 |
| EHT 6244 | 432 | 50 | 8 | 205 | 8 | 5 | 2657 | 1185 | 36 | 91 | 2,1 | 16,8 | 1746 |
| EHT 6244 | 608 | 100 | 7 | 234 | 10,4 | 5,3 | 3510 | 1438 | 38 | 91 | 2,1 | 19,5 | 2029 |
| EHT 6244 | 742 | 150 | 7 | 231 | 10,1 | 5,8 | 4071 | 1543 | 39 | 91 | 2,1 | 21 | 2211 |
| EHT 6270 | 61 | 50 | 8 | 231 | 11,5 | 3,5 | 1147 | 939 | 35 | 91 | 2,3 | 13,1 | 1368 |
| EHT 6270 | 86 | 100 | 8 | 231 | 11,5 | 4,1 | 1392 | 1099 | 36 | 91 | 2,3 | 15 | 1576 |
| EHT 6270 | 106 | 150 | 8 | 231 | 11,5 | 4,5 | 1566 | 1205 | 36 | 91 | 2,3 | 16,7 | 1729 |
| EHT 6271 | 123 | 50 | 8 | 231 | 11,5 | 4,2 | 1545 | 1126 | 36 | 91 | 2,3 | 16,6 | 1751 |
| EHT 6271 | 173 | 100 | 8 | 227 | 11,1 | 4,9 | 1889 | 1300 | 38 | 91 | 2,3 | 19,2 | 2031 |
| EHT 6271 | 211 | 150 | 7 | 231 | 11,5 | 5,3 | 2134 | 1415 | 39 | 91 | 2,3 | 21,1 | 2224 |
| EHT 6272 | 246 | 50 | 8 | 231 | 11,5 | 4,7 | 2100 | 1262 | 36 | 91 | 2,3 | 15,6 | 1633 |
| EHT 6272 | 346 | 100 | 7 | 227 | 11,1 | 5,5 | 2617 | 1438 | 37 | 91 | 2,3 | 18 | 1889 |
| EHT 6272 | 422 | 150 | 7 | 220 | 10,4 | 6 | 2979 | 1541 | 38 | 91 | 2,3 | 19,3 | 2054 |
| EHT 6273 | 307 | 50 | 8 | 227 | 11,1 | 4,9 | 2338 | 1292 | 37 | 91 | 2,3 | 17,7 | 1829 |
| EHT 6273 | 432 | 100 | 7 | 231 | 11,5 | 5,6 | 2962 | 1490 | 38 | 91 | 2,3 | 20,3 | 2123 |
| EHT 6273 | 527 | 150 | 7 | 231 | 11,5 | 6 | 3414 | 1618 | 39 | 91 | 2,3 | 21,7 | 2308 |
| EHT 6274 | 492 | 50 | 7 | 223 | 10,8 | 5,1 | 3009 | 1333 | 38 | 91 | 2,3 | 19,3 | 2056 |
| EHT 6274 | 692 | 100 | 7 | 227 | 11,1 | 5,8 | 3893 | 1535 | 40 | 91 | 2,3 | 23,4 | 2428 |
| EHT 6274 | 845 | 150 | 7 | 231 | 11,5 | 6,2 | 4545 | 1666 | 41 | 91 | 2,3 | 25,2 | 2654 |
| EHT 6300 | 69 | 50 | 8 | 231 | 12,9 | 3,8 | 1255 | 1020 | 35 | 95 | 2,6 | 14,4 | 1567 |
| EHT 6300 | 97 | 100 | 8 | 227 | 12,5 | 4,5 | 1508 | 1177 | 36 | 95 | 2,6 | 16,5 | 1808 |
| EHT 6300 | 118 | 150 | 8 | 223 | 12,1 | 4,9 | 1681 | 1279 | 37 | 95 | 2,6 | 18,3 | 1978 |
| EHT 6301 | 138 | 50 | 8 | 223 | 12,1 | 4,6 | 1672 | 1202 | 37 | 95 | 2,6 | 18,3 | 2009 |
| EHT 6301 | 194 | 100 | 7 | 227 | 12,5 | 5,3 | 2048 | 1387 | 39 | 95 | 2,6 | 21,1 | 2335 |
| EHT 6301 | 237 | 150 | 7 | 227 | 12,5 | 5,7 | 2317 | 1509 | 40 | 95 | 2,6 | 23,2 | 2562 |
| EHT 6302 | 276 | 50 | 7 | 227 | 12,5 | 5,1 | 2287 | 1347 | 37 | 95 | 2,6 | 17,2 | 1871 |
| EHT 6302 | 388 | 100 | 7 | 231 | 12,9 | 5,8 | 2873 | 1551 | 38 | 95 | 2,6 | 19,8 | 2169 |
| EHT 6302 | 473 | 150 | 7 | 227 | 12,5 | 6,3 | 3271 | 1659 | 39 | 98 | 2,7 | 21,3 | 2362 |
| EHT 6303 | 344 | 50 | 7 | 231 | 12,9 | 5,2 | 2567 | 1395 | 38 | 95 | 2,6 | 19,4 | 2099 |
| EHT 6303 | 484 | 100 | 7 | 227 | 12,9 | 6 | 3234 | 1585 | 39 | 95 | 2,6 | 22,4 | 2443 |
| EHT 6303 | 591 | 150 | 7 | 231 | 12,3 | 6,4 | 3733 | 1719 | 40 | 98 | 2,7 | 23,8 | 2660 |
| EHT 6304 | 551 | 50 | 7 | 231 | 12,9 | 5,4 | 3314 | 1437 | 39 | 98 | 2,7 | 21,3 | 2363 |
| EHT 6304 | 775 | 100 | 7 | 227 | 12,9 | 6,2 | 4272 | 1631 | 41 | 95 | 2,7 | 25,8 | 2801 |
| EHT 6304 | 947 | 150 | 7 | | | | | | | 95 | | | |
| ЕП 1 0304 | 94/ | 130 | | 231 | 12,9 | 6,6 | 4995 | 1768 | 42 | 90 | 2,6 | 27,7 | 3067 |

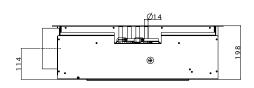
Key

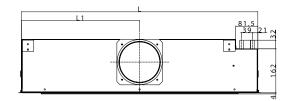
| | Reference values in cooling | | Reference values in heating |
|----------------------|--|----------------------|--|
| Θr | Reference room air temperature 26 °C | | Reference room air temperature 22 °C |
| Θw | Average temperature of the water | | Average temperature of the water |
| Θw_1 | Water inlet temperature 16 °C | | Water inlet temperature 50 °C |
| Θw_2 | Water Outlet Temperature | | Water Outlet Temperature |
| Θр | Primary air temperature 16 °C | | Primary air temperature 22 °C |
| ΛΩ. | Difference between the reference room air temperature and the average | Δθ, | Difference between the reference room air temperature and the average |
| Δθ,ς | temperature of the water entering the coil $\Delta\Theta = \Theta_r - \Theta_{w1}$ | Δ0 _{,h} | temperature of the water entering the coil $\Delta\Theta = \Theta_r - \Theta_{w1}$ |
| Q_p | Primary air flow rate | Q_p | Primary air flow rate |
| Δp_a | Pressure drop - air side | Δp_a | Pressure drop - air side |
| $Q_{wN,c}$ | Nominal water flow rate | $Q_{wN,h}$ | Nominal water flow rate |
| $\Delta p_{w,c}$ | Water side pressure drop | $\Delta p_{w,h}$ | Water side pressure drop |
| $\Delta\theta_{w,c}$ | Water side temperature difference | $\Delta\theta_{w,h}$ | Water side temperature difference |
| Р | Total cooling capacity | Р | Total heating capacity |

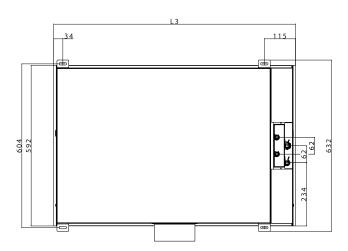
| | Reference values in cooling | | Reference values in heating |
|---|-----------------------------|---|-----------------------------|
| P | Water side cooling capacity | P | Water side heating capacity |

DIMENSIONS AND WEIGHTS

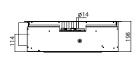
EHT6090 ÷ EHT6214



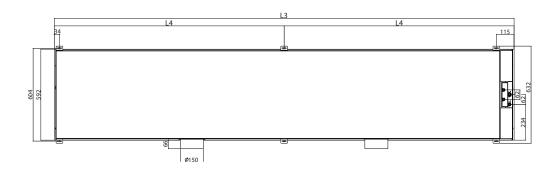




EHT6240 ÷ EHT6304







| | | FIIT coop | FUT coos | FUT (000 | FUT (000 | FUT cood | FUT case | FUT 4434 | FUT 4433 | FUT (422 | FUT 4434 |
|------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Dimensions and weights | | EHT 6090 | EHT 6091 | EHT 6092 | EHT 6093 | EHT 6094 | EHT 6120 | EHT 6121 | EHT 6122 | EHT 6123 | EHT 6124 |
| Width | mm | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 |
| Nominal length | mm | 900 | 900 | 900 | 900 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 |
| | mm | 872 | 872 | 872 | 872 | 872 | 1172 | 1172 | 1172 | 1172 | 1172 |
| L1 | mm | 436 | 436 | 436 | 436 | 436 | 586 | 586 | 586 | 586 | 586 |
| L2 | mm | - | - | - | - | - | - | - | - | - | - |
| L3 | mm | 892 | 892 | 892 | 892 | 892 | 1192 | 1192 | 1192 | 1192 | 1192 |
| L4 | mm | - | - | - | - | - | - | - | - | - | - |
| Net weight | kg | 26,00 | 26,00 | 26,00 | 26,00 | 26,00 | 35,00 | 35,00 | 35,00 | 35,00 | 35,00 |
| Gross weight | kg | 31 | 31 | 31 | 31 | 31 | 41 | 41 | 41 | 41 | 41 |
| | | EHT 6150 | EHT 6151 | EHT 6152 | EHT 6153 | EHT 6154 | EHT 6180 | EHT 6181 | EHT 6182 | EHT 6183 | EHT 6184 |
| Dimensions and weights | | 2111 0130 | 2111 0131 | 2111 0132 | 2111 0133 | 2111 0131 | 2111 0100 | 2111 0101 | 2111 0102 | 2111 0103 | 2111 0101 |
| Width | mm | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 |
| Nominal length | mm | 1500 | 1500 | 1500 | 1500 | 1500 | 1800 | 1800 | 1800 | 1800 | 1800 |
| | mm | 1472 | 1472 | 1472 | 1472 | 1472 | 1772 | 1772 | 1772 | 1772 | 1772 |
| L1 | mm | 736 | 736 | 736 | 736 | 736 | 886 | 886 | 886 | 886 | 886 |
| L2 | mm | - | - | - | - | - | - | - | - | - | - |
| L3 | mm | 1492 | 1492 | 1492 | 1492 | 1492 | 1792 | 1792 | 1792 | 1792 | 1792 |
| L4 | mm | - | - | - | - | - | - | - | - | - | - |
| Net weight | kg | 43,00 | 43,00 | 43,00 | 43,00 | 43,00 | 52,00 | 52,00 | 52,00 | 52,00 | 52,00 |
| Gross weight | kg | 52 | 52 | 52 | 52 | 52 | 62 | 62 | 62 | 62 | 62 |
| | | EHT 6210 | EHT 6211 | EHT 6212 | EHT 6213 | EHT 6214 | EHT 6240 | EHT 6241 | EHT 6242 | EHT 6243 | EHT 6244 |
| Dimensions and weights | | | | | | | | | | | |
| Width | mm | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 |
| Nominal length | mm | 2100 | 2100 | 2100 | 2100 | 2100 | 2400 | 2400 | 2400 | 2400 | 2400 |
| L | mm | 2072 | 2072 | 2072 | 2072 | 2072 | 2372 | 2372 | 2372 | 2372 | 2372 |
| L1 | mm | 1036 | 1036 | 1036 | 1036 | 1036 | 711 | 711 | 711 | 711 | 711 |
| L2 | mm | - | - | - | - | - | 711 | 711 | 711 | 711 | 711 |
| L3 | mm | 2092 | 2092 | 2092 | 2092 | 2092 | 2392 | 2392 | 2392 | 2392 | 2392 |
| <u>L4</u> | mm | - | - | - | - | - | 1196 | 1196 | 1196 | 1196 | 1196 |
| Net weight | kg | 61,00 | 61,00 | 61,00 | 61,00 | 61,00 | 69,00 | 69,00 | 69,00 | 69,00 | 69,00 |
| Gross weight | kg | 72 | 72 | 72 | 72 | 72 | 83 | 83 | 83 | 83 | 83 |
| | | EHT 6270 | EHT 6271 | EHT 6272 | EHT 6273 | EHT 6274 | EHT 6300 | EHT 6301 | EHT 6302 | EHT 6303 | EHT 6304 |
| Dimensions and weights | | | | | | | | | | | |
| Width | mm | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 | 592 |
| Nominal length | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 3000 | 3000 | 3000 | 3000 | 3000 |
| L | mm | 2672 | 2672 | 2672 | 2672 | 2672 | 2972 | 2972 | 2972 | 2972 | 2972 |
| L1 | mm | 881 | 881 | 881 | 881 | 881 | 886 | 886 | 886 | 886 | 886 |
| L2 | mm | 881 | 881 | 881 | 881 | 881 | 886 | 886 | 886 | 886 | 886 |
| L3 | mm | 2692 | 2692 | 2692 | 2692 | 2692 | 2992 | 2992 | 2992 | 2992 | 2992 |
| L4 | mm | 1346 | 1346 | 1346 | 1346 | 1346 | 1496 | 1496 | 1496 | 1496 | 1496 |
| Net weight | kg | 78,00 | 78,00 | 78,00 | 78,00 | 78,00 | 87,00 | 87,00 | 87,00 | 87,00 | 87,00 |
| Gross weight | kg | 93 | 93 | 93 | 93 | 93 | 103 | 103 | 103 | 103 | 103 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.Via Roma, 996 - 37040 Bevilacqua (VR) - Italy Tel. 0442633111 - Telefax 044293577 www.aermec.com



Control panels

Range of control panels for fan coils



 Wide range of panels for the simple, complete control of all the fan coil functions.

T-TOUCH AND T-TOUCH-I



Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Air and water probes supplied as standard.
- RS485 serial port for connection with the VMF network (MASTER).
- Connection with VMF-E4X user interface.
- Control of the 3 speeds of the asynchronous motors.
- 0-10 V and/or PWM output for brushless motors.
- Two triac outputs for control of valves and/or accessories.
- MS input (micro switch).
- Inverter fault input.
- $\boldsymbol{--}$ Visualisation of the speeds and the temperature set-point.
- NFC chip.
- Compatible with the ThermApp application (Android systems).

ThermApp

With the electronic thermostat T-TOUCH-I and **ThermApp** the operating mode and hourly weekly programming can be set by simply resting the smart device on the fan coil. Furthermore, numerous additional information like the alarms list, the closest Sat, etc., can be accessed with the graphic interface of the app.

Available for Android operating systems.



Compatibility with the hydronic terminals

| Thermostat | Unit | Range |
|------------|------|------------------|
| T-TOUCH | FCZ | AS - U - UA - DS |
| T-TOUCH-I | FCZI | AS - U |

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---|---|-------------------------------|
| without accessories | | |
| with 2-way valve | | |
| with 3-way valve | | |
| with Cold Plasma purifier | | |
| with 2-way valve and Cold Plasma purifier | | |
| with 3-way valve and Cold Plasma purifier | — r — supplied as standard supplied as st | |
| with heater | · supplied as standard | supplied as standard |
| with 2-way valve and heater | | |
| with 3-way valve and heater | - | |
| cooling only, with heater for heating | | |
| cooling only, with heater for heating and | | |
| 3-way valve | | |
| 4-pipe systems | | |
| with 2-way valve | cumplied as standard | cumplied as standard |
| with 3-way valve | supplied as standard supplied as stand | |

AER503IR



Characteristics and equipment supplied as standard

- Flush installation (503-502 module box, or plasterboard boxes).
- Management of fan coils with asynchronous and brushless motor.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Control of 1 modulating valve 0-10.
- Temperature and ventilation control.
- Internal air probe.
- Compatibility with VMF-IR.
- Overall dimensions (mm): H=86 W=125 D=46.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil and INVERTER fancoil, without on board controls.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---|-----------------------|-------------------------------|
| without accessories | | |
| with 2-way valve | | |
| with 3-way valve | | |
| with Cold Plasma purifier | | |
| with 2-way valve and Cold Plasma purifier | | |
| with 3-way valve and Cold Plasma purifier | | |
| with heater | | |
| with 2-way valve and heater | SA5 | SW5 |
| with 3-way valve and heater | | |
| cooling only, with heater for heating | | |
| cooling only, with heater for heating and | | |
| 3-way valve | | |
| with 2-way valve and radiant panel (heat- | | |
| ing) | | |
| radiant panel only (heating) | | |
| 4-pipe systems | | |
| with 2-way valve | SA5 | SW5 |
| with 3-way valve | נאנ | 2412 |

TX



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Management of fan coils with asynchronous and brushless motor.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe

210

Management of fins and external contact.

Overall dimensions (mm): H=148 - W=70 - D=27.5.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil and INVERTER fancoil, without on board controls.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---|-----------------------|-------------------------------|
| without accessories | | |
| with 2-way valve | | |
| with 3-way valve | | |
| with Cold Plasma purifier | | |
| with 2-way valve and Cold Plasma purifier | | |
| with 3-way valve and Cold Plasma purifier | | SW3/SW5 |
| with heater | | |
| with 2-way valve and heater | SA5 | |
| with 3-way valve and heater | 383 | |
| cooling only, with heater for heating | | |
| cooling only, with heater for heating and | | |
| 3-way valve | | |
| with 2-way valve and radiant panel (heat- | | |
| ing) | | |
| radiant panel only (heating) | - | |
| with twin delivery (Dualjet) | | |
| 4-pipe systems | | |
| with 2-way valve | SA5 | SW3/SW5 |
| with 3-way valve | כאכ | 3003/3003 |

PXAI

www.aermec.com



Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal water probe (2.5m) and air probe (2.3m).
- Management of fins and external contact.
- Overall dimensions (mm): H=148 W=70 D=27.5.

Compatibility with the hydronic terminals

Compatible with all fancoil of the series FCZ-P, FCZI-P.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---|------------------------|-------------------------------|
| without accessories | | |
| with 2-way valve | _ | |
| with 3-way valve | _ | |
| with Cold Plasma purifier | | supplied as standard |
| with 2-way valve and Cold Plasma purifier | | |
| with 3-way valve and Cold Plasma purifier | | |
| with heater | supplied as stalidard | supplied as stalldard |
| with 2-way valve and heater | _ | |
| with 3-way valve and heater | | |
| cooling only, with heater for heating | _ | |
| cooling only, with heater for heating and | Ī | |
| 3-way valve | | |
| 4-pipe systems | | |
| with 2-way valve | - cumplied as standard | cumplied as standard |
| with 3-way valve | supplied as stalldard | supplied as standard |

TXB AND TXBI



Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe.
- Water probe (supplied) for controlling the minimum or maximum depending on the system, with the possibility to fit an external air probe (SAS).

Compatibility with the hydronic terminals

TXB

Compatible with all fancoil of the series FCZ.

TXBI

Compatible with all fancoil of the series FCZI.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---|------------------------|-------------------------------|
| without accessories | | • |
| with 2-way valve | _ | |
| with 3-way valve | | |
| with Cold Plasma purifier | _ | |
| with 2-way valve and Cold Plasma purifier | | |
| with 3-way valve and Cold Plasma purifier | | |
| with heater | | |
| with 2-way valve and heater | | |
| with 3-way valve and heater | - supplied as standard | supplied as standard |
| cooling only, with heater for heating | _ | |
| cooling only, with heater for heating and | Ī | |
| 3-way valve | | |
| with 2-way valve and radiant panel (heat- | - | |
| ing) | | |
| radiant panel only (heating) | - | |
| with twin delivery (Dualjet) | | |
| 4-pipe systems | | |
| with 2-way valve | - cumplied as standard | cumplied ac etandard |
| with 3-way valve | - supplied as standard | supplied as standard |

WMT05



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Manual season changeover.
- Temperature and ventilation control (3 speeds).
- Internal air probe.
- Overall dimensions (mm): H=75 W=127 D=25.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 pipe systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---------------------|--------------------------|-------------------------------|
| without accessories | internal | - |

WMT06



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Manual season changeover.
- Thermostat control of 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe.
- Overall dimensions (mm): H=75 W=127 D=25.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---------------------|--------------------------|-------------------------------|
| without accessories | internal | |
| with 2-way valve | internal | - |
| 4-pipe systems | | |
| with 2-way valve | internal | - |

WMT10



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe.

— Overall dimensions (mm): H=75 - W=127 - D=25.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---------------------------------------|--------------------------|-------------------------------|
| without accessories | | |
| with 2-way valve | | |
| with heater | internal | - |
| with 2-way valve and heater | | |
| cooling only, with heater for heating | | |
| 4-pipe systems | | |
| with 2-way valve | internal | - |

FMT10



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves, or 1 valve and 1 heater.
- Temperature and ventilation control (3 speeds).
- Air probe (supplied) to be installed on the fan coil intake.
- Overall dimensions (mm): H=80 W=118 D=40.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil and INVERTER fancoil, without on board controls.

Compatibility with 2 and 4 pipes systems

| 2-pipe systems | Air temperature probe | Water temperature probe |
|---------------------------------------|-----------------------|-------------------------------|
| without accessories | | |
| with 2-way valve | | |
| with heater | supplied as standard | - |
| with 2-way valve and heater | | |
| cooling only, with heater for heating | | |
| 4-pipe systems | | |
| with 2-way valve | supplied as standard | - |









VMF

Multi Flow Variable Systems



- Components for plant management:
- Air conditioning
- Heating
- Hot domestic water (HDW)



DESCRIPTION

Hydronic system management and control unit for air conditioning, heating and domestic hot water production.

The VMF system ensures the complete control of every single component of a hydronic system, both local and centralised, through communication between the various system components, managing the performance without neglecting the end user's request for comfort at any time, but reaching it as efficiently as possible, with consequent energy savings

Summing up the advantages of a such an innovative control with the flexibility of a hydronic system, you achieve a more effective and efficient alternative to variable refrigerant volume (VRF) systems.

The VMF system can manage different areas, each of which has one of the following types of terminals:

- Fancoil;
- Radiant only (heating only);
- Fancoil + Radiant;
- MZC Zone;
- MZC Zone + Radiant.

FEATURES

The VMF system is extremely flexible, to the extent that it offers various control and management steps, also expandable at different times:

- 1. Control of a single zone;
- Control of a Master/Slave zone (one MASTER fancoil and up to 5 SLAVE fancoils):
- Control of a network consisting of several independent zones (one MASTER fancoil and up to 5 SLAVE fancoils for each zone, or another er of the types of terminals provided);
- Control of several zones, plus heat pump management (if compatible with the VMF system);
- 5. Control of several zones, of heat pumps and management of the domestic hot water:
- Control of several zones, heat pumps, domestic hot water production and additional pumps (up to a maximum of 12 using 3 additional VMF-CRP modules);

7. Control of several zones, heat pumps, domestic hot water production, additional pumps and management of up to 3 heat recovery units (with the possibility to manage up to 3 VMF-VOC probes) and/or a boiler;

CONTROL PANELS

The VMF system can pilot and manage a different number of areas, depending on the panel used:

- VMF-E6 / E5: maximum 64 zones (so a maximum of 64 Master Fancoil, each of which will pilot 5 Slave, for a total of 384 Fancoil);
- VMF-RCC: maximum 10 zones (then a maximum of 10 Master Fancoil, each of which will pilot 5 Slave, for a total of 50 Fancoil).

In addition to the centralised control provided by the VMF-E6/E5/RCC panel, the MASTER system terminal must be equipped with a local control interface; this interface can be mounted on board the terminal itself or on a wall panel.

Via panel VMF-E6/E5/RCC it is possible to control several functions:

- Identify the various zones by giving each of them a name that characterises it:
- Control and set the ON-OFF function and the temperature setting of each zone;
- Set and manage the heat pump temperature;
- Schedule time slots.

Simple installation of the fancoil network thanks to the SELF-DETECTION function of the MASTER fancoils.

SYSTEM COMPONENTS

Command interfaces

VMF-E2D: Machine user interface to be combined with VMF-E19 accessory, dedicated to the DUALJET range. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E2H: User interface on the machine, to be combined with the VMF-E19 accessory, dedicated to the HL series. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E2Z: User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E0,VMF-E19, VMF-E19I.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 ed VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE 425C (METAL).

VMF-E4X: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 ed VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.

VMF-E5: Black recessed panel with backlit graphic LCD display and capacitive keyboard, it allows the centralised command/control of a complete hydronic system consisting of Fan coils: up to 64 fan coil zones consisting of 1 master + up to 5 slaves; Chiller/heat pump (accessory required for RS 485 interface), pumps: up to 12 configurable zone pumps; boiler: boiler hook-up management for hot water production; heat recovery units: up to 3 hook-ups per programmable recovery units based on time periods and/or by measuring air quality with the VMF-VOC accessory; domestic water module: complete management of the domestic hot water production through the control of: diverter valve/pump, integrated heating element, storage tank temperature sensor, anti-legionella circuit system. The panel is available in both white (VMF-E5B) and black (VMF-E5N).

VMF-E6: White flush-mounting panel with 4.3 inch colour touchscreen. For the centralised command/control of a complete hydronic/aeraulic system consisting of: fan coils (up to 64 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (up to 4), MZC accessories (up to 5) for the management of radiant panels (using a suitable number of VMF-REB accessories, up to 64 radiant panels associated with the fan coil zones and up to 32 radiant panels associated with the zones served by MZC), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/Os, control of heat recovery units and VOC probes (up to 4).

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-RCC: Flush-mounting panel for the centralised command/control of a complete hydronic system consisting of: fan coils (up to 10 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (if you want to manage up to 4 outdoor units, the MULTICONTROL accessory must be provided), MZC accessories (up to 3) for the management of radiant panels using a suitable number of VMF-REB 1/VMF-REB 2/VMF-REB 3 accessories, (up to 28 zones total), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/O, control of heat recovery units and VOC probes (up to 3).

VMF-VOC: Air quality detection accessory.

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Thermostats

VMF-EOX: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, allows for the creation of a single fan coil area (1 master + maximum

5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch. The thermostat is protected by a fuse.

VMF-E19: Thermostat, accessory to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, it allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: 1. In systems with two pipes and a heating element, the latter can be activated as a complete replacement, allowing you to warm the environment exclusively with this accessory. 2. Dualjet features are available in standard software and can be set via dip switch. 3. Economy contact/presence sensor. 4. Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory). 5. Serial RS485, ModBus RTU protocol, for centralised control. 6. Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump. 7. Compatibility with the VMF-IO accessory. Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E19I: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features:In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/ presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E19Y: Thermostat, accessory to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, it allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: 1. In systems with two pipes and a heating element, the latter can be activated as a complete replacement, allowing you to warm the environment exclusively with this accessory. 2. Dualjet features are available in standard software and can be set via dip switch. 3. Economy contact/presence sensor. 4. Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory). 5. Serial RS485, ModBus RTU protocol, for centralised control. 6. Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump. 7. Compatibility with the VMF-IO accessory. Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-FMD: The VMF-FMD panel is a flush-mounted thermostat that, when used in stand-alone mode or within a centralised supervisory system (BMS), can manage plant requirements where an actuator (a

heating furniture valve, radiant system head, zone valve, zone circulator) is to be controlled as a function of room temperature.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-YCC: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YCCH: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

VMF-YICC: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YICCH: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

Intake grids and distribution of the air, compulsory accessory

GLF10M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLF110M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF110N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLL10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL20N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL1100N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X panel as well, and suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL120N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as

well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

Probes

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Modules

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

VMF-REB: Only available for VMF-E6, manages the heads of the radiant panels (each module can manage up to 8), one pump and up to 3 thermostats through digital input.

VMF-REB 1: Only available for VMF-RCC, manages the heads of 10 radiant panels associated with fancoil and up to 10 thermostats through digital input

VMF-REB 2: Only available for VMF-RCC, manages the heads of 10 radiant panels associated with MZC and up to 10 thermostats through digital input

VMF-REB 3: Only available for VMF-RCC, manages the heads of 8 radiant panels associated with MZC and up to 10 thermostats through digital input

VMF-SIT3: Interface boards that allow connecting thermostats VMF-EOX to a fan coil with a high-power motor (for selection, see all the thermostat and fan coil documentation); if a VMF-E19 thermostat is used, this accessory will be replaced by the normal SIT3

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

Electrical panels for DHW (Domestic hot water management for other suppliers' storage tanks, not available for VMF-E6)

VMF-ACS3KM: Electrical panel for the complete command/control of a hot water storage tank (3-way control valve, integrated single phase 3kW resistor command, anti-legionella function and temperature sensor)

VMF-ACS3KTN: Electrical panel for the complete command/control of a hot water storage tank (3-way control valve, integrated three-phase 3kW resistor command, anti-legionella function and temperature sensor)

VMF-ACS6KTN: Electrical panel for the complete command/control of a hot water storage tank (3-way control valve, integrated three-phase 6kW resistor command, anti-legionella function and temperature sensor)

VMF-ACS8KTN: Electrical panel for the complete command/control of a hot water storage tank (3-way control valve, integrated three-phase 8kW resistor command, anti-legionella function and temperature sensor).

Heat storage tank with integrated domestic hot water management (no need to be combined with a VMF-ACS accessory)

SAF: Thermal buffer tank kit with instantaneous Domestic Hot Water production. For more information about SAF refer to the dedicated documentation.

Control systems

AERCONNECT: Web server allowing local and remote supervision of the VMF-E6 system (by appropriately configuring the DNS service sup-

plied with the purchase of the accessory) via web pages; allows simultaneous access for up to 8 users

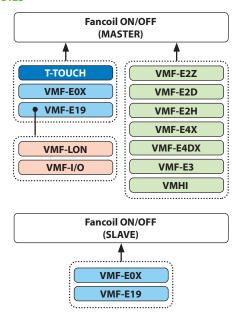
VMF-485EXP: This accessory, specifically mounted in the VMF-E5/RCC panel, adds an RS485 serial communication port to external supervision (BMS, Aerweb or Aermec supervision systems). Not available for VMF-F6.

VMF-MONITORING: PC software to monitor and control the operation of one or several VMF controlled systems. Through the VMF-E5/RCC expansion board, the VMF-485EXP panel provides the RS485 serial communication port used by the VMF-MONITORING application for controlling the hydronic system. The maximum number of controllable systems, each with VMF-E5 and VMF-485EXP expansion, is 10 (not available for VMF-E6).

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF FAN COILS



Type of component:

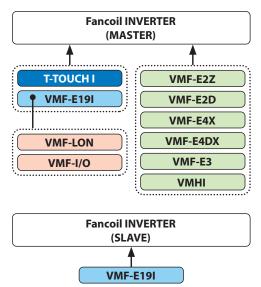
Thermostat board
Thermostat board + Command interface
Expansion board
Command interfaces

Note:

- Each fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The E19 thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

| Command interfaces | Compatible ranges or models | | |
|--|-----------------------------|--|--|
| | FCZ (AS-AF-U-UA-UF) | | |
| VMF-E2Z | FCZ-D (DS) | | |
| | FCZ-H | | |
| VMF-E2D | Omnia UL (S) | | |
| VMF-E2H | Onmia HL (S-SM) | | |
| | FCZ (AS-AF-U-UA-UF) | | |
| | FCZ-D (DS) | | |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | FCZ-H | | |
| VMF-E4X (E4DX) / VMF-E3 | Omnia UL (S) | | |
| | Omnia radiant | | |
| | FCW | | |
| | FCZ (AS-AF-U-UA-UF-DS) | | |
| T-TOUCH | FCZ-D (DS) | | |
| | FCZ-H | | |
| | FCZ (AS-AF-U-UA-UF) | | |
| | FCZ-D (DS) | | |
| VMHI | FCZ-H | | |
| VIVIHI | Omnia UL (S) | | |
| | Omnia radiant | | |
| | FCW | | |

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER FAN COILS



Type of component:

Thermostat board

Thermostat board + Command interface

Expansion board

Command interfaces

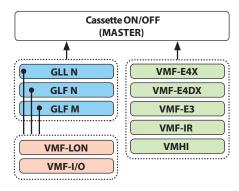
Note:

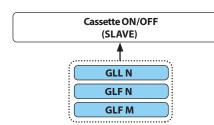
- Each fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The E19I thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

| Command interfaces | Compatible ranges or models |
|--------------------|-----------------------------|
| VME E27 | FCZI (AS-AF-U-UF) |
| VMF-E2Z | FCZI-H |
| VMF-E2D | Omnia ULI (S) |

| Command interfaces | Compatible ranges or models |
|-------------------------|-----------------------------|
| | FCZI (AS-AF-U-UF) |
| | FCZI-D (DS) |
| VMF-E4X (E4DX) / VMF-E3 | Omnia ULI (S) |
| | Omnia radiant plus |
| | FCWI |
| T-TOUCH-I | FCZI (AS-AF-U-UF) |
| | FCZI (AS-AF-U-UF) |
| | FCZI-D (DS) |
| VMHI | Omnia ULI (S) |
| | Omnia radiant plus |
| | FCWI |

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF CASSETTES





Type of component:

Delivery suction grille with thermostat board



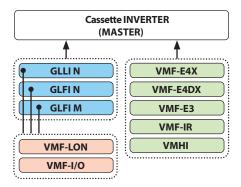
Command interfaces

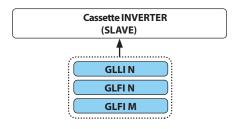
Note:

- Each Cassette (Master or Slave) must have a delivery recovery grille (fitted with a VMF thermostat board) selected from those that are compatible;
- The delivery recovery grilles can manage just one expansion board, selected from those available;
- Each Master Cassette must have just ONE command interface, selected from those that are compatible:

| Command interfaces | Compatible ranges or models |
|--------------------------|-----------------------------|
| \\MF E4V (E4DV) /\\MF E3 | FCL |
| VMF-E4X (E4DX) / VMF-E3 | VEC |
| VMF-IR | FCL |
| VIVIE-IK | VEC |
| VMHI | FCL |
| VIVIHI | VEC |

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER CASSETTES





Type of component:

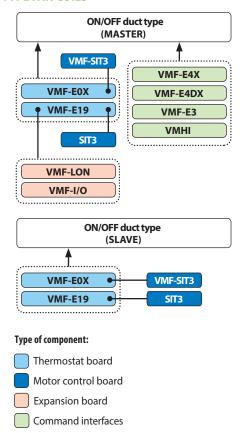
- Delivery suction grille with thermostat board
- Expansion board
- Command interfaces

Note:

- Each Cassette (Master or Slave) must have a delivery recovery grille (fitted with a VMF thermostat board) selected from those that are compatible;
- The delivery recovery grilles can manage just one expansion board, selected from those available;
- Each Master Cassette must have just ONE command interface, selected from those that are compatible:

| Command interfaces | Compatible ranges or models |
|-------------------------|-----------------------------|
| VMF F4V (F4DV) /VMF F2 | FCLI |
| VMF-E4X (E4DX) / VMF-E3 | VEC-I |
| VAAE ID | FCLI |
| VMF-IR | VEC-I |
| NAME II | FCLI |
| VMHI | VEC-I |

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF DUCT TYPE FAN COILS

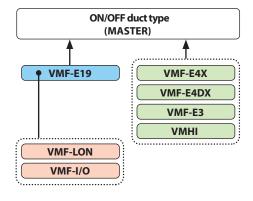


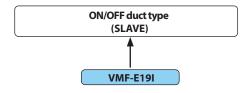
Note:

- Each duct type fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The VMF-E19 thermostat board can manage just one expansion board, selected from those available;
- Depending on the size of the duct type fan coil, a motor control board (VMF-SIT3 or SIT3) may be needed;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

| Command interfaces | Compatible ranges or models |
|-------------------------|-----------------------------|
| | VED |
| | VES |
| VME EAV (EADV) /VME EX | FCZ PO |
| VMF-E4X (E4DX) / VMF-E3 | FCY |
| | Omnia UL (P - PAF) |
| | FCZ-H (P-PO) |
| | VED |
| | VES |
| VMHI | FCZ PO |
| VIVITI | FCY |
| | Omnia UL (P - PAF) |
| | FCZ-H (P-PO) |

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER DUCT TYPE FAN COILS





Type of component:

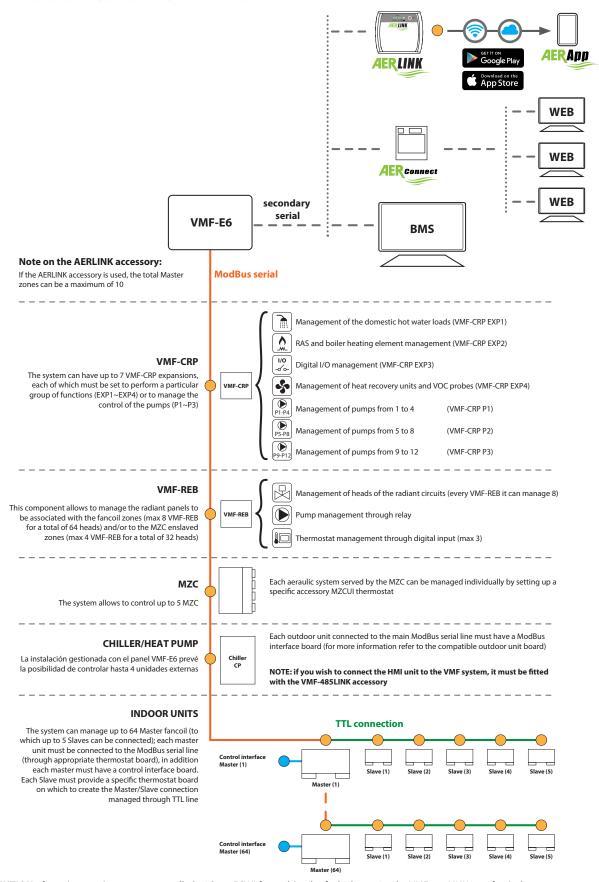
- Thermostat board
- Expansion board
- Command interfaces

Note:

- Each duct type fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The VMF-E19I thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

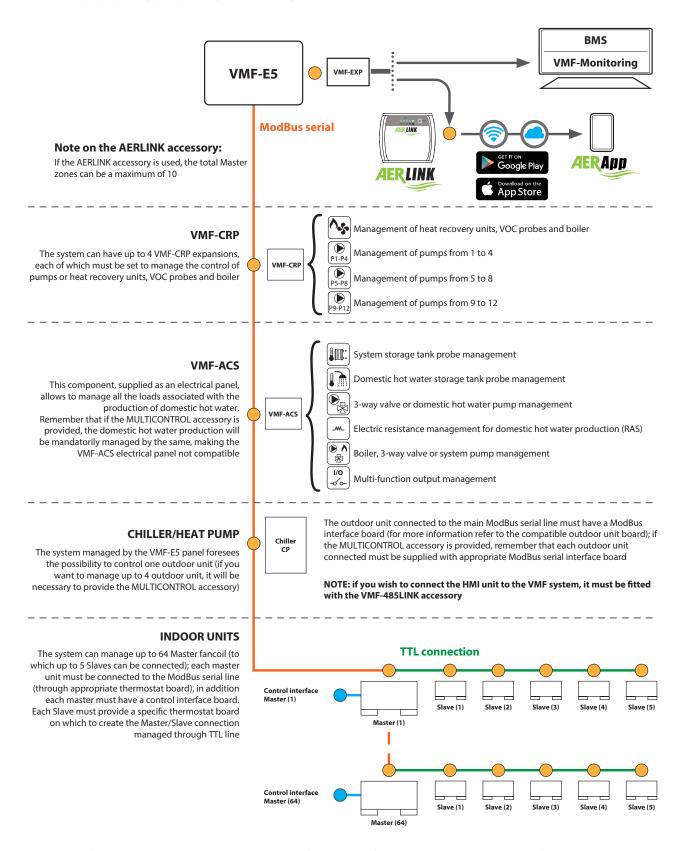
| Command interfaces | Compatible ranges or models |
|-----------------------------|-----------------------------|
| | VED I |
| VMF-E4X (E4DX) / VMF-E3 | VES I |
| | FCZI P |
| VIVIF-E4X (E4DX) / VIVIF-E3 | FCYI |
| | Omnia UL (P - PAF) |
| | FCZI-H (P-PO) |
| | VED I |
| | VES I |
| \/A111 | FCZI P |
| VMHI | FCYI |
| | Omnia UL (P - PAF) |
| | FCZI-H (P-PO) |

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-E6



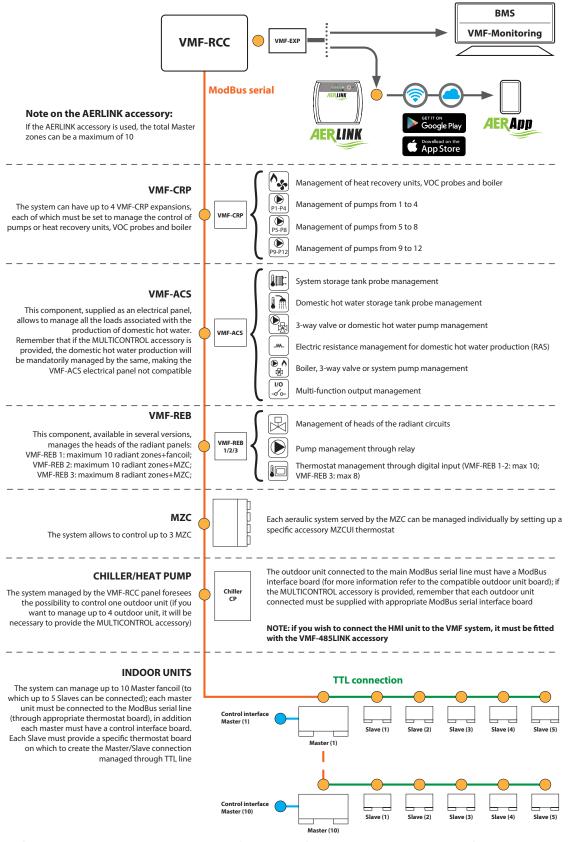
ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-E5



ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-RCC



ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

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Aermec S.p.A.

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HEAT RECOVERY UNIT

Objective air quality and energy saving: Aermec offers a large range of air-air heat recovery units for industrial and commercial systems and for Controlled Mechanical Ventilation Systems for residential.

The heat recovery units, provided with appropriate accessories (heat exchange coils, heat pump refrigerant circuit, etc.), actively participate in the air treatment providing an important contribution to the air conditioning of the spaces served.

The catalogued range of nominal available air flow rates is from 100 to around 16.100 m³/h.

| HEAT RECO | VERY UNITS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|-----------|---|----------------------|--------------------|--------------------|------|
| REPURO | With cross-flow exchanger | 100-650 | | | 224 |
| TRS | Heat recovery unit with enthalpy exchanger | 250-1300 | | | 230 |
| RPLI | Counter-current flow heat recovery unit with inverter motor | 200-3900 | | | 232 |
| RTD | Thermodynamic recovery unit with integrated heat pump | 1100-3200 | | | 237 |
| RPF | High performance heat recovery unit with cross-current recuperator | 790-4250 | | | 241 |
| URX-CF | With cross-flow exchanger and refrigerant circuit | 750-3300 | | | 245 |
| URHE-CF | High efficiency version with cross-flow exchanger and refrigerant circuit | 1000-3300 | | | 249 |
| ERSR | High-efficiency heat recovery with rotary recovery unit | 1100-16100 | | | 253 |









REPURO

Duct-type residential 2-way ventilation unit with heat recovery



- Compact dimensions
- High efficiency, reaching 90%+ (UNI EN 308)
- Cold Plasma purifier



DESCRIPTION

REPURO it's an innovative counter-current heat recovery system that ensures the right air renewal in closed areas.

Thanks to the use of high-efficiency heat exchangers, REPURO allows fresh air to be delivered at a temperature close to that of the room itself, thereby cutting the energy costs that would be incurred with a traditional air renewal system or mechanical ventilation alone.

VERSIONS

Standard

R With electric heater

Installation:

- Ceiling or wall: (100 170)Floor or wall: (250 650)
- **FFATURES**
- Hexagonal heat recovery unit with a wider heat exchange surface;
- Free-standing sheet metal panels with internal insulation;
- Standard G4 filter on the fresh air;
- Standard G2 filter on the exhaust air;
- The filters can be removed for cleaning or replacement;
- The unit has in-built protection against frost formation with temperatures > -10°C;
- High efficiency, reaching 90%+ (UNI EN 308);
- Free cooling in the intermediate seasons, thanks to the automatic bypass function (not available for sizes 100 - 170);
- "No frost" bypass (RePuro 450-550-650), with PLSNF accessory;
- Air purification guaranteed by the Cold Plasma purifier: this is able
 to reduce pollutants, decomposing their molecules using electrical
 charges, causing the water molecules in the air to split into positive
 and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The
 device is able to eliminate 90% of the bacteria. The result is clean,
 ionised air, free of foul odours;
- Nominal flow rate regulation from 0 to 100%;
- Centrifugal fans, directly coupled with the EC high-efficiency brushless electric motors with variable speed (ERP2015);

- Microprocessor control card that interfaces with the VMF system;
- Unit control by means of a wired panel (supplied as standard) with an innovative, extremely thin design. The functions are controlled via the capacitive touch keypad with an LCD display. Electric heater activation in the RePuro_R versions. Light grey front panel PANTONE COOL GRAY 1C;
- The 6-metre wired cable is provided as standard;
- Easy mounting on the wall (with the plate (provided), or on the flo or (with the AVM accessory);
- Can adapt to an existing system;
- Compact dimensions;
- Silent operation;
- Filter change warning;
- Installation requires a condensate discharge system.

ACCESSORIES

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

AVM: Anti-vibration supports.

SSR: Wall mounting kit

FF7: Filter with F7 efficiency class for the fresh air.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

KSAE: External air sensor.

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

Plenum with multi-way flange

PLS350: Vacuum delivery plenum with sound-absorbent covering and multi-way flange.

PLS350E: Delivery plenum with sound-absorbent covering and multi-way flange. An electric heater is housed inside.

PLS350L: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp is housed inside.

PLS350LE: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp and an electric heater are housed inside.

PLS350W: Delivery plenum with sound-absorbent covering and multi-way flange. A water coil with condensate collection tray is housed inside; it is mandatory to fit the water valve as well.

PLS350WE: Delivery plenum with sound-absorbent covering and multi-way flange. An electric heater and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLS350WL: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLS350WLE: Delivery plenum with sound-absorbent covering and multi-way flange. A water coil with condensate collection tray, a germicidal lamp, and an electric heater are housed inside; it is mandatory to fit the water valve as well.

PLS650: Vacuum delivery plenum with sound-absorbent covering and multi-way flange.

PLS650E: Delivery plenum with sound-absorbent covering and multi-way flange. An electric heater is housed inside.

PLS650L: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp is housed inside.

PLS650LE: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp and an electric heater are housed inside.

PLS650W: Delivery plenum with sound-absorbent covering and multi-way flange. A water coil with condensate collection tray is housed inside; it is mandatory to fit the water valve as well.

PLS650WE: Delivery plenum with sound-absorbent covering and multi-way flange. An electric heater and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLS650WL: Delivery plenum with sound-absorbent covering and multi-way flange. A germicidal lamp and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLS650WLE: Delivery plenum with sound-absorbent covering and multi-way flange. A water coil with condensate collection tray, a germicidal lamp, and an electric heater are housed inside; it is mandatory to fit the water valve as well.

Plenum with 1-way flange

PLSM350: Vacuum delivery plenum with sound-absorbent covering and 1-way flange.

PLSM350E: Delivery plenum with sound-absorbent covering and 1-way flange. An electric heater is housed inside.

PLSM350L: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp is housed inside.

PLSM350LE: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp and an electric heater are housed inside

PLSM350W: Delivery plenum with sound-absorbent covering and 1-way flange. A water coil with condensate collection tray is housed inside; it is mandatory to fit the water valve as well.

PLSM350WE: Delivery plenum with sound-absorbent covering and 1-way flange. An electric heater and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLSM350WL: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well.

PLSM350WLE: Delivery plenum with sound-absorbent covering and 1-way flange. A water coil with condensate collection tray, a germicidal lamp, and an electric heater are housed inside; it is mandatory to fit the water valve as well.

PLSM650: Vacuum delivery plenum with sound-absorbent covering and 1-way flange.

PLSM650E: Delivery plenum with sound-absorbent covering and 1-way flange. An electric heater is housed inside.

PLSM650L: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp is housed inside.

PLSM650LE: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp and an electric heater are housed inside

PLSM650W: Delivery plenum with sound-absorbent covering and 1-way flange. A water coil with condensate collection tray is housed inside; it is mandatory to fit the water valve as well.

PLSM650WE: Delivery plenum with sound-absorbent covering and 1-way flange. An electric heater and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well

PLSM650WL: Delivery plenum with sound-absorbent covering and 1-way flange. A germicidal lamp and a water coil with condensate collection tray are housed inside; it is mandatory to fit the water valve as well

PLSM650WLE: Delivery plenum with sound-absorbent covering and 1-way flange. A water coil with condensate collection tray, a germicidal lamp, and an electric heater are housed inside; it is mandatory to fit the water valve as well.

VMF system

VMF-E5B: White recessed panel with backlit graphic LCD display and capacitive keypad for centralised command/control of a complete hydronic system.

VMF-E5N: Black recessed panel with backlit graphic LCD display and capacitive keypad for centralised command/control of a complete hydronic system.

VMF-VOC: Air quality detection accessory.

ACCESSORIES COMPATIBILITY

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 | |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| BMConverter | .,R | • | • | • | • | • | • | • | |
| KSAE | .,R | • | • | • | • | • | • | • | |
| VMF-CRP | R | | | | | | | • | |

Plenum with multi-way flange

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| PLS350 | | • | | | | | | |
| PLS350E | | • | | | | | | |
| PLS350L | | • | | | | | | |
| DICAFOLE | | • | • | • | • | | | |
| PLS350LE | R | • | • | • | | | | |
| PLS350W (1) | | • | | | | | | |
| PLS350WE (1) | | • | | | | | | |
| PLS350WL (1) | | • | | | | | | |
| PLS350WLE (1) | | • | | | | | | |
| PLS650 | .,R | | | | | • | • | • |
| PLS650E | .,R | | | | | • | • | • |
| PLS650L | .,R | | | | | • | • | • |
| PLS650LE | .,R | | | | | • | • | • |
| PLS650W (1) | .,R | | | | | • | • | • |
| PLS650WE (1) | .,R | | | | | • | • | • |
| PLS650WL (1) | .,R | | | | | • | • | • |
| PLS650WLE (1) | .,R | | | | | • | | |

⁽¹⁾ It is mandatory to also provide for the water valve.

Water valves

3 way valve kit

| , | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
| .,R | VCH |
| 2 way valve kit | | | | | | | |
| Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
| R | VCHD |

Installation accessories

Condensate drip

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| BC10 (1) | .,R | • | • | • | • | • | • | • |
| BC20 (2) | .,R | | | | | | | |

Anti-vibration support feet

| Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| .,R | - | - | AVM | AVM | AVM | AVM | AVM |
| | | | | | | | |

The accessory cannot be fitted on the configurations indicated with -

Wall mounting kit

| | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|
| ľ | .,R | - | - | SSR | SSR | SSR | SSR | SSR |

The accessory cannot be fitted on the configurations indicated with -

External air sensor

| Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .,R | BMConverter |

⁽¹⁾ For vertical installation.
(2) For horizontal installation.

Accessories

Plenum with multi-way flange

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| PLS350 | | • | | | | | | |
| PLS350E | | • | | | | | | |
| PLS350L | | • | | | | | | |
| PLS350LE | | • | • | • | • | | | |
| LUSSOULE | R | • | • | • | | | | |
| PLS350W (1) | | • | | | | | | |
| PLS350WE (1) | | • | | | | | | |
| PLS350WL (1) | | • | | | | | | |
| PLS350WLE (1) | | • | | | | | | |
| PLS650 | .,R | | | | | • | • | • |
| PLS650E | .,R | | | | | • | • | |
| PLS650L | .,R | | | | | • | • | • |
| PLS650LE | .,R | | | | | • | • | • |
| PLS650W (1) | .,R | | | | | • | • | |
| PLS650WE (1) | .,R | | | | | • | • | • |
| PLS650WL (1) | .,R | | | | | • | • | • |
| PLS650WLE (1) | .,R | | | | | • | • | • |

⁽¹⁾ It is mandatory to also provide for the water valve.

Plenum with 1-way flange

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| PLSM350 | .,R | • | • | • | • | | | |
| PLSM350E | .,R | • | • | • | • | | | |
| PLSM350L | .,R | • | • | • | • | | | |
| PLSM350LE | .,R | • | • | • | • | | | |
| PLSM350W (1) | .,R | • | • | • | • | | | |
| PLSM350WE (1) | .,R | • | • | • | • | | | |
| PLSM350WL (1) | .,R | • | • | • | • | | | |
| PLSM350WLE (1) | .,R | • | • | • | • | | | |
| PLSM650 | .,R | | | | | • | • | • |
| PLSM650E | .,R | | | | | • | • | • |
| PLSM650L | .,R | | | | | • | • | • |
| PLSM650LE | .,R | | | | | • | • | • |
| PLSM650W (1) | .,R | | | | | • | • | • |
| PLSM650WE (1) | .,R | | | | | • | • | • |
| PLSM650WL (1) | .,R | | | | | • | • | • |
| PLSM650WLE (1) | .,R | | | | | | | |

⁽¹⁾ It is mandatory to also provide for the water valve; if you intend to use the system with post heating battery, or in any case in all those cases in which the air temperature in the channels could cause condensation on the external surfaces of the pipes, it is mandatory to adequately isolate the components of the system.

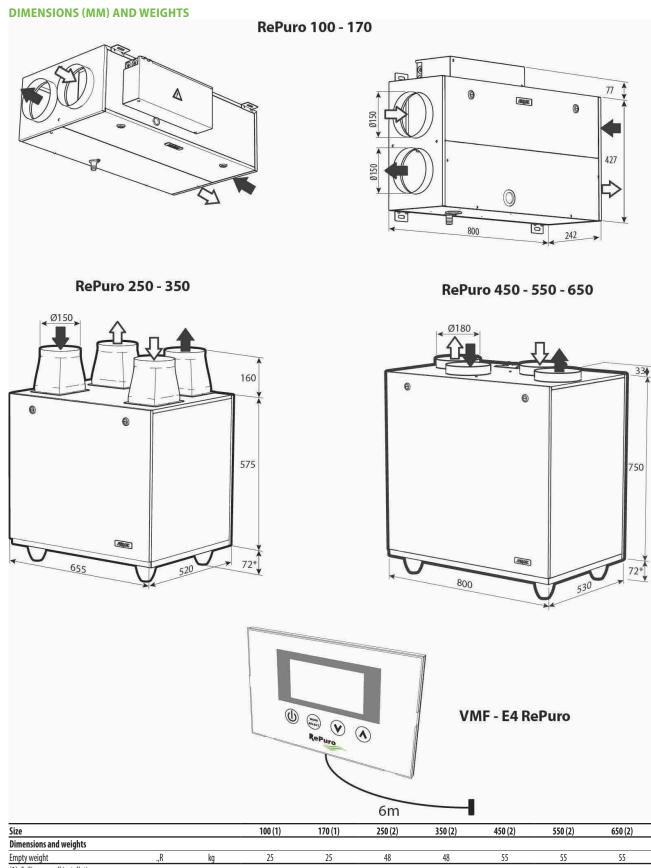
VMF system

| Model | Ver | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|
| VMF-E5B | .,R | • | • | • | • | • | • | • |
| VMF-E5N | .,R | • | • | • | • | • | • | • |
| VMF-VOC | R | • | • | • | | • | • | • |

PERFORMANCE SPECIFICATIONS

| Size | | 100 (1) | 170 (1) | 250 (2) | 350 (2) | 450 (2) | 550 (2) | 650 (2) |
|--------------------------------|-----------|---------|---------|---------|-------------|---------|---------|---------|
| Heat recovery unit | | | | | | | | |
| Power supply | | | | | 230V ~ 50Hz | | | |
| Summer recovery (3) | | | | | | | | |
| Recovery efficiency | % | 90 | 85 | 86 | 82 | 83 | 81 | 78 |
| Recovered heating power | W | 180 | 289 | 430 | 573 | 750 | 887 | 1015 |
| Winter recovery (4) | | | | | | | | |
| Recovery efficiency | % | 94 | 91 | 91 | 89 | 90 | 88 | 87 |
| Recovered heating power | W | 957 | 1573 | 2329 | 3171 | 4118 | 4940 | 5734 |
| General data | | | | | | | | |
| SEC | kWh/(m²a) | -36 | -38 | -37 | -40 | -40 | -40 | -40 |
| CLASS | | | | | Α | | | |
| Total input power | W | 45 | 65 | 160 | 180 | 220 | 280 | 360 |
| Heat recovery unit performance | | | | | | | | |
| Nominal air flow rate | m³/h | 100 | 170 | 250 | 350 | 450 | 550 | 650 |
| High static pressure | Pa | 85 | 20 | 195 | 133 | 100 | 120 | 70 |

⁽¹⁾ Celling or wall installation
(2) Floor or wall installation
(3) Exhaust air temperature 26°C D.B., 50% R.H; Fresh air temperature 32°C D.B., 50% R.H.
(4) Exhaust air temperature 20°C D.B., 50% R.H; Fresh air temperature -10°C D.B., 80% R.H.



⁽¹⁾ Ceiling or wall installation (2) Floor or wall installation

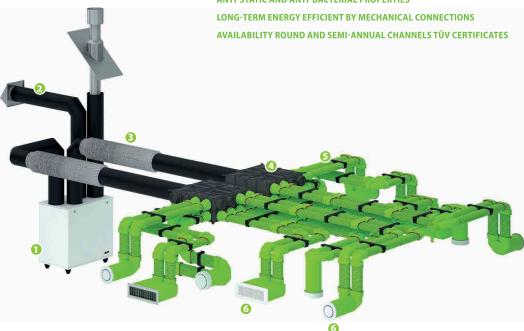
PuroDistribution

A complete range for air distribution which, combined with the innovative RePuro heat recovery and air purification units, provides designers, installers and users with an efficient, practical installation solution that guarantees optimum comfort throughout the lifecycle of the system.

EASY "PLUG & PLAY" INSTALLATION

LOW DUCT HEIGHT FOR IN-WALL AND SCREED-FLOOR APPLICATION

ANTI-STATIC AND ANTI-BACTERIAL PROPERTIES



The picture is intended purely as an example of a system with semi-rigid, semi-oval, antibacterial ducts. This example consists of:

www.aermec.com

- RePuro heat recovery units
- Duct with fresh/exhaust air intake
- Interconnection between RePuro and the distribution box 3
- Hydronic box
- Air distribution with semi-rigid, semi-oval, antibacterial ducts
- Terminals with designer intakes or grilles

In addition to point 5, the Aermec range also includes a further 2 air distribution systems:

- Air distribution with semi-rigid, round ducts
- Air distribution with rigid, rectangular ducts

For more information about all the types and solutions available, refer to the "AerDistribution" selection program and the technical documentation, both available at www.aermec.com

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229











TRS

Heat recovery unit with enthalpy exchanger



- Compact dimensions
- Fans coupled to brushless Ec motors with low energy consumption
- Easy installation
- Horizontal installation



DESCRIPTION

The TRS heat recoveries, for horizontal inside installation allow the combination of maximum comfort with a safe energy saving.

It is more and more necessary in modern systems to create a forced ventilation, but also involves the expulsion of climate-controlled air, thus determining a higher energy consumption.

TRSintends to solve these problems using a static heat recovery unit that saves most of the energy that would otherwise be lost.

The unit adopts high-efficiency heat recovery with countercurrent flows which consists of flat sheets of special paper that allow you to recover both sensible and latent heat (humidity). Therefore, no condensate drip tray or the relative drain pipe is required.

The high static pressures available allow ducts to be mounted, thereby allowing the extraction or input of air across multiple environments simultaneously.

They can be integrated in the direct expansion and hydronic systems both in heating and cooling mode.

FEATURES

- Very compact units that can only be installed horizontally, which require simple maintenance of the heat exchanger and filters both removable from the side.
- Free-cooling in mid-season thanks to the automatic by-pass function;

- Centrifugal fans with Brushless EC motor, with the possibility to adjust the speed on 10 different levels through the obligatory accessory TRSPTS, touch screen control panel. In the absence of this accessory it will only be possible, by acting on the remote on-off contact, to operate the fans always at maximum speed;
- Built-in electrical panel with electronic board for the control of ventilation and free-cooling functions;
- Hexagonal-shaped enthalpy recovery unit to increase the exchange surface:
- Self-supporting panels in galvanized sheet with insulation, both internal and external. Access via the side door;
- ISO 16890 ePM₂₅ 95% efficiency class filter with synthetic cleanable media and COARSE 50% pre-filter on fresh air, COARSE 50% filter on return air intake;
- Pressure switch with integrated dirty filter signal;
- Connections to funnels with plastic fittings;
- Silent operation;
- The installation does not require a condensate drain system.

ACCESSORIES

The following accessories are available for complete control of the TRS recovery units:

TRSPTS: Control panel with Touch Screen. Mandatory accessory.

TRSUSW: Wall CO2 probe. **TRSUSW:** Wall humidity probe.

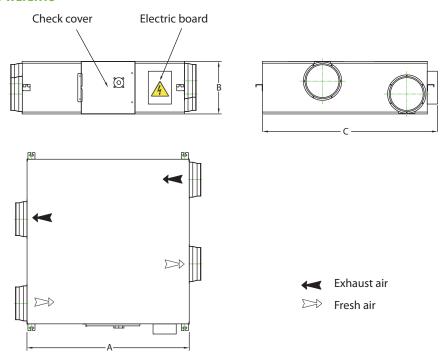
ACCESSORIES COMPATIBILITY

| Accessory | TRS251 | TRS351 | TRS501 | TRS651 | TRS801 | TRS1001 | TRS1301 |
|-----------|--------|--------|--------|--------|--------|---------|---------|
| TRSPTS | • | • | • | • | • | • | • |
| TRSQSW | • | • | • | • | • | • | • |
| TRSUSW | • | • | | • | • | • | • |

PERFORMANCE SPECIFICATIONS

| | | TRS251 | TRS351 | TRS501 | TRS651 | TRS801 | TRS1001 | TRS1301 |
|----------------------------|-----------------------|--------|--------|--------|------------------|--------|---------|---------|
| Fans (1) | | | | | | | | |
| Nominal air flow rate | m³/h | 250 | 350 | 500 | 650 | 800 | 1000 | 1300 |
| Nominal useful head | Pa | 90 | 140 | 110 | 100 | 140 | 140 | 140 |
| Maximum input power | A | 0,5 | 0,6 | 0,6 | 1,2 | 1,4 | 2,1 | 2,7 |
| Туре | type | | | | EC | | | |
| Speed number | no. | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| SFP int. | W/(m ³ /s) | 812,00 | 670,00 | 547,00 | 846,00 | 865,00 | 881,00 | 873,00 |
| Maximum input power | kW | 0,08 | 0,13 | 0,15 | 0,23 | 0,32 | 0,39 | 0,50 |
| Sound data (2) | | | | | | | | |
| Sound pressure level (1 m) | dB(A) | 34,0 | 37,0 | 39,0 | 40,0 | 42,0 | 43,0 | 44,0 |
| Heating performances (3) | | | | | | | | |
| Winter thermal efficiency | % | 73,0 | 74,0 | 76,0 | 74,0 | 76,0 | 76,0 | 74,2 |
| Enthalpy winter efficiency | % | 65,0 | 65,0 | 67,0 | 65,0 | 65,0 | 62,0 | 59,0 |
| Cooling performances (4) | | | | | | | | |
| Summer thermal efficiency | % | 73,0 | 74,0 | 76,0 | 74,0 | 76,0 | 76,0 | 74,0 |
| Summer enthalpy efficiency | % | 62,0 | 62,0 | 63,0 | 60,0 | 63,0 | 60,0 | 58,0 |
| Heat recovery unit | | | | | | | | |
| Dry heating efficiency (5) | % | 73,0 | 74,0 | 76,0 | 74,0 | 76,0 | 76,0 | 74,0 |
| Power supply | | | | | 230V~50Hz - 60Hz | | | |

DIMENSIONS AND WEIGHTS



| | | TRS251 | TRS351 | TRS501 | TRS651 | TRS801 | TRS1001 | TRS1301 |
|------------------------|----|--------|--------|--------|--------|--------|---------|---------|
| Dimensions and weights | | | | | | | | |
| A | mm | 599 | 804 | 904 | 884 | 1134 | 1216 | 1216 |
| В | mm | 814 | 814 | 894 | 1186 | 1186 | 1199 | 1199 |
| C | mm | 100 | 100 | 107 | 85 | 85 | 85 | 85 |
| Empty weight | kg | 30 | 37 | 43 | 65 | 71 | 83 | 83 |

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⁽¹⁾ Performances referring to clean filters
(2) Sound pressure level assessed at 1 m from suction / discharge ports and the inspection side at nominal conditions in free field.
(3) Recovery air 20 °C 50%; External air 5 °C 80%.
(4) Recovery air 26 °C 50%; External air 3 °C 50%.
(5) Relation between the inlet air heating gain and the expulsion air heating loss, both relating to the outside temperature, measured in dry reference conditions, with balanced mass flow and an internal/external air heating difference of 20K, excluding the heating gain generated by the fan motors and the internal leakage.















RPLI

Counter-current flow heat recovery unit with inverter motor



- Compact dimensions
- · EC fan Plug-fan
- Versions with water coil or electric for the post-heating
- Horizontal installation



DESCRIPTION

The RPLI heat recoveries, for horizontal inside installation allow the combination of maximum comfort with a safe energy saving.

It is more and more necessary in modern systems to create a forced ventilation, but also involves the expulsion of climate-controlled air, thus determining a higher energy consumption.

The unit is equipped with a counter-current heat recovery unit and allows an effective heat exchange between the expulsion air flow and fresh air that is pre-heated or pre-cooled, depending on the season, thus saving the energy that would otherwise be lost with the expelled exhaust air.

They can be integrated in the direct expansion and hydronic systems both in heating and cooling mode.

VERSIONS

Horizontal installation:

RPLI (L o P): L low, P high, useful static pressure RPLI_E: With electric heating coil.

RPLI_W: With water coil:Cooled / hot

Also to be used with cooled water:

- For sizes 030-100 in flow orientation 1 (°);
- Sizes 070-100 with flow orientation 2 (X), in this configuration, the coil is not available for sizes 030-050;

The following can only be used with hot water:

Sizes 140-400 with any type of flow configuration (° and X).

FEATURES

- Plug-fan radial fan with EC motors;
- Aluminium plate counter-current flow heat recovery unit with heating efficiency in compliance with the European regulation 1253, housing in condensate collection basin;
- Ventilation by-pass of the external air flow equipped with internal damper, with free cooling and even anti-freeze function;
- Synthetic filter class M5 according to EN779 placed on the expelled air intake;
- Synthetic filter class F7 according to EN779 placed on the external air inlet;

- Filters fouling pressure switches assembled;
- Self-supporting sandwich panels in galvanised sheet metal with injected polyurethane insulation density 45 kg/m³ and a thickness of 25 mm. The polyurethane is in compliance with the standard UL 94 class HBF and the panel with the standard NF P 512: 1986 in class M1;
- Condensate collection basin in galvanised steel;
- Easy accessible fans, from bottom for the sizes 030-100, from the side for the sizes 140-400;
- Accessible filters, from the top and from the bottom for the sizes 030-100, from the side for the sizes 140-400;
- The fan can be controlled with a 0-10 Vdc controller, RVC or RVCL accessory.

ACCESSORIES

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

Regulation

HRC: Electrical panel (IP56) to be installed outside the heat recovery unit. It is formed of a plastic electric box 300x380x120. It houses an electronic board for controlling the loads, 3 NCT temperature probes (6m long), a 4-pole serial cable + shield for connecting the control card to the user interface of the system, and an interface panel. Via the configuration of 8 dip switches, the electronic board in the kit can control: an electric heater for pre-warming the air taken in from the room; up to 2 electric heaters (with cascade management) for the post-treatment of the fresh air delivered back into the room; a component for air purification (e.g. UV lamp, Plasmacluster, etc.). Furthermore, the management of the RS485 serial is available as standard so the units can be added to a network supervised by the Modbus communication protocol.

RVC: Speed regulator supplied in n°2 pieces.

Additional modules

M4F: External module equipped with pre-filters class G4 (according to EN779) to be placed on the external air inlet.

MBF: External module with water cooling coil and condensate collection basin (only for sizes 140-400).

MBF_X: External module with water cooling coil and condensate collection basin (only for sizes 140X-400X).

MBP: Module with post-heating water coil.

 $\mbox{\bf MBE:}$ Module with electric coil $\mbox{\ \ }$ (anti-freeze and/or post-heating function).

MSU: Module equipped with silencer baffles. The accessory is supplied in n°1 piece.

FGC: Circular flanges. The accessory is supplied in n°1 piece.

Adjustment accessories

TWWV050: 3-way valve (the valve body only - does not include the pipe kit for connection to the heat recovery unit or external module with coil) PN16 KVS 1.0 DN15.

TWWV100: 3-way valve (the valve body only - does not include the pipe kit for connection to the heat recovery unit or external module with coil) PN16 KVS 2.5 DN15.

TWWV400: 3-way valve (the valve body only - does not include the pipe kit for connection to the heat recovery unit or external module with coil) PN16 KVS 6.3 DN20.

TF100: DN15 threaded couplings with shank and flat-seal idle nut for heat recovery unit / external module with coil.

TF400: DN20 threaded couplings with shank and flat-seal idle nut for heat recovery unit / external module with coil.

TWWVA: Actuator for 3-way valve 24V, for receiving ON-OFF or modulating commands (0-10V), for correct operation provide the VMF-MOD accessory.

FCDA: Servomotor for free cooling damper.

VMF-MOD: Expansion board for the management of modulating valves.

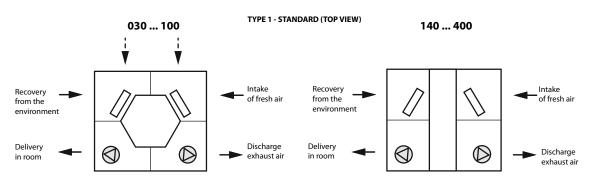
CONFIGURATOR

| CONTIGOR | |
|----------|--|
| Field | Description |
| 1,2,3,4 | RPLI |
| 5,6,7 | Size 030, 050, 070, 100, 140, 200, 300, 400 |
| 8 | Version |
| L | Low useful static pressure |
| P | High useful static pressure |
| 9 | Installation |
| 0 | Horizontal |
| 10 | Flow orientation |
| 0 | Type 1 |
| X | Type 2 |
| 11 | Exchanger |
| 0 | No internal coil |
| E | Post-heating electric internal coil |
| W | Water coil (1) |

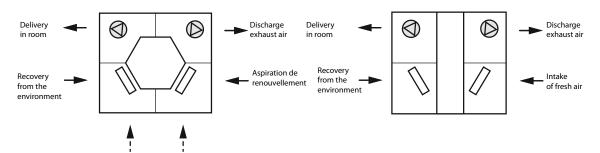
⁽¹⁾ Can also be used with chilled water: with sizes 030-100 in flow orientation 1 (°), 070-100 in flow orientation 2 (X): the coil is not available for sizes 030-050 with flow orientation 2 (X). Sizes 140-400 can only

be used with hot water.

AVAILABLE ORIENTATION



TYPE 2 - TO BE REQUESTED DURING ORDER (TOP VIEW)



ACCESSORIES COMPATIBILITY

| ACCESSORIES COMP | Ver | 030 | 050 | 070 | 100 14 | 0 200 | 300 | 400 |
|---------------------------------------|---------------------------------|-------------|----------|---------|----------|---------|---------|--------|
| MConverter | L,P | • | • | • | | • 200 | • | • |
| | , | | | | | | | |
| egulation | | | | | | | | |
| egulation and control | panel (outside the he | at recovery | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | HRC | HRC | HRC | HRC | HRC | HRC | HRC | HRC |
| Speed regulator | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L | RVC40 | RVCL | RVCL | RVC40 | RVCL | RVC40 | RVC40 | RVC40 |
| P | RVC40 | RVC40 | RVC40 | RVC40 | RVC40 | RVC40 | RVC40 | RVC40 |
| | | | | | | | | |
| Additional modules | | | | | | | | |
| External module equipp | ed with pre-filters | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | M4F03 | M4F05 | M4F07 | M4F10 | M4F14 | M4F20 | M4F30 | M4F40 |
| | | | | | | | | |
| External module with w | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | - | - | - | - | MBF14 | MBF20 | MBF30 | MBF40 |
| he accessory cannot be fitted on the | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | - | - | - | - | MBF14X | MBF20X | MBF30X | MBF40X |
| he accessory cannot be fitted on the | configurations indicated with - | | | | | | | |
| 3 way valve kit | | | | | | | | |
| Accessory | MBF14 | MBF14X | MBF20 | MBF20X | MBF30 | MBF30X | MBF40 | MBF40X |
| TWWV020 | • | • | • | • | | | | |
| TWWV400 | | | | | • | • | • | • |
| Threaded coupling | | | | | | | | |
| Accessory | MBF14 | MBF14X | MBF20 | MBF20X | MBF30 | MBF30X | MBF40 | MBF40X |
| TF100 | • | | • | • | | | | |
| TF400 | | | | | • | • | • | • |
| Actuator for valves | | | | | | | | |
| _ | MBF14 | MBF14X | MBF20 | MBF20X | MBF30 | MBF30X | MBF40 | MBF40X |
| Accessory TWWVA | • • | • | • | • | • MDI 30 | • | • | • |
| | | | | | | | | |
| Module with post-heati | ng water coil. | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | MBP03 | MBP05 | MBP07 | MBP10 | MBP14 | MBP20 | MBP30 | MBP40 |
| | | | | | | | | |
| Module with electric coi | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | MBE03 | MBE05 | MBE07 | MBE10 | MBE14 | MBE20 | MBE30 | MBE40 |
| Module equipped with s | ilencer haffles | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | MSU03 | MSU05 | MSU07 | MSU10 | MSU14 | MSU20 | MSU30 | MSU40 |
| Lji | MOOOO | MISOUS | MISOUT | 1113010 | MOOTT | 1113020 | MSOSO | MIDOTO |
| Circular flanges | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | FGC030 | FGC050 | FGC070 | FGC100 | FGC140 | FGC200 | FGC300 | FGC400 |
| _ | | | | | | | | |
| Accessories | | | | | | | | |
| 3 way valve kit | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | TWWV050 | TWWV050 | TWWV100 | TWWV100 | TWWV400 | TWWV400 | TWWV400 | TWWV40 |
| | | | <u> </u> | | | | | |
| Threaded coupling | | | | | | | | |
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| L,P | TF100 | TF100 | TF100 | TF100 | TF400 | TF400 | TF400 | TF400 |
| Actuator for 3-way valve | ac . | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
| | | | 0.70 | nnn | | 700 | 500 | 400 |
| Ver L,P | TWWVA | TWWVA | TWWVA | TWWVA | TWWVA | TWWVA | TWWVA | TWWVA |

Free cooling damper actuator

| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
|-----|------|------|------|------|------|------|------|------|
| L,P | FCDA |

${\it Expansion board for managing the modulating valves}$

| | | | | | | | | | _ |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---|
| Ver | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 | |
| L,P | VMF-MOD | |

PERFORMANCE SPECIFICATIONS

RPLI - L

| Size | | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
|---|-----------------------|-----------|-----------|-----------|-------------------|----------------------|-----------|-----------|-------------|
| Heat recovery unit | | | | | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 400V 3~50Hz |
| Unit type | | | | | UVNR (non-residen | tial ventilation uni | t) | | |
| Heat recovery system type | Type/n° | | | | Static at counte | r-current flow / 1 | | | |
| Heat capacity recovered (EN308) (1) | kW | 1,6 | 2,4 | 3,6 | 4,8 | 7,1 | 10,0 | 14,9 | 19,7 |
| Dry heating efficiency (2) | % | 81,1 | 78,1 | 76,8 | 75,3 | 76,0 | 76,3 | 75,5 | 75,6 |
| Information in compliance with Annex V of regulatio | n EU no. 1253/2014 | | | | | | | | |
| Nominal air flow rate supply / recovery | m³/s | 0,08 | 0,13 | 0,19 | 0,26 | 0,39 | 0,54 | 0,82 | 1,08 |
| Nominal air flow rate supply / recovery | m³/h | 300 | 450 | 700 | 950 | 1400 | 1950 | 2950 | 3900 |
| Minimum air flow rate | m³/h | 200 | 250 | 400 | 550 | 800 | 1150 | 1750 | 2350 |
| Fans (3) | | | | | | | | | |
| Commissioning | type | | | | Analogue signal o | of EC fan (0-10Vdc) | | | |
| Туре | type | | | | I | :(| | | |
| Number | no. | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| Supplied electrical power consumption | kW | 0,07 | 0,09 | 0,14 | 0,21 | 0,33 | 0,45 | 0,47 | 0,73 |
| Recovered electrical power consumption | kW | 0,06 | 0,09 | 0,14 | 0,20 | 0,31 | 0,41 | 0,44 | 0,69 |
| Total input electric power | kW | 0,13 | 0,17 | 0,28 | 0,41 | 0,64 | 0,86 | 0,91 | 1,42 |
| SFP int. | W/(m ³ /s) | 820,00 | 953,00 | 907,00 | 1120,00 | 1132,00 | 1103,00 | 748,00 | 928,00 |
| SFP int. lim. 2018 | W/(m ³ /s) | 1329 | 1234 | 1185 | 1131 | 1132 | 1118 | 1053 | 1015 |
| Filters face velocity | m/s | 0,8 | 1,2 | 1,0 | 1,4 | 2,2 | 2,2 | 1,9 | 2,5 |
| Nominal external pressure Δp (3) | Pa | 100 | 100 | 110 | 110 | 110 | 110 | 110 | 110 |
| Useful static supply pressure | Pa | 323 | 401 | 191 | 143 | 112 | 110 | 132 | 196 |
| Useful static recovery pressure | Pa | 328 | 416 | 198 | 161 | 154 | 149 | 164 | 242 |
| Supplied internal pressure drop Δps int. | Pa | 115 | 228 | 189 | 293 | 268 | 270 | 245 | 290 |
| Recovered internal pressure drop Δps int. | Pa | 110 | 213 | 182 | 274 | 228 | 230 | 213 | 244 |
| Fans static efficiency (4) | % | 35.8% | 57.0% | 57.0% | 59.7% | 57.0% | 49.2% | 67.2% | 66.9% |
| Internal leakage (5) | % | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% |
| External leakage | % | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% |
| Air filter | | | | | | | | | |
| Expelled air filter | Type/n° | | | | М | 5/1 | | | |
| Delivery air filter | Type/n° | | | | F | '/1 | | | |
| Delivery filter energy classification | | | | | On re | quest | | | |
| Recovery filter energy classification | | | | | On ro | quest | | | |

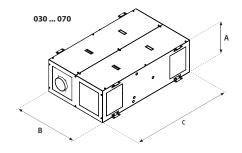
⁽¹⁾ Expelled air: Tdb=25°C; Twb<-14°C. Fresh air: Tdb=5°C.
(2) Relation between the inlet air heating gain and the expulsion air heating loss, both relating to the outside temperature, measured in dry reference conditions, with balanced mass flow and an internal/external air heating difference of 20K, excluding the heating gain generated by the fan motors and the internal leakage.
(3) Performances referring to clean filters.
(4) According to regulation EU 327/2011
(5) External leakage test performed at +400 Pa and -400 Pa; internal leakage test performed at 250 Pa

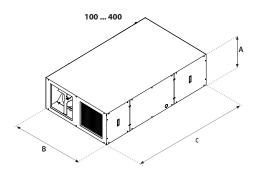
RPLI - P

| Size | | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
|--|-----------------------|-----------|-----------|-----------|-------------------|-----------------------|-----------|-------------|-------------|
| Heat recovery unit | | | | | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 400V 3~50Hz | 400V 3~50Hz |
| Unit type | | | | | UVNR (non-resider | itial ventilation uni | t) | | |
| Heat recovery system type | Type/n° | | | | Static at counte | r-current flow / 1 | | | |
| Heat capacity recovered (EN308) (1) | kW | 1,6 | 2,4 | 3,6 | 4,8 | 7,1 | 10,0 | 14,9 | 19,7 |
| Dry heating efficiency (2) | % | 81,1 | 78,1 | 76,8 | 75,3 | 76,0 | 76,3 | 75,5 | 75,6 |
| Information in compliance with Annex V of regulation | on EU no. 1253/2014 | | | | | | | | |
| Nominal air flow rate supply / recovery | m ³ /s | 0,08 | 0,13 | 0,19 | 0,26 | 0,39 | 0,54 | 0,82 | 1,08 |
| Nominal air flow rate supply / recovery | m³/h | 300 | 450 | 700 | 950 | 1400 | 1950 | 2950 | 3900 |
| Minimum air flow rate | m³/h | 200 | 250 | 400 | 550 | 800 | 1150 | 1750 | 2300 |
| Fans (3) | | | | | | | | | |
| Commissioning | type | | | | Analogue signal | of EC fan (0-10Vdc) | | | |
| Туре | type | | | | | EC | | | |
| Number | no. | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 |
| Supplied electrical power consumption | kW | 0,04 | 0,08 | 0,11 | 0,22 | 0,35 | 0,41 | 0,55 | 0,87 |
| Recovered electrical power consumption | kW | 0,04 | 0,08 | 0,11 | 0,21 | 0,33 | 0,38 | 0,50 | 0,82 |
| Total input electric power | kW | 0,09 | 0,16 | 0,23 | 0,42 | 0,68 | 0,79 | 1,04 | 1,69 |
| SFP int. | W/(m ³ /s) | 543,00 | 903,00 | 694,00 | 1116,00 | 1095,00 | 918,00 | 770,00 | 999,00 |
| SFP int. lim. 2018 | W/(m ³ /s) | 1329 | 1234 | 1185 | 1131 | 1132 | 1118 | 1053 | 1015 |
| Filters face velocity | m/s | 0,8 | 1,2 | 1,0 | 1,4 | 2,2 | 2,2 | 1,9 | 2,5 |
| Nominal external pressure Δp (3) | Pa | 100 | 100 | 125 | 125 | 145 | 145 | 150 | 150 |
| Useful static supply pressure | Pa | 506 | 338 | 279 | 638 | 412 | 469 | 462 | 303 |
| Useful static recovery pressure | Pa | 511 | 353 | 285 | 656 | 452 | 509 | 493 | 349 |
| Supplied internal pressure drop Δps int. | Pa | 115 | 228 | 189 | 293 | 268 | 270 | 245 | 290 |
| Recovered internal pressure drop Δps int. | Pa | 110 | 213 | 182 | 274 | 228 | 230 | 213 | 244 |
| Fans static efficiency (4) | % | 61,7 | 61,7 | 61,7 | 57,2 | 57,2 | 61,8 | 66,9 | 62,7 |
| Internal leakage (5) | % | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% | 3.9% |
| External leakage | % | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% |
| Air filter | | | | | | | | | |
| Expelled air filter | Type/n° | | | | М | 5/1 | | | |
| Delivery air filter | Type/n° | | | | F | 7/1 | | | |
| Delivery filter energy classification | | | | | On re | equest | | | |
| Recovery filter energy classification | | | | | On re | quest | | | |

(1) Expelled air: Tdb=25°C; Twb<-14°C. Fresh air: Tdb=5°C.
(2) Relation between the inlet air heating gain and the expulsion air heating loss, both relating to the outside temperature, measured in dry reference conditions, with balanced mass flow and an internal/external air heating difference of 20K, excluding the heating gain generated by the fan motors and the internal leakage.
(3) Performances referring to clean filters.
(4) According to regulation EU 327/2011
(5) External leakage test performed at +400 Pa and -400 Pa; internal leakage test performed at 250 Pa

DIMENSIONS AND WEIGHTS





| Size | | 030 | 050 | 070 | 100 | 140 | 200 | 300 | 400 |
|------------------------|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | |
| A | mm | 400 | 400 | 435 | 435 | 460 | 460 | 600 | 600 |
| В | mm | 800 | 800 | 945 | 945 | 1100 | 1600 | 1700 | 2050 |
| C | mm | 1300 | 1300 | 1600 | 1600 | 1800 | 1800 | 2350 | 2350 |
| Empty weight | kg | 95 | 93 | 125 | 123 | 160 | 210 | 287 | 340 |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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Thermodynamic recovery unit with integrated heat pump

Air flow rate 1100 - 3200 m³/h



- Compact dimensions
- Compressor with inverter
- EC fan Plug-fan
- · Fixed point adjustment in delivery
- Horizontal installation



DESCRIPTION

Is an air replacement, filtration and treatment unit equipped with high efficiency thermodynamic recovery performed by an integrated cooling circuit.

The inverter compressor allows a high energy saving at the same time as maintaining the set delivery temperature.

The unit can be integrated in the direct expansion and hydronic systems both in heating and cooling mode.

FEATURES

Versions

Horizontal installation:

- RTD: Standard unit with constant flow-rate control.
- RTD_Q: Units with flow modulation according to the concentration of CO₂
- RTD_W: Unit with internal hot/cold water coil complete with threeway valve, modulating servo-control and anti-freeze thermostat.

Main components

- Cooling circuit **BLDC inverter compressor.**
- Plug fans with EC inverter motor.
- Safety valve.
- Lower sandwich panels in galvanised sheet metal with injected polyurethane insulation; upper and side panel in galvanised sheet metal internally lined with insulating mat
- Synthetic filter class Coarse 85% according to EN16890 on the outside air inlet complete with fouling detection pressure switch.

— Condensate collection tank in aluminium alloy with side discharge.

Regulation

- Power and control electrical panel on the machine.
- Programmable controller able to manage all the advanced functions present on the unit (with fixed point adjustment in delivery; cooling, heating, automatic, free cooling functions; compressor, fans and eventual water coil modulation).
- Remote panel (mandatory accessory)) in graphic display version or Touch version.

ACCESSORIES

www.aermec.com

CPVR: Recovery fan constant air flow rate control (accessory supplied separately; the function is enabled on the controller).

PRGD1: Control panel for wall or flush-mount installation with graphic display. Maximum installation distance of 10m.

PRGDX: Touch screen control panel for wall or flush-mount installation complete with black and white frame. Maximum installation distance of 150m.

MRE: Single-stage anti-freeze electric heater module 2 kW to be installed on the external air intake (required for outdoor air temperatures below -5° C)

MF: Coarse 85% efficiency filters module (EN16890) to be positioned in recovery (side extraction) complete with filter clogging pressure switch.

■ The remote controller is required for unit operation, it is possible to select between PRGD1 and PRGDX.

237

ACCESSORIES COMPATIBILITY

Recovery fan constant air flow rate control and xontrol panel

| Model | Ver | 11 | 14 | 17 | 21 | 26 | 32 |
|-----------|----------|----|----|----|----|----|----|
| CPVR (1) | .,Q,QW,W | • | • | • | • | • | • |
| PRGD1 (2) | .,Q,QW,W | • | • | • | • | • | • |
| PRGDX | "Q,QW,W | | | | | | • |

Anti-freeze electric heater module

| Model | Ver | 11 | 14 | 17 | 21 | 26 | 32 |
|-------|----------|----|----|----|----|----|----|
| MRE2M | .,Q,QW,W | • | • | | | | |
| MRE3M | .,Q,QW,W | | | • | | | |
| MRE3T | .,Q,QW,W | | | | • | | |
| MREST | .,Q,QW,W | | | | | • | • |

Coarse 85% efficiency filters module (EN16890)

| Model | Ver | 11 | 14 | 17 | 21 | 26 | 32 |
|-------|----------|----|----|----|----|----|----|
| MF5R1 | .,Q,QW,W | • | • | | | | |
| MF5R2 | .,Q,QW,W | | | • | • | | |
| MF5R3 | .,Q,QW,W | | | | | • | • |
| MF7M1 | .,Q,QW,W | • | • | | | | |
| MF7M2 | .,Q,QW,W | | | • | • | | |
| MF7M3 | .,Q,QW,W | | | | | • | • |

CONFIGURATOR

| COMMISSION | ANTON |
|------------|---------------------------------------|
| Field | Description |
| 1,2,3 | RTD |
| 4,5 | Size 11, 14, 17, 21, 26, 32 |
| 6 | Ventilation control type |
| 0 | Constant flow (standard unit) |
| Q | Control via air quality probe |
| 7 | Internal hot/cold water coil |
| 0 | No coil (standard unit) |
| W | Internal water coil |

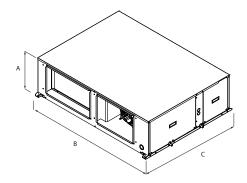
⁽¹⁾ Accessory supplied separately.
(2) The remote controller is required for unit operation, it is possible to select between PRGD1 and PRGDX.

PERFORMANCE SPECIFICATIONS

| | | RTD11 | RTD14 | RTD17 | RTD21 | RTD26 | RTD32 |
|---|------------------|--------------------|---------------------------------------|--------------------|---------------------------------------|---------------------------------------|--------------------|
| Air flow rates | | | | ' | | | |
| Nominal air flow rate | m³/h | 1100 | 1400 | 1700 | 2100 | 2600 | 3200 |
| Minimum air flow rate | m³/h | 950 | 1200 | 1450 | 1800 | 2200 | 2700 |
| Maximum air flow rate | m³/h | 1200 | 1550 | 1850 | 2300 | 2850 | 3500 |
| Delivery fan | | | | | | | |
| Туре | type | Plug-fan | Plug-fan | Plug-fan | Plug-fan | Plug-fan | Plug-fan |
| Fan motor | type | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| Nominal useful head | Pa | 150 | 150 | 150 | 150 | 150 | 150 |
| Maximum useful head | Pa | 510 | 580 | 520 | 360 | 570 | 380 |
| Cooling input power | kW | 0,19 | 0,20 | 0,23 | 0,32 | 0,43 | 0,62 |
| Heating input power | kW | 0,18 | 0,18 | 0,22 | 0,30 | 0,39 | 0,56 |
| Expulsion fan | | · | | | | | |
| Туре | type | Plug-fan | Plug-fan | Plug-fan | Plug-fan | Plug-fan | Plug-fan |
| Fan motor | type | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors | EC Inverter motors |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| Nominal useful head | Pa | 150 | 150 | 150 | 150 | 150 | 150 |
| Maximum useful head | Pa | 530 | 600 | 520 | 370 | 590 | 400 |
| Cooling input power | kW | 0,17 | 0,16 | 0,19 | 0,27 | 0,33 | 0,46 |
| Heating input power | kW | 0,18 | 0,18 | 0,22 | 0,31 | 0,39 | 0,54 |
| Performance in cooling mode at maximum comp | ressor speed (1) | , | , | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | |
| Cooling capacity | kW | 6,70 | 8,00 | 8,80 | 11,20 | 14,10 | 16,30 |
| Sensible cooling capacity | kW | 5,70 | 6,80 | 7,80 | 9,80 | 12,10 | 13,80 |
| Compressors absorbed power | kW | 1,80 | 2,20 | 2,30 | 3,20 | 4,00 | 4,50 |
| Total input power EN14511 2017 | kW | 2,09 | 2,43 | 2,58 | 3,55 | 4,48 | 5,15 |
| EER EN14511:2017 | W/W | 3,20 | 3,30 | 3,42 | 3,16 | 3,14 | 3,16 |
| EER | W/W | 3,11 | 3,15 | 3,24 | 2,96 | 2,95 | 2,92 |
| Performance in heating mode at maximum comp | ressor speed | | | | | | |
| Heating capacity | kW | 7,70 | 9,30 | 10,60 | 13,80 | 16,90 | 20,00 |
| Compressors absorbed power | kW | 1,60 | 2,00 | 2,20 | 2,90 | 3,30 | 4,10 |
| COP refrigerant circuit | W/W | 4,83 | 4,64 | 4,82 | 4,74 | 5,12 | 4,87 |
| COP EN14511:2017 (2) | W/W | 4,07 | 4,13 | 4,26 | 4,20 | 4,45 | 4,18 |
| COP | W/W | 3,94 | 3,92 | 4,02 | 3,91 | 4,15 | 3,84 |
| Total input power EN14511 2017 | kW | 1,90 | 2,20 | 2,50 | 3,30 | 3,80 | 4,80 |
| Total input power | kW | 2,00 | 2,40 | 2,60 | 3,50 | 4,10 | 5,20 |
| Compressor | | | | | | | |
| Туре | type | Twin-rotary BLDC | Twin-rotary BLDC | Twin-rotary BLDC | Twin-rotary BLDC | Twin-rotary BLDC | Twin-rotary BLDC |
| Compressor regulation | Туре | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | R410A | R410A | R410A | R410A | R410A | R410A |
| Electric data | | | | | | | |
| Input power at full load | kW | 4,30 | 4,50 | 4,50 | 5,30 | 6,10 | 6,10 |
| Input current at full load | A | 14,40 | 13,80 | 13,80 | 17,90 | 16,90 | 16,90 |
| | | | · · · · · · · · · · · · · · · · · · · | | | • | |
| Power supply | | | | | | | |

⁽¹⁾ Cooling mode: aire temperature 35° C Tbs / 24° CTbh; ambient air 27° CTbs / 19° CTbh. (2) Heating mode: aire temperature 7° CTbs / 6° CTbh; ambient air 20° CTbs / 15° CTbh.

DIMENSIONS



| Size | | | 11 | 14 | 17 | 21 | 26 | 32 |
|------------------------|----------|----|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | |
| A | .,Q,QW,W | mm | 430 | 430 | 530 | 530 | 630 | 630 |
| В | .,Q,QW,W | mm | 1508 | 1508 | 1508 | 1508 | 1508 | 1508 |
| C | .,Q,QW,W | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | | kg | 133 | 135 | 148 | 160 | 179 | 179 |
| F | Q | kg | 135 | 137 | 150 | 162 | 181 | 181 |
| Empty weight | QW | kg | 135 | 142 | 161 | 172 | 197 | 197 |
| | W | kg | 140 | 142 | 159 | 170 | 195 | 195 |
| Weight Constitution | | kg | 133 | 135 | 148 | 160 | 179 | 179 |
| Weight functioning | Q,QW,W | kg | - | - | - | - | - | - |











RPF

High performance heat recovery unit with cross-current recuperator

Air flow rate 790 - 4250 m³/h



- Cross-current heat recovery with performances superior than 90%
- Plug fans coupled with ec brushless motors for energy costs reduction



DESCRIPTION

Heat recovery units RPF have been designed for commercial applications and permits to combine an excellent ambient comfort with a sure energy saving.

It is more and more necessary in modern systems to create a forced ventilation, but also involves the expulsion of climate-controlled air, thus determining a higher energy consumption.

The units RPF thanks to the cross-current heat recuperator permit to save more than 90% of energy which otherwise would be lost with expelled stuffy air.

RPF could be integrated with traditional systems realized with fan coils, chillers, and could work both in winter and in summer. This series is indicated for both horizontal and vertical installation.

CONFIGURATIONS

O Horizontal right supply

P Horizontal left supply

 ${f V}$ Vertical right supply

Z Vertical left supply

Each of the different configurations could be further customized thanks to the choice of the accessories.

For further information, please refer to the technical documentation on the website.

STRUCTURE

The structure is formed by aluminium profiles with thermic cut, connected by nylon angles charged with glassfibre.

The sealing panels, of 50 mm thickness, are of the sandwich type in pre-painted plate RAL 9002 (external) and galvanized sheet iron (internal) insulated with polyurethane with density 45 kg/m³. The expandent of the polyurethane foam is based on water permitting to reach GWP=0 (Global Warming Potential).

The casing is in fire reaction class M1 according to the French regulation NF P 92-512:1986. Removable panels are also foreseen to access to internal components, equipped with safety locks, condensate drain and internal modulating rolling shutter of motorized and controlled bypass for free-cooling.

Fans

Fans of supply and extract of plug-fan-type with synchronous motor with electronic control permanent magnetos (EC). The impellers are oriented in such a way to grant an optimal air flow which goes through the internal components, with the minimum noise.

Air filter

Air filtration with a filter with G4 efficiency (according to EN779) with low pressure drops on extracted air flow and a compact filter and with efficiency F7 (according to EN779) having a large filtrating surface made of glass microfibre paper, inserted in the intake flow.

The two typologies of filters are positioned upstream of the components to be protected, in order to grant low pressure drops, having a large surface available. The filtrating cells are fixed on a proper bearing frame to avoid any by-pass of non-treated air.

Their extractability is guaranteed from a proper side opening (standard), superior or inferior (optional) [with reference to the horizontal version].

Heat recovery unit

Static high efficiency cross-current heat recovery unit with high efficiency and aluminium plate.

The heat recovery unit guarantees the non-contamination of air flows, because the plates are properly sealed. Its performance is not inferior to 90% (EN308) in function to the external conditions: Air of intake: -10°C/90% - Air of extract 20°C/50% and equal capacities between supply and extract.

It is included also the function of automatic defrosting made easy by the internal modulating rolling shutter and from the possible modulation with intake flow.

REGULATION

Costituted by power electric panel and programmable controller with integrated graphic display. Everything is internally fitted in the unit in an accessible position. The function of regulation are:

— Ventilation control (manual control of the standard fans speed);

- Thermo-regulation completed with all electric/electronic components (modality of regulation in standard extract);
- Integrated logics of energy savings: modulating free-cooling / free-heating, anti-freeze, night cooling, air quality control, dynamic set point, speed economy of ventilation, ranges of time;
- Complete interfaceability with BMS systems.

FUNCTIONALITY AND TECHNOLOGICAL ADVANTAGES

The elimination from closed rooms of the polluting elements, produced mainly from people and the simultaneous external air input, are at the basis of the concept of controlled mechanical ventilation (VMC) of the internal rooms.

The purpose of ventilation is to raise the standard of internal air quality with consequent positive effects for health and productivity of the occupiers. The change of air has positive effects also on the good maintenance of the building.

For the building to be requalified, the Controlled Mechanical Ventilation is almost a mandatory choice in order to reach high energy standards, which are imposed by the current legislation.

Very high ventilation efficiency

Since the ventilation represents one of the major factor of energy consumption, particular attention has been given to the study and to the creation of the ventilation system.

Fans of the plug-fan type with EC brushless motors have been used both in supply and in extraction; they permit high performances and reduced consumptions. Furthermore, compared with the traditional centrifugal fans, they don't have belts or pulleys with consequent easiness of capacity regulation, compactness, versatility, and an easy maintenance.

A particular adaptative logic permits to adjust the effective air capacity required from the system with more consequent advatages in terms of reduction of consumptions.

Maximum efficiencies

In this context RPF is proposed as the high efficient and performing solution for double flow ventilation systems with heat recovery.

The key-concept on which is based the RPF proposal are:

- Very high efficiency heat recovery attested by EUROVENT certification and maintenance of the complete separation of intake and discharge air flow;
- Reduced ventilation energy consumptions, thanks to a detailed dimensioning of the components in order to have low total values of SFP (Specific Fan Power or rather energy consumption for m³/h of total processed capacity);
- High efficiency filtration and low pressure drops;
- Advanced electronic management for the energy saving and of controlling of internal pollutants functions VOC (Volatile Organic Compounds);
- Compactness of dimensions and logic of installation "plug and play".

Air quality in room

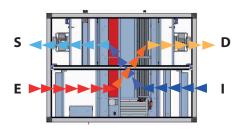
Particular attention has been given naturally also to the quality of air in the room, standard assigned to filters with efficiency G4 on extracted air flow and on compact filter with efficiency F7 included on intake air flow

Naturally all these technological advantages are controlled by a thermoregulation of last generation, able to manage the different working procedures; assuring the maximum energy saving in every usage condition by using a proper software.

BASIC CONFIGURATION

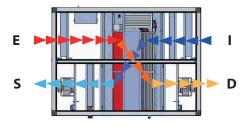
RPF O Horizontal configuration

Right supply (seen from above)



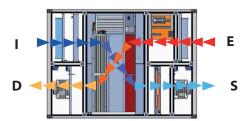
RPF P Horizontal configuration

Left supply (seen from above)



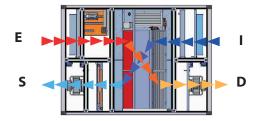
RPF V Vertical configuration

Right supply (seen from the accessible side)



RPF Z Vertical configuration

Left supply (seen from the accessible side)



Discharge Intake Supply



PERFORMANCE SPECIFICATIONS

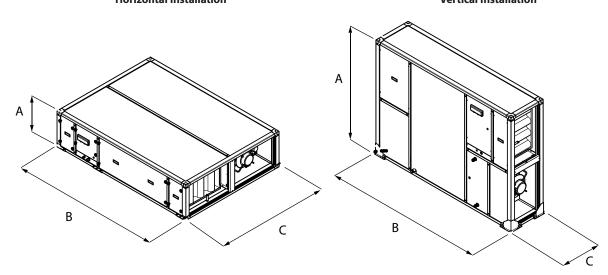
| | | RPF008 | RPF010 | RPF013 | RPF020 | RPF031 | RPF042 |
|---|--------------------------|--------|--------|-------------------|------------------------|--------|---------|
| Heat recovery unit | | | | | | | |
| Power supply | | | 230V | ~50Hz | | 400V 3 | ~50Hz |
| Unit type | | | | UVNR (non-residen | tial ventilation unit) | | |
| Heat recovery system type | Type/n° | | | Static at counter | r-current flow / 1 | | |
| Heat capacity recovered (EN308) (1) | kW | 4,2 | 5,4 | 7,0 | 10,7 | 16,6 | 22,8 |
| Dry heating efficiency (2) | % | 80,0 | 79,9 | 80,0 | 79,9 | 79,9 | 83,8 |
| Information in compliance with Annex V of r | egulation EU no. 1253/20 | 014 | | | | | |
| Nominal air flow rate supply / recovery | m³/s | 0,22 | 0,28 | 0,36 | 0,56 | 0,86 | 1,18 |
| Nominal air flow rate supply / recovery | m³/h | 790 | 1000 | 1300 | 2000 | 3100 | 4250 |
| Minimum air flow rate | m³/h | 200 | 200 | 400 | 1000 | 1000 | 1300 |
| Maximum air flow rate | m³/h | 980 | 1260 | 1530 | 2350 | 3700 | 4600 |
| Fans (3) | | | | | | | |
| Commissioning | type | | | Analogue signal o | of EC fan (0-10Vdc) | | |
| Туре | type | | | | :(| | |
| Number | no. | 2 | 2 | 2 | 2 | 2 | 2 |
| Supplied electrical power consumption | kW | 0,16 | 0,24 | 0,33 | 0,60 | 0,79 | 1,30 |
| Recovered electrical power consumption | kW | 0,15 | 0,23 | 0,33 | 0,56 | 0,76 | 1,20 |
| Total input electric power | kW | 0,31 | 0,47 | 0,66 | 1,16 | 1,55 | 2,50 |
| Maximum input power | kW | 0,60 | 1,24 | 1,26 | 1,66 | 5,26 | 5,26 |
| Maximum input power | A | 4,6 | 7,5 | 7,5 | 9,3 | 11,1 | 11,1 |
| SFP int. | W/(m ³ /s) | 625,00 | 667,00 | 743,00 | 1142,00 | 919,00 | 1211,00 |
| SFP int. lim. 2018 | W/(m ³ /s) | 1127 | 1118 | 1109 | 1227 | 1031 | 1253 |
| Filters face velocity | m/s | 1,8 | 2,0 | 1,8 | 2,2 | 2,2 | 2,1 |
| Nominal external pressure Δp (3) | Pa | 200 | 250 | 250 | 250 | 250 | 225 |
| Useful static supply pressure | Pa | 191 | 218 | 169 | 134 | 215 | 143 |
| Useful static recovery pressure | Pa | 196 | 233 | 175 | 152 | 255 | 184 |
| Supplied internal pressure drop Δps int. | Pa | 174 | 198 | 219 | 319 | 304 | 372 |
| Recovered internal pressure drop Δps int. | Pa | 176 | 189 | 227 | 355 | 293 | 379 |
| ans static efficiency (4) | % | 61,7 | 57,2 | 57,2 | 61,8 | 66,9 | 62,7 |
| nternal leakage (5) | % | 0,3 | 0,3 | 0,3 | 0,1 | 0,3 | 0,2 |
| External leakage | % | <3 | <3 | <3 | <3 | <3 | <3 |
| Air filter | | | | | | | |
| Delivery filter energy classification | | | | | В | | |
| Recovery filter energy classification | | | | On re | quest | | |

⁽¹⁾ Expelled air: Tdb=25°C; Twb<14°C. Fresh air: Tdb=5°C.
(2) Relation between the inlet air heating gain and the expulsion air heating loss, both relating to the outside temperature, measured in dry reference conditions, with balanced mass flow and an internal/external air heating difference of 20K, excluding the heating gain generated by the fan motors and the internal leakage.
(3) Performances referring to clean filters
(4) According to regulation EU 327/2011
(5) External leakage test performed at +400 Pa and -400 Pa; internal leakage test performed at 250 Pa

DIMENSIONS

RPF 008 - 031 Horizontal Installation

RPF 008 - 042 Vertical Installation



| Size | | | 800 | 010 | 013 | 020 | 031 | 042 |
|------------------------|-----|---|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | |
| Α | 0,P | mm | 450 | 450 | 524 | 560 | 700 | - |
| A | V,Z | mm | 1054 | 1258 | 1374 | 1694 | 1948 | 1550 |
| D | 0,P | mm | 1915 | 1915 | 2174 | 2334 | 2654 | - |
| D | V,Z | O,P mm 1915 1915 2174 2334 V,Z mm 1915 1915 2174 2334 | 2654 | 2974 | | | | |
| <u> </u> | 0,P | mm | 1054 | 1258 | 1374 | 1694 | 1948 | - |
| • | V,Z | mm | 450 | 450 | 524 | 560 | 700 | 1130 |
| F | 0,P | kg | 194 | 220 | 264 | 328 | 452 | - |
| Empty weight | V,Z | kg | 194 | 220 | 264 | 328 | 452 | 585 |

[■] The weights are standard configuration units without accessories.

















URX-CF

Heat recovery unit with refrigerant circuit

Air flow rate 750 - 3300 m³/h



 Heat pump cooling circuit with high yield and low noise scroll compressors.



DESCRIPTION

The URX-CF series is the mono-bloc solution designed for the installation requirements typical for public spaces like bars, restaurants, offices, meeting rooms.

The URX-CF units combine in one mono-bloc unit, besides the fan, filter, and heat recovery sections, a heat pump refrigerant circuit with scroll compressors of high output and low noise.

The supply air is heated or cooled, based on the season, through the heat pump refrigerant circuit located within the unit and charged with refrigerant R410A.

This allows for a complete machine, with autonomous operation during every season and able to provide both the required air renewal for rooms and an efficient heat recovery.

The careful design of the machine combines very compact dimensions, which permit easy installation in false ceilings, with an excellent accessibility for maintaining all the internal components.

FEATURES

Panels

Self-supporting sandwich panel 20 mm thick in galvanised steel for internal and external surfaces with injected polyurethane insulation (density 40 kg/m³).

Heat recovery

Cross flow plate heat exchanger in aluminium with outputs over 50% in winter conditions.

Air filters

Class G4, located before the heat recovery both in the supply and return air flow.

Fans

Double inlet forward curved blades with direct drive motor. Single phase 230V-50Hz single speed motor. The air flow is controlled, within +/- 15% of the nominal, through an electronic speed controller supplied as standard.

Refrigerant circuit

Heat pump complete with high efficiency low noise scroll compressors, 4 way refrigerant cycle reversing valve, evaporator coil, condenser coil, liquid receiver, liquid separator, double thermostatic expansion valve, liquid sight glass (only for models 150, 210, 330), filter drier, high/low pressure pressostats.

Accessibility

From below for the heat recovery, the filters, the condensate drain tray and the fans.

Regulation

The unit is provided with an electrical panel complete with power and control section (included the control for the 3 way valve for the supplementary hot water coil and associated actuators), ensuring the control of all the refrigerant circuit functions.

Included are:

- NTC return air temperature sensor;
- External air temperature sensor;
- Dampers and actuators in the free-cooling version;
- Pressure switch in the supply air filter;
- Card RS485

Supplied loose is a remote mounted control terminal for automatic control of the unit and an outlet to power and control a light to conform with the current regulation for smoking zones.

ACCESSORIES COMPATIBILITY

Circular flanges

| Accessory | URX07CF | URX10CF | | URX15CF | URX21CF |
|-------------------------|------------------|---------|---------|---------|---------|
| FGC07 | • | | | | |
| GC10 | | • | | | |
| ·GC15 | | | | • | |
| GC21 | | | | | • |
| Hot water coil module | | | | | |
| Accessory | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
| MBC07 | • | | | | |
| ABC10 | | • | | | |
| MBC15 | | | • | | |
| ABC21 | | | | • | |
| MBC33 | | | | | • |
| ree-cooling module | | | | | |
| ccessory | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
| CE07 | • | | | | |
| CE10 | | • | | | |
| CE15 | | | • | | |
| CE21 | | | | • | |
| CE33 | | | | | • |
| Module with electric co | oil | | | | |
| Accessory | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
| ABX07 | • | | | | |
| MBX10 | | • | | | |
| ABX15 | | | • | | |
| MBX21 | | | | • | |
| MBX33 | | | | | • |
| Module equipped with | silencer baffles | | | | |
| Accessory | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
| SUF07 | • | | | | |
| UF10 | | • | | | |
| SUF15 | | | • | | |
| UF21 | | | | • | |
| UF33 | | | | | • |

PERFORMANCE SPECIFICATIONS

| | | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
|--|------|-------------|-------------|---------------|---------------|---------------|
| Heat recovery unit | | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 400V~ 3N 50Hz | 400V~ 3N 50Hz | 400V~ 3N 50Hz |
| Cooling performances (1) | | | | | | |
| Total cooling capacity (heat recovery + refrigerant circuit) | kW | 6,1 | 7,3 | 10,2 | 15,0 | 23,0 |
| Cooling capacity available | kW | 1,4 | 1,7 | 2,2 | 3,4 | 5,1 |
| Cooling capacity recovered | kW | 0,9 | 1,3 | 2,0 | 2,8 | 4,2 |
| Summer thermal efficiency | % | 46,2 | 51,2 | 53,2 | 53,6 | 53,6 |
| Total input power | kW | 2,60 | 2,80 | 3,80 | 5,00 | 6,90 |
| Heating performances (2) | | | | | | |
| Heating capacity total (heat recovery + refrigerant | kW | 8,8 | 10,8 | 15,8 | 22,8 | 33,3 |
| circuit) | | 0,0 | 10,0 | 13,0 | 22,0 | 33,3 |
| Heating capacity available | kW | 2,4 | 2,3 | 3,0 | 4,8 | 5,2 |
| Recovered heating power | kW | 2,9 | 4,3 | 7,1 | 10,1 | 14,3 |
| Winter thermal efficiency | % | 46,2 | 51,2 | 53,2 | 53,6 | 53,6 |
| Total input power | kW | 2,00 | 2,00 | 3,30 | 4,00 | 5,50 |
| Compressor | | | | | | |
| Туре | type | Scroll | Scroll | Scroll | Scroll | Scroll |
| Compressor regulation | Туре | 0n-0ff | On-Off | 0n-0ff | On-Off | 0n-0ff |
| Number | no. | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | R410A | R410A | R410A | R410A | R410A |
| Refrigerant charge (3) | kg | 2,4 | 2,9 | 3,0 | 3,7 | 4,5 |
| Delivery fan | | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Number | no. | 1 | 1 | 1 | 1 | 1 |
| Nominal air flow rate | m³/h | 750 | 1000 | 1500 | 2100 | 3300 |
| Minimum air flow rate | m³/h | 640 | 850 | 1275 | 1785 | 2800 |
| High static pressure | Pa | 278 | 233 | 239 | 166 | 289 |
| Total fan input power | kW | 0,37 | 0,42 | 0,51 | 0,62 | 1,25 |
| Total fan input current | A | 2,4 | 2,4 | 3,6 | 3,6 | 6,6 |
| Recovery fan | | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Number | no. | 1 | 1 | 1 | 1 | 1 |
| Nominal air flow rate | m³/h | 750 | 1000 | 1500 | 2100 | 3300 |
| Minimum air flow rate | m³/h | 640 | 850 | 1275 | 1785 | 2800 |
| High static pressure | Pa | 248 | 218 | 233 | 163 | 273 |
| Total fan input power | kW | 0,37 | 0,42 | 0,51 | 0,62 | 1,25 |
| Total fan input current | A | 2,4 | 2,4 | 3,6 | 3,6 | 6,6 |

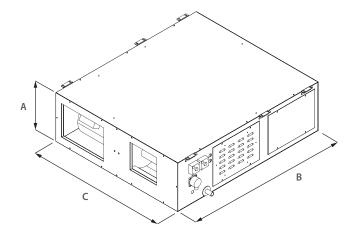
⁽¹⁾ Recovery air 26 °C 50%; External air 34 °C 50%.
(2) Recovery air 20 °C 50%; External air 5 °C 80%.
(3) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| | | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
|--------------------------------------|-----|---------|---------|---------|---------|---------|
| Hot water coil (accessory) | | | | | | |
| Row | no. | 2 | 2 | 2 | 2 | 2 |
| Pressure drop - air side | Pa | 11 | 18 | 23 | 42 | 78 |
| Heating operations 70 °C / 60 °C (1) | | | | | | |
| Heating capacity | kW | 5,00 | 6,00 | 8,70 | 10,30 | 16,80 |
| Water flow rate | I/h | 442 | 523 | 763 | 902 | 1475 |
| Pressure drop | kPa | 16 | 22 | 9 | 12 | 31 |
| Heating operations 45 °C / 40 °C (2) | | | | | | |
| Heating capacity | kW | 1,90 | 2,20 | 3,40 | 3,70 | 7,50 |
| Water flow rate | l/h | 336 | 382 | 584 | 638 | 1306 |
| Pressure drop | kPa | 11 | 14 | 6 | 7 | 28 |

⁽¹⁾ Water temperature (in/out) 70°C / 60°C; Compressor operating. (2) Water temperature (in/out) 45°C / 40°C; Compressor operating.

| | ' | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
|-------------------------------------|-----|---------|---------|---------------|---------|---------|
| Electric heating coil - (accessory) | | | | | | |
| Power supply | | | | 400V 3 ~ 50Hz | | |
| Stages | no. | 1 | 1 | 1 | 1 | 1 |
| Heating capacity | kW | 3,00 | 4,50 | 6,00 | 9,00 | 12,00 |
| Input current | A | 4,6 | 6,8 | 11,4 | 17,2 | 26,0 |
| Pressure drop - air side | Pa | 10 | 10 | 10 | 10 | 10 |

DIMENSIONS



| | | URX07CF | URX10CF | URX15CF | URX21CF | URX33CF |
|------------------------|----|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | |
| A | mm | 450 | 450 | 550 | 550 | 600 |
| В | mm | 1300 | 1300 | 1500 | 1500 | 1600 |
| C | mm | 1500 | 1500 | 1800 | 1800 | 1800 |
| Empty weight | kg | 205 | 218 | 272 | 298 | 328 |

[■] The weights are standard configuration units without accessories.

















URHE-CF

Heat recovery unit with refrigerant circuit

Air flow rate 1000 - 3300 m³/h



- Heat pump cooling circuit with high yield and low noise scroll compressors.
- High efficiency



DESCRIPTION

The units of the series URHE-CF are a highly efficient solution for satisfying the requirements of thermohygrometric wellness and air changes in air conditioning systems that are used in civil and service sector environments such as offices, bars, restaurants, etc.

The URHE-CF units are perfectly efficient machines in that they use a high performance plate cross flow heat recovery unit together with a heat pump refrigerant circuit operating with the R410A. refrigerant.

The use of the high performance cross flow heat recovery unit allows you to substantially reduce the start-up period of the refrigerant circuit during the year, thereby minimizing electrical energy consumption.

The unit's small size makes it easy to install also in false ceilings, maintaining excellent accessibility for the upkeep of all its internal components.

The numerous accessories that are available upon request, like for example the compact high efficiency filters, the water coils or the silencers, complete the functions of the machine that is generally combined with an air conditioning system.

FEATURES

Panels

Structure made of aluminium profiles with fibreglass reinforced nylon corners.

Sandwich panels, 25 mm thick, in galvanised sheet metal for the inner surface, pre-painted for the external surface with injected polyure-thane insulation (density 42 kg/m³).

Heat recovery

Aluminium cross flow plates optimised to guarantee elevated performance.

Air filters

Class G4, 80% gravimetric efficiency, according to EN 779, thickness 48 mm, located before the heat recovery both in the supply and return air flow.

Fan

Centrifugal fans with forward-curved blades with high pressure head motor directly attached. The air flow rate is kept constant by means of an electronic control device.

Refrigerant circuit

Heat pump with R410A refrigerant, equipped with high performance, quiet rotary or scroll compressors (depending on the size), 4-way cycle inversion valves, evaporator coil, condenser coil, liquid receiver, thermostatic valve, liquid indicator, filter-drier, high pressure switch, low pressure switch, safety valve, bypass valve (for smaller sizes).

Regulation

The unit is provided with an electrical panel complete with power and control section (included the control for the 3 way valve for the supplementary hot water coil and associated actuators), ensuring the control of all the refrigerant circuit functions.

Included are:

- NTC return air temperature sensor;
- External air temperature sensor;
- Dampers and actuators in the free-cooling version;
- Pressure switch in the supply air filter;
- Card RS485

Supplied loose is a remote mounted control terminal for automatic control of the unit and an outlet to power and control a light to conform with the current regulation for smoking zones.

ACCESSORIES COMPATIBILITY

Hot water coil module

| ccessory | | | | |
|--|--|------------------------------|--|--|
| <u> </u> | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
| BCX1 | • | | | |
| IBCX2 | | • | | |
| BCX3 | | | • | |
| BCX4 | | | | • |
| lodule with electric coil | | | | |
| ccessory | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
| IBCH1 | • | • | • | Oliliessei |
| MBCH2 | · | | · · · · · · · · · · · · · · · · · · · | • |
| | | | | <u> </u> |
| 7 compact high efficienc | | UNIU | 70.00 | UDUEDOCE |
| ccessory | URHE15CF | UKHI | E25CF | URHE33CF |
| CT1 | • | | | |
| (T2 | | | • | |
| CT3 | | | | • |
| lodule equipped with sil | | | | |
| ccessory | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
| ISS1 | • | • | • | |
| ISS2 | | | | • |
| ree-cooling module | | | | |
| ccessory | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
| GE1 | • | • | • | • |
| | | | | |
| ase for floor installation | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
| ccessory | | | UKHEZOCE | UKHESSCF |
| T1 | • | • | • | |
| | | | | |
| | | | | |
| | | | | • |
| IT3 | n of the additional modules. | | | |
| ाउ Base for floor installation | n of the additional modules. URHE10CF | URHE15CF | URHE25CF | • URHE33CF |
| IT3 Base for floor installation ccessory | | URHE15CF • | | |
| rase for floor installation ccessory M1 | URHE10CF • | | URHE25CF | URHE33CF |
| ase for floor installation ccessory M1 oof for outdoor installa | URHE10CF • tion. | | URHE25CF • | URHE33CF • |
| ase for floor installation ccessory IM1 coof for outdoor installat ccessory | URHE10CF • | | URHE25CF | URHE33CF |
| rase for floor installation ccessory M1 coof for outdoor installat ccessory E1 | URHE10CF • tion. URHE10CF | URHE15CF | URHE25CF • URHE25CF | URHE33CF • |
| ase for floor installation ccessory IM1 coof for outdoor installat ccessory PE1 PE2 | URHE10CF • tion. URHE10CF | URHE15CF | URHE25CF • | URHE33CF • |
| Rase for floor installation ccessory IM1 Coof for outdoor installat ccessory PE1 PE2 PE3 | URHE10CF • tion. URHE10CF • | URHE15CF | URHE25CF • URHE25CF | URHE33CF • URHE33CF |
| Rase for floor installation ccessory IM1 Roof for outdoor installat ccessory PE1 PE2 PE3 Roof for outdoor installat | URHE10CF tion. URHE10CF · tion of the additional modules. | • URHE15CF • | URHE25CF • URHE25CF • | URHE33CF • URHE33CF |
| Rase for floor installation ccessory IM1 Roof for outdoor installat ccessory PE1 PE2 PE3 Roof for outdoor installat ccessory | URHE10CF • tion. URHE10CF • | URHE15CF | URHE25CF • URHE25CF | URHE33CF • URHE33CF |
| ase for floor installation ccessory M1 coof for outdoor installation ccessory PE1 PE2 PE3 ccessory ccessory PM1 | URHE10CF tion. URHE10CF · tion of the additional modules. | • URHE15CF • | URHE25CF • URHE25CF • | URHE33CF URHE33CF URHE33CF |
| Rase for floor installation ccessory IM1 Roof for outdoor installation ccessory PE1 PE2 PE3 Roof for outdoor installation ccessory PM1 PM2 | URHE10CF tion. URHE10CF · tion of the additional modules. | • URHE15CF • | URHE25CF • URHE25CF • | URHE33CF • URHE33CF |
| Rase for floor installation ccessory IM1 Roof for outdoor installation ccessory PE1 PE2 PE3 Roof for outdoor installation ccessory PM1 PM2 Cit free-cooling. | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . | URHE15CF • URHE15CF • | URHE25CF URHE25CF URHE25CF • | URHE33CF URHE33CF URHE33CF |
| ase for floor installation ccessory M1 coof for outdoor installation ccessory PE1 PE2 PE3 coof for outdoor installation ccessory PM1 PM2 Cit free-cooling. ccessory | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . URHE10CF | URHE15CF URHE15CF URHE15CF | URHE25CF • URHE25CF • | URHE33CF URHE33CF URHE33CF |
| ATTS Base for floor installation (accessory) ADD (ADD (ADD (ADD (ADD (ADD (ADD (ADD | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . | URHE15CF • URHE15CF • | URHE25CF URHE25CF URHE25CF URHE25CF | URHE33CF URHE33CF URHE33CF URHE33CF |
| ATTS Base for floor installation (accessory) ADD (ADD (ADD (ADD (ADD (ADD (ADD (ADD | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . URHE10CF | URHE15CF URHE15CF URHE15CF | URHE25CF URHE25CF URHE25CF • | URHE33CF URHE33CF URHE33CF |
| accessory Roof for outdoor installar Accessory PE1 PE2 PE3 | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . URHE10CF | URHE15CF URHE15CF URHE15CF | URHE25CF URHE25CF URHE25CF URHE25CF | URHE33CF URHE33CF URHE33CF URHE33CF |
| ATTS Base for floor installation (accessory) ADD FOR OUTDOOR INSTALLATION CALLED TO SEE THE COLOR OF THE C | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . URHE10CF | URHE15CF URHE15CF URHE15CF | URHE25CF URHE25CF URHE25CF URHE25CF | URHE33CF URHE33CF URHE33CF URHE33CF |
| Rase for floor installation accessory IM1 Roof for outdoor installation accessory PE1 PE2 PE3 Roof for outdoor installation accessory PM1 PM2 Cott free-cooling. accessory CH1 CH2 | URHE10CF . URHE10CF . tion of the additional modules. URHE10CF . URHE10CF . | URHE15CF URHE15CF URHE15CF | URHE25CF URHE25CF URHE25CF URHE25CF URHE25CF | URHE33CF URHE33CF URHE33CF URHE33CF |

PERFORMANCE SPECIFICATIONS

| | | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
|--|------|-------------|-------------|---------------|---------------|
| Heat recovery unit | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 400V~ 3N 50Hz | 400V~ 3N 50Hz |
| Cooling performances (1) | | | | | |
| Total cooling capacity (heat recovery + refrigerant circuit) | kW | 6,6 | 8,7 | 13,8 | 19,8 |
| Cooling capacity available | kW | 1,8 | 3,1 | 3,3 | 5,4 |
| Cooling capacity recovered | kW | 2,2 | 3,2 | 4,5 | 5,8 |
| Summer thermal efficiency | % | 82,0 | 80,0 | 68,0 | 65,0 |
| Total input power | kW | 2,60 | 2,90 | 5,10 | 6,50 |
| Heating performances (2) | | | | | |
| Heating capacity total (heat recovery + refrigerant | kW | 10,9 | 14,2 | 24,8 | 33,1 |
| circuit) | | | · | | 33,1 |
| Heating capacity available | kW | 2,8 | 2,9 | 3,9 | 7,0 |
| Recovered heating power | kW | 3,6 | 10,0 | 15,3 | 19,6 |
| Winter thermal efficiency | % | 82,0 | 80,0 | 73,0 | 71,0 |
| Total input power | kW | 2,20 | 2,40 | 4,20 | 4,90 |
| Compressor | | | | | |
| Number | no. | 1 | 1 | 1 | 1 |
| Refrigerant | type | R410A | R410A | R410A | R410A |
| Delivery fan | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Number | no. | 1 | 1 | 11 | 1 |
| Nominal air flow rate | m³/h | 1000 | 1500 | 2500 | 3300 |
| Minimum air flow rate | m³/h | 800 | 1100 | 2000 | 2500 |
| High static pressure | Pa | 320 | 245 | 140 | 220 |
| Total fan input power | kW | 0,42 | 0,46 | 1,10 | 1,10 |
| Total fan input current | A | 3,1 | 3,1 | 5,3 | 5,3 |
| Recovery fan | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Number | no. | 1 | 1 | 1 | 1 |
| Nominal air flow rate | m³/h | 1000 | 1500 | 2500 | 3300 |
| Minimum air flow rate | m³/h | 800 | 1100 | 2000 | 2500 |
| High static pressure | Pa | 320 | 245 | 140 | 220 |
| Total fan input power | kW | 0,42 | 0,46 | 1,10 | 1,10 |
| Total fan input current | A | 3,1 | 3,1 | 5,3 | 5,3 |

⁽¹⁾ Recovery air 26 °C 50%; External air 34 °C 50%. (2) Recovery air 20 °C 50%; External air 5 °C 80%.

Technical data MBCH - Hot water coil (accessory)

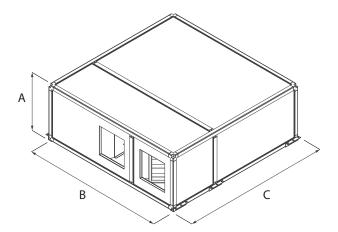
| | , | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
|--------------------------------------|-----|----------|----------|----------|----------|
| Hot water coil (accessory) | | | | | |
| Row | no. | 2 | 2 | 2 | 2 |
| Pressure drop - air side | Pa | 7 | 18 | 37 | 37 |
| Heating operations 70 °C / 60 °C (1) | | | | | |
| Heating capacity | kW | 7,70 | 10,30 | 15,60 | 19,70 |
| Water flow rate | l/h | 673 | 906 | 1363 | 1725 |
| Pressure drop | kPa | 11 | 8 | 18 | 32 |
| Heating operations 45 °C / 40 °C (2) | | | | | |
| Heating capacity | kW | 2,60 | 4,00 | 6,50 | 7,60 |
| Water flow rate | l/h | 446 | 700 | 1118 | 1311 |
| Pressure drop | kPa | 3 | 6 | 14 | 22 |

⁽¹⁾ Water temperature (in/out) 70°C / 60°C; Compressor operating. (2) Water temperature (in/out) 45°C / 40°C; Compressor operating.

Technical data MBCX - Electric heating coil - (accessory)

| | | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
|-------------------------------------|-----|----------|----------|----------|----------|
| Electric heating coil - (accessory) | | | | | |
| Power supply | | | 400V/3 | /50Hz | |
| Stages | no. | 1 | 1 | 1 | 1 |
| Heating capacity | kW | 5,00 | 7,50 | 12,50 | 10,00 |
| Input current | A | 7,6 | 11,4 | 19,0 | 25,1 |
| Pressure drop - air side | Pa | 10 | 10 | 10 | 10 |

DIMENSIONS



| | | URHE10CF | URHE15CF | URHE25CF | URHE33CF |
|------------------------|----|----------|----------|----------|----------|
| Dimensions and weights | | | | | |
| A | mm | 580 | 580 | 580 | 580 |
| В | mm | 1640 | 1640 | 1640 | 1970 |
| C | mm | 1500 | 1500 | 1990 | 2310 |
| Empty weight | kg | 300 | 310 | 373 | 410 |

[■] The weights are standard configuration units without accessories.











ERSR

High-efficiency heat recovery with rotary recovery unit

Air flow rate 1000 - 30000 m³/h



- · Technology high efficiency
- Mechanically controlled ventilation
- Recovery of up to 80% of the energy of the expelled air
- Air purification



DESCRIPTION

The ERSR heat recovery units for indoor and outdoor installation are designed for commercial applications and are able to combine maximum environmental comfort with definite energy saving.

It is more and more necessary in modern systems to create a forced ventilation, but also involves the expulsion of climate-controlled air, thus determining a higher energy consumption.

But ERSR units are equipped with a rotary heat recovery unit (upon request, also hygroscopic rotary) that enables you to save more than 80% of the energy that would otherwise be lost with the expelled stale air. These units can be integrated with fan coils and chillers, and can operate both in winter and summer.

VERSIONS

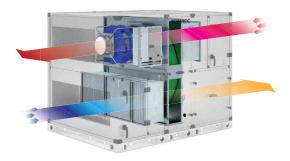
H With a hygroscopic rotary recovery **T** With a sensitive rotary recovery

STRUCTURE

 Rotary heat recovery unit (with the option in hygroscopic material), high-efficiency and low pressure drops.

- Soft air bag F7 filters (flow and recovery) equipped with a standard differential pressure switch, which can be extracted from either side facilitate their periodic cleaning.
- Fans (intake and flow), Plug fan with back curved blades with a directly coupled, electronically controlled motor for sizes 07-17 and with an inverter for sizes 21-24.
- Support frame and sandwich panels, 50 mm thick, in galvanised sheet steel for internal surfaces and pre-painted externally, and with mineral wool insulation (density 40 kg/m³). Base in galvanised sheet steel continuous profiles. Sizes 07 to 09 are monoblocs whilst the other sizes are divided into sections. The unit can be inspected from both sides.
- The unit is equipped with a power electric control board on the machine and adjustment purposely designed to reduce energy consumption. Equipped with a communication serial port on RS485 with MODBUS Master/Slave protocol.

FEATURES



Air expelled

Air recovery from the room

Outdoor fresh air

Air introduced into the room

Quality of the air

Nowadays, the quality of air inside rooms is fundamental. The mechanically controlled ventilation system is not only indispensable from an energetic point of view, but also for the comfort of the rooms.

ACCESSORIES

CAP: Intake waterproof cover. **BDL:** Delivery waterproof cover. **TDP:** Roof for outdoor installation. VRC: Condensate drip tray.

VVR: Variable speed recovery unit.

KDP: Dehumidification and post-heating management kit.

RBC: 3-way valve hot water coil module. RBF: 3-way valve cold water coil module. Harmful elements and smells in the air are eliminated by the efficient filtration system with bag filters (F7), which are easily extracted and regenerated.

High-efficiency air circulation thanks to plug-fans with electronically controlled motors or inverters, depending on

Freecooling: free comfort

During in-between seasons, outdoor climatic conditions can be more pleasant than those indoors. In such situations, the ERSRs stop the recovery unit enabling the intake of fresh outdoor air to air-condition indoor rooms at zero cost.

High-efficiency recovery unit (80% of the energy of the expelled air)

Air heat recovery both in summer and winter, thanks to the rotary recovery unit (hygroscopic version also available). Air introduced into the room is always optimised, thanks to the heat exchange between the air recovery and outdoor fresh air.

State of the art electronic control

Naturally, all these technological advantages are controlled by state of the art heat regulation, thus ensuring maximum energy savings in every condition of use.

RBE: Electric coil module.

RBP: 3-way valve cold water and post-heating coil module.

17

RSR17

21

RSR21

24

RSR24

MSS: Module equipped with silencer baffles.

FRR: Rectangular flange.

15

RSR15

GAR: Rectangular anti-vibration joint.

HSR: Fresh air intake damper with servocontrol.

RSR: Recirculation damper module. **HG4:** Flat filters efficiency G4.

ACCESSORIES COMPATIBILITY

Regulation

| Rectangular | flange. |
|-------------|---------|
|-------------|---------|

| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| H,T | FRR09 | FRR09 | FRR12 | FRR15 | FRR17 | FRR21 | FRR24 |
| nsate drain trav. | | | | | | | |
| nsate drain tray. | 07 | 00 | 13 | 15 | 17 | 21 | 24 |
| nsate drain tray. Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |

Additional modules

Rectangular anti-vibration joint. Ver

| Н,Т | GAR07 | GAR09 | GAR12 | GAR15 | GAR17 | GAR21 | GAR24 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Recirculation damper mod | lule. | | | | | | |
| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |

12

RSR12

09

The accessory cannot be fitted on the configurations indicated with -

Flat filters efficiency G4.

ΗТ

| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
|-----|-------|-------|-------|-------|-------|-------|-------|
| Н,Т | HG407 | HG409 | HG412 | HG415 | HG417 | HG421 | HG424 |
| | | | | | | | |

Fresh air intake damper with servocontrol.

| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
|-----|-------|-------|-------|-------|-------|-------|-------|
| Н,Т | HSR07 | HRS09 | HRS12 | HRS15 | HRS17 | HRS21 | HRS24 |

Roof protection for basic unit in the case of outdoor installation.

07

| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
|-----|-------|-------|-------|-------|-------|-------|-------|
| H,T | TDP07 | TDP09 | TDP12 | TDP15 | TDP17 | TDP21 | TDP24 |

| Delivery waterproof co | ver. | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|
| Ver | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
| H,T | BDL07 | BDL09 | BDL12 | BDL15 | BDL17 | BDL21 | BDL24 |

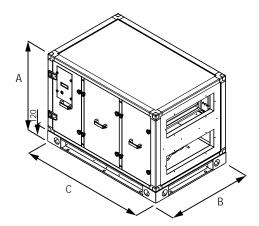
Accessories

| Air quality probe (VO | C) | ١. |
|-----------------------|----|----|
|-----------------------|----|----|

| Ver | 07 | 09 | | 12 | 15 | 17 | | 21 | 24 |
|---|------------------|-----------------------|----------|--------|-----------|---------------------------|----------|-----------|-----------|
| Н,Т | QP | QP | | QP | QP | QP | | QP | QP |
| /ariable speed recovery unit. | | · | | | | | | | • |
| Ver Ver | 07 | 09 | | 12 | 15 | 17 | | 21 | 24 |
| H,T | VVR07 | VVRO | 9 | VVR12 | VVR15 | VVR17 | | VR21 | VVR24 |
| · | | | | ****** | VIIIS | ****** | • | VII.2.1 | ****** |
| Dehumidification and post-he | | | | 12 | 15 | 17 | | 21 | 24 |
| Ver H,T | MDP | 09 KDP | | KDP | T5 KDP | 17 KDP | | Z1 KDP | Z4 KDP |
| n,ı | KUP | KUP | | KUP | KUP | KUP KUP | | KUP | KUP |
| Intake waterproof cover. | | | | | | | | | |
| Ver | 07 | 09 | | 12 | 15 | 17 | | 21 | 24 |
| Н,Т | CAP07 | CAPO | 9 | CAP12 | CAP15 | CAP17 | C | AP21 | CAP24 |
| 3-way valve hot water coil mo | dule. | | | | | | | | |
| Ver | 07 | 09 | | 12 | 15 | 17 | | 21 | 24 |
| H,T | RBC07 | RBCO | 9 | RBC12 | RBC15 | RBC17 | R | BC21 | RBC24 |
| PERFORMANCE SPECIFICA | ATIONS | | | | | | | | |
| Size | ATTONS | | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
| Heat recovery unit | | | <u> </u> | | | .,, | ., | | |
| Power supply | | | | | | 400V 3N ~ 50Hz | | | |
| Jnit type | | | | | UVNR (U | nit ventilation not resid | lential) | | |
| Heat recovery system type | | Type/n° | | | | | | | |
| Heat capacity recovered (EN308) (1) | | kW | 5,8 | 10,3 | 19,4 | 31,4 | 41,3 | 64,3 | 85,0 |
| Ory heating efficiency (2) | | % | 79,0 | 78,9 | 78,3 | 78,8 | 78,9 | 78,5 | 78,7 |
| nformation in compliance with Annex V of | regulation EU no | o. 1253/2014 | | | | | | | |
| Nominal air flow rate supply / recovery | | m³/s | 0,31 | 0,54 | 1,03 | 1,65 | 2,17 | 3,39 | 4,47 |
| Nominal air flow rate supply / recovery | | m³/h | 1100 | 1950 | 3700 | 5950 | 7800 | 12200 | 16100 |
| Minimum air flow rate | | m³/h | - | - | - | - | - | - | - |
| ans (3) | | | | | | | | | |
| Commissioning | | type | | | A | nalog signal of EC fan | | | |
| Гуре | | type | | | | Plug-fan | | | |
| | | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Supplied electrical power consumption | | kW | 0,27 | 0,48 | 0,85 | 1,31 | 1,90 | 2,20 | 2,80 |
| Recovered electrical power consumption | | kW | 0,27 | 0,48 | 0,86 | 1,30 | 1,90 | 2,20 | 2,80 |
| Total input electric power | | kW | 0,84 | 2,04 | 6,10 | 8,78 | 10,20 | 22,37 | 30,37 |
| SFP int. | | W/(m³/s) | 1061,00 | 994,00 | 927,00 | 733,00 | 669,00 | 778,00 | 759,00 |
| SFP int. lim. 2018 | | W/(m ³ /s) | 1141 | 1106 | 1033 | 942 | 887 | 886 | 887 |
| ilters face velocity | | m/s | 1,8 | 1,9 | 1,8 | 1,8 | 1,8 | 1,6 | 1,7 |
| Nominal external pressure Δp (3) | | Pa | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Jseful static supply pressure | | Pa | 360 | 520 | 1000 | 1100 | 900 | 1440 | 1500 |
| Jseful static recovery pressure | | Pa | 360 | 520 | 1000 | 1100 | 900 | 1440 | 1500 |
| Supplied internal pressure drop Δps int. | | Pa | 269 | 262 | 276 | 222 | 216 | 240 | 241 |
| Recovered internal pressure drop Δps int. | | Pa | 272 | 265 | 280 | 225 | 219 | 243 | 244 |
| ans static efficiency (4) | | % | 64,5 | 65,5 | 62,8 | 64,1 | 67,2 | 64,7 | 65,8 |
| nternal leakage (5) | | % | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| External leakage | | % | 0,2 | 0,2 | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 |
| Air filter | | | | | | | | | |
| Expelled air filter | | Type/n° | | | | | | | |
| Delivery air filter | | Type/n° | | | | | | | |
| Delivery filter energy classification | | ·· | | | | D | | | |
| Recovery filter energy classification | | | | | | D | | | |

⁽¹⁾ Expelled air: Tdb=25°C; Twb<14°C. Fresh air: Tdb=5°C.
(2) Relation between the inlet air heating gain and the expulsion air heating loss, both relating to the outside temperature, measured in dry reference conditions, with balanced mass flow and an internal/external air heating difference of 20K, excluding the heating gain generated by the fan motors and the internal leakage.
(3) Performances referring to clean filters
(4) According to regulation EU 327/2011
(5) External leakage test performed at +400 Pa and -400 Pa; internal leakage test performed at 250 Pa

DIMENSIONS AND WEIGHTS



| Size | | 07 | 09 | 12 | 15 | 17 | 21 | 24 |
|------------------------|----|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | |
| A | mm | 965 | 1285 | 1445 | 1765 | 2085 | 2405 | 2725 |
| В | mm | 895 | 1005 | 1375 | 1695 | 1855 | 2335 | 2665 |
| C | mm | 1375 | 1535 | 2045 | 2365 | 2365 | 3005 | 3005 |
| Empty weight | kg | 240 | 340 | 570 | 820 | 1010 | 1610 | 1980 |



AIR CONDITIONING

The air handling units customized according to different needs of the installer to carry the best comfort and the best quality in civil commercial and industrial.

| | AIR HANDL | ING UNITS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|-----|---------------------|----------------------------------|-------------------------|--------------------|--------------------|------|
| | Compact air handli | ng units | | | | |
| new | TVS | Air flow rate 800÷5200 m³/h | 800-5200 | 4,40-27,80 | 5,20-32,70 | |
| | TUN | Air flow rate 900÷4000 m³/h | 900-4000 | 4,16-29,40 | 5,07-56,10 | |
| | TS | Air flow rate 810÷4225 m³/h | 810-4225 | 4,39-24,93 | 8,89-52,44 | 275 |
| | TDA | Air flow rate 800÷3500 m³/h | 800-3500 | 4,90-22,30 | 2,50-45,40 | 279 |
| | TA | Air flow rate 800÷5000 m³/h | 800-5000 | 4,2-39,6 | 3,9-72,8 | |
| | TN | Air flow rate 3000÷23000 m³/h | 3000-23000 | 12,6-127,8 | | |
| | Modular air handlir | ng units | | | | |
| | NCD | Air handling units | 1134-79475 | | | 293 |
| | SPL 025-130 | | 4000-13000 | | | 296 |
| | SPL 160-250 | | 16000-25000 | | | 300 |
| | Packaged ROOF-TO | OP units | | | | |
| | RTX N1-N8 | For medium crowding applications | | 12,70-49,95 | 13,50-50,79 | 304 |
| | RTX 09-16 | For medium crowding applications | | 50-135 | 49-141 | 309 |
| | RTX 17-23 | For medium crowding applications | | | 152-310 | |
| | RTY 01-10 | For high crowding applications | | 30,2-133,6 | 29,3-137,9 | 320 |

















TVS

Air handling unit



- · Centrifugal fan with EC motor
- · Horizontal and vertical installation
- Available units with heat exchanger with 4-6 rows
- Large range of available static pressure
- Ductable unit



DESCRIPTION

TVS it is a thermoventilation unit designed to guarantee high heads in small to medium-sized rooms with nominal air flow rates from 800 to 5200 m³/h. As standard, it is suitable for 2-pipe systems, however the availability (as an accessory) of the secondary water coil, which can be installed inside the unit downstream of the main coil, makes it also suitable for 4-pipe systems.

The unit is suitable for both horizontal installation in suspended ceilings and vertical installation on walls for greater versatility in use.

FEATURES

Structure

The supporting structure is made of galvanised steel sheet panels of suitable thickness. The panels are internally insulated with M1 fire reaction class insulation according to French standard NFP 92-501.

The bottom panels, which can be inspected, are of the sandwich type made of galvanised steel sheet with 15 mm thick polyurethane insulation (density 45 kg/m³).

The particular formulation of the polyurethane foam provides the sandwich panels with reaction to fire class M1 according to NFP standard 92-501. The polyurethane foam was developed with precise specifications to achieve the exceptional value of GWP = 0 (Global Warming Potential), not contributing to the greenhouse effect.

The presence of sandwich type panels on the bottom of the machine enables to significantly reduce the noise outside the unit in typical horizontal suspended ceiling installations.

The unit is supplied with specific brackets for attaching it to the wall.

Heat exchanger coil

Coil made with copper pipes and aluminium louvers blocked by the mechanical expansion of the pipes.

The main coil can be 4 or 6-row.

The secondary coil, available as an accessory, is 2-row.

Hydraulic connections

The hydraulic connections are on the right and are made with female threaded connections, however male-male threaded sleeves, with air release valves, are supplied to facilitate hydraulic connections.

The side of the hydraulic connections can be reversed on site by turning the coil.

The definition of "RH connections side" or "LH connections side" refers to the position of the coil connections in relation to the air flow direction (convection: air flow from behind a hypothetical operator inserted in the flow).

Condensate drip

The galvanised steel condensate drip tray is thermally insulated and has a double drain on the right and left. The unused condensate drain must be sealed.

Ventilation group

The ventilation unit consists of double intake centrifugal fans with blades facing forwards.

The electric motor, directly coupled to the impeller, is of the EC type. The use of the EC motor allows significant energy savings when compared to traditional AC motors and a continuous control of the rotation speed, simplifying air flow rate calibration operations on site.

Except for the first two sizes, Sensorless fans with integrated flow control are installed, without the need for additional accessories.

Air filtration

Air filtration is provided, as standard, by 48 mm thick corrugated synthetic filters with Coarse 55% efficiency according to EN ISO 16890 (G4 according to EN 779) positioned in the intake.

The filters are easily accessible for servicing and cleaning. Extraction is carried out by pulling them out from below by removing the respective panel.

Electrical wiring

On the side of the hydraulic connections there is an electric box, with IP55 protection rating, for connecting power and the 0-10V control signal or a potentiometer of the ventilation unit.

In the case of reversing the side of the hydraulic connections, there is no need to reverse the position of the electrical connections.

VENTILATION EFFICIENCY

All fans in the range TVS use an EC motor that, operating without slip losses, consumes less energy than conventional AC motors.

This applies to all speeds, i.e. also to partial load operation. The EC motor therefore uses less energy than the AC motor under all operating conditions and has a significantly higher level of efficiency of the drive system (motor and control).

In addition, continuous speed control via the 0-10V signal allows the air flow rate to be varied, and the static pressure can be adapted to the system's pressure drop, making unit start-up particularly easy.



Fans in sizes from TVS204 to TVS526 use an innovative "driver" that provides advanced functions that go far beyond simple speed control via the 0-10V signal (factory setting) and monitoring of operating limits to enable safe operation.

In fact, advanced operating modes can be activated through the use of free PC software, an RS485 interface cable and a commercially available USB to RS485 converter.

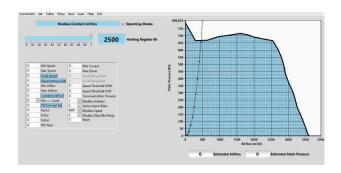
Particularly innovative is the operating mode with constant flow rate control. The air flow rate can be varied via an analogue 0-10V signal or the desired value can be set via the dedicated software.

Sensorless constant flow rate

Sensorless constant flow rate control is performed without the use of pressure probes.

The driver determines the operating point by measuring the rotational speed and input power of the fan and then adjusts the rotational speed to maintain the set value of the air flow rate within a predetermined range.

This control system can compensate for a change in system pressure loss or a change in unit pressure loss due to e.g. filter fouling.



CONFIGURATOR

| 40111140 | |
|----------|--|
| Field | Description |
| 1,2,3 | TVS |
| 4,5 | Size 08, 15, 20, 27, 34, 40, 52 |
| 6 | Version (1) |
| 4 | 4-row main coil with right hydraulic connections |
| 6 | 6-row main coil with right hydraulic connections |

(1) The side of the hydraulic connections can be reversed on site

ACCESSORIES

BS2x: 2 row water coil: 2-row water coil for 4-pipe system, located internally, downstream of the main coil. The threaded sleeves for the hydraulic connections and the air vent valve are supplied.

F7x: filter with ePM1 50% efficiency: Filter with ePM1 50% efficiency according to EN ISO 16890 (F7 according to EN 779) to be placed inside the unit in place of the standard filter.

F7x: filter with ePM1 80% efficiency: Filter with ePM1 80% efficiency according to EN ISO 16890 (F9 according to EN 779) to be placed inside the unit in place of the standard filter.

SMBEx: Electric coil module with double safety thermostat (manual and automatic) to be installed on the unit's flow side. Not compatible for vertical installation.

SMF7x: Filter module with ePM1 50% efficiency according to EN ISO 16890 (F7 according to EN 779) to be positioned at the unit's flow or intake in order to carry out a two-stage filtration. Filter extraction from below.

SMF9x: Filter module with ePM1 80% efficiency according to EN ISO 16890 (F9 according to EN 779) to be positioned at the unit's flow or intake in order to carry out a two-stage filtration. Filter extraction from below.

SM25x: Mixing chamber module complete with two galvanised steel calibration dampers to be positioned at the intake of the unit. The damper pins are equipped with an easily removable hand control.

SMLFx: Module consisting of state-of-the-art devices with UV germicidal lamp with photocatalytic effect for active disinfection. To be placed at the discharge of the unit. The complete elimination of germs,

bacteria and viruses cannot be achieved by using SMLFx modules alone, but a reduction in microbial load means less exposure to infection.

FAIx: Filter holder flange to allow intake in a direction perpendicular to the air flow through the unit. The use of the flange does not allow the installation of other accessories or the ducting of the unit to the intake. **SERx:** Galvanised steel damper to be installed on the intake or flow side of the unit. The damper pin is equipped with an easily removable hand control.

GRAx: Natural anodised aluminium intake grid with fixed louvers inclined at 45°. To be installed at the intake of the unit via the supplied flange.

GRMx: Natural anodised aluminium flow grille with two rows of adjustable louvers. To be installed on the unit's flow side via the flange supplied.

V2Vx for main and secondary coil: 2-way valve for main and secondary coil.

V3Vx for main and secondary coil: 3-way valve for main and secondary coil

AV24F - 24V / ON-OFF actuator for main and secondary coil: 24V / ON-OFF actuator for main and secondary coil.

AV24FM - 24V / ON-OFF - 0-10V actuator for main and secondary coil: Actuator with 24V power supply for ON-OFF or modulating 0-10V control of 2-way and 3-way main and secondary coil valves.

AV24M - 24V / 0-10V actuator for main and secondary coil: Actuator with 24V power supply for modulating 0-10V control of 2-way and 3-way main and secondary coil valves.

GT2x - 2-way valve tube assembly for main coil: Hose assembly and hydraulic fittings for connecting the 2-way valve to the main coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT2Px - **2-way valve hose assembly for secondary coil:** Hose assembly and hydraulic fittings for connecting the 2-way valve to the secondary coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT3x - 3-way valve hose assembly for main coil: Hose assembly and hydraulic fittings for connecting the 3-way valve to the main coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

GT3Px - **3-way valve hose assembly for secondary coil:** Hose assembly and hydraulic fittings for connecting the 3-way valve to the

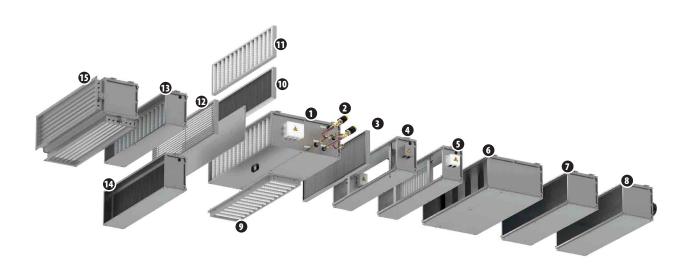
secondary coil. The hose assembly allows the coil to be operated in countercurrent in the case of the right-hand side connections (standard configuration) and in direct current operation in the case of the left-hand side connections (modification to be carried out on site).

PVV: Potentiometer for fan speed control. The +10V signal is available directly on the electrical connection box located outside the unit.

SMSSx - **Silencer baffles module:** Module consisting of rock wool silencing baffles covered with polyethylene film and protective mesh to prevent flaking. To be installed on the flow and/or intake side of the unit

SPCx: Closed plenum to be positioned at the flow or intake of the unit. Depending on the opening of the flow/intake hole, the accessory allows flow/intake in both longitudinal and perpendicular directions to the air flow through the unit.

SPMx: Plenum with circular flows to be positioned at the flow and/or intake of the unit. The multi-diameter (200mm, 180mm, 150mm) circular plastic couplings allow the connection of circular ducts. Flow/intake is allowed in the longitudinal direction of the air flow through the unit.



| Key | : | 6 | SMSS | 12 | GRA |
|-----|-------------------------------|----|------|----|------|
| 1 | TVS | 7 | SPC | 13 | SMF9 |
| 2 | Valvola (V3V, AV24,GT3, GT3P) | 8 | SPM | 14 | SMF7 |
| 3 | GRM | 9 | FAI | 15 | SM2S |
| 4 | SMLF | 10 | F7 | | |
| 5 | SMBE | 11 | F9 | | |

ACCESSORIES COMPATIBILITY

Control

Potentiometer for fan speed control

| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PVV | | • | • | | • | | | • | | | • | | | • |

Water valves

2 way valve kit

| | TVS084 | TVS154 | TVS204 | TVS274 | TVS344 | TVS404 | TVS524 |
|----------------|-------------|-------------|--------|--------|--------|--------|--------|
| Main coil | | | | | | | |
| 2 way valve | V2V2 | V2V3 | V2V4 | V2V5 | V2V5 | V2V6 | V2V6 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT21 | GT21 | GT22 | GT23 | GT23 | GT24 | GT24 |
| Secondary coil | | | | | | | |
| 2 way valve | V2V1 | V2V1 | V2V4 | V2V4 | V2V4 | V2V5 | V2V5 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT2P1 | GT2P1 | GT2P2 | GT2P2 | GT2P2 | GT2P3 | GT2P3 |
| | TVS086 | TVS156 | TVS206 | TVS276 | TVS346 | TVS406 | TVS526 |
| Main coil | | | | | | | |
| 2 way valve | V2V2 | V2V3 | V2V4 | V2V5 | V2V5 | V2V6 | V2V6 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT21 | GT21 | GT22 | GT23 | GT23 | GT24 | GT24 |
| Secondary coil | | | | | | | |
| 2 way valve | V2V1 | V2V1 | V2V4 | V2V4 | V2V4 | V2V5 | V2V5 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT2P1 | GT2P1 | GT2P2 | GT2P2 | GT2P2 | GT2P3 | GT2P3 |

Tabella 3 way valve kit

| | TVS084 | TVS154 | TVS204 | TVS274 | TVS344 | TVS404 | TVS524 |
|-----------------|-------------|-------------|--------|--------|--------|--------|--------|
| Main coil | | • | • | • | • | • | • |
| Three-way valve | V3V2 | V3V3 | V3V4 | V3V5 | V3V5 | V3V6 | V3V6 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT31 | GT31 | GT32 | GT33 | GT33 | GT34 | GT34 |
| Secondary coil | | | | | | | |
| Three-way valve | V3V1 | V3V1 | V3V4 | V3V4 | V3V4 | V3V5 | V3V5 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT3P1 | GT3P1 | GT3P2 | GT3P2 | GT3P2 | GT3P3 | GT3P3 |
| | | | | | | | |

| | TVS086 | TVS156 | TVS206 | TVS276 | TVS346 | TVS406 | TVS526 |
|-----------------|-------------|-------------|--------|--------|--------|--------|--------|
| Main coil | | | | | | | |
| Three-way valve | V3V3 | V3V3 | V3V4 | V3V5 | V3V5 | V3V6 | V3V6 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT31 | GT31 | GT32 | GT33 | GT33 | GT34 | GT34 |
| Secondary coil | | | | | | | |
| Three-way valve | V3V1 | V3V1 | V3V4 | V3V4 | V3V4 | V3V5 | V3V5 |
| Actuator | AV24F/AV24M | AV24F/AV24M | AV24FM | AV24FM | AV24FM | AV24FM | AV24FM |
| Pipe assembly | GT3P1 | GT3P1 | GT3P2 | GT3P2 | GT3P2 | GT3P3 | GT3P3 |

Heating only additional coil

2 row water coil

| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| BS21 | • | • | | | | | | | | | | | | |
| BS22 | | | • | • | | | | | | | | | | |
| BS23 | | | | | • | • | | | | | | | | |
| BS24 | | | | | | | • | • | • | • | | | | |
| BS25 | | | | | | | | | | | • | • | • | • |

Electric coil module

2-stage electric coil module

| z stage cice | con mo | uuic | | | | | | | | | | | | |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
| SMBE1 (1) | • | • | | | | | | | | | | | | |
| SMBE2 (1) | | | • | • | | | | | | | | | | |
| SMBE3 (1) | | | | | • | • | | | | | | | | |
| SMBE4 (1) | | | | | | | • | • | • | • | | | | |
| SMBE5 (1) | | | | | | | | | | | • | • | | • |

⁽¹⁾ Module not compatible for vertical installation.

Installation accessories

SER5

| Filter modul | | 50% eff | iciency | | | | | | | | | | | |
|-----------------------------------|--------------|---------|------------|---------|------------|--------|---------|--------|--------|---------|--------|---------|---------|---------|
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS52 |
| MF71 | • | • | | | | | | | | | | | | |
| ΛF72 | | | • | • | | | | | | | | | | |
| MF73 | | | | | • | • | | | | | | | | |
| MF74 | | | | | | | • | • | • | • | | | | |
| MF75 | | | | | | | | | | | • | • | • | • |
| ilter modul | e with ePM1 | 80% eff | iciency | | | | | | | | | | | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| MF91 | • | • | | | | | | | | | | | | |
| MF92 | | | • | • | | | | | | | | | | |
| MF93 | | | | | | | | | | | | | | |
| MF94 | | | | | | | | | | • | | | | |
| MF95 | | | | | | | | | | | | | | |
| ilencer baff | les module | | | | | | | | | | | | | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| VISS1 | • | • | TVJIJT | 173130 | 1177207 | 143200 | 1177277 | 173270 | TYJJTT | 1175540 | 173707 | 1175700 | 1173724 | 1 7 3 3 |
| MSS2 | | | • | • | | | | | | | | | | |
| MSS3 | | | • | • | • | | | | | | | | | |
| MSS4 | | | | | • | • | • | • | • | | | | | |
| MSS5 | | | | | | | • | • | • | • | • | • | • | |
| | | | | | | | | | | | | • | - | • |
| | tic device m | | T1/6:: | W1 / P | | W1/4 | T1/6 | T1/6 | THEFT | THE | T1/2:- | m | w | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| MLF1 | • | • | | | | | | | | | | | | |
| MLF2 | | | • | • | | | | | | | | | | |
| MLF3 | | | | | • | • | | | | | | | | |
| MLF4 | | | | | | | • | • | • | • | | | | |
| MLF5 | | | | | | | | | | | • | • | • | • |
| Aixing chan | ber module | comple | te with tu | o calib | ration dar | npers | | | | | | | | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| M2S1 | • | • | | | | | | | | | | | | |
| M2S2 | | | • | • | | | | | | | | | | |
| M2S3 | | | | | • | • | | | | | | | | |
| SM2S4 | | | | | | | • | • | • | • | | | | |
| M2S5 | | | | | | | | | | | • | • | • | • |
| losed plenu | ım | | | | | | | | | | | | | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| PC1 | • | • | | | | | | | | | | | | |
| PC2 | | | | | | | | | | | | | | |
| PC3 | | | | | • | • | | | | | | | | |
| PC4 | | | | | | | | | | | | | | |
| PC5 | | | | | | | | | | | • | • | • | |
| | | | | | | | | | | | | | | |
| | circular del | | TUCATA | TUCATA | TUCOOA | TUCOOC | TUCATA | TUCATA | TUCOAA | TUGO 46 | TUCADA | TUCADA | TUCEDA | TUCE |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| PM1 | • | • | | | | | | | | | | | | |
| PM2 | | | • | • | | | | | | | | | | |
| PM3 | | | | | • | • | | | | | | | | |
| PM4 | | | | | | | • | • | • | • | | | | |
| PM5 | | | | | | | | | | | • | • | • | • |
| abella Filte | | | | | | | | | | | | | | |
| ccessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS5 |
| Al1 | • | • | | | | | | | | | | | | |
| AI2 | | | • | • | | | | | | | | | | |
| Al3 | | | | | • | • | | | | | | | | |
| A14 | | | | | | | • | • | • | • | | | | |
| AI5 | | | | | | | | | | | • | • | • | • |
| ialvanised s | teel dampe | | | | | | | | | | | | | |
| | TVS084 | TVS086 | TVS1 | 54 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS3 | 44 | TVS346 | TVS524 | TVS52 |
| ccessory | | | | | | | | | | | | | | |
| ER1 | • | • | | | | | | | | | | | | |
| ER1 | | | | | | | | | | | | | | |
| ER1 ER2 | | | | | | • | • | | | | | | | |
| Accessory EER1 EER2 EER3 EER4 | | | | | | • | | • | • | • | | • | | |

F95

| Alluminium | Intake grid | ls | | | | | | | | | | | | |
|---------------|-------------|---------------------|---------|---------|---------|-------------|--------|---------|-------------|--------|---------|----------|---------|-------------|
| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
| GRA1 | • | • | | | | | | | | | | | | |
| GRA2 | | | • | • | | | | - | | | - | | | - |
| GRA3 | | | | | • | • | | | | | | | | |
| GRA4 | | | | | | | • | • | • | | - | | | |
| GRA5 | | | | | | | | | | | • | • | • | • |
| Alluminium | delivery gr | ille | | | | | | | | | | | | |
| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
| GRM1 | • | • | | | | | | | | | | | | |
| GRM2 | | | | | | | | | | | | | | |
| GRM3 | | | | | • | • | | | | | | | | |
| GRM4 | | | | | | | • | • | • | • | | | | |
| GRM5 | | | | | | | | | | | | | | |
| Filter with e | PM1 50% e | fficiency TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
| F71 | 1 1 3 0 0 4 | • | 1177174 | 1171110 | 1173204 | 1 1 3 2 0 0 | 173274 | 11/32/0 | 1 1 3 3 4 4 | 173340 | 1173404 | 1 1 3400 | 1173324 | 1 1 3 3 2 0 |
| F72 | <u> </u> | • | | | | | | | | | | | | |
| F73 | | | • | • | | • | | | | | | | | |
| F74 | | | | | | | | | | | | | | |
| F75 | | | | | | | | | | | | | | |
| 173 | | | | | | | | | | | | | - | |
| Filter with e | PM1 80% e | fficiency | | | | | | | | | | | | |
| Accessory | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
| F91 | • | • | | | | | | | | | | | | |
| F92 | | | • | • | | | | | | | | | | |
| F93 | | | | | • | • | | | | | | | | |
| F94 | | | | | | | • | • | • | • | | | | |
| FOF | | | | | | | | | | | | | | |

4-ROW COIL UNIT PERFORMANCE DATA

Units designed to operate with all recirculating air or maximum 10% of external air.

| | | TVS084 | TVS154 | TVS204 | TVS274 | TVS344 | TVS404 | TVS524 |
|--|-------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Performance in heating mode 70 °C / 60 |)°C - Main coil 2- | pipe system (1) | | | | | | |
| Heating capacity | kW | 10,50 | 18,80 | 25,10 | 31,90 | 41,40 | 54,20 | 66,40 |
| Water flow rate | I/h | 901 | 1615 | 2157 | 2738 | 3557 | 4659 | 5705 |
| Pressure drop | kPa | 26 | 25 | 37 | 23 | 41 | 38 | 55 |
| Performance in heating mode 45 °C / 40 |)°C - Main coil fo | r 2-pipe systems (2) | | | | | | |
| Heating capacity | kW | 5,20 | 9,30 | 12,40 | 15,80 | 20,50 | 26,80 | 32,70 |
| Water flow rate | l/h | 896 | 1600 | 2139 | 2718 | 3525 | 4610 | 5640 |
| Pressure drop | kPa | 28 | 27 | 40 | 24 | 44 | 40 | 58 |
| Heating performance 65 °C/55 °C - Seco | ndary coil 4-pip | e system (3) | | | | | | |
| Heating capacity | kW | 4,40 | 8,10 | 14,40 | 18,40 | 23,60 | 28,30 | 32,90 |
| Water flow rate | I/h | 380 | 697 | 1235 | 1579 | 2031 | 2433 | 2828 |
| Pressure drop | kPa | 6 | 26 | 18 | 20 | 32 | 19 | 25 |
| Cooling performances 7 °C / 12 °C - Mair | ı coil 2 pipe syste | em (4) | | | | | | |
| Cooling capacity | kW | 4,40 | 7,70 | 10,90 | 13,20 | 17,90 | 23,20 | 27,80 |
| Sensible cooling capacity | kW | 3,30 | 6,00 | 8,20 | 10,40 | 13,60 | 17,10 | 20,70 |
| Water flow rate | I/h | 753 | 1322 | 1870 | 2266 | 3078 | 3979 | 4766 |
| Pressure drop | kPa | 22 | 20 | 33 | 20 | 36 | 34 | 46 |
| Fan | | | | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Fan motor | type | EC | EC | EC | EC | EC | EC | EC |
| Number | no. | 1 | 2 | 1 | 1 | 2 | 2 | 2 |
| Nominal air flow rate | m³/h | 800 | 1500 | 2000 | 2600 | 3400 | 4000 | 5200 |
| Nominal useful head | Pa | 150 | 150 | 200 | 200 | 200 | 200 | 200 |
| Maximum useful head (2-pipes) (5) | Pa | 213 | 242 | 351 | 361 | 380 | 403 | 414 |
| Maximum useful head (4-pipes) (5) | Pa | 194 | 217 | 321 | 337 | 342 | 377 | 375 |
| Input power (2-pipes) (6) | W | 199 | 358 | 545 | 825 | 826 | 998 | 1494 |
| Input power (4 pipes) (6) | W | 207 | 377 | 574 | 859 | 896 | 1044 | 1608 |
| Sound data (7) | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 66,0 | 68,0 | 77,0 | 77,0 | 78,0 | 80,0 | 80,0 |
| Sound power level (outlet) | dB(A) | 66,0 | 68,0 | 74,0 | 76,0 | 74,0 | 77,0 | 78,0 |
| Diametre hydraulic fittings | | | | | | | | |
| Main coil | Ø | 3/4"F | 3/4"F | 1″F | 1″F | 1″F | 1″F | 1″F |
| Secondary coil | Ø | 1/2"F | 1/2"F | 3/4"F | 3/4"F | 3/4"F | 3/4"F | 3/4"F |
| Condensate discharge diameter | mm | 1/2" M | 1/2" M | 1/2" M | 1/2"M | 1/2" M | 1/2"M | 1/2" M |
| Power supply | | | | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz |
| Air filter | | | | | | | | |
| Туре | type | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) |
| Electric coil | | - | | | | | | - |
| Electric coil capacity | kW | 1,5 + 1,5 | 2,5 + 2,5 | 4+4 | 6+6 | 6+6 | 7,5 + 7,5 | 7,5 + 7,5 |
| Stages | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power supply | | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz |
| (1) De en einterne 2000 de Weten | (:/ +) 70 °C / C0 | | | | | | | |

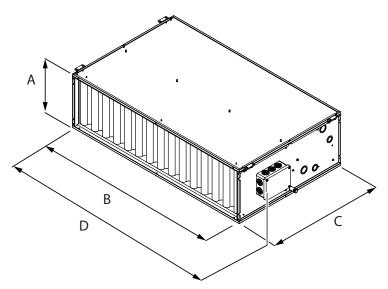
⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 70°C / 60°C
(2) Room air temperature 20°C d.b.; Water (in/out) 45°C / 40°C
(3) Room air temperature 20°C d.b.; Water (in/out) 65°C / 55°C
(4) Room air 27°C b.s. 47% U.R.; Water (in/out) 7°C/12°C
(5) Maximum high static pressure at nominal air flow rate, in heating mode
(6) Input power at nominal air flow rate, at nominal high static pressure, in heating mode
(7) Sound data in 2-pipe configuration, at nominal air flow rate, at nominal high static pressure, in heating mode

6-ROW COIL UNIT PERFORMANCE DATA

| | | TVS086 | TVS156 | TVS206 | TVS276 | TVS346 | TVS406 | TVS526 |
|---|---------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Performance in heating mode 70 °C/6 | 0°C - Main coil 2- | | | | | | | |
| Heating capacity | kW | 11,50 | 20,60 | 27,40 | 35,10 | 45,40 | 58,30 | 72,00 |
| Water flow rate | l/h | 986 | 1774 | 2359 | 3017 | 3900 | 5009 | 6189 |
| Pressure drop | kPa | 40 | 27 | 30 | 23 | 42 | 31 | 45 |
| Performance in heating mode 45 °C/4 | 0°C - Main coil fo | r 2-pipe systems (2) | | | | | | |
| Heating capacity | kW | 5,70 | 10,20 | 13,60 | 17,30 | 22,50 | 28,90 | 35,80 |
| Water flow rate | l/h | 978 | 1762 | 2342 | 2985 | 3876 | 4980 | 6166 |
| Pressure drop | kPa | 42 | 29 | 32 | 25 | 44 | 33 | 48 |
| Heating performance 65 °C/55 °C - Sec | ondary coil 4-pip | e system (3) | | | | | | |
| Heating capacity | kW | 4,40 | 8,10 | 14,40 | 18,40 | 23,60 | 28,30 | 32,90 |
| Water flow rate | l/h | 380 | 697 | 1235 | 1579 | 2031 | 2433 | 2828 |
| Pressure drop | kPa | 6 | 26 | 18 | 20 | 32 | 19 | 25 |
| Cooling performances 7 °C / 12 °C - Mai | n coil 2 pipe syste | em (4) | | | | | | |
| Cooling capacity | kW | 5,30 | 9,00 | 12,30 | 15,40 | 20,70 | 25,90 | 31,60 |
| Sensible cooling capacity | kW | 3,80 | 6,70 | 9,00 | 11,60 | 15,00 | 18,70 | 22,90 |
| Water flow rate | l/h | 912 | 1538 | 2104 | 2649 | 3554 | 4443 | 5427 |
| Pressure drop | kPa | 39 | 24 | 28 | 23 | 41 | 30 | 42 |
| Fan | | | | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Fan motor | type | EC | EC | EC | EC | EC | EC | EC |
| Number | no. | 1 | 2 | 1 | 1 | 2 | 2 | 2 |
| Nominal air flow rate | m³/h | 800 | 1500 | 2000 | 2600 | 3400 | 4000 | 5200 |
| Nominal useful head | Pa | 150 | 150 | 200 | 200 | 200 | 200 | 200 |
| Maximum useful head (2-pipes) (5) | Pa | 204 | 230 | 338 | 351 | 364 | 392 | 397 |
| Maximum useful head (4-pipes) (5) | Pa | 185 | 205 | 308 | 327 | 326 | 366 | 358 |
| Input power (2-pipes) (6) | W | 203 | 368 | 557 | 839 | 856 | 1016 | 1544 |
| Input power (4 pipes) (6) | W | 211 | 387 | 588 | 873 | 932 | 1064 | 1658 |
| Sound data (7) | | | | | | | | |
| Sound power level (inlet + radiated) | dB(A) | 67,0 | 69,0 | 78,0 | 77,0 | 78,0 | 81,0 | 80,0 |
| Sound power level (outlet) | dB(A) | 67,0 | 69,0 | 74,0 | 77,0 | 74,0 | 78,0 | 79,0 |
| Diametre hydraulic fittings | | | | | | | | |
| Main coil | Ø | 3/4"F | 3/4"F | 1″F | 1″F | 1″F | 1″F | 1"F |
| Secondary coil | Ø | 1/2"F | 1/2"F | 3/4"F | 3/4"F | 3/4"F | 3/4"F | 3/4"F |
| Condensate discharge diameter | mm | 1/2" M | 1/2" M | 1/2" M | 1/2"M | 1/2"M | 1/2"M | 1/2"M |
| Power supply | | | | | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz | 230V~50Hz |
| Air filter | | | | | | | | |
| Туре | type | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) | Coarse 55% (G4) |
| Electric coil | | | | | | | | |
| Electric coil capacity | kW | 1,5 + 1,5 | 2,5 + 2,5 | 4+4 | 6+6 | 6+6 | 7,5 + 7,5 | 7,5 + 7,5 |
| Stages | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power supply | | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz |

⁽¹⁾ Room air temperature 20°C d.b.; Water (in/out) 70 °C / 60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C / 40 °C
(3) Room air temperature 20 °C d.b.; Water (in/out) 65 °C / 55 °C
(4) Room air 27 °C b.s.47% U.R.; Water (in/out) 7 °C/12 °C
(5) Maximum high static pressure at nominal air flow rate, in heating mode
(6) Input power at nominal air flow rate, at nominal high static pressure, in heating mode
(7) Sound data in 2-pipe configuration, at nominal air flow rate, at nominal high static pressure, in heating mode

DIMENSIONS



Unit for horizontal installation

| | | TVS084 | TVS086 | TVS154 | TVS156 | TVS204 | TVS206 | TVS274 | TVS276 | TVS344 | TVS346 | TVS404 | TVS406 | TVS524 | TVS526 |
|----------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Dimensions and weigh | ghts | | | | | | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 |
| В | mm | 700 | 700 | 1000 | 1000 | 1000 | 1000 | 1400 | 1400 | 1400 | 1400 | 2000 | 2000 | 2000 | 2000 |
| C | mm | 700 | 700 | 700 | 700 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 |
| D | mm | 770 | 770 | 1070 | 1070 | 1070 | 1070 | 1470 | 1470 | 1470 | 1470 | 2070 | 2070 | 2070 | 2070 |
| Net weight | kg | 27,00 | 28,00 | 42,00 | 44,00 | 56,00 | 59,00 | 79,00 | 83,00 | 89,00 | 94,00 | 119,00 | 125,00 | 120,00 | 126,00 |

















TUN

Air handling unit



- Very quiet
- Available units with heat exchanger with 4-6 rows
- Ductable units



DESCRIPTION

The air-conditioning units of the TUN series are intended for civil, commercial and hotel systems in small to medium sized environments. They are distinguished by their compactness (a necessary requisite for false ceiling applications) and low noise. The wide range of accessories meets various system requirements.

STRUCTURE

Case

Structure made with 1.5 mm thick hot-dip galvanized sheet metal insulated internally with class V0 insulation. The unit is predisposed for connection with any delivery or intake channels.

Specific mounts help with the task of fixing the unit to the wall either horizontally or vertically.

Ventilation group

Double suction centrifugal fans with forward blades and directly coupled motor. The single-phase 230V\(\overline{M}\)50Hz motor offers multiple speeds, three of which can be selected using a command.

Heat exchanger coil

The 4, 6 row coils, which can be fed with hot or refrigerated water, are made of copper tubing with aluminium fins blocked by the mechanical expansion of the tubes.

They are equipped with threaded sleeves for the plumbing connections and the air breather valve. The coils can be rotated at the work site. Also available, 2-row post-heating coils made of copper tubing with aluminium fins blocked by mechanical expansion of the tubes.

Condensate drip

Insulated internal condensation collection tub made of 1 mm thick hot-dip galvanised sheet metal.

ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric

heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

WMT05: Electronic thermostat with thermostated ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

M25: Galvanised steel mixing chamber with two dampers for air calibration. Louver pitch 50 mm, the galvanised steel adjustment knob (diameter 8 mm) can be motorised.

M3S: Galvanised steel mixing chamber with three air calibration dampers and galvanised steel plates. Must necessarily be paired with the VRF accessory.

FTF: Soft bag filters. Section in galvanised steel sheet metal with F6 soft bag filters. Must necessarily be paired in the powered units.

B2R: Hot water coil with 2 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil.

PBE: Section with post heating coil composed of armoured heaters equipped with a double safety thermostat.

SSL: Module with seven galvanised steel sheet metal silencers and seven stone wool silencers covered by polyethylene film to prevent chipping.

S2Z: Galvanised steel opposed louvers dampers for mixing outside air with recirculating air.

VRF: Recovery fan unit equipped with electronic variable speed control. The unit is contained in a galvanised steel sheet metal section equipped with flat filters, efficiency level G4 (EN779).

SAS: Air calibration damper with galvanised sheet metal louvers to be positioned for intake. Louver pitch 50 mm; the galvanised steel adjustment knob can be motorised.

GMD: Air delivery grill with louvers that can be positioned for the delivery of air in the room to be treated. May be installed directly on the device by removing the flanges or installed on the wall.

GAP: Intake grille with louvers at a fixed 45° angle. May be installed directly on the device by removing the flanges or installed on the wall. **FPI:** ISO COARSE 50% filter flange for intake at base.

FPF: Filter ISO COARSE 50%.

ACCESSORIES COMPATIBILITY

Control panels

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| AER503IR | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SA5 | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SIT3 | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT05 | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT10 | • | | • | | | | | | | | | | | • |

With WMT05 and WMT10 control panels: when paired with units TUN154-156-254-256-404-404P-406-406P use of the SIT3 accessory is mandatory and the 2A fuse must be replaced by a 4A fuse.

2 way valve kit

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCT102 | • | • | • | • | | | | | | | | | | |
| VCT202 | | | | | | • | • | | | | | | | |
| VCT402 | | | | | | | | | • | • | | | | |
| VCT402P | | | | | | | | | | | • | • | • | • |

3 way valve kit

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCT103 | • | • | • | • | | | | | | | | | | |
| VCT203 | | | | | • | • | • | • | | | | | | |
| VCT403 | | | | | | | | | • | • | | | | |
| VCTAN3P | | | | | | | | | | | | | | |

Actuator VCTK 230V

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCTK | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

Actuator 24V

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VCTKM | • | • | | • | • | • | • | • | • | • | | | • | • |

2-damper mixing chamber

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| M2S1 | • | • | • | • | | | | | | | | | | |
| M2S2 | | | | | • | • | | | | | | | | |
| M2S3 | | | | | | | • | • | | | | | | |
| M2S4 | | | | | | | | | | | • | | • | |
| M2S5 | | | | | | | | | | | | • | | • |

3-damper mixing chamber

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| M3S1 | • | • | • | • | | | | | | | | | | |
| M3S2 | | | | | | | | | | | | | | |
| M3S3 | | | | | | | • | • | | | | | | |
| M3S4 | | | | | | | | | | | • | | • | |
| M3S5 | | | | | | | | | | | | • | | • |

| | | C | | - | |
|------|-----|-------|------|-----|-----|
| Soft | naa | to It | or c | OCT | nn |
| JUIL | vuu | 1116 | ei 3 | etu | UII |

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| FTF1 | | • | • | • | | | | | | | | | | |
| FTF2 | | | | | • | • | | | | | | | | |
| FTF3 | | | | | | | | • | | | | | | |
| FTF4 | | | | | | | | | • | • | • | - | • | |
| FTF5 | | | | | | | | | | | | • | | • |

2 row water coil

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| B2R11 | • | • | • | • | | | | | | | | | | |
| B2R21 | | | | | | • | | | | | | | | |
| B2R31 | | | | | | | • | • | | | | | | |
| B2R41 | | | | | - | | | | | | | | | |
| B2R51 | | | | | | | | | | | | | | • |

Section with post-heating coil

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| PBE2 | • | • | • | • | | | | | | | | | | |
| PBE24M | • | • | • | • | | | | | | | | | | |
| PBE24T | • | • | • | • | | | | | | | | | | |
| PBE3 | | | | | • | • | | | | | | | | |
| PBE34M | | | | | • | • | | | | | | | | |
| PBE36T | | | | | • | • | | | | | | | | |
| PBE4 | | | | | | | • | • | | | | | | |
| PBE44M | | | | | | | • | • | | | | | | |
| PBE46T | | | | | | | • | • | | | | | | |
| PBE5 | | | | | | | | | • | • | | | | |
| PBE6 | | | | | | | | | | | • | | • | |
| PBE7 | | | | | | | | | | | | • | | • |

Silencer baffles module

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| SSL1 | • | • | • | • | | | | | | | | | | |
| SSL2 | | | | | • | • | | | | | | | | |
| SSL3 | | | | | | | | | | | | | | |
| SSL4 | | | | | | | | | • | • | • | | • | |
| SSL5 | | | | | | | | | | | | • | | • |

2 zone damper (70-30%)

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| S2Z1 | • | • | • | • | | | | | | | | | | |
| S2Z2 | | | | | • | • | | | | | | | | |
| S2Z3 | | | | | | | • | | | | | | | |
| S2Z4 | | | | | | | | | • | • | • | | • | |
| S2Z5 | | | | | | | | | | | | • | | • |

Recovery fan section with ISO COARSE 50% filter

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| VRF1 | • | • | • | • | | | | | | | | | | |
| VRF3 | | | | | • | • | | | | | | | | |
| VRF4 | | | | | | | | | | | | | | |
| VRF5 | | | | | | | | | | | | | | |
| VRF6 | | | | | | | | | | | • | | • | |
| VRF7 | | | | | | | | | | | | • | | • |

Plenum with multiple circular deliveries

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| PMM1 | • | • | • | • | | | | | | | | | | |
| PMM2 | | | | | • | • | | | | | | | | |
| PMM3 | | | | | | | | | | | | | | |
| PMM4 | | | | | | | | | • | • | | | • | |
| PMM5 | | | | | | | | | | | | | | |

Delivery plenum

| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|-----------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| TPMC1 | • | • | • | • | | | | | | | | | | |
| TPMC2 | | | | | • | • | | | | | | | | |
| TPMC3 | | | | | | | • | | | | | | | |
| TPMC4 | | | | | | | | | • | • | • | | • | |
| TPMC5 | | | | | | | | | | | | • | | • |

| Closed | deliver | ı plenum |
|--------|---------|----------|

| Accessory | TUN104P | TUN106 | TUN106P | TUN154 | TUN15 | 5 TUN20 | 4 TUN | 206 T | UN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|--|-----------------|----------|---------|---------|----------|---------|----------|---------|---------|---------|---------|----------|---------|---------|
| PMC1 | • | • | • | | | | | | | | | | | |
| PMC2 | | | | | | | | | | | | | | |
| PMC3 | | | | | | • | | • | | | | | | |
| PMC4 | | | | | | | | | | | | | | |
| PMC5 | | | | | | | | | | | | • | | |
| Suction damper | | | | | | | | | | | | | | |
| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| SAS1 | • | • | | | | | | | | | | | | |
| SAS2 | | | | - | | | | | | | | · | | |
| SAS3 | | | | | | | | | | | | | | |
| SAS3 | | | | | | | <u> </u> | | | | | | | |
| | | | | | | | | | • | • | • | | • | |
| SASS | | | | | | | | | | | | • | | • |
| Outlet grille with adju Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| GMD1 | 1011104 | 10111041 | • | • | 10111174 | 1011100 | 1011204 | 1011200 | 1011234 | 1011230 | 1011404 | 10114045 | 1011400 | 1011900 |
| GMD2 | • | | • | • | | | | | | | | | | |
| | | | | | • | • | | | | | | | | |
| GMD3 | | | | | | | • | • | | | | | | |
| GMD4 | | | | | | | | | • | • | • | | • | |
| GMD5 | | | | | | | | | | | | • | | • |
| Intake grids | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| | | | | | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 | | | | | | | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 GAP3 | | | | | | | | | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 | | | | | | | | | | | | TUN404P | | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 | | | | | | | | | | | | | | TUN4061 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange | | | | | | | | | | | | | | |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory | TUN104 | TUN104P | TUN106 | TUN106P | • | • | • | • | • | • | • | • | • | • |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | • | • | • | • | • | • | • | • |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | · TUN204 | TUN206 | TUN254 | • | TUN404 | • | TUN406 | • |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FPI11 FPI12 FPI13 FPI14 | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | · TUN204 | TUN206 | • | TUN256 | • | TUN404P | • | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FP115 | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | · TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | • | TUN406 | • |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FF115 FFilter ISO COARSE 809 | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FF115 Friter ISO COARSE 809 Accessory | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | · TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FP115 Filter ISO COARSE 809 Accessory | TUN104 . TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FF115 Filter ISO COARSE 809 Accessory FFF1 FFF2 | TUN104 . TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |
| Accessory GAP1 GAP2 GAP3 GAP4 GAP5 Filter flange Accessory FP111 FP112 FP113 FP114 FF115 Filter ISO COARSE 809 Accessory | TUN104 . TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406 |

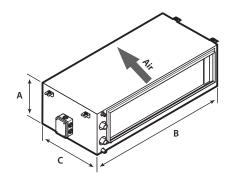
PERFORMANCE SPECIFICATIONS

| | | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 |
|---|----------------------------------|--|--|--|--|--|--|--|---|
| Cooling performance 7 °C / 12 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 4,16 | 4,16 | 5,60 | 5,60 | 9,30 | 11,10 | 12,50 | 14,10 |
| Sensible cooling capacity | kW | 3,30 | 3,30 | 4,00 | 4,00 | 6,60 | 7,60 | 8,70 | 9,80 |
| Latent cooling capacity | kW | 0,86 | 0,86 | 1,60 | 1,60 | 2,70 | 3,50 | 3,80 | 4,30 |
| Water flow rate system side | I/h | 715 | 715 | 963 | 963 | 1599 | 1910 | 2141 | 2420 |
| Pressure drop system side | kPa | 3 | 3 | 9 | 9 | 16 | 34 | 33 | 20 |
| Heating performance 70 °C / 60 °C (2) | | | | | | | | | |
| Heating capacity | kW | 10,20 | 10,20 | 11,30 | 11,30 | 19,00 | 21,10 | 24,90 | 27,50 |
| Water flow rate system side | l/h | 880 | 880 | 975 | 975 | 1663 | 1849 | 2183 | 2410 |
| Pressure drop system side | kPa | 3 | 3 | 6 | 6 | 13 | 24 | 25 | 15 |
| Heating performance 45 °C / 40 °C (3) | | | | | | | | | |
| Heating capacity | kW | 5,07 | 5,07 | 5,62 | 5,62 | 9,45 | 10,50 | 12,39 | 13,68 |
| Electric heating coil - (accessory) | | | | | | | | | |
| Heating capacity | kW | 4,00 | 6,00 | 4,00 | 6,00 | 8,00 | 8,00 | 10,00 | 10,00 |
| Stages | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power supply | | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz |
| Fan | | | | | | | | | |
| Туре | type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Fan motor | type | Asynchronous | Asynchronous | Asynchronous | Asynchronous | Asynchronous | Asynchronous | Asynchronous | Asynchronous |
| Number | no. | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 |
| Air flow rate | m³/h | 900 | 900 | 900 | 900 | 1500 | 1500 | 2000 | 2000 |
| High static pressure | Pa | 110 | 330 | 110 | 330 | 150 | 150 | 170 | 170 |
| Diametre hydraulic fittings | | | | | | | | | |
| Main coil | Ø | 1" | 1″ | 1" | 1″ | 1" | 1″ | 1" | 1" |
| Secondary coil | Ø | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |
| Condensate discharge diameter | mm | 20,5 | 20,5 | 20,5 | 20,5 | 20,5 | 20,5 | 20,5 | 20,5 |
| , | | TUN254 | TIIA | 1256 | TUN404 | TUN404P | TIIA | 1406 | TUN406P |
| Cooling performance 7 °C / 12 °C (1) | | 1011234 | 101 | 1230 | 1011404 | 10114041 | 101 | 1400 | 10114001 |
| Cooling capacity | kW | 16,50 | 18 | ,50 | 23,30 | 26,40 | 26 | ,60 | 29,40 |
| Sensible cooling capacity | kW | 11,40 | | ,70 | 16,30 | 18,20 | | ,50 | 20,10 |
| Latent cooling capacity | kW | 5,10 | | 80 | 7,00 | 8,20 | | 10 | 9,30 |
| Water flow rate system side | I/h | 2832 | | 84 | 4002 | 4536 | | 72 | 5051 |
| Pressure drop system side | kPa | 33 | | 10 | 60 | 37 | | 6 | 28 |
| | | | | .0 | | | | 0 | 20 |
| Heating performance 70 °C / 60 °C (2) | | | | | | 31 | | | |
| Heating performance 70 °C / 60 °C (2) Heating capacity | kW | 32 30 | 35 | 40 | | | 52 | 20 | 56 10 |
| Heating capacity | kW I/h | 32,30 2831 | | ,40 | 46,70 | 51,10 | | ,20 | 56,10 4909 |
| Heating capacity Water flow rate system side | l/h | 2831 | 31 | 01 | 46,70 4089 | 51,10 4475 | 45 | 73 | 4909 |
| Heating capacity Water flow rate system side Pressure drop system side | | | 31 | | 46,70 | 51,10 | 45 | , | |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) | I/h kPa | 2831 24 | 31 | 01 | 46,70 4089 46 | 51,10 4475 41 | 45 | | 4909 20 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity | l/h | 2831 | 31 | 01 | 46,70 4089 | 51,10 4475 | 45 | 73 | 4909 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) | I/h kPa kW | 2831 24 16,07 | 31 1 17 | 01 4 ,61 | 46,70 4089 46 23,23 | 51,10 4475 41 25,42 | 45 2 25 | .773 .88 .997 | 4909 20 27,91 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity | I/h kPa kW | 2831 24 16,07 | 31 1 17 | 01 4 ,61 | 46,70 4089 46 23,23 | 51,10 4475 41 25,42 | 45 2 25 20 | .773 .78 .97 .00 | 4909 20 27,91 20,00 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages | I/h kPa kW | 2831 24 16,07 12,00 2 | 31 1 17 | ,00 2 | 46,70 4089 46 23,23 20,00 2 | 51,10 4475 41 25,42 20,00 2 | 25 20 | .73 .8 .97 .00 2 | 20 27,91 20,00 2 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply | I/h kPa kW | 2831 24 16,07 | 31 1 17 | 01 4 ,61 | 46,70 4089 46 23,23 | 51,10 4475 41 25,42 | 25 20 | .773 .78 .97 .00 | 4909 20 27,91 20,00 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan | I/h kPa kW kW no. | 2831 24 16,07 12,00 2 400V~3 50Hz | 31 17 17 12 400V~ | 01 4 ,61 ,00 2 -3 50Hz | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz | 25 20 20 400V~ | ,00 2 3 50Hz | 4909 20 27,91 20,00 2 400V~3 50Hz |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type | I/h kPa kW kW no. | 2831 24 16,07 12,00 2 400V~3 50Hz | 31 17 12 400V~ | 01 4 ,61 ,00 2 -3 50Hz | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz | 25 25 20 400V~ | 73 8 .97 .00 2 3 50Hz | 4909 20 27,91 20,00 2 400V~3 50Hz |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor | l/h kPa kW kW no. | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal | 31 17 12 400V~ Centr Asynch | 01 4 ,61 ,00 2 -3 50Hz | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous | 45 25 20 400V~ Centr Asynch | 73 8 8 ,97 ,00 2 3 50Hz ifugal ironous | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number | kW kW no. | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 | 31 17 12 400V~ Centr Asynch | 01 4 ,61 ,00 2 -3 50Hz ifugal ironous | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 | 45 25 20 400V~ Centr Asynch | 73 8 8 | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number Air flow rate | kW kW no. type type no. m³/h | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 2500 | 31 17 12 400V~ Centr Asynct | 01 44 ,61 ,00 2 -3 50Hz ifugal aronous 1 | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 | 45 25 20 400V~ Centr Asynch | 73 8 8 | 4909 20 27,91 20,00 2 400V~350Hz Centrifugal Asynchronous 2 4000 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number Air flow rate High static pressure | kW kW no. | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 | 31 17 12 400V~ Centr Asynct | 01 4 ,61 ,00 2 -3 50Hz ifugal ironous | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 | 45 25 20 400V~ Centr Asynch | 73 8 8 | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number Air flow rate High static pressure Diametre hydraulic fittings | kW kW no. type type no. m³/h Pa | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 2500 150 | 31 17 12 400V~ Centr Asynct | 01 44 ,61 ,00 2 2-3 50Hz ifugal aronous 1 | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 120 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 | 45 25 20 400V~ Centr Asynch | 73 8 8 | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number Air flow rate High static pressure Diametre hydraulic fittings Main coil | kW kW no. type type no. m³/h Pa | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 2500 150 | 31 17 12 400V~ Centr Asynct | 01 4 ,61 ,00 2 -3 50Hz ifugal nronous 1 1000 550 | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 120 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 | 45 25 20 400V~ Centr Asynch | 73 8 8 | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 |
| Heating capacity Water flow rate system side Pressure drop system side Heating performance 45 °C / 40 °C (3) Heating capacity Electric heating coil - (accessory) Heating capacity Stages Power supply Fan Type Fan motor Number Air flow rate High static pressure Diametre hydraulic fittings | kW kW no. type type no. m³/h Pa | 2831 24 16,07 12,00 2 400V~3 50Hz Centrifugal Asynchronous 1 2500 150 | 31 17 12 400V~ Centr Asynct 25 1. | 01 44 ,61 ,00 2 2-3 50Hz ifugal aronous 1 | 46,70 4089 46 23,23 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 120 | 51,10 4475 41 25,42 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 | 45 25 20 400V~ Centr Asynch 1: | 73 8 8 | 4909 20 27,91 20,00 2 400V~3 50Hz Centrifugal Asynchronous 2 4000 220 |

(1) Room air temperature 27 °Cd.b./19 °C w.b.; Water (in/out) 7 °C/12 °C;
(2) Room air temperature 10 °Cd.b.; Water (in/out) 70 °C/60 °C
(3) Room air temperature 10 °Cd.b.; Water (in/out) 45 °C/40 °C;

Unit designed to operate with all recirculating air or maximum 10% of external air.

DIMENSIONS



| - | | TUN104 | TUN104P | TUN106 | TUN106P | TUN154 | TUN156 | TUN204 | TUN206 | TUN254 | TUN256 | TUN404 | TUN404P | TUN406 | TUN406P |
|------------------------|----|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 300 | 300 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 |
| В | mm | 700 | 700 | 700 | 700 | 1050 | 1050 | 1050 | 1050 | 1475 | 1475 | 1475 | 2100 | 1475 | 2100 |
| C | mm | 700 | 700 | 700 | 700 | 700 | 700 | 850 | 850 | 850 | 850 | 850 | 1000 | 850 | 1000 |
| D | mm | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Net weight | kg | 33,00 | 37,00 | 35,00 | 38,00 | 47,00 | 49,00 | 59,00 | 61,00 | 88,00 | 92,00 | 88,00 | 108,00 | 92,00 | 108,00 |













TS

Air handling unit



- Very quiet
- Available units with heat exchanger with 3-4-6 rows
- Ductable units



DESCRIPTION

The air-conditioning units of the TS series are intended for civil, commercial and hotel systems in small to medium sized environments. They are distinguished by their compactness (a necessary requisite for false ceiling applications) and low noise. The wide range of accessories meets various system requirements.

STRUCTURE

Case

Structure made of Galvanized steel 10/10 sheet steel and internally covered with sheets of polyethylene and polyester to obtain improved thermal and acoustic insulation.

Ventilation group

Statically and dynamically balanced centrifugal fans:

- Three-speed electrical motor with running capacitor permanently activated and internal thermal protection
- Transmission system relay card for each speed (excluding the models TS13 and TS16)
- Useful static pressure available for any canalisation

Heat exchanger coil

3, 4 or 6 row coils, powered with hot or cold water and made of copper piping with aluminium louvered fins blocked by mechanical expansion of the pipes. The threaded sleeves for the hydraulic connections and the air bleeding valve are supplied. The coils can be rotated on site.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Condensate drip

Condensate drip tray in stainless steel AISI 304 with insulation.

ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp),

with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems.

PXAE: Electronic thermostat with thermostated or continuous ventilation.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualiet).

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

TSBA: 2-row coil for post-heating, contained in a delivery installation plenum.

TSFA: Air filter class Coarse 50%

TSGA: Horizontal suction grille with fixed louvers to produce suction from below together with the TSPA accessory.

TSMX: Section that mixes the recirculating air and the external air. Calibration of the mix via the damper, motorisation is possible.

VCT: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

TSFM: Delivery flange with rectangular section.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

ACCESSORIES COMPATIBILITY

Control panels

| Model | 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|
| AER503IR (1) | • | • | • | • | • | • | • | • | • | • | • | • |
| FMT10 | • | • | • | • | • | • | • | • | • | • | • | • |
| PXAE | • | • | • | • | • | • | • | • | • | • | • | • |
| SA5 (2) | • | • | • | • | • | • | • | • | • | • | • | • |
| SW5 (2) | • | • | • | • | • | • | • | • | • | • | • | • |
| TX (1) | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT05 (1) | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT06 (1) | • | • | • | • | • | • | • | • | • | • | • | • |
| WMT10 (1) | | | • | • | | | | | | • | | |

| WM105 (1) | | | | | | | | | | | |
|---|---|--|--|--|--|---|---|--|--|--|---|
| WMT06 (1) | | • | • | • | • | | • | • | • | | • |
| VMT10 (1) | | • | | • | | | • | • | | | |
| 1) Wall-mounting | g. If the unit intake | e exceeds 0.7A, or se | everal units need to | be managed with | a single thermosta | t, board SIT3 and/or | r SIT5 is required. | | | | |
| 2) Probe for AER5 | 03IR-TX thermost | e exceeds 0.7A, or se ats, if fitted. | | | 3 | , | | | | | |
| ?-row coil fo | or post-hear | tina | | | | | | | | | |
| 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSBA10 | TSBA10 | TSBA20/30 | TSBA20/30 | TSBA20/30 | TSBA40 | TSBA40 | TSBA50 | TSBA50 | TSBA60/70 | TSBA60/70 | TSBA60/70 |
| 13DA IU | 130410 | 130820/30 | 130A20/30 | 130A20/30 | 130840 | 130840 | טכאטכו | IJDAJU | 130A00/70 | 130400/70 | 130400/70 |
| Air filter | | | | | | | | | | | |
| 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSFA10 | TSFA10 | TSFA20/30 | TSFA20/30 | TSFA20/30 | TSFA40 | TSFA40 | TSFA50 | TSFA50 | TSFA60/70 | TSFA60/70 | TSFA60/70 |
| IJFATU | IDINIU | 13[HZU/30 | 13FAZU/30 | 13[HZU/3U | 131440 | 131440 | IDFADU | IJFAJU | 13/400/70 | 137400/70 | 13[400/70 |
| ntake grids | ; | | | | | | | | | | |
| 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSGA10 | TSGA10 | TSGA20/40 | TSGA20/40 | TSGA20/40 | TSGA20/40 | TSGA20/40 | TSGA50/70 | TSGA50/70 | TSGA50/70 | TSGA50/70 | TSGA50/70 |
| UNDCI | UNDCI | 13UA20/40 | 130A20/40 | 130A20/40 | 130/20/40 | 130/20/40 | 130/30/70 | 130A30/70 | 13000770 | 1300,70 | 130070770 |
| Section that | t mixes | | | | | | | | | | |
| 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSMX10 | TSMX10 | TSMX20/30 | TSMX20/30 | TSMX20/30 | TSMX40 | TSMX40 | TSMX50 | TSMX50 | TSMX60/70 | TSMX60/70 | TSMX60/70 |
| 13IVIA 1U | I DINIV IO | 13/0/A20/30 | 13/0/20/30 | 13/9/AZU/30 | 13/0/40 | 13/01/40 | I DIVINOU | ISWINSU | 131/1/00//0 | 13/00//0 | 131/100//(|
| Plenum witl | h suction | | | | | | | | | | |
| | | 23 | 34 | 36 | 43 | | 53 | 56 | 63 | 74 | 76 |
| | 1/ | | | 30 | 43 | 46 | 23 | | 03 | /4 | |
| 13 TCD4.10 | 16 TCDA10 | | | TCD4 20 /20 | TCDA 40 | TCDA 40 | TCDACO | TCDATO | TCDA C0 /70 | TCDA CO /70 | TCD4 (0/70 |
| TSPA10 | 16 TSPA10 | TSPA20/30 | TSPA20/30 | TSPA20/30 | TSPA40 | TSPA40 | TSPA50 | TSPA50 | TSPA60/70 | TSPA60/70 | TSPA60/70 |
| TSPA10 | TSPA10 | | | TSPA20/30 | TSPA40 | TSPA40 | TSPA50 | TSPA50 | TSPA60/70 | TSPA60/70 | TSPA60/70 |
| TSPA10 Delivery ple | TSPA10 | TSPA20/30 | TSPA20/30 | | | | | | | | |
| TSPA10 Delivery ple 13 | TSPA10 enum 16 | TSPA20/30 23 | TSPA20/30 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSPA10 Delivery ple | TSPA10 | TSPA20/30 | TSPA20/30 | | | | | | | | 76 |
| TSPA10 Delivery ple 13 TSPM10 | TSPA10 P. Num 16 TSPM10 | TSPA20/30 23 | TSPA20/30 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flai | TSPA10 PROUTS 16 TSPM10 TGE | TSPA20/30 23 TSPM20/30 | TSPA20/30 34 TSPM20/30 | 36 TSPM20/30 | 43 TSPM40 | 46 TSPM40 | 53 TSPM50 | 56 TSPM50 | 63 TSPM60/70 | 74 TSPM60/70 | 76 TSPM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 | TSPA10 Pnum 16 TSPM10 nge 16 | TSPA20/30 23 TSPM20/30 | TSPA20/30 34 TSPM20/30 | 36 TSPM20/30 | 43 TSPM40 | 46 TSPM40 46 | 53 TSPM50 | 56 TSPM50 | 63 TSPM60/70 | 74 TSPM60/70 | 76 TSPM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flai | TSPA10 PROUTS 16 TSPM10 TGE | TSPA20/30 23 TSPM20/30 | TSPA20/30 34 TSPM20/30 | 36 TSPM20/30 | 43 TSPM40 | 46 TSPM40 | 53 TSPM50 | 56 TSPM50 | 63 TSPM60/70 | 74 TSPM60/70 | 76 TSPM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 | TSPA10 PRIMM 16 TSPM10 ROBE 16 TSFM10 | TSPA20/30 23 TSPM20/30 | TSPA20/30 34 TSPM20/30 | 36 TSPM20/30 | 43 TSPM40 | 46 TSPM40 46 | 53 TSPM50 | 56 TSPM50 | 63 TSPM60/70 | 74 TSPM60/70 | 76 TSPM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve | TSPA10 PRIMM 16 TSPM10 ROBE 16 TSFM10 Kit | TSPA20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 | 36 TSPM20/30 36 TSFM20/30 | 43 TSPM40 43 TSFM40 | 46 TSPM40 46 TSFM40 | 53 TSPM50 53 TSFM50 | 56 TSPM50 56 TSFM50 | 63 TSPM60/70 63 TSFM60/70 | 74 TSPM60/70 74 TSFM60/70 | 76 TSPM60/70 76 TSFM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flai 13 TSFM10 2 way valve 13 | TSPA10 enum 16 TSPM10 nge 16 TSFM10 kit 16 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 | 36 TSPM20/30 36 TSFM20/30 | 43 TSPM40 43 TSFM40 | 46 TSPM40 46 TSFM40 | 53 TSPM50 53 TSFM50 | 56 TSPM50 56 TSFM50 | 63 TSPM60/70 63 TSFM60/70 | 74 TSPM60/70 74 TSFM60/70 | 76 TSPM60/70 76 TSFM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve | TSPA10 PRIMM 16 TSPM10 ROBE 16 TSFM10 Kit | TSPA20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 | 36 TSPM20/30 36 TSFM20/30 | 43 TSPM40 43 TSFM40 | 46 TSPM40 46 TSFM40 | 53 TSPM50 53 TSFM50 | 56 TSPM50 56 TSFM50 | 63 TSPM60/70 63 TSFM60/70 | 74 TSPM60/70 74 TSFM60/70 | 76 TSPM60/70 76 TSFM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 | TSPA10 2 num 16 TSPM10 nge 16 TSFM10 kit 16 VCT102 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 | 36 TSPM20/30 36 TSFM20/30 | 43 TSPM40 43 TSFM40 | 46 TSPM40 46 TSFM40 | 53 TSPM50 53 TSFM50 | 56 TSPM50 56 TSFM50 | 63 TSPM60/70 63 TSFM60/70 | 74 TSPM60/70 74 TSFM60/70 | 76 TSPM60/70 76 TSFM60/70 |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 3 way valve | TSPA10 P. M. | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 B way valve 13 | TSPA10 P. M. | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 3 way valve | TSPA10 P. M. | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flai 13 TSFM10 2 way valve 13 VCT102 3 way valve 13 VCT103 | TSPA10 16 TSPM10 16 TSPM10 Mage 16 TSFM10 kit 16 VCT102 kit 16 VCT103 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 | TSPA20/30 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 B way valve 13 VCT103 Actuator VC | 16 TSPM10 16 TSPM10 16 TSPM10 16 TSFM10 kit 16 VCT102 kit 16 VCT102 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT102 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 63 VCT403 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 3 way valve 13 VCT103 Actuator VC 13 | TSPA10 Inum 16 TSPM10 Inge 16 TSFM10 kit 16 VCT102 kit 16 VCT103 TK 230V 16 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT102 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 34 VCT103 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 46 VCT203 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT403P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 B way valve 13 VCT103 Actuator VC | 16 TSPM10 16 TSPM10 16 TSPM10 16 TSFM10 kit 16 VCT102 kit 16 VCT102 | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT102 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 63 VCT403 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT402P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 B way valve 13 VCT103 Actuator VC 13 VCTK | TSPA10 Inum 16 TSPM10 Inge 16 TSFM10 kit 16 VCT102 kit 16 VCT103 TK 230V 16 VCTK | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT102 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 34 VCT103 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 46 VCT203 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT403P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 3 way valve 13 VCT103 Actuator VC 13 VCTK | TSPA10 Inum 16 TSPM10 Inge 16 TSFM10 kit 16 VCT102 kit 16 VCT103 TTK 230V 16 VCTK | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT103 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 34 VCT103 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 36 VCT103 | 43 TSPM40 43 TSFM40 43 VCT202 43 VCT203 | 46 TSPM40 46 TSFM40 46 VCT202 46 VCT203 | 53 TSPM50 53 TSFM50 53 VCT202 53 VCT203 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 63 VCT403 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT403P 74 VCTK | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P 76 VCTK |
| TSPA10 Delivery ple 13 TSPM10 Delivery flat 13 TSFM10 2 way valve 13 VCT102 B way valve 13 VCT103 Actuator VC 13 VCTK | TSPA10 Inum 16 TSPM10 Inge 16 TSFM10 kit 16 VCT102 kit 16 VCT103 TK 230V 16 VCTK | 23 TSPM20/30 23 TSPM20/30 23 TSFM20/30 23 VCT102 23 VCT102 | 34 TSPM20/30 34 TSFM20/30 34 VCT102 34 VCT103 | 36 TSPM20/30 36 TSFM20/30 36 VCT102 | 43 TSPM40 43 TSFM40 43 VCT202 | 46 TSPM40 46 TSFM40 46 VCT202 46 VCT203 | 53 TSPM50 53 TSFM50 53 VCT202 | 56 TSPM50 56 TSFM50 56 VCT402 56 VCT403 | 63 TSPM60/70 63 TSFM60/70 63 VCT402 | 74 TSPM60/70 74 TSFM60/70 74 VCT402P 74 VCT403P | 76 TSPM60/70 76 TSFM60/70 76 VCT402P 76 VCT403P |

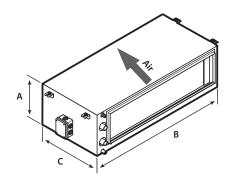
PERFORMANCE SPECIFICATIONS

2-pipe

| 2-ріре | | | TS13 | | | TS16 | | | TS23 | | | TS34 | | | TS36 | | | TS43 | |
|---|--|---|---|--|--|---|---|--|---|--|--|---|--|---|--|--|---|--|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | Ĺ | M | H | i | M | H | i | M | H | i | M | H | Ĺ | M | H | Ĺ | M | H |
| Cooling performance 7 °C / 12 °C (1) | | | | | | | | | | | _ | | | | | | _ | | |
| Cooling capacity | kW | 4,39 | 4,65 | 4,85 | 4,44 | 5,21 | 5,81 | 7,18 | 7,65 | 7,98 | 8,59 | 9,20 | 9,61 | 9,40 | 10,08 | 10,52 | 7,14 | 9,35 | 11,11 |
| Sensible cooling capacity | kW | 3,39 | 3,60 | 3,75 | 3,41 | 3,99 | 4,45 | 5,82 | 6,20 | 6,46 | 6,80 | 7,28 | 7,61 | 7,43 | 7,96 | 8,31 | 5,75 | 7,54 | 8,96 |
| Water flow rate system side | l/h | 754 | 800 | 835 | 764 | 896 | 999 | 1235 | 1315 | 1372 | 1478 | 1583 | 1653 | 1617 | 1733 | 1809 | 1227 | 1608 | 1912 |
| Pressure drop system side | kPa | 17 | 19 | 21 | 6 | 7 | 9 | 20 | 23 | 24 | 20 | 22 | 24 | 13 | 15 | 16 | 10 | 17 | 23 |
| Heating performance 70 °C / 60 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 8,89 | 9,43 | 9,83 | 9,75 | 11,34 | 12,61 | 14,14 | 15,04 | 15,67 | 17,71 | 18,92 | 19,76 | 19,36 | 20,71 | 21,60 | 14,24 | 18,33 | 21,67 |
| Water flow rate system side | I/h | 780 | 827 | 862 | 856 | 995 | 1106 | 1240 | 1319 | 1375 | 1553 | 1660 | 1733 | 1698 | 1816 | 1894 | 1249 | 1068 | 1900 |
| Pressure drop system side | kPa | 10 | 12 | 13 | 5 | 7 | 8 | 10 | 12 | 12 | 17 | 19 | 21 | 11 | 13 | 14 | 8 | 13 | 18 |
| Fan | | | | | | | | | | | | | | | | | | | |
| Air flow rate | m³/h | 810 | 877 | 930 | 656 | 803 | 930 | 1316 | 1432 | 1518 | 1376 | 1507 | 1600 | 1376 | 1510 | 1601 | 1170 | 1631 | 2050 |
| High static pressure | Pa | 68 | 80 | 90 | 27 | 41 | 55 | 77 | 91 | 102 | 62 | 75 | 85 | 33 | 40 | 45 | 37 | 72 | 114 |
| Input power | kW | 0,1 | 0,1 | 0,2 | 0,1 | 0,1 | 0,2 | 0,2 | 0,3 | 0,3 | 0,2 | 0,3 | 0,3 | 0,2 | 0,3 | 0,3 | 0,3 | 0,3 | 0,4 |
| Туре | type | -, | | | | | | | - , - | | rifugal | .,. | -,- | | - , - | .,. | | -,,- | |
| Fan motor | type | | | | | | | | | On | -0ff | | | | | | | | |
| Number | no. | | 1 | | | 1 | | | 2 | | | 2 | | | 2 | | | 2 | |
| Diametre hydraulic fittings | | | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | | G | as | | | | | | | | |
| Main coil | Ø | | 3/4" | | | 1″ | | | 3/4" | | | 3/4" | | | 1″ | | | 3/4" | |
| Power supply | | | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | | 230V | ~50Hz | | | | | | | | |
| | | | | | | | | | | | | | | | | | | =4=4 | |
| | | | T\$46 | | | T553 | | 1 | T\$56 | | l | T\$63 | | | TS74 | | | 1576 | |
| | | 1 | TS46 | 3 | 1 | TS53 | | 1 | TS56 | 3 | 1 | TS63 | 3 | 1 | TS74 | 3 | 1 | TS76 | 3 |
| | | 1 | 2 | 3 H | 1 | 2 | 3 H | 1 | 2 | 3 H | 1 | 2 | 3 H | 1 | 2 | 3 H | 1 | 2 | 3 H |
| Cooling performance 7 °C / 12 °C (1) | | - | | 3 H | 1 L | | 3 H | 1 L | | 3 H | 1 L | | 3 H | 1 L | | 3 H | 1 L | | 3 H |
| Cooling performance 7 °C / 12 °C (1) | kW | L | 2 M | Н | L | 2 M | Н | L | 2 M | Н | Ĺ | 2 M | Н | L | 2 M | Н | L | 2 M | Н |
| Cooling capacity | kW | L 8,57 | 2 M | H 13,44 | L 8,05 | 2 M | H 13,86 | 9,50 | 2 M | H 16,47 | L 8,11 | 2 M | H 16,62 | L 17,47 | 2 M | H 21,92 | L 19,79 | 2 M 23,38 | H 24,93 |
| Cooling capacity Sensible cooling capacity | kW | 8,57 6,90 | 2 M 11,27 9,06 | H 13,44 10,81 | 8,05 5,68 | 2 M 11,06 7,80 | H 13,86 9,77 | 9,50 6,73 | 2 M 13,13 9,31 | H 16,47 11,68 | 8,11 6,40 | 2 M 12,84 10,12 | H 16,62 13,11 | 17,47 14,20 | 2 M 20,65 16,78 | H 21,92 17,82 | 19,79 16,04 | 2 M 23,38 18,95 | H 24,93 20,21 |
| Cooling capacity Sensible cooling capacity Water flow rate system side | kW I/h | L 8,57 | 2 M 11,27 9,06 1938 | H 13,44 10,81 2311 | 8,05 5,68 1385 | 2 M 11,06 7,80 1902 | H 13,86 9,77 2384 | 9,50 6,73 1633 | 2 M | H 16,47 11,68 2833 | L 8,11 | 2 M 12,84 10,12 2208 | H 16,62 13,11 2858 | 17,47 14,20 3006 | 2 M 20,65 16,78 3551 | H 21,92 17,82 3771 | 19,79 16,04 3405 | 2 M 23,38 18,95 4022 | H 24,93 20,21 4289 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side | kW | 8,57 6,90 1474 | 2 M 11,27 9,06 | H 13,44 10,81 | 8,05 5,68 | 2 M 11,06 7,80 | H 13,86 9,77 | 9,50 6,73 | 2 M 13,13 9,31 2260 | H 16,47 11,68 | 8,11 6,40 1395 | 2 M 12,84 10,12 | H 16,62 13,11 | 17,47 14,20 | 2 M 20,65 16,78 | H 21,92 17,82 | 19,79 16,04 | 2 M 23,38 18,95 | H 24,93 20,21 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) | kW I/h kPa | 8,57 6,90 1474 8 | 2 M 11,27 9,06 1938 13 | H 13,44 10,81 2311 17 | 8,05 5,68 1385 12 | 2 M 11,06 7,80 1902 21 | H 13,86 9,77 2384 32 | 9,50 6,73 1633 10 | 2 M 13,13 9,31 2260 18 | H 16,47 11,68 2833 27 | 8,11 6,40 1395 7 | 2 M 12,84 10,12 2208 16 | H 16,62 13,11 2858 26 | 17,47 14,20 3006 19 | 2 M 20,65 16,78 3551 25 | H 21,92 17,82 3771 28 | 19,79 16,04 3405 17 | 2 M 23,38 18,95 4022 23 | H 24,93 20,21 4289 26 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity | kW I/h | 8,57 6,90 1474 | 2 M 11,27 9,06 1938 | H 13,44 10,81 2311 | 8,05 5,68 1385 | 2 M 11,06 7,80 1902 | H 13,86 9,77 2384 | 9,50 6,73 1633 | 2 M 13,13 9,31 2260 | H 16,47 11,68 2833 | 8,11 6,40 1395 | 2 M 12,84 10,12 2208 | H 16,62 13,11 2858 | 17,47 14,20 3006 | 2 M 20,65 16,78 3551 | H 21,92 17,82 3771 | 19,79 16,04 3405 | 2 M 23,38 18,95 4022 | H 24,93 20,21 4289 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side | kW I/h kPa kW | 8,57 6,90 1474 8 | 2 M 11,27 9,06 1938 13 23,45 2056 | H 13,44 10,81 2311 17 27,83 | 8,05 5,68 1385 12 | 2 M 11,06 7,80 1902 21 20,82 1826 | H 13,86 9,77 2384 32 25,89 2270 | 9,50 6,73 1633 10 | 2 M 13,13 9,31 2260 18 | H 16,47 11,68 2833 27 32,90 2886 | 8,11 6,40 1395 7 | 2 M 12,84 10,12 2208 16 27,78 2436 | H 16,62 13,11 2858 26 35,61 3123 | 17,47 14,20 3006 19 37,33 3274 | 2 M 20,65 16,78 3551 25 43,80 3841 | H 21,92 17,82 3771 28 46,45 4073 | 19,79 16,04 3405 17 42,00 3683 | 2 M 23,38 18,95 4022 23 49,25 4319 | H 24,93 20,21 4289 26 52,44 4599 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity | kW I/h kPa kW I/h | 8,57 6,90 1474 8 18,17 1593 | 2 M 11,27 9,06 1938 13 | H 13,44 10,81 2311 17 27,83 2440 | 8,05 5,68 1385 12 15,55 1364 | 2 M 11,06 7,80 1902 21 | H 13,86 9,77 2384 32 25,89 | 9,50 6,73 1633 10 19,63 1722 | 2 M 13,13 9,31 2260 18 26,43 2321 | H 16,47 11,68 2833 27 32,90 | 8,11 6,40 1395 7 18,32 1607 | 2 M 12,84 10,12 2208 16 | H 16,62 13,11 2858 26 35,61 | 17,47 14,20 3006 19 | 2 M 20,65 16,78 3551 25 43,80 | H 21,92 17,82 3771 28 46,45 | 19,79 16,04 3405 17 | 2 M 23,38 18,95 4022 23 49,25 | H 24,93 20,21 4289 26 52,44 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side | kW I/h kPa kW I/h kPa | 8,57 6,90 1474 8 18,17 1593 6 | 2 M 11,27 9,06 1938 13 23,45 2056 | H 13,44 10,81 2311 17 27,83 2440 14 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 | H 13,86 9,77 2384 32 25,89 2270 22 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 | H 16,47 11,68 2833 27 32,90 2886 22 | 8,11 6,40 1395 7 18,32 1607 6 | 2 M 12,84 10,12 2208 16 27,78 2436 13 | H 16,62 13,11 2858 26 35,61 3123 21 | 17,47 14,20 3006 19 37,33 3274 16 | 2 M 20,65 16,78 3551 25 43,80 3841 22 | H 21,92 17,82 3771 28 46,45 4073 24 | 19,79 16,04 3405 17 42,00 3683 15 | 2 M 23,38 18,95 4022 23 49,25 4319 20 | H 24,93 20,21 4289 26 52,44 4599 22 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate | kW I/h kPa kW I/h kPa | 8,57 6,90 1474 8 18,17 1593 6 | 2 M 11,27 9,06 1938 13 23,45 2056 10 | H 13,44 10,81 2311 17 27,83 2440 14 2076 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 | H 13,86 9,77 2384 32 25,89 2270 22 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 | H 16,47 11,68 2833 27 32,90 2886 22 2391 | 8,11 6,40 1395 7 18,32 1607 | 2 M 12,84 10,12 2208 16 27,78 2436 13 | H 16,62 13,11 2858 26 35,61 3123 21 | 17,47 14,20 3006 19 37,33 3274 16 | 2 M 20,65 16,78 3551 25 43,80 3841 22 | H 21,92 17,82 3771 28 46,45 4073 24 | 19,79 16,04 3405 17 42,00 3683 15 | 2 M 23,38 18,95 4022 23 49,25 4319 20 | H 24,93 20,21 4289 26 52,44 4599 22 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure | kW I/h kPa kW I/h kPa m³/h Pa | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 | 8,11 6,40 1395 7 18,32 1607 6 | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M 20,65 16,78 3551 25 43,80 3841 22 3869 97 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 2 M 23,38 18,95 4022 23 49,25 4319 20 3869 63 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power | kW I/h kPa kW I/h kPa m³/h Pa kW | 8,57 6,90 1474 8 18,17 1593 6 | 2 M 11,27 9,06 1938 13 23,45 2056 10 | H 13,44 10,81 2311 17 27,83 2440 14 2076 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 | H 13,86 9,77 2384 32 25,89 2270 22 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 0,5 | 8,11 6,40 1395 7 18,32 1607 6 | 2 M 12,84 10,12 2208 16 27,78 2436 13 | H 16,62 13,11 2858 26 35,61 3123 21 | 17,47 14,20 3006 19 37,33 3274 16 | 2 M 20,65 16,78 3551 25 43,80 3841 22 | H 21,92 17,82 3771 28 46,45 4073 24 | 19,79 16,04 3405 17 42,00 3683 15 | 2 M 23,38 18,95 4022 23 49,25 4319 20 | H 24,93 20,21 4289 26 52,44 4599 22 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type | kW I/h kPa kW I/h kPa m³/h Pa kW type | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 0,5 Centri | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 ifugal | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M 20,65 16,78 3551 25 43,80 3841 22 3869 97 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 2 M 23,38 18,95 4022 23 49,25 4319 20 3869 63 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor | kW I/h kPa kW I/h kPa m³/h Pa kW type type | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 1642 48 0,3 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 0,4 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 0,4 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 0,5 Centri | 8,11 6,40 1395 7 18,32 1607 6 | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 0,4 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M M 20,65 16,78 3551 25 43,80 3841 22 3869 97 0,8 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 23,38 18,95 4022 23 49,25 4319 20 3869 63 0,8 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor Number | kW I/h kPa kW I/h kPa m³/h Pa kW type | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 0,5 Centri | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 ifugal | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M 20,65 16,78 3551 25 43,80 3841 22 3869 97 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 2 M 23,38 18,95 4022 23 49,25 4319 20 3869 63 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor Number Diametre hydraulic fittings | kW I/h kPa kW I/h kPa m³/h Pa kW type type no. | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 1642 48 0,3 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 0,4 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 0,4 | H 16,47 111,68 2833 27 32,90 2886 22 2391 69 0,5 Centro On | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 1fugal | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 0,4 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M M 20,65 16,78 3551 25 43,80 3841 22 3869 97 0,8 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 23,38 18,95 4022 23 49,25 4319 20 3869 63 0,8 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor Number Diametre hydraulic fittings Type | kW I/h kPa kW I/h kPa m³/h Pa kW type type no. | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 1642 48 0,3 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 0,4 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 0,4 | H 16,47 111,68 2833 27 32,90 2886 22 2391 69 0,5 Centro On | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 ifugal | 2 M 12,84 10,12 2208 16 227,78 2436 13 2570 61 0,4 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M 20,65 16,78 3551 25 43,80 3841 22 3869 97 0,8 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 41 | 2 M 23,38 18,95 4022 23 49,25 4319 20 3869 63 0,8 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor Number Diametre hydraulic fittings Type Main coil | kW I/h kPa kW I/h kPa m³/h Pa kW type type no. | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 1642 48 0,3 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 0,4 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 0,4 | H 16,47 111,68 2833 27 32,90 2886 22 2391 69 0,5 Centro On | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 1fugal | 2 M 12,84 10,12 2208 16 27,78 2436 13 2570 61 0,4 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M M 20,65 16,78 3551 25 43,80 3841 22 3869 97 0,8 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 | 23,38 18,95 4022 23 49,25 4319 20 3869 63 0,8 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |
| Cooling capacity Sensible cooling capacity Water flow rate system side Pressure drop system side Heating performance 70 °C / 60 °C (2) Heating capacity Water flow rate system side Pressure drop system side Fan Air flow rate High static pressure Input power Type Fan motor Number Diametre hydraulic fittings Type | kW I/h kPa kW I/h kPa m³/h Pa kW type type no. | 8,57 6,90 1474 8 18,17 1593 6 1173 24 | 2 M 11,27 9,06 1938 13 23,45 2056 10 1642 48 0,3 | H 13,44 10,81 2311 17 27,83 2440 14 2076 76 | 8,05 5,68 1385 12 15,55 1364 9 | 2 M 11,06 7,80 1902 21 20,82 1826 15 1775 57 0,4 | H 13,86 9,77 2384 32 25,89 2270 22 2387 104 | 9,50 6,73 1633 10 19,63 1722 9 | 2 M 13,13 9,31 2260 18 26,43 2321 15 1777 38 0,4 | H 16,47 11,68 2833 27 32,90 2886 22 2391 69 0,5 Centro | 8,11 6,40 1395 7 18,32 1607 6 1493 20 0,3 1fugal | 2 M 12,84 10,12 2208 16 227,78 2436 13 2570 61 0,4 | H 16,62 13,11 2858 26 35,61 3123 21 3599 120 | 17,47 14,20 3006 19 37,33 3274 16 3117 63 | 2 M 20,65 16,78 3551 25 43,80 3841 22 3869 97 0,8 | H 21,92 17,82 3771 28 46,45 4073 24 4200 115 | 19,79 16,04 3405 17 42,00 3683 15 3119 | 2 M 23,38 18,95 4022 23 49,25 4319 20 3869 63 0,8 | H 24,93 20,21 4289 26 52,44 4599 22 4225 75 |

(1) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; (2) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C; Unit designed to operate with all recirculating air or maximum 10% of external air.

DIMENSIONS



| Size | | 13 | 16 | 23 | 34 | 36 | 43 | 46 | 53 | 56 | 63 | 74 | 76 |
|------------------------|----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| A | mm | 295 | 295 | 295 | 295 | 295 | 325 | 325 | 325 | 325 | 375 | 375 | 375 |
| В | mm | 645 | 645 | 1000 | 1000 | 1000 | 1100 | 1100 | 1345 | 1345 | 1345 | 1345 | 1345 |
| (| mm | 520 | 520 | 520 | 520 | 520 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Empty weight | kg | 25 | 27 | 35 | 38 | 42 | 42 | 46 | 48 | 52 | 56 | 61 | 67 |













TDA

Air handling units

Air flow rate 800 ÷ 3500 m³/h



- Horizontal or vertical installation
- Version with 3-4 row water-type coil
- Version with 2-row direct expansion coil
- Version with extractor



DESCRIPTION

The conditioning units in the TDA range have been designed for small and medium sized rooms in civil, commercial and hotel type systems.

The units are designed to guarantee high head levels and are suitable for both vertical and horizontal installation, to ensure greater versatility of use. The outstanding aesthetic finish of the product makes it perfect for installation in box rooms, bathrooms, suspended ceilings or in the room itself.

The wide range of sizes and accessories available means it's easy to choose the best model for the specific requirements.

Structure

Structure with hot galvanised steel sandwich panels, 15mm thick, with interposed polyurethane foam (density 40kg/m3). The delivery and suction panels are equipped with flanges for the collets to any air channels and can be moved to create different air flow configurations. The horizontal or vertical fixing to the walls of the unit is made possible by the appropriate brackets.

New centrifugal fans

New centrifugal fans with high head levels, double suction, forward blades and directly coupled motor. The single-phase 230V-50Hz motor is multi-speed (of which three speeds can be selected).

Condensated collection basin

Condensated collection basin in galvanised steel, suitable for both vertical and horizontal installation.

Coils with 3-4 rows

Coils with 3-4 rows, that can be fed with hot or refrigerated water. Made of copper pipes with aluminium finning held in place by the mechanical expansion of the pipes. They are equipped with threaded sleeves for the plumbing connections and the air breather valve. The coils can be rotated on site.

A 2-row, direct expansion coil **is also available.** It is made of copper pipes with aluminium finning held in place by the mechanical expansion of the pipes.

ACCESSORIES

FAF filter G4 on intake: Contained in the special housing, it is made of synthetic fibre and pleated geometry; the U-shaped frame is in galvanised sheet metal with two galvanised wire support nets

SM Mixing chamber with G4 filter and dampers: Galvanised steel housing complete with two air adjustment dampers with opposed fins in galvanised steel. The housing comes complete with a synthetic fibre filter (efficiency class G4, in accordance with standard EN779).

SR Intake damper: Consisting of a frame with galvanised steel ribbed fins. The fins are moved by nylon toothed wheels.

GM Delivery grille: Grille with double row of adjustable fins to introduce air into the room.

GA Suction grille: With tilted fins fixed at 45°; can be installed directly on the device (by removing the flange) or on the wall.

CMA: Outer casing for grille

BP One-row water-type post-heating coil applied outside the unit: Contained in a special, thermally-insulated housing, it is installed on the air delivery flange only and consists of a 1-row turbo-type coil.

BR Electric post-heating coil applied outside the unit: The machines can be fitted with the electric coil accessory of suitable capacity. It is installed downstream of the finned coil only.

VCT 2-way or 3-way valve: These are 2-way and 3-way ball valves made of bronze, with female/female connections that can be servo-activated via servo commands. The VCT valves do not have fittings and pipes for water connections, which are the installer's responsibility. These can be commanded via control panels (accessories) which are enabled for the valve control function. Consult the control panel characteristics before selecting a panel.

VCTA Two or three-way valve actuator: The VCT series valves can be combined with one of the two actuators, VCTA230 on/off 230V or 24V modulating VCTA24M. The actuator must be selected according to the type of system/adjustment provided.

PM Delivery plenum with circular start-up: Sandwich panel in hot galvanised steel, with interposed polyurethane foam (40kg/m3). The panel is 15mm thick. It is installed in place of the delivery panel with rectangular flange, using the same 4 self-threading screws.

CONTROL PANELS

PX: with selector only

WMT05 Electromechanical thermostat WMT10 control panel

ACCESSORIES COMPATIBILITY

| Size | 09 | 15 | 21 | 28 | 37 |
|-------------|--------|--------|--------|---------|---------|
| FAF | FAF1 | FAF2 | FAF3 | FAF4 | FAF4 |
| SM | SM1 | SM2 | SM3 | SM4 | SM5 |
| SR | SR1 | SR2 | SR3 | SR4 | SR4 |
| GM | GM5 | GM6 | GM7 | GM8 | GM8 |
| GA | GA5 | GA6 | GA7 | GA8 | GA8 |
| CMA | CMA5 | CMA6 | CMA7 | CMA8 | CMA8 |
| BP | BP1 | BP2 | BP3 | BP4 | BP5 |
| BR | BR1 | BR2 | BR3 | BR4 | BR5 |
| VCT (2 way) | VCT102 | VCT202 | VCT402 | VCT402P | VCT402P |
| VCT (3 way) | VCT103 | VCT203 | VCT403 | VCT403P | VCT403P |
| VCTA230 | • | • | • | • | • |
| VCTA24M | • | • | • | • | • |
| PM | PM1 | PM2 | PM3 | PM4 | PM4 |
| PX | | • | • | • | •(2) |
| WMT05 | • | •(1) | •(1) | •(1) | •(2) |
| WMT10 | | •(1) | •(1) | •(1) | •(2) |

(1) Envision the use of SIT3 and the replacement of the 2A fuse with one 4A fuse (2) Envisions return relay, one per speed

TECHNICAL DATA

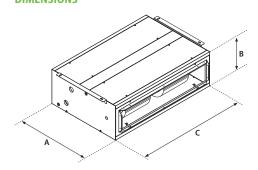
CONFIGURATOR

| Field | Description |
|-------|-----------------------------|
| | TDA |
| | Size |
| | 09, 15, 21, 28, 37 |
| | Version |
| 3 | 3-row water coil |
| 4 | 4-row water coil |
| E | 2-row direct expansion coil |
| Х | Extractor (without coil) |

| Size | | | 9 | 15 | 21 | 28 | 37 |
|---|----------|-------|-------|--------|------------|--------|--------|
| Nominal air flow rate | | m³/h | 800 | 1400 | 2000 | 2700 | 3500 |
| Nothina an now rate | | I/s | 222 | 389 | 556 | 750 | 972 |
| Useful static pressure (1) | | Pa | 277 | 330 | 227 | 150 | 240 |
| Cooling capacity with 3-row coil (2) | total | kW | 4,90 | 7,40 | 11,10 | 14,70 | 17,90 |
| cooling capacity with 3-10w con (2) | sensible | kW | 3,50 | 5,60 | 8,20 | 10,90 | 13,70 |
| Cooling capacity with 4-row coil (2) | total | kW | 6,10 | 9,70 | 13,10 | 18,40 | 22,30 |
| cooling capacity with 4-10w coil (2) | sensible | kW | 4,30 | 6,90 | 9,40 | 12,50 | 15,20 |
| Cooling capacity with R-407C coil (3) | total | kW | 5,10 | 7,50 | 10,70 | 14,10 | 16,70 |
| cooling capacity with K-407C coil (5) | sensible | kW | 3,50 | 5,20 | 7,40 | 9,90 | 12,40 |
| Heating capacity with 3-row coil (4) | | kW | 10,40 | 16,60 | 24,20 | 32,10 | 41,20 |
| Heating capacity with 4-row coil (4) | | kW | 12,10 | 19,90 | 27,30 | 36,80 | 45,40 |
| Heating coil capacity for 4-pipe systems (4) | | kW | 5,20 | 8,80 | 12,60 | 16,40 | 20,90 |
| Heating capacity with 3-row coil (5) | | KW | 5,10 | 8,10 | 11,90 | 15,70 | 20,10 |
| Heating capacity with 4-row coil (5) | | KW | 6,00 | 9,80 | 13,40 | 18,20 | 22,30 |
| Heating capacity with coil for 4-pipe systems (5) | | KW | 2,50 | 4,30 | 6,00 | 7,80 | 10,00 |
| Electric coil capacity | | KW | 4 | 6 | 8 | 10 | 12 |
| Electric coil power supply | | | 230/1 | 400V/3 | 400V/3 | 400V/3 | 400V/3 |
| Fnas | | n° | 1 | 2 | 2 | 1 | 2 |
| Motors | | | 1 | 2 | 2 | 1 | 2 |
| Total fan input power | | kW | 0,357 | 0,713 | 0,736 | 0,874 | 1,771 |
| Fan input current | | Α | 1,6 | 3,1 | 3,2 | 3,8 | 7,7 |
| Fan power supply | | | | | 230V~/50Hz | | |
| Filter efficiency (6) | | | G4 | G4 | G4 | G4 | G4 |
| Sound power level (7) | | dB(A) | 62 | 63 | 70 | 72 | 73 |
| Connections | | | | | | | |
| Water battery collectors | | Ø mm | 1″ | 1″ | 1″ | 1″ | 1″ |
| Direct expansion liquid coil pipes | | Ø mm | 10 | 10 | 12 | 16 | 16 |
| Direct expansion gas coil pipes | | Ø mm | 18 | 22 | 22 | 28 | 28 |
| Condensate discharge | | Ø mm | 3/8" | 3/8" | 1/2" | 1/2" | 1/2" |

Unit designed to operate with all recirculating air or maximum 10% of external air (1) At nominal flow rate with 3-row coil (2) Incoming air temperature 27°C d.b. 19°C w.b.; water temperature (In-Out) 7°C-12°C (3) Incoming air temperature 27°C d.b. 19°C w.b.; average evap. temp. 7°C (4) Incoming air temperature 20°C; water temperature (In-Out) 70°C-60°C (5) Incoming air temperature 20°C; water temperature (In-Out) 45°C-40°C (6) In accordance with standard EN 779 (7) In accordance with standard UNI EN ISO 9614

DIMENSIONS



Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

| Size | | | 9 | 15 | 21 | 28 | 37 |
|--------------------|------|----|-----|-------|-------|-------|-------|
| Dimensions and wei | ghts | | | | | | |
| Height | В | mm | 300 | 320 | 320 | 380 | 380 |
| Width | (| mm | 920 | 1000 | 1400 | 1400 | 1400 |
| Lenght | A | mm | 630 | 670 | 670 | 790 | 790 |
| Net weight * | | kg | 42 | 53,00 | 71,00 | 88,00 | 91,00 |

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^(*) with 4-row coil

















TA

Air handling unit



- Horizontal or vertical, configurations
- Available units with heat exchanger with 4-6 rows
- Version with 4 row expansion coil using R410A
- Version with extractor



DESCRIPTION

The air-conditioning units of the TA series are intended for civil, commercial and hotel systems in small to medium sized environments. They are distinguished by their compactness (a necessary requisite for false ceiling applications) and low noise. The wide range of accessories meets various system requirements.

FEATURES

Structure

Made of galvanised steel sandwich panels with polyurethane insulation (density 45 kg/m³), 15 mm thick. The intake and delivery panels are fitted with flanges for the connection to any possible air channels or accessories.

The unit is supplied with specific brackets for attaching it to the wall.

Air filtration

Filtration of the air entrusted to class G4 filters in compliance with EN779 (thickness 50mm) as per standard positioned at intake.

Ventilation group

Fans double intake centrifugal with forward blades and directly coupled motor. The 230V-50Hz single-phase motor has many speeds, of which three can be selected via the control panel.

Heat exchanger coil

4 or 6 row coils, powered with hot or cold water and made of copper piping with aluminium louvered fins blocked by mechanical expansion of the pipes. The threaded sleeves for the hydraulic connections and the air bleeding valve are supplied. The coils can be rotated on site. The possibility to rotate the coils on site is envisioned.

Also available are coils with 4 rows with direct expansion operating with R410A fluid and post-heating coils with 2 rows realised in copper piping with aluminium louvers blocked via mechanical expansion of the pipes.

Condensate drip

Condensate drip tray interior isolated in aluminium alloy.

ACCESSORIES

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

WMT05: Electronic thermostat with thermostated ventilation.

WMT06: Electronic thermostat with continuous ventilation.

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT: These are 3-way ball valves made of bronze, with female/female connections \emptyset 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

M2S: Galvanised steel mixing chamber with two dampers for air calibration. Louver pitch 50 mm, the galvanised steel adjustment knob (diameter 8 mm) can be motorised.

M3S: Galvanised steel mixing chamber with three air calibration dampers and galvanised steel plates. Must necessarily be paired with the VRF accessory.

FTF: Soft bag filters. Section in galvanised steel sheet metal with F6 soft bag filters. Must necessarily be paired in the powered units.

B2R: Hot water coil with 2 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil.

PBE: Section with post heating coil composed of armoured heaters equipped with a double safety thermostat.

SSL: Module with seven galvanised steel sheet metal silencers and seven stone wool silencers covered by polyethylene film to prevent chipping.

S2Z: Galvanised steel opposed louvers dampers for mixing outside air with recirculating air.

VRF: Recovery fan unit equipped with electronic variable speed control. The unit is contained in a galvanised steel sheet metal section equipped with flat filters, efficiency level G4 (EN779).

SAS: Air calibration damper with galvanised sheet metal louvers to be positioned for intake. Louver pitch 50 mm; the galvanised steel adjustment knob can be motorised.

GMD: Air delivery grill with louvers that can be positioned for the delivery of air in the room to be treated. May be installed directly on the device by removing the flanges or installed on the wall.

GAP: Intake grille with louvers at a fixed 45° angle. May be installed directly on the device by removing the flanges or installed on the wall. FPI: ISO COARSE 50% filter flange for intake at base.

PMM: Plenum with circular multiple delivery, thickness 1.5 mm. The plenum is equipped with multi-diameter circular connections (200 mm, 180 mm, 150 mm) made of plastic to permit the connection of circular conduits.

PMC: Closed delivery plenum in 1.5 mm thick hot-dip galvanised sheet metal. The plenum allows for flow to be rotated by 90°. Opening the delivery outlet is the installer's responsibility.

ACCESSORIES COMPATIBILITY

Control panels

| Model | Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
|--------------|------------------|----|----|----|----|----|----|----|----|
| AER503IR (1) | H4,H6,HE,V4,V6,X | • | • | • | • | • | • | • | • |
| SA5 (2) | H4,H6,HE,V4,V6,X | • | • | • | • | • | • | • | • |
| SIT3 (3) | H4,H6,HE,V4,V6,X | • | • | • | • | | • | | • |
| SW5 (2) | H4,H6,HE,V4,V6,X | • | • | • | • | • | • | • | • |
| WMT05 (1) | H4,H6,HE,V4,V6,X | | • | • | • | | | | • |
| WMT06 (1) | H4,H6,HE,V4,V6,X | • | • | • | • | • | • | • | • |
| WMT10 (1) | H4,H6,HE,V4,V6,X | • | • | • | • | | • | | • |

- (1) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

H4.H6.HE.V4.V6.X

(2) Probe for AERSO3IR-TX thermostats, if fitted.
(3) Cards for AERSO3IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
|---|---------------------------|----------|----------|-----------------|-----------------|----------|----------|----------|
| H4,H6,V4,V6 | VCT102 | VCT102 | VCT202 | VCT202 | VCT202 | VCT402 | VCT402P | VCT402P |
| 3 way valve kit | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,V4,V6 | VCT103 | VCT103 | VCT203 | VCT403, VCT403P | VCT403, VCT403P | - | - | - |
| he accessory cannot be fitted on the conf | igurations indicated with | - | | | | | | |
| Actuator VCTK 230V | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,V4,V6 | VCTK | VCTK | VCTK | VCTK | VCTK | VCTK | VCTK | VCTK |
| Actuator 24V | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,V4,V6 | VCTKM | VCTKM | VCTKM | VCTKM | VCTKM | VCTKM | VCTKM | VCTKM |
| ?-damper mixing chambei | • | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | M2S1 | M2S1 | M2S2 | M2S3 | M2S4 | M2S4 | M2S5 | M2S5 |
| 3-damper mixing chambei | r | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | M3S1 (1) | M3S1 (1) | M3S2 (1) | M3S3 (1) | M3S4 (1) | M3S4 (1) | M3S5 (1) | M3S5 (1) |
| 1) It must necessarily be combined with | the VRF accessory. | | | | | | | |
| Closed delivery plenum | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | PMC1 | PMC1 | PMC2 | PMC3 | PMC4 | PMC4 | PMC5 | PMC5 |
| oft bag filter section | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | FTF1 (1) | FTF1 (1) | FTF2 (1) | FTF3 (1) | FTF4 (1) | FTF4 (1) | FTF5 (1) | FTF5 (1) |
| 1) It must necessarily be combined in the | e enhanced units. | | | | | | | |
| ?-row coil | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |

B2R3

B2R4

B2R4

B2R5

B2R5

B2R2

B2R1

B2R1

| ММ | | | | | | | | |
|-----------------------------|------------------|-------|------|------|------|------|------|------|
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | PMM1 | PMM1 | PMM2 | PMM3 | PMM4 | PMM4 | PMM5 | PMM5 |
| O COARSE 50% filter flan | ge for intake at | base. | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | FPI1 | FPI1 | FPI2 | FP13 | FPI4 | FPI4 | FPI5 | FPI5 |
| ection with post-heating | coil | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | PBE1 | PBE2 | PBE3 | PBE4 | PBE5 | PBE6 | PBE7 | PBE8 |
| ilencer baffles module | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | SSL1 | SSL1 | SSL2 | SSL3 | SSL4 | SSL4 | SSL5 | SSL5 |
| zone damper | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | S2Z1 | S2Z1 | S2Z2 | S2Z3 | S2Z4 | S2Z4 | S2Z5 | S2Z5 |
| eturn ventilating section | with a G4 filter | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | VRF1 | VRF2 | VRF3 | VRF4 | VRF5 | VRF6 | VRF7 | VRF8 |
| uction damper | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | SAS1 | SAS1 | SAS2 | SAS3 | SAS3 | SAS3 | SAS5 | SAS5 |
| Outlet grille with adjustab | le louvers | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | GMD1 | GMD1 | GMD2 | GMD3 | GMD4 | GMD4 | GMD5 | GMD5 |
| ntake grids | | | | | | | | |
| Ver | 09 | 11 | 15 | 19 | 24 | 33 | 40 | 50 |
| H4,H6,HE,V4,V6,X | GAP1 | GAP1 | GAP2 | GAP3 | GAP4 | GAP4 | GAP5 | GAP5 |

4-ROW COIL UNIT PERFORMANCE DATA

Units designed to operate with all recirculating air or maximum 10% of external air.

Versions H/V

| | | TA09H4 | TA09V4 | TA11H4 | TA11V4 | TA15H4 | TA15V4 | TA19H4 | TA19V4 | TA24H4 | TA24V4 | TA33H4 | TA33V4 | TA40H4 | TA40V4 | TA50H4 | TA50V4 |
|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performances 7 °C / 12 °C - 2 pipe s | ystem (1) | | | | | | | | | | | | | | - | | |
| Cooling capacity | kW | 4,20 | 4,20 | 5,70 | 5,70 | 8,70 | 8,70 | 12,40 | 12,40 | 17,30 | 17,30 | 21,70 | 21,70 | 27,20 | 27,20 | 33,50 | 33,50 |
| Sensible cooling capacity | kW | 3,50 | 3,50 | 4,20 | 4,20 | 6,20 | 6,20 | 8,30 | 8,30 | 11,20 | 11,20 | 14,30 | 14,30 | 18,00 | 18,00 | 20,90 | 20,90 |
| Water flow rate | l/h | 722 | 722 | 980 | 980 | 1496 | 1496 | 2132 | 2132 | 2975 | 2975 | 3732 | 3732 | 4678 | 4678 | 5761 | 5761 |
| Pressure drop | kPa | 6 | 6 | 6 | 6 | 7 | 7 | 12 | 12 | 16 | 16 | 23 | 23 | 11 | 11 | 31 | 31 |
| Heating performance 70 °C / 60 °C - 2 pipe s | system | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 10,40 | 10,40 | 13,30 | 13,30 | 19,10 | 19,10 | 24,70 | 24,70 | 34,10 | 34,10 | 41,90 | 41,90 | 52,80 | 52,80 | 58,30 | 58,30 |
| Water flow rate | l/h | 894 | 894 | 1139 | 1139 | 1642 | 1642 | 2124 | 2124 | 2932 | 2932 | 3603 | 3603 | 4538 | 4538 | 5013 | 5013 |
| Pressure drop | kPa | 5 | 5 | 8 | 8 | 7 | 7 | 10 | 10 | 13 | 13 | 19 | 19 | 10 | 10 | 22 | 22 |
| 2-rows-heating coil with hot water - (acces | sory) (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 3,90 | 3,90 | 8,50 | 8,50 | 12,70 | 12,70 | 16,00 | 16,00 | 21,70 | 21,70 | 26,70 | 26,70 | 34,80 | 34,80 | 40,00 | 40,00 |
| Water flow rate | l/h | 333 | 333 | 731 | 731 | 1092 | 1092 | 1371 | 1371 | 1866 | 1866 | 2291 | 2291 | 2988 | 2988 | 3439 | 3439 |
| Pressure drop | kPa | 8 | 8 | 11 | 11 | 13 | 13 | 14 | 14 | 18 | 18 | 26 | 26 | 18 | 18 | 23 | 23 |
| Electric heating coil - (accessory) | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 4,00 | 4,00 | 6,00 | 6,00 | 8,00 | 8,00 | 10,00 | 10,00 | 12,00 | 12,00 | 16,00 | 16,00 | 20,00 | 20,00 | 24,00 | 24,00 |
| Stages | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power supply | | | | | | | | | 400V~ | 3 50Hz | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | Centr | ifugal | | | | | | | |
| Number | no. | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | m³/h | 800 | 800 | 1100 | 1100 | 1500 | 1500 | 1900 | 1900 | 2400 | 2400 | 3300 | 3300 | 4000 | 4000 | 5000 | 5000 |
| High static pressure | Pa | 145 | 145 | 290 | 290 | 176 | 176 | 240 | 240 | 211 | 211 | 245 | 245 | 248 | 248 | 153 | 153 |
| Input power | kW | 0. | 25 | 0. | 31 | 0. | 38 | 0. | 61 | 0. | 83 | 0.8 | 81 | 0. | 98 | 1. | .28 |
| Air filter | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | G4 | / F6 | | | | | | | |
| Sound data | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 62,0 | 62,0 | 66,0 | 66,0 | 67,0 | 67,0 | 72,0 | 72,0 | 74,0 | 74,0 | 75,0 | 75,0 | 76,0 | 76,0 | 79,0 | 79,0 |
| Power supply | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | 230V | ~50Hz | | | | | | | |

⁽¹⁾ Room air 27 °C b.s.47% U.R.; Water (in/out) 7 °C/12 °C (2) Water temperature (in/out) 70 °C / 60 °C.

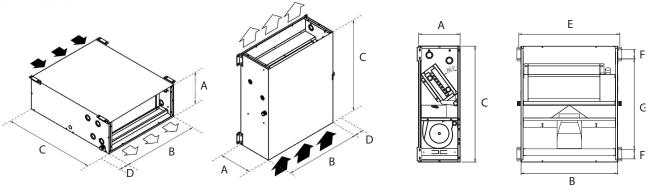
6-ROW COIL UNIT PERFORMANCE DATA

Versions H/V

| | | TA09H6 | TA09V6 | TA11H6 | TA11V6 | TA15H6 | TA15V6 | TA19H6 | TA19V6 | TA24H6 | TA24V6 | TA33H6 | TA33V6 | TA40H6 | TA40V6 | TA50H6 | TA50V6 |
|---------------------------------------|------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performances 7 °C/12 °C-2 | pipe syst | tem (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 5,10 | 5,10 | 6,70 | 6,70 | 11,70 | 11,70 | 15,50 | 15,50 | 20,60 | 20,60 | 26,30 | 26,30 | 33,50 | 33,50 | 39,60 | 39,60 |
| Sensible cooling capacity | kW | 3,40 | 3,40 | 4,70 | 4,70 | 7,50 | 7,50 | 9,80 | 9,80 | 12,80 | 12,80 | 16,60 | 16,60 | 20,90 | 20,90 | 25,00 | 25,00 |
| Water flow rate | l/h | 868 | 868 | 1152 | 1152 | 2012 | 2012 | 2666 | 2666 | 3543 | 3543 | 4523 | 4523 | 5761 | 5761 | 6810 | 6810 |
| Pressure drop | kPa | 4 | 4 | 6 | 6 | 15 | 15 | 29 | 29 | 27 | 27 | 41 | 41 | 31 | 31 | 42 | 42 |
| Heating performance 70 °C / 60 °C - 2 | 2 pipe sys | tem | | | | | | | | | | | | | | | |
| Heating capacity | kW | 11,40 | 11,40 | 14,80 | 14,80 | 21,40 | 21,40 | 27,40 | 27,40 | 35,60 | 35,60 | 46,60 | 46,60 | 58,30 | 58,30 | 72,80 | 72,80 |
| Water flow rate | l/h | 976 | 976 | 1273 | 1273 | 1838 | 1838 | 2356 | 2356 | 3058 | 3058 | 4005 | 4005 | 5013 | 5013 | 6260 | 6260 |
| Pressure drop | kPa | 4 | 4 | 7 | 7 | 16 | 16 | 23 | 23 | 21 | 21 | 34 | 34 | 22 | 22 | 30 | 30 |
| 2-rows-heating coil with hot water - | (accesso | ry) (2) | | | | | | | | | | | | | | | |
| Heating capacity | kW | 3,90 | 3,90 | 8,50 | 8,50 | 12,70 | 12,70 | 16,00 | 16,00 | 21,70 | 21,70 | 26,70 | 26,70 | 34,80 | 34,80 | 40,00 | 40,00 |
| Water flow rate | l/h | 333 | 333 | 731 | 731 | 1092 | 1092 | 1371 | 1371 | 1866 | 1866 | 2291 | 2291 | 2988 | 2988 | 3439 | 3439 |
| Pressure drop | kPa | 8 | 8 | 11 | 11 | 13 | 13 | 14 | 14 | 18 | 18 | 26 | 26 | 18 | 18 | 23 | 23 |
| Electric heating coil - (accessory) | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 4,00 | 4,00 | 6,00 | 6,00 | 8,00 | 8,00 | 10,00 | 10,00 | 12,00 | 12,00 | 16,00 | 16,00 | 20,00 | 20,00 | 24,00 | 24,00 |
| Stages | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power supply | | | | | | | | | 400V~ | 3 50Hz | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| | type | | | | | | | | Centr | ifugal | | | | | | | |
| Number | no. | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | m³/h | 800 | 800 | 1100 | 1100 | 1500 | 1500 | 1900 | 1900 | 2400 | 2400 | 3300 | 3300 | 4000 | 4000 | 5000 | 5000 |
| High static pressure | Pa | 131 | 131 | 265 | 265 | 158 | 158 | 224 | 224 | 199 | 199 | 224 | 224 | 234 | 234 | 131 | 131 |
| Input power | kW | 0. | 25 | 0. | 31 | 0. | 38 | 0. | 61 | 0. | 83 | 0. | 81 | 0. | 98 | 1. | .28 |
| Air filter | | | | | | | | | | | | | | | | | |
| Туре | type | | | | | | | | G4 | / F6 | | | | | | | |
| Sound data | | | | | | | | | | | | | | | | | |
| Sound power level | dB(A) | 62,0 | 62,0 | 66,0 | 66,0 | 67,0 | 67,0 | 72,0 | 72,0 | 74,0 | 74,0 | 75,0 | 75,0 | 76,0 | 76,0 | 79,0 | 79,0 |
| Power supply | | | | | | | | | | | | | | | | | |
| Power supply | | | | | | | | | 230V | ~50Hz | | | | | | | |

⁽¹⁾ Room air 27 °C b.s.47% U.R.; Water (in/out) 7 °C/12 °C (2) Water temperature (in/out) 70°C / 60°C.

DIMENSIONS



Unit for horizontal installation

Unit H

| | | TA09H4 | TA09H6 | TA11H4 | TA11H6 | TA15H4 | TA15H6 | TA19H4 | TA19H6 | TA24H4 | TA24H6 | TA33H4 | TA33H6 | TA40H4 | TA40H6 | TA50H4 | TA50H6 |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Dimensions and weigh | ts | | | | | | | | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 300 | 300 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 |
| В | mm | 700 | 700 | 700 | 700 | 1050 | 1050 | 1050 | 1050 | 1475 | 1475 | 1475 | 1475 | 2100 | 2100 | 2100 | 2100 |
| C | mm | 700 | 700 | 700 | 700 | 700 | 700 | 850 | 850 | 850 | 850 | 850 | 850 | 1000 | 1000 | 1000 | 1000 |
| D | mm | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| E | mm | 732 | 732 | 732 | 732 | 732 | 732 | 1082 | 1082 | 1507 | 1507 | 1507 | 1507 | 2131 | 2131 | 2131 | 2131 |
| F | mm | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| G | mm | 655 | 655 | 655 | 655 | 655 | 655 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 |
| Weights | | | | | | | | | | | | | | | | | |
| With 4-row water coil | kg | 28 | 28 | 33 | 33 | 45 | 45 | 60 | 60 | 78 | 78 | 86 | 86 | 135 | 135 | 140 | 140 |
| With 6-row water coil | kg | 30 | 30 | 35 | 35 | 47 | 47 | 62 | 62 | 81 | 81 | 89 | 89 | 139 | 139 | 144 | 144 |

Unit for vertical installation

Unit V

| | | TA09V4 | TA09V6 | TA11V4 | TA11V6 | TA11VE | TA15V4 | TA15V6 | TA19V4 | TA19V6 | TA24V4 | TA24V6 | TA33V4 | TA33V6 | TA40V4 | TA40V6 | TA50V4 | TA50V6 |
|-----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Dimensions and weigh | ts | | | | | | | | | | | | | | | | | |
| A | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 | 390 |
| В | mm | 700 | 700 | 700 | 700 | 700 | 1050 | 1050 | 1050 | 1050 | 1475 | 1475 | 1475 | 1475 | 2100 | 2100 | 2100 | 2100 |
| C | mm | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 850 | 850 | 850 | 850 | 850 | 850 | 1000 | 1000 | 1000 | 1000 |
| D | mm | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| E | mm | 732 | 732 | 732 | 732 | 732 | 732 | 732 | 1082 | 1082 | 1507 | 1507 | 1507 | 1507 | 2131 | 2131 | 2131 | 2131 |
| F | mm | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| G | mm | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 |
| Weights | | | | | | | | | | | | | | | | | | |
| With 4-row water coil | kg | 28 | 28 | 33 | 33 | 33 | 45 | 45 | 60 | 60 | 78 | 78 | 86 | 86 | 135 | 135 | 140 | 140 |
| With 6-row water coil | kg | 30 | 30 | 35 | 35 | 35 | 47 | 47 | 62 | 62 | 81 | 81 | 89 | 89 | 139 | 139 | 144 | 144 |



















TN

Air handling unit



- Maximum installation flexibility
- EC fan Plug-fan
- Wide choice of accessories.
- Large range of capacities and static pressures.
- Versions available with water coil or with direct expansion.



DESCRIPTION

The TN range offers an alternative to the air treatment unit for flow rates from 2300 to 23000m³/h when the only treatment required is filtering, cooling and/or heating. Designed for domestic, commercial, industrial or hotel systems in small or medium sized contexts.

The units can be installed horizontally or vertically for greater flexibility of use

All the units are always supplied and shipped in the vertical configuration. The customer is responsible for any possible modification from vertical to horizontal.

TN series are characterised by their compact size, low noise levels, and the wide choice of accessories.

The units are available with a plug fan unit with EC motor, or with a transmission centrifugal fan unit with AC motor (the latter comes in both the standard version and the boosted high head version).

FEATURES

Structure

The structure is made of aluminium profiles with sandwich cover paneling made of galvanised steel on the inside and pre-coated RAL 9003 galvanised steel on the outside with polyurethane insulation (density 40 kg/m^3) with 25 mm thickness.

Both the panels of the base unit as well as the panels of the plenum have pre-shearing that render them compatible with the insertion of the accessories.

The fixing of the paneling using a panel block profile ensures a perfect seal between the panel and the frame and makes it extremely easy to mount and remove the panels. The 3-way corner joint is made of glass-fibre reinforced nylon.

The condensate drip tray, in galvanised steel, has a threaded drain connection on both sides and can be used whether the unit is installed horizontally or vertically.

Water heat exchanger coils

With copper pipes. Aluminium fins blocked via the mechanical expansion of the pipes. With 4 or 6 rows for the main one (heating or cooling) and 2,3 or 4 rows for the secondary one (heating only).

Evaporative heat exchanger coils

An alternative to the main water coil.

Suitable for R410A refrigerant. With copper pipes. Aluminium fins blocked via the mechanical expansion of the pipes. With 4 or 6 rows and both RH and LH versions.

Electric heating coil

Electric heating coil with finned, armoured elements. With twin safety thermostat (automatic and manual reset). Includes the implementation contactors (commanded with 24Volt AC voltage).

Can be used both for summer post-heating and winter heating. The coil has two asymmetric levels (1/3, 2/3 of the total power) so it can be commanded at up to 3 levels.

Air filter

The air is filtered through synthetic 50mm filters with an efficiency level of Coarse 55% (as per the ISO 16890 standard) on the intake points.

The filters are housed on guides in the main coil section, and can be easily removed for cleaning and maintenance; just remove the panel on the side of the water connections and then take out the filters.

With the FT7MxT accessory, filtering takes place via compact filters with an EPM1 55% efficiency level (as per the ISO 16890 standard).

VENTILATION GROUP

The configurator allows you to choose between two different types of fan unit, to meet every possible system request.

Ventilation group with inverter EC fan plug fun

Fan

The fans are of the plug-fan type with reversed blades for excellent performance with single intake.

Motor

The electric motors with extremely high efficiency, directly coupled to the fans, have an external EC rotor with integrated electronic control. They can be controlled continuously by a 0-10V signal. IP55 Protection rating. The motors can be powered with 380-480V / 3ph / 50-60Hz (the range is however reduced to the power supply required by the ByyExT

or ByyExTZ electric battery accessory, if required immediately or if installed at a later date).

A standard control option via the ModBus protocol.

Fan unit with transmission

Fan

The fans are of the double suction centrifugal variety with high performance forward blades.

Motor

ACCESSORIES

PLxT: Plenum composed of pre-sheared panels that can be opened on 3 sides, it can be mounted as an inlet or as an outlet; it is compatible with the accessories GAXT, GMxT, SAXT and TPPLxT. It includes mounting brackets and feet (for horizontal and vertical configurations).

FT7MxT: Compact filters with filtering degree ePM1 55% (according to ISO 16890), composed of a plenum that can be opened on two sides, which can be positioned on the outlet of the machine; it is compatible with the accessories GMxT, SAxT and TPPxT. It includes fixing plates and feet (for horizontal and vertical configurations).

B2RxT: Hot water coil with 2 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil, and made of copper piping and aluminium finning blocked by the mechanical expansion of the pipes.

B3RxT: Hot water coil with 3 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil, and made of copper piping and aluminium finning blocked by the mechanical expansion of the pipes.

BR4xT: Hot water coil with 4 rows for lines with 4 tubes. Positioned internally at the base of the equipment, downstream from the main coil, and made of copper piping and aluminium finning blocked by the mechanical expansion of the pipes.

SAxT: Air calibration damper with galvanised steel louvers. Louvers pitch 50mm; galvanised steel adjusting pin: can be installed on the equipment base or the plenum.

GMxT: Outlet grille with double row of louvers that can be adjusted when emitting air into the room. Can be installed on the plenum.

GAXT: Suction grille with louvers fixed at an angle of 45°; Can be installed directly on the equipment base or on the plenum accessories.

TPVSxT: Protective roof for Vertical installation with top outlet. Composed of a pre-coated metal sheet, fastened to the side of the unit. To be installled on the unit base. The accessory is not compatible with units equipped with EC plug fans.

TPVFxT: Protective roof for Vertical installation with front delivery. Composed of pre-coated diamond sheet, fastened to the side of the unit. To be installed on: PLxT, FT7MxT and vertical unit base with front outlet.

TPLxT: Protective roof for horizontal installation with Front outlet. Composed of pre-coated diamond sheet, fastened to the side of the unit. To be installed on unit base.

The single-speed (4-pole) electric motors are of the three-phase asynchronous type, with a closed construction and external ventilation, caged rotor and B3 configuration with horizontal shaft, complying with the IEC, CEI and UNEL standards. IP55 protection rating. They are powered at 400V-3ph-50Hz (standard) or 460V-3ph-60Hz (units with "Z" power supply).

Transmission

The pulleys (supplied with a Taperlock-type conical shrink disk) are statically and dynamically balanced, with a variable diameter for improved fan calibration. The transmission belts may be of the SPA or SPB type.

TPPLxT: Protective roof for the plenum, for horizontal installation with front delivery. Made of pre-painted diamond sheet metal fixed to the sides of the unit (to be installed on PLxT and FT7MxT, from size 3 to size 8).

TPFTLxT: Protective roof for the bag filters, for line installation with front delivery. Made of pre-painted diamond sheet metal fixed to the sides of the unit (to be installed on FT7MxT, on sizes 1 and 2).

P50MBT: Corner support feet for both the horizontal and vertical version. Made of galvanised sheet: they can be fixed directly to the unit with the screws supplied. The accessory has 4 corner feet and 2 side feet

P50ACT: Lateral support feet for the horizontal version. Made of galvanised sheet: they come with the accessories unit together with the bolts and screws.

ByyExT: Electric coil 400V/3ph/50Hz. Can be positioned inside the standard device, downstream from the main coil. Consists of a sheet metal frame, heating elements (armoured and finned), command contactors (24V AC) and two thermostats (one with automatic reset and the other manual). The electrical heating power (yy in kW) is divided over two sets of heaters 1/3+2/3 that can be controlled up to max. 3 levels. WARNING: To avoid the risk of overheating, make sure the fan is working at the correct flow rate when the coil is activated, and that there is a minimum post-ventilation time when the coil is deactivated.

BYYExTZ: Electric coil 460V/3ph/60Hz. Can be positioned inside the standard device, downstream from the main coil. Consists of a sheet metal frame, heating elements (armoured and finned), command contactors (24V AC) and two thermostats (one with automatic reset and the other manual). The electrical heating power (yy in kW) is divided over two sets of heaters 1/3+2/3 that can be controlled up to max. 3 levels. WARNING: To avoid the risk of overheating, make sure the fan is working at the correct flow rate when the coil is activated, and that there is a minimum post-ventilation time when the coil is deactivated.

CPxT: Adjustment module with sensor for volumetric flow rate (accessory for TNxxE version only).

CPxTP: Adjustment module with sensor for differential pressure (accessory for TNxxE version only).

CPxTV: Speed regulatory (accessory only for TNxxE versions).

ACCESSORIES COMPATIBILITY

| ACCESSORIES C | OMPATIBILITY | | | | | | |
|--|-----------------------------|-----------------------|-------------------|------------------|------------------|------------------|------------------|
| Plenum | | | | | | | |
| 1 | 2 | 3 | 4 DI 4T (1) | 5 | 6 | 7 | 8 DIOT (1) |
| PL1T (1) | PL2T (1) | PL3T (1) | PL4T (1) | PL5T (1) | PL6T (1) | PL7T (1) | PL8T (1) |
| 1) For horizontal and vertica | = | | | | | | |
| Compact ePM1 55% | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| FT7M1T (1) | FT7M2T (1) | FT7M3T (1) | FT7M4T (1) | FT7M5T (1) | FT7M6T (1) | FT7M7T (1) | FT7M8T (1) |
| 1) For horizontal and vertica | ll configurations. | | | | | | |
| Hot water coil with 2 | ? rows for lines witi | h 4 pipes | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| B2R1T | B2R2T | B2R3T | B2R4T | B2R5T | B2R6T | B2R7T | B2R8T |
| Hot water coil with 3 | R rows for lines with | h 4 nines | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| B3R1T | B3R2T | B3R3T | B3R4T | B3R5T | B3R6T | B3R7T | B3R8T |
| | | | 551111 | 551.51 | 551101 | 551111 | 251101 |
| Hot water coil with 4 | 4 rows for lines witi | h 4 pipes | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| B4R1T | B4R2T | B4R3T | B4R4T | B4R5T | B4R6T | B4R7T | B4R8T |
| Suction damper | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| SA1T | SA2T | SA3T | SA4T | SA5T | SA6T | SA7T | SA8T |
| ווער | JUTI | JUJI | ודתכ | ונאנ | JUI | ווחכ | JUUI |
| Outlet grille with adj | justable louvers | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| GM1T | GM2T | GM3T | GM4T | GM5T | GM6T | GM7T | GM8T |
| Intaka arida | | | | | | | |
| ntake grids | | | | | | | |
| 1 GA1T | 2 GA2T | GA3T | 4 GA4T | 5 GAST | 6 GA6T | 7 GA7T | 8 GA8T |
| UAII | UAZI | ICAD | UA41 | ICAD | UAUI | UA/ I | UAOI |
| Protective roof for V | ertical installation | with top outlet | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| TPVS1T (1) | TPVS2T (1) | TPVS3T (1) | TPVS4T (1) | TPVS5T (1) | TPVS6T (1) | TPVS7T (1) | TPVS8T (1) |
| 1) The accessory is not comp | oatible with units equipped | l with EC plug fans. | | | | | |
| Protective roof for V | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| TPVF1T | TPVF2T | TPVF3T | TPVF4T | TPVF5T | TPVF6T | TPVF7T | TPVF8T |
| | | | | | | | |
| Protective roof for h | orizontal installati | ion with front outlet | • | | | | |
| 11 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| TPL1T | TPL2T | TPL3T | TPL4T | TPL5T | TPL6T | TPL7T | TPL8T |
| Protective roof for h | orizontal installati | ion with Front outle | t | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| TPPL1T (1) | TPPL2T (1) | TPPL3T (1) | TPPL4T (1) | TPPL5T (1) | TPPL6T (1) | TPPL7T (1) | TPPL8T (1) |
| To be installed on PLxT an | | | | | | | 201 (1) |
| | | | the France and at | | | | |
| toor for protecting p | ocket niters for ins | stallation on Line wi | | | | | |
| TPFTL1T (1) | TPFTL2T (1) | <u> </u> | <u>4</u> | 5 | 6 | 7 | - 8 |
| | | - | - | - | - | - | - |
| To be installed on FT7MxT The accessory cannot be fitted | | icated with - | | | | | |
| Corner support feet | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| P50MBT | P50MBT | P50MBT | P50MBT | P50MBT | P50MBT | P50MBT | P50MBT |
| . 5011101 | . 5011151 | 1301101 | 15011151 | 1 3011151 | 1 3011151 | 1 3011101 | 1 201101 |
| Lateral support feet | · | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| P50ACT | P50ACT | P50ACT | P50ACT | P50ACT | P50ACT | P50ACT | P50ACT |
| Floatric coil 4001/ 3 | EOU- | | | | | | |
| Electric coil 400V~3 | | | | | | | • |
| <u>1</u> | 2 P10E2T | 3 D14F2T | 4 D10E4T | 5 | 6 P20EcT | 7 P40E7T | 8 DEDEOT |
| B07E1T | B10E2T | B14E3T | B18E4T | B25E5T | B30E6T | B40E7T | B50E8T |
| lectric coil 460V~3 | 60Hz | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| B07E1TZ | B10E2TZ | B14E3TZ | B18E4TZ | B25E5TZ | B30E6TZ | B40E7TZ | B50E8TZ |
| | | . == := | | | ==== | | |

Adjustment module with sensor for volumetric flow rate

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------------------|-----------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| CP1T (1) | CP1T (1) | CP2T (1) | CP2T (1) | CP2T (1) | CP2T (1) | CP2T (1) | CP2T (1) |
| (1) Accessory only available | for TNxxE versions. | | | | | | |
| Adjustment module | e with sensor for dif | ferential pressure | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| CP1TP (1) | CP1TP (1) | CP1TP (1) | CP1TP (1) | CP1TP (1) | CP1TP (1) | CP1TP (1) | CP1TP (1) |
| (1) Accessory only available | for TNxxE versions. | | | | | | |
| Speed regulatory | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| CP1TV (1) | CP1TV (1) | CP1TV (1) | CP1TV (1) | CP1TV (1) | CP1TV (1) | CP1TV (1) | CP1TV (1) |

⁽¹⁾ Accessory only available for TNxxE versions.

CONFIGURATOR

| Field | Description |
|-------|--|
| 1,2 | TN |
| 3 | Size 1, 2, 3, 4, 5, 6, 7, 8 |
| 4 | Version |
| 4 | Water coil, 4 rows (LH side for connections - the connections side can be altered on site) |
| 6 | Water coil, 6 rows (LH side for connections - the connections side can be altered on site) |
| Α | R410A direct expansion coil, 4 rows (RH side for connections - the connections side cannot be altered on site) (1) |
| В | R410A direct expansion coil, 4 rows (LH side for connections - the connections side cannot be altered on site) (2) |
| С | R410A direct expansion coil, 6 rows (RH side for connections - the connections side cannot be altered on site) (1) |
| D | R410A direct expansion coil, 6 rows (LH side for connections - the connections side cannot be altered on site) (2) |
| 5 | Fans (3) |
| В | Centrifugal with AC motor (low head) |
| E | Plug fans with EC motor |
| Р | Centrifugal with AC motor (high head) |
| 6 | Power supply (4) |
| 0 | 400V ~ 3 50Hz |
| Z | 460V ~ 3 60Hz |

⁽¹⁾ With vertical configuration, the coil connections are on the opposite side to motor inspection. When transformed to horizontal configuration, the coil connections may be on the same side as motor inspection or on the opposite side, depending on the type of conversion.

(2) With vertical configuration, the coil connections may be on the same side as motor inspection or on the opposite side, depending on the type of conversion.

(3) The unit is always supplied with fan delivery directed upwards. The delivery flow direction can be altered on site.

(4) Field to be specified only in the case of a "B" or "P" fan unit. In the case of an "E" fan unit, the permitted power supply range is 380–480V ~ 3 50-60 Hz.

**VERSION: the definition of "RH connections side" or "LH connections side" refers to the position of the coil connections in relation to the air flow direction (convection: air flow from behind a hypothetical operator inserted in the flow).

^{**} All the units are always supplied and shipped in the vertical configuration. The customer is responsible for any possible modification from vertical to horizontal.

PERFORMANCE SPECIFICATIONS

TN 1-8 with 4-row water coil

| Size | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|-------------------|------|------|------|------|-------|-------|-------|-------|
| Cooling performance 7 °C / 12 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 15,6 | 21,3 | 29,1 | 38,1 | 44,8 | 56,7 | 74,7 | 96,4 |
| Sensible cooling capacity | kW | 10,7 | 14,7 | 20,1 | 26,2 | 33,3 | 41,7 | 55,1 | 70,9 |
| Heating performance 70 °C / 60 °C (2) | | | | | | | | | |
| Heating capacity | kW | 40,0 | 54,5 | 74,9 | 97,6 | 131,1 | 162,9 | 216,1 | 277,3 |
| Performance in heating mode with additional coil fo | or 4-pipe systems | | | | | | | | |
| Heating capacity with 2 row water coil | kW | 25,2 | 34,0 | 46,8 | 61,5 | 84,4 | 103,8 | 138,0 | 178,5 |
| Heating capacity with 3 row water coil | kW | 33,5 | 45,6 | 62,7 | 82,0 | 110,8 | 137,3 | 182,5 | 234,4 |
| Heating capacity with 4 row water coil | kW | 40,0 | 54,5 | 74,9 | 97,6 | 131,1 | 162,9 | 216,1 | 277,3 |
| Heating performance 45 °C / 40 °C (3) | | | | | | | | | |
| Heating capacity | kW | 23,4 | 31,9 | 43,7 | 57,0 | 76,3 | 94,8 | 125,8 | 161,4 |
| Performance in heating mode with additional coil fo | or 4-pipe systems | | | | | | | | |
| Heating capacity with 2 row water coil | kW | 14,7 | 19,8 | 27,3 | 36,0 | 49,0 | 60,3 | 80,1 | 103,8 |
| Heating capacity with 3 row water coil | kW | 19,6 | 26,6 | 36,6 | 47,9 | 64,4 | 79,8 | 106,1 | 136,3 |
| Heating capacity with 4 row water coil | kW | 23,4 | 31,9 | 43,7 | 57,0 | 76,3 | 94,8 | 125,8 | 161,4 |

⁽¹⁾ Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; (2) Room air temperature 10 °C d.b.; Water (in/out) 70 °C/60 °C (3) Room air temperature 10 °C d.b.; Water (in/out) 45 °C/40 °C;

TN 1-8 with 4-row direct expansion coil

| Size | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|------------------------------|------|------|------|------|------|------|------|------|
| Performance in cooling mode with incomin | g air at 27°C / 50% R.H. (1) | | | | | | | | |
| Cooling capacity | kW | 12,6 | 17,1 | 23,5 | 30,2 | 38,5 | 47,7 | 63,7 | 81,5 |
| Sensible cooling capacity | kW | 9,9 | 13,5 | 18,5 | 24,1 | 30,4 | 38,0 | 50,7 | 65,2 |

⁽¹⁾ Incoming air temperature 27°C D.B. 50% R.H.; R410A refrigerant, t.at. EVAP. 10°C, up to 8K, lower transformation at 0K, vapour - liquid vapour from 0 to 1; refer to the selection software.

TN 1-8 with 6-row water coil

| Size | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|--------------------|------|------|------|-------|-------|-------|-------|-------|
| Cooling performance 7 °C / 12 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 20,0 | 27,4 | 37,7 | 49,2 | 58,3 | 74,5 | 98,9 | 127,8 |
| Sensible cooling capacity | kW | 13,4 | 18,3 | 25,2 | 32,8 | 41,1 | 51,8 | 68,8 | 88,5 |
| Heating performance 70 °C / 60 °C (2) | | | | | | | | | |
| Heating capacity | kW | 48,7 | 66,6 | 91,5 | 119,2 | 157,5 | 196,8 | 260,4 | 334,1 |
| Performance in heating mode with additional coil | for 4-pipe systems | | | | | | | | |
| Heating capacity with 2 row water coil | kW | 25,2 | 34,0 | 46,8 | 61,5 | 84,4 | 103,8 | 138,0 | 178,5 |
| Heating capacity with 3 row water coil | kW | 33,5 | 45,6 | 62,7 | 82,0 | 110,8 | 137,3 | 182,5 | 234,4 |
| Heating capacity with 4 row water coil | kW | 40,0 | 54,5 | 74,9 | 97,6 | 131,1 | 162,9 | 216,1 | 277,3 |
| Heating performance 45 °C / 40 °C (3) | | | | | | | | | |
| Heating capacity | kW | 28,5 | 38,9 | 53,5 | 69,6 | 91,7 | 114,3 | 151,7 | 194,6 |
| Performance in heating mode with additional coil | for 4-pipe systems | | | | | | | | |
| Heating capacity with 2 row water coil | kW | 14,7 | 19,8 | 27,3 | 36,0 | 49,0 | 60,3 | 80,1 | 103,8 |
| Heating capacity with 3 row water coil | kW | 19,6 | 26,6 | 36,6 | 47,9 | 64,4 | 79,8 | 106,1 | 136,3 |
| Heating capacity with 4 row water coil | kW | 23,4 | 31,9 | 43,7 | 57,0 | 76,3 | 94,8 | 125,8 | 161,4 |

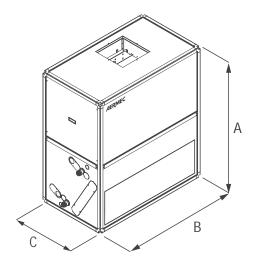
⁽¹⁾ Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; (2) Room air temperature 10 °C d.b.; Water (in/out) 70 °C/60 °C (3) Room air temperature 10 °C d.b.; Water (in/out) 45 °C/40 °C;

GENERAL TECHNICAL DATA

Fans

| Size | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|----------------------------|--------------------|------------|--------------|---------------------------------------|------------|--------------|--------------|---------------------------------------|-------------|
| Fans: B | | | ı | | | 4 | | 0 | | 8 |
| Fan Fan | | | | | | | | | | |
| Number | 4,6,A,B,C,D | no | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nr. poles | 4,6,A,B,C,D 4,6,A,B,C,D | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | no. | | | · · · · · · · · · · · · · · · · · · · | | | | · · · · · · · · · · · · · · · · · · · | |
| Maximum air flow rate with cooling coil | 4,6,A,B,C,D | m³/h | 3000 | 4100 | 5650 | 7350 | 9400 | 11700 | 15500 | 20000 |
| Maximum air flow rate with heating coil | 4,6,A,B,C,D | m³/h | 3500 | 4700 | 6400 | 8000 | 9750 | 13400 | 17800 | 20000 |
| High static pressure - maximum | 4,6,A,B,C,D | Pa | 425 | 455 | 452 | 440 | 383 | 425 | 436 | 400 |
| Total fan input power | 4,6,A,B,C,D | kW | 0,8 | 1,1 | 1,5 | 2,2 | 2,2 | 4,0 | 4,0 | 5,5 |
| Version without resistance | | | | | | | | | | |
| Rated current input | 4,6,A,B,C,D | A | 1,8 | 2,4 | 3,2 | 4,7 | 4,7 | 8,2 | 8,2 | 11,1 |
| Peak current | 4,6,A,B,C,D | A | 5,3 | 6,2 | 6,8 | 6,4 | 6,4 | 7,0 | 7,0 | 5,9 |
| Version with electric heater | | | | | | | | | | |
| Rated current input | 4,6,A,B,C,D | A | 11,9 | 16,9 | 15,0 | 23,4 | 30,7 | 40,8 | 51,6 | 83,4 |
| Peak current | 4,6,A,B,C,D | Α | 11,9 | 16,9 | 23,4 | 30,7 | 40,8 | 51,6 | 66,0 | 83,4 |
| Fan | | | | | | | | | | |
| Power supply | 4,6,A,B,C,D | | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz |
| Fans: E | | | | | | | | | | |
| Fan | | | | | | | | | | |
| Number | 4,6,A,B,C,D | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Nr. poles | 4,6,A,B,C,D | no. | _ | - | - | _ | _ | - | - | - |
| Maximum air flow rate with cooling coil | 4,6,A,B,C,D | m³/h | 3000 | 4100 | 5650 | 7350 | 9400 | 11700 | 15500 | 20000 |
| Maximum air flow rate with heating coil | 4,6,A,B,C,D | m³/h | 3500 | 4700 | 6400 | 8400 | 10500 | 13400 | 17800 | 23000 |
| High static pressure - maximum | 4,6,A,B,C,D | Pa | 700 | 660 | 700 | 700 | 660 | 640 | 700 | 580 |
| Total fan input power | 4,6,A,B,C,D | kW | 1,5 | 1,5 | 2,5 | 3,4 | 3,4 | 3,4 | 3,4 | 3,4 |
| Version without resistance | 7,0,7,0,0,0 | RVV | ر,۱ | 1,5 | 2,3 | Э,т | Э,Т | Э,Т | 3,7 | Э,Т |
| Rated current input | 4,6,A,B,C,D | A | 2,4 | 2,4 | 4,0 | 5,4 | 5,4 | 5,4 | 2x5,4 | 2x5,4 |
| Peak current | 4,6,A,B,C,D | A | - Z,4 | 2,4 | 4,0 | | - 3,4 | 3,4 | 2x3,4 | 233,4 |
| | 4,0,A,D,C,D | А | - | - | - | | - | - | | |
| Version with electric heater | ACARCR | Α. | 12.5 | 16.0 | 24.2 | 21.4 | 41.5 | 40.0 | (0.6 | 02.1 |
| Rated current input | 4,6,A,B,C,D | A | 12,5 | 16,9 | 24,2 | 31,4 | 41,5 | 48,8 | 68,6 | 83,1 |
| Peak current | 4,6,A,B,C,D | A | - | - | - | - | - | - | - | - |
| Fan | | | | | | | | | | |
| Power supply | 4,6,A,B,C,D | | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz |
| Fans: P | | | | | | | | | | |
| Fan | | | | | | | | | | |
| Number | 4,6,A,B,C,D | no. | 1 | 1 | 11 | 1 | 1 | 1 | 11 | 1 |
| Nr. poles | 4,6,A,B,C,D | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Maximum air flow rate with cooling coil | 4,6,A,B,C,D | m³/h | 3000 | 4100 | 5650 | 7350 | 9400 | 11700 | 15500 | 20000 |
| Maximum air flow rate with heating coil | 4,6,A,B,C,D | m³/h | 3500 | 4700 | 6400 | 8400 | 10500 | 13400 | 17800 | 23000 |
| High static pressure - maximum | 4,6,A,B,C,D | Pa | 600 | 627 | 674 | 672 | 567 | 670 | 625 | 610 |
| Total fan input power | 4,6,A,B,C,D | kW | 1,1 | 1,5 | 2,2 | 3,0 | 3,0 | 5,5 | 5,5 | 7,5 |
| Version without resistance | | | | | | | | | | |
| Rated current input | 4,6,A,B,C,D | А | 2,4 | 3,2 | 4,7 | 6,3 | 6,3 | 11,1 | 11,1 | 14,9 |
| Peak current | 4,6,A,B,C,D | A | 6,2 | 6,8 | 6,4 | 7,7 | 7,7 | 5,9 | 5,9 | 5,6 |
| Version with electric heater | | | | , | , | • | | , | , | |
| Rated current input | 4,6,A,B,C,D | Α | 12,5 | 17,7 | 24,9 | 32,3 | 42,4 | 54,5 | 68,9 | 87,2 |
| Peak current | 4,6,A,B,C,D | A | 12,5 | 17,7 | 24,9 | 32,3 | 42,4 | 54,5 | 68,9 | 87,2 |
| Fan | יוטוייוטוכוט | | 14,5 | 17,7 | - 1,7 | 36,3 | 12/1 | 51,5 | 00,7 | 31,12 |
| Power supply | 4,6,A,B,C,D | | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz | 400~3 50Hz |
| | | | | | | TUU C TUUT | TOU - J JUIL | TUU C ·· OUT | TUU C · OUT | ZUUC C. OUT |
| It is the maximum static pressure that can b | e supplied by the fa | an; it is equal to | | | <u>.</u> | | | | | |
| Size | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | |
| Water coil H | | | 475 | 475 | | | | | | |

DIMENSIONS



| Size | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------------|-------------|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | 4,6,A,B,C,D | mm | 1334 | 1334 | 1497 | 1497 | 1822 | 1822 | 2309 | 2309 |
| В | 4,6,A,B,C,D | mm | 928 | 1172 | 1334 | 1659 | 1659 | 1984 | 1984 | 2472 |
| C | 4,6,A,B,C,D | mm | 684 | 684 | 765 | 765 | 928 | 928 | 1172 | 1172 |
| Size | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Fans: B | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| | 4 | kg | 187 | 216 | 270 | 314 | 408 | 466 | 619 | 793 |
| Emptywaight | 6 | kg | 190 | 220 | 275 | 320 | 415 | 475 | 630 | 807 |
| Empty weight | A,B | kg | 191 | 220 | 274 | 318 | 412 | 470 | 623 | 797 |
| | C,D | kg | 195 | 225 | 280 | 325 | 420 | 480 | 635 | 812 |
| Fans: E | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| | 4 | kg | 175 | 199 | 249 | 304 | 388 | 466 | 611 | 769 |
| Emptywaiaht | 6 | kg | 178 | 203 | 254 | 310 | 395 | 475 | 622 | 783 |
| Empty weight | A,B | kg | 179 | 203 | 253 | 308 | 392 | 470 | 615 | 773 |
| | C,D | kg | 183 | 208 | 259 | 315 | 400 | 480 | 627 | 788 |
| Fans: P | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| | 4 | kg | 197 | 219 | 279 | 316 | 410 | 493 | 646 | 799 |
| Emptywaight | 6 | kg | 200 | 223 | 283 | 321 | 417 | 502 | 657 | 813 |
| Empty weight | A,B | kg | 201 | 223 | 283 | 320 | 414 | 497 | 650 | 803 |
| | C,D | kg | 205 | 228 | 289 | 327 | 422 | 507 | 662 | 818 |

 $Add \, 50mm \, to \, the \, height \, of \, the \, unit \, (A), \, to \, allow \, for \, the \, feet.$ The vertical configuration (B/D), the connections and motor inspection are on the same side.







NCD Air handling



- Maximum installation flexibility
- · EC fan Plug-fan
- Large range of capacities.







FEATURES

- Central air handling units with double panelling with panel thickness of 50 mm;
- Support structure realised in aluminium alloy sections and a large choice of panels;
- Wide range of sections and components to satisfy all plant engineering requirements
- Double intake centrifugal fans with forward or reverse blades.
- PLUG FAN type fan with Inverter regulation, able to adapt to the most varied system requirements.

Structure

- In aluminium sections;
- New panelling and gaskets, able to guarantee reduced seepage in compliance with the EN1886 Standard;
- Reduction of noise emission thanks to the use of material with high sound-absorption power;
- Small dimensions and contained height.

Internal components

- New high-efficiency heat exchangers with small pressure drops
- 3-damper mixing chamber.

Mixing chamber with three dampers. The configurations for the mixing chambers with three dampers are the following:

- two upper dampers and an internal one for recirculation;
- two front dampers and a horizontal one for recirculation (for overlapping control units);
- two lateral internal dampers and an internal for recirculation (configuration for expulsion and non-ducted fresh air intake).

Large availability of filters

- Filters with large surfaces to reduce the pressure drops and increase the duration;
- Cell pre-filters;
- Roll filters;
- Bag filters;
- Absolute filters;
- Activated carbon filters;

- Germicidal lamp;
- New efficient drop eliminator in PVC;
- New heat recoverers with high heat exchange.

Electric components

- Electronic regulation available able to optimise the performance and simplify installation of the control unit itself;
- New high performance selection software.

ACCESSORIES

Technical rooms;

Accessories for air intake/exhaust sections:

- Flange;
- Blank panel (to be perforated with care by the customer);
- Anti-vibration sheet on the intake/flow vents (with or without damper) with earth cable;
- Aluminium grille (for internal dampers only);
- Manual command on the dampers;
- Proportional servo-control;
- Proportional servo-control with spring return;
- Pedestrian grill on the floor dampers.

Accessories for the fan-motor sections:

- Damper on the flow vent;
- Damper on the flow vent;
- Micro switch on the inspection hatch.

Accessories common to several sections:

- Spot light with window with 24V bulb (the installer must envision the 24V power supply);
- Manometer with dial;
- Pressure switche;
- Instruments-probes holder GJ 1/4" double sleeve;
- Floor reinforced with non-slip sheet steel.

PERFORMANCE SPECIFICATIONS

| | Air flow rate m ³ /h | Section heating coil m ² |
|--------|---------------------------------|-------------------------------------|
| NCD 1 | 1134 | 0,13 |
| NCD 2 | 1958 | 0,22 |
| VCD 3 | 2390 | 0,27 |
| NCD 4 | 3132 | 0,35 |
| CD 5 | 3823 | 0,42 |
| CD 6 | 4307 | 0,48 |
| CD 7 | 5257 | 0,58 |
| CD 8 | 6207 | 0,69 |
| ICD 9 | 8019 | 0,89 |
| ICD 10 | 9477 | 1,05 |
| CD 11 | 11548 | 1,28 |
| CD 12 | 14213 | 1,58 |
| CD 13 | 16978 | 1,89 |
| CD 14 | 19742 | 2,19 |
| CD 15 | 25761 | 2,86 |
| CD 16 | 30772 | 3,42 |
| ICD 17 | 37139 | 4,13 |
| ICD 18 | 47187 | 4,80 |
| CD 19 | 49235 | 5,47 |
| CD 20 | 55283 | 6,14 |
| D 21 | 61331 | 6,81 |
| CD 22 | 67379 | 7,49 |
| CD 23 | 73427 | 8,16 |
| ICD 24 | 79475 | 8,83 |

The performance refers to an air speed through the coils equal to 2.5 m/s.

| | EXT | | 734 | 894 | 1054 | 1214 | 1374 | 1534 | 1694 | 1854 | 2014 |
|------------------|------|------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| Height with base | | INT | 620 | 780 | 940 | 1100 | 1260 | 1420 | 1580 | 1740 | 1900 |
| | | | NCD1 | NCD1A | NCD2 | NCD2 | NCD3C | NCD4B | NCD5B | NCD6B | NCD6D |
| 645 | 525 | 410 | 1370-1640 | 1880-2260 | 2350-2820 | 2350-2820 | 3390-4070 | 3890-4670 | 4380-5250 | 4860-5840 | 5330-6400 |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | NCD1B | NCD3A | NCD4 | NCD5 | NCD6A | NCD7A | NCD8A | NCD8C | NCD8F |
| 805 | 685 | 570 | 1970-2360 | 2720-3260 | 3400-4080 | 4150-4980 | 4900-5870 | 5620-6740 | 6320-7590 | 7020-8430 | 7700-9240 |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | NCD2A | NCD4A | NCD6 | NCD7 | NCD8 | NCD8D | NCD9 | NCD9C | NCD9F |
| 965 | 845 | 730 | 2580-3090 | 3550-4260 | 4440-5330 | 5420-6500 | 6400-7680 | 7350-8820 | 8270-9920 | 9180-11020 | 10070-12090 |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | NCD3B | NCD5A | NCD6E | NCD8B | NCD8H | NCD9A | NCD10 | NCD10C | NCD11 |
| 1125 | 1005 | 890 | 3180-3820 | 4390-5270 | 5490-6580 | 6700-8030 | 7910-9490 | 9080-10890 | 10210-12250 | 11340-13610 | 12440-14930 |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | | NCD6C | NCD7B | NCD8G | NCD9E | NCD10A | NCD10F | NCD11A | NCD12 |
| 1285 | 1165 | 1050 | | 5220-6270 | 6530-7830 | 7970-9560 | 9410-11290 | 10800-12960 | 12150-14580 | 13500-16200 | 14810-17770 |
| | | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | | | NCD8E | NCD9B | NCD10B | NCD10G | NCD11D | NCD12A | NCD12C |
| 1445 | 1325 | 1210 | | | 7570-9090 | 9240-11090 | 10910-13100 | 12530-15040 | 14100-16920 | 15660-18800 | 17180-20610 |
| | | | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | | | | NCD10D | NCD11B | NCD12B | NCD13A | NCD13D | NCD14B |
| 1765 | 1645 | 1530 | | | | 11790-14150 | 13920-16710 | 15990-19190 | 17990-21580 | 19980-23980 | 21920-26300 |
| | | | | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h |
| | | | | | | | | NCD13B | NCD14A | NCD14E | NCD15 |
| 2085 | 1965 | 1850 | | | | | | 19440-23330 | 21870-26250 | 24300-29160 | 26650-31980 |
| | | | | | | | | m³/h | m³/h | m³/h | m³/h |
| | | | | | | | | | | NCD15D | NCD15G |
| 2405 | 2285 | 2170 | | | | | | | | 28620-34350 | 31390-37670 |
| | | | | | | | | | | m³/h | m³/h |
| | | | | | | | | | | | NCD16B |
| 2565 | 2445 | 2330 | | | | | | | | | 33760-40510 |
| | | | | | | | | | | | m³/h |

| Height with base | | INT | 2220 | 2540 | 2860 | 3180 | 3500 | 3820 | 4140 | 4460 | |
|------------------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|--|
| 645 | 525 | 410 | | | | | | | | | |
| | | | NCD9D | | | | | | | | |
| 805 | 685 | 570 | 9200-11040 | | | | | | | | |
| | | | m³/h | | | | | | | | |
| | | | NCD10E | NCD11C | | | | | | | |
| 965 | 845 | 730 | 12030-14440 | 13990-16790 | | | | | | | |
| | | | m³/h | m³/h | | | | | | | |
| | | | NCD11E | NCD12D | NCD13C | | | | | | |
| 1125 | 1005 | 890 | 14860-17830 | 17280-20730 | 19700-23640 | | | | | | |
| | | | m³/h | m³/h | m³/h | | | | | | |
| | | | NCD13 | NCD14 | NCD14C | NCD15B | | | | | |
| 1285 | 1165 | 1050 | 17690-21230 | 20570-24680 | 23450-28140 | 26330-31590 | | | | | |
| | | | m³/h | m³/h | m³/h | m³/h | | | | | |
| | | | NCD13E | NCD14D | NCD15C | NCD15E | NCD16A | | | | |
| 1445 | 1325 | 1210 | 20520-24620 | 23860-28630 | 27200-32640 | 30540-36650 | 33880-40660 | | | | |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | | | | |
| | | | NCD15A | NCD15F | NCD16C | NCD17A | NCD17D | NCD18B | | | |
| 1765 | 1645 | 1530 | | | | | 43230-51870 | 47490-56990 | | | |
| | | | m³/h | m³/h | m³/h | m³/h | m³/h | m³/h | | | |
| | | | NCD16 | NCD16D | NCD17C | NCD18C | NCD19A | NCD20A | NCD21A | NCD21C | |
| 2085 | 1965 | 1850 | | | | | | | 62940-75530 | 68130-81750 | |
| | | | m³/h | |
| | | | NCD17 | NCD18 | NCD19 | NCD20 | NCD21 | NCD22 | NCD23 | NCD24 | |
| 2405 | 2285 | 2170 | | | | | 61920-74300 | 68030-81630 | 74130-88960 | 80240-96280 | |
| | | | m³/h | |
| | | | NCD17B | NCD18A | NCD19B | NCD20B | NCD21B | NCD22A | NCD23A | NCD24A | |
| 2565 | 2445 | 2330 | | | | | 66590-79910 | | | 86290- | |
| | | | m³/h | 103550 m ³ /h | |

DIMENSIONS



| | Section A (mm) | Section B (mm) |
|-------|----------------|----------------|
| NCD1 | 645 | 735 |
| NCD2 | 645 | 1055 |
| NCD3 | 645 | 1215 |
| NCD4 | 805 | 1055 |
| NCD5 | 805 | 1215 |
| NCD6 | 965 | 1055 |
| NCD7 | 965 | 1215 |
| NCD8 | 965 | 1375 |
| NCD9 | 965 | 1695 |
| NCD10 | 1130 | 1695 |
| NCD11 | 1130 | 2015 |
| NCD12 | 1285 | 2015 |
| NCD13 | 1285 | 2335 |
| NCD14 | 1285 | 2655 |
| NCD15 | 2085 | 2015 |
| NCD16 | 2085 | 2335 |
| NCD17 | 2405 | 2335 |
| NCD18 | 2405 | 2655 |
| NCD19 | 2405 | 2975 |
| NCD20 | 2405 | 3295 |
| NCD21 | 2405 | 3615 |
| NCD22 | 2405 | 3935 |
| NCD23 | 2405 | 4255 |
| NCD24 | 2405 | 4575 |

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SPL 025-130

Swimming Pool Lines air handling unit for health centres

Air flow rate 4000 ÷ 13000 m³/h



- Maximum installation flexibility
- · EC fan Plug-fan
- Large range of capacities.



DESCRIPTION

The units from the SPL series represent the ideal solution to guarantee the comfort conditions in small-medium spaces such as health centres, spa areas, fitness centres, small swimming pools, sports facilities, etc. The unit contains a refrigerant circuit and a system for the recovery of sensible and latent heat coming from the humid air extracted from the space, thereby being optimised for the reduction of energy consumption.

The main function of the unit, which is a "plug and play" machine ready for use, is that of dehumidifying and at the same time ensuring control of the temperature and humidity conditions of the area served.

The unit is fitted with an efficient heat recovery system on the water side, to be used to partially heat the swimming pool water at no cost. The structure and all the internal components are built to ensure the maximum resistance to corrosion

FEATURES

Fitted as standard with panel filters in extract (G4 efficiency class according to EN779) and panel + bag filters (G4 + F9 efficiency class according to EN779) meet the requirements for the applicable standards for indoor air quality. Dirty filter differential pressure switches are provided as standard.

Structure

Anodised aluminium profile with reinforced nylon corner pieces. Casing made from sandwich type panels (50mm thickness), with internal surface pre-painted galvanised steel, external in pre-painted galvanised steel and insulating material hot injected polyurethane with a density of 42 kg/m³, fixed without screws but with panel locking profiles, doors with keyless handles.

This fixing method allows a uniform pressure on the casing, ensuring an excellent resistance to the leakage of air and water.

The support structures and the seals around components are completely painted to ensure the maximum corrosion resistance. The bottom surfaces of the unit are fitted with drain panels in pre-painted galvanised steel with a central drain point piped sideways.

Thermal recovery section

High efficiency static cross flow in pre-painted aluminium. Including dampers: recirculating damper used for the quick start up of the space, recirculating damper for the "primary" cycle, dampers on the air inlet and extract. All dampers are manufactured in anodised aluminium and are individually controlled by an external actuator for precise air flow control.

Refrigerant circuit

Fitted with scroll compressor supplied with rubber anti-vibration feet, refrigerant gas/air heat exchanger coil with copper tubes and pre-painted aluminium fins and painted frame, filter, electronic expansion valve, liquid receiver, filter drier, controls (pressure transducers and visual indicators) and safeties (high and low pressure pressostats), brazed copper connections, refrigerant charge of environmentally friendly R410A. The refrigerant circuit is installed in a compartment isolated from the air flow to facilitate checks and maintenance.

The units on request can also be realized without the refrigerant circuit. The size of the machine remains unchanged.

Fan section

Treated with epoxy paint resistant to corrosion, fitted with "plug fans" with backward curved impeller of high output. Electrical motor directly coupled to the impeller suitable for inverter control (standard).

Filtration systems

Hot water heating coil

With copper tubes and pre-painted aluminium fins to heat the supply air after dehumidification, controlled by a modulating 3 way valve (standard); this allows the accurate control of the supply air temperature. The frame of the coil is in painted galvanised steel to ensure the maximum resistance to corrosion.

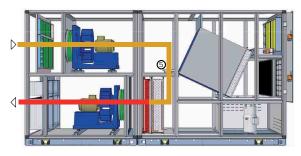
Electric power board

Power and controls panel unit mounted. Electrical installation for the connection of power and controls, set in tubes or conduits with glands and grommets, IP55 protective rating. Remote panel supplied as standard for the control of all the main functions and display of alarms.

OPERATING SCHEMATICS

The principal operation modes of the unit are shown in the example schematics below.

"START UP" CYCLE



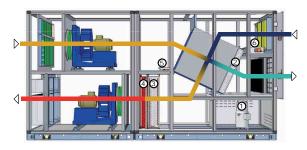
In all the following schematics the hot water coil is always operating because the external air temperature is below 10° C with a required supply air temperature to compensate for the heat losses from the building.

The operating mode is with no external air flow. The whole air flow is recirculated through damper 5 and returned to the pool area.

The hot water coil is operational.

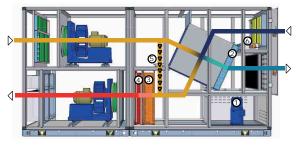
The "start up cycle" is activated for the time necessary to heat up the

"DEHUMIDIFICATION" CYCLE



In night time mode the unit modifies the operating settings to adapt to the changes of evaporation from the pool and reduce consumption to the minimum.

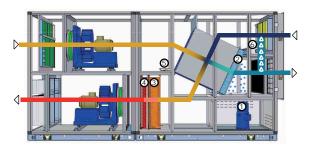
Dehumidification with external air



The operating mode is with external air dehumidifying the space, compensating for evaporation from the pool. The refrigerant circuit (consisting of the compressor 1 and the coils 2 and 3) allows the sensible and latent heat recovery of the extracted air to be transferred to the supply air or the water, through the thermal heat exchange consisting of the double heat exchanger on the water side.

The hot water coil 4 supplements, if necessary, the heating capacity provided by the refrigerant circuit, placed downstream of the entering air flow (condensing coil 3).

ehumidification with external air and primary cycle

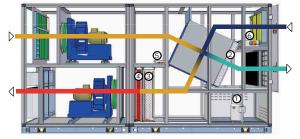


When required the compressor also assists in the dehumidification of the pool area.

The supply air flow is modulated by the fan inverter to reach the required hygrometric conditions.

As a function of the external ambient temperature the unit modifies the operating mode to achieve the best efficiency possible.

Dehumidification with external air (night cycle)



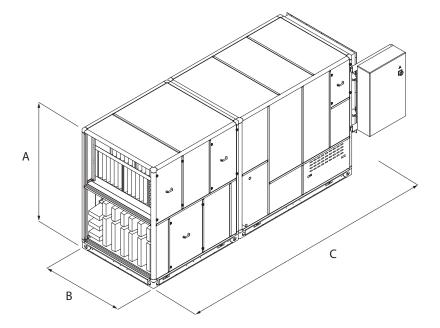
In night time mode the unit modifies the operating settings to adapt to the changes of evaporation from the pool and reduce consumption to the minimum.

PERFORMANCE SPECIFICATIONS

| | | | 025 | 040 | 060 | 100 | 130 |
|----------------------------------|-----|-------|---------------------------------------|-------|----------------|----------|---------------------------------------|
| Nominal airflow (supply/extract) | | M³/h | 2500 | 4000 | 6300 | 10000 | 13000 |
| Available pressure (supply/ | | | 100 | 400 | 100 | 400 | 400 |
| extract) | | Pa | 400 | 400 | 400 | 400 | 400 |
| Heat recovery capacity | (1) | KW | 7,90 | 12,60 | 20,40 | 32,00 | 41,50 |
| recovered | (1) | NVV | 7,90 | 12,00 | 20,40 | 32,00 | 41,30 |
| Max heat recovery efficiency | (1) | % | 80,80 | 79,30 | 80,10 | 79,50 | 79,40 |
| Refrigerant circuit recovered | (1) | KW | 7,50 | 10,50 | 21,30 | 31,70 | 45,70 |
| capacity | | | | 10,30 | 21,30 | 31,70 | 45,70 |
| Total recovered capacity | (1) | KW | 15,40 | 23,10 | 41,60 | 63,70 | 87,30 |
| Compressor absorbed power | (1) | KW | 1,30 | 1,60 | 3,70 | 6,00 | 8,40 |
| COP | (1) | - | 11,80 | 14,40 | 11,20 | 10,60 | 10,40 |
| COP | (2) | - | 3,90 | 4,00 | 4,10 | 4,00 | 4,10 |
| Total dehumidification capacity | (1) | Kg/h | 15,50 | 25,20 | 40,10 | 63,70 | 82,70 |
| Supply fan power input | | KW | 1,60 | 2,60 | 3,70 | 5,90 | 7,60 |
| Extract fan power input | | KW | 1,20 | 1,90 | 2,70 | 4,50 | 5,70 |
| Type / number of compressors | | No. | | | Scroll / 1 | | |
| Hot water heating coil | | | | | | | |
| (standard) | | | | | | | |
| Capacity (without recovery | (1) | KW | 26,10 | 35,40 | 61,60 | 95,30 | 124,50 |
| active) | (1) | IXVV | 20,10 | 33,40 | 01,00 | 93,30 | 124,50 |
| Water flow rate | (3) | L/h | 2250 | 3050 | 5300 | 8200 | 10700 |
| Water pressure drop | (3) | KPa | 23,50 | 43,70 | 33,10 | 48,80 | 46,30 |
| Plate heat exchanger R410A/non | | | | | | | |
| aggressive water (standard) | | | | | | | |
| Nominal water flow rate | (4) | L/h | 950 | 1120 | 2500 | 3600 | 5400 |
| Pressure drops | (4) | KPa | 19,00 | 19,00 | 31,00 | 32,00 | 33,00 |
| Plate heat exchanger accessible | | | | | | | |
| non aggressive water/pool water | | | | | | | |
| (standard) | | | | | | | |
| Water flow rate nominal pool | (5) | L/h | 1200 | 1400 | 3100 | 4500 | 6800 |
| Pressure drop pool side | (5) | KPa | 32,40 | 34,00 | 31,40 | 33,00 | 34,50 |
| Pressure drop intermediate | (5) | KPa | 21,20 | 22,30 | 20,60 | 21,60 | 22,50 |
| circuit side | (5) | TAT G | 21,20 | 22,30 | 20,00 | 21,00 | 22,30 |
| Electric data | | | | | | | |
| Unit power supply | | | | | 400 V-3- 50 Hz | | |
| Maximum total current input | | А | 3,50 | 6,20 | 11,00 | 14,60 | 15,00 |
| supply fan | | n | 5,50 | 0,20 | 11,00 | 17,00 | 13,00 |
| Maximum total current input | | А | 2,60 | 4,90 | 6,40 | 11,30 | 11,30 |
| extract fan | | | · · · · · · · · · · · · · · · · · · · | | | <u> </u> | · · · · · · · · · · · · · · · · · · · |
| Unit maximum current input | | A | 11,60 | 17,10 | 32,40 | 49,30 | 61,30 |
| Unit starting current | | A | 32,10 | 46,10 | 91,40 | 181,90 | 184,30 |

- 1. External air 0°C,80% RH; internal air 29°C,60% RH.
- 2. Values as per conditions of D.M. 7 april 2008 for heating only operation
- **3.** Water temperature inlet/outlet 70/60°C; water pressure drop including 3 way valve
- **4.** Water temperature inlet/outlet non aggressive 27/37°C
- 5. Water temperature inlet/outlet intermediate circuit 37/27°C; water temperature inlet/outlet pool 25/35°C

DIMENSIONS



| | | 025 | 040 | 060 | 100 | 130 |
|--------|----|------|------|------|------|------|
| A | mm | 1765 | 1765 | 2245 | 2405 | 2405 |
| В | mm | 895 | 895 | 1055 | 1375 | 1695 |
| C | mm | 3230 | 3390 | 4190 | 4190 | 4670 |
| Weight | Kg | 900 | 1000 | 1350 | 2060 | 2600 |



SPL 160-250



Swimming Pool Lines Air handling unit high efficiency for health centres.

Air flow from 16000 to 25000 m³/h.

DESCRIPTION

The units from the SPL series represent the ideal solution to guarantee the comfort conditions in small-medium spaces such as health centres, spa areas, fitness centres, small swimming pools, sports facilities, etc. The unit contains a refrigerant circuit and a system for the recovery of sensible and latent heat coming from the humid air extracted from the space, thereby being optimised for the reduction of energy consumption. The main function of the unit, which is a "plug and play" machine ready for use, is that of dehumidifying and at the same time ensuring control of the temperature and humidity conditions of the area served. The unit is fitted with an efficient heat recovery system on the water side, to be used to partially heat the swimming pool water at no cost. The structure and all the internal components are built to ensure the maximum resistance to corrosion.

CHARACTERISTICS

Sizes

3 sizes available

Structure

Anodised aluminium profile with reinforced nylon corner pieces. Casing
made from sandwich type panels (50mm thickness), with internal surface pre-painted galvanised steel, external in pre-painted galvanised
steel and insulating material hot injected polyurethane with a density
of 42 kg/m³, fixed without screws but with panel locking profiles, doors
with keyless handles. This fixing method allows a uniform pressure on
the casing, ensuring an excellent resistance to the leakage of air and
water. The support structures and the seals around components are
completely painted to ensure the maximum corrosion resistance. The
bottom surfaces of the unit are fitted with drain panels in pre-painted
galvanised steel with a central drain point piped sideways.

Thermal recovery section

 High efficiency static cross flow in pre-painted aluminium. Including dampers: recirculating damper used for the quick start up of the space, recirculating damper for the "primary" cycle, dampers on the air inlet and extract. All dampers are manufactured in anodised aluminium and are individually controlled by an external actuator for precise air flow control.

Refrigerant circuit

- Fitted with scroll compressor supplied with rubber anti-vibration feet, refrigerant gas/air heat exchanger coil with copper tubes and pre-painted aluminium fins and painted frame, filter, electronic expansion valve, liquid receiver, filter drier, controls (pressure transducers and visual indicators) and safeties (high and low pressure pressostats), brazed copper connections, refrigerant charge of environmentally friendly R410A. The refrigerant circuit is installed in a compartment isolated from the air flow to facilitate checks and maintenance.
- The units on request can also be realized without the refrigerant circuit.
 The size of the machine remains unchanged

Fan section:

 Treated with epoxy paint resistant to corrosion, fitted with "plug fans" with backward curved impeller of high output. Electrical motor directly coupled to the impeller suitable for inverter control (standard).

Filtration systems:

Fitted as standard with panel filters in extract (G4 efficiency class according to EN779) and panel + bag filters (G4 + F9 efficiency class according to EN779) meet the requirements for the applicable standards for indoor air quality. Dirty filter differential pressure switches are provided as standard.

Hot water heating coil:

With copper tubes and pre-painted aluminium fins to heat the supply air after dehumidification, controlled by a modulating 3 way valve (standard); this allows the accurate control of the supply air temperature. The frame of the coil is in painted galvanised steel to ensure the maximum resistance to corrosion.

Electrical panel:

 Power and controls panel unit mounted. Electrical installation for the connection of power and controls, set in tubes or conduits with glands and grommets, IP55 protective rating. Remote panel supplied as standard for the control of all the main functions and display of alarms.

OPERATING SCHEMATICS

The principal operation modes of the unit are shown in the example schematics below.

In all the following schematics the hot water coil is always operating because the external air temperature is below 10°C with a required supply air temperature to compensate for the heat losses from the building.

"START UP" CYCLE

Top view

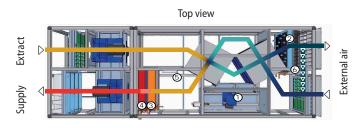
The operating mode is with no external air flow. The whole air flow is recirculated through damper 5 and returned to the pool area.

The hot water coil is operational.
The "start up cycle" is activated for

The "start up cycle" is activated for the time necessary to heat up the area

"DEHUMIDIFICATION" CYCLE

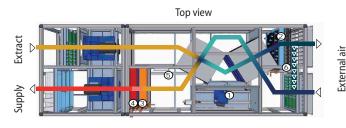
Dehumidification with external air



The operating mode is with external air dehumidifying the space, compensating for evaporation from the pool. The refrigerant circuit (consisting of the compressor 1 and the coils 2 and 3) allows the sensible and latent heat recovery of the extracted air to be transferred to the supply air or the water, through the thermal heat exchange consisting of the double heat exchanger on the water side.

The hot water coil 4 supplements, if necessary, the heating capacity provided by the refrigerant circuit, placed downstream of the entering air flow (condensing coil 3).

Dehumidification with external air and alpha cycle

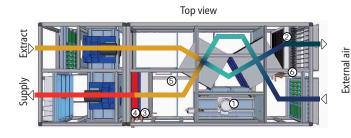


When required the compressor also assists in the dehumidification of the pool area.

The supply air flow is modulated by the fan inverter to reach the required hygrometric conditions.

As a function of the external ambient temperature the unit modifies the operating mode to achieve the best efficiency possible.

Dehumidification with external air (night cycle)



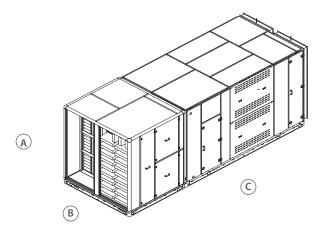
In night time mode the unit modifies the operating settings to adapt to the changes of evaporation from the pool and reduce consumption to the minimum.

TECHNICAL DATA

| SPL | | 160 | 200 | 250 |
|--|--------------------|-----------------|----------------------|-------|
| Nominal airflow (supply/extract) | m³/h | 16000 | 20000 | 25000 |
| Available pressure (supply/extract) | Pa | 400 | 400 | 400 |
| Heat recovery capacity recovered ¹ | kW | 59,6 | 68,6 | 89,2 |
| Max heat recovery efficiency ¹ | % | 93 | 86 | 89 |
| Refrigerant circuit recovered capacity ¹ | kW | 46,3 | 53,6 | 69,4 |
| Total recovered capacity ¹ | kW | 105,9 | 122,2 | 158,6 |
| Compressor power input ¹ | kW | 8,5 | 9,2 | 12,8 |
| COP ¹ | - | 12,5 | 13,3 | 12,4 |
| COP ² | - | 4,0 | 3,9 | 3,9 |
| Total dehumidification capacity ¹ | kg/h | 102,2 | 127,6 | 159,5 |
| Supply fan power input | kW | 10,9 | 13,7 | 17,7 |
| Extract fan power input | kW | 8,3 | 9,8 | 12,4 |
| Type / number of compressors | n° | | Scroll / 1 | |
| Hot water heating coil (standard) | | | | |
| Capacity (without recovery active) ¹ | kW | 131,9 | 182,7 | 205,9 |
| Water flow rate 3 | l/h | 11300 | 15700 | 17700 |
| Water pressure drop ³ | kPa | 43,7 | 37,9 | 42,2 |
| Plate heat exchanger R410A/non aggressive | e water (standard) | | | |
| Water flow rate nominal ⁴ | l/h | 5760 | 6450 | 8260 |
| Pressure drop ⁴ | kPa | 33 | 33 | 33 |
| Plate heat exchanger accessible non aggres | sive water/pool w | ater (standard) | | |
| Water flow rate nominal pool ⁵ | l/h | 7200 | 8100 | 10400 |
| Pressure drop pool side ⁵ | kPa | 34,2 | 34,7 | 34,2 |
| Pressure drop intermediate circuit side ⁵ | kPa | 22,3 | 22,7 | 22,2 |
| Electrical data | | | | |
| Unit power supply | | | 400 V - 3 ph - 50 Hz | |
| Maximum total current input supply fan | А | 29,2 | 41 | 42 |
| Maximum total current input extract fan | А | 22 | 22,6 | 30 |
| Unit maximum current input | А | 86,2 | 99,6 | 123 |
| Unit starting current | А | 209 | 223 | 287 |
| | | | | |

External air 0°C,80% RH; internal air 29°C,60% RH.
Values as per conditions of D.M. 7 april 2008 for heating only operation.
Water temperature inlet/outlet 70/60°C; water pressure drop including 3 way valve.
Water temperature inlet/outlet non aggressive 27/37°C.
Water temperature inlet/outlet intermediate circuit 37/27°C; water temperature inlet/outlet pool 25/35°C
Preliminary technical data, subject to modification.

DIMENSIONAL DATA



| SPL | | | 160 | 200 | 250 |
|-----------------------------------|---|----|------|------|------|
| Height (including base H=120mm) * | Α | mm | 2085 | 2405 | 2405 |
| Width * | В | mm | 2015 | 2175 | 2335 |
| Length * | C | mm | 5790 | 5790 | 6430 |
| Weight | | kg | 2780 | 3250 | 3580 |

 $[\]hbox{* The dimensions remain unchanged even if the unit, on request, is supplied without a refrigerant circuit.}$















RTX-N1-N8

Roof-Top for applications in medium crowed

Cooling capacity 12,70 ÷ 49,95 kW Heating capacity 13,50 ÷ 50,79 kW



- For medium crowding applications
- Upgraded thermodynamic heat recovery
- Handling section with plug fan coupled with BRUSHLESS EC motors
- Free-cooling / enthalpic free-cooling / photocatalytic system option



DESCRIPTION

Independent Roof-Top air-cooled air conditioner to treat, filter and renew air based on the selected configuration. Being fitted to function with 30% external and expelled air (MB4 versions), RTX units are designed for medium density applications like shopping malls, shops, offices and production areas.

Based on the version and accessories selected, the units allow you to manage free-cooling mode and, in the MB4 versions, there is thermodynamic recovery of the energy contained in the expelled air, allowing for higher performance and efficiency.

CONFIGURATIONS

$\label{eq:mb1:single} \textbf{MB1: Single ventilating cross-section for recovery air.}$

Recovery air only configuration where no fresh air is required. The useful flow and recovery static pressure is provided by the flow ventilating cross-section.

MB2: Single ventilating cross-section for recovery and external

Recovery and external air configuration. The useful flow and recovery static pressure is provided by the flow ventilating cross-section.

The presence of the recirculation damper (optional) allows for total free-cooling (100% external air).

If there are no extraction systems, the room will be in overpressure.

MB4: double ventilating cross-section (flow and expulsion) for recovery air, external air and exhaust air, thermodynamic recovery.

Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the flow and recovery useful static pressure. The exhaust ventilating cross-section only controls the air flow rate to be expelled, with consequent reduction of the installed ventilation power. The double flow and exhaust ventilating cross-section allows for partial free-cooling and has the thermodynamic recovery function.

Advantages of thermodynamic recovery (MB4):

 Energy recovery from the exhaust air flow that would otherwise be lost

- No further components are introduced and, therefore, there are no additional pressure drops
- Cooling circuit functioning with heat sources at more advantageous temperatures
- Reduction of defrosting cycles
- Increase in thermal and cooling efficiency
- Efficiency increase (EER/COP)

FFATURES

- 2 cooling circuits with electronic thermostatic expansion valve;
- High efficiency scroll compressors with low power consumption;
- Finned pack direct expansion internal and external exchangers;
- Plug fan type (EC) flow and exhaust fans (if any). The impellers are facing so as to ensure that the air flows through all the internal components with minimum noise;
- Axial fan unit for extremely silent functioning positioned on the condensing section.
- Filter with 55% COARSE efficiency (according to EN ISO 16890) on the fresh air flow; Also available: compact filter with ePM1 50% efficiency (according to EN ISO 16890). Positioning upstream of the components to be protected to ensure low pressure drops, having a large surface. Air quality control systems are also available (VOC and $\mathrm{CO}_{2\,\mathrm{probe}}$);
- The structure consists of a galvanised sheet metal base, frame in galvanised sheet metal shaped profiles powder coated in RAL9003 (self-bearing structure), pre-painted sheet metal panels (external) insulated with 28kg/mc dense adhesive insulation and sandwich type panels insulated with 25 mm thick 45kg/mc polyurethane, eco-friendly "GWP 0" (Global Warming Potential);
- The casing, designed to allow the internal components to be accessed for routine and extraordinary maintenance.

CONTROL

Microprocessor control able to manage the different functioning modes, ensuring maximum energy savings in any conditions of use. Interfaces to connect to remote supervision and control systems available as options.

FUNCTIONALITY AND TECHNOLOGICAL ADVANTAGES

RTX units are designed with the aim of reducing the energy consumption that subsequently dictated the technological choices made on the unit we will now introduce in brief.

Very high ventilation efficiency

As ventilation is one of the major power consumption factors, we dedicated particular attention to designing and constructing the ventilation system.

State-of-the-art plug fans with EC brushless motors have been used both in flow and in recovery (if any), which enable high performance and reduced consumption. Furthermore, compared to conventional centrifugal fans, they have no belts or pulleys, thus facilitating flow rate adjustment and resulting in compactness, versatility and easy maintenance.

Special adaptive logic allows you to adjust the air flow rate to actual system demand with further resulting advantages in terms of consumption reduction.

Axial fans for the external section of the unit are helical. Electronic condensation control is available as an accessory, which regulates fan speed based on the load required, allowing for noise reduction. As an option, the motors can have electronic control (EC) to reduce consumption even in the condensing part.

Room air quality

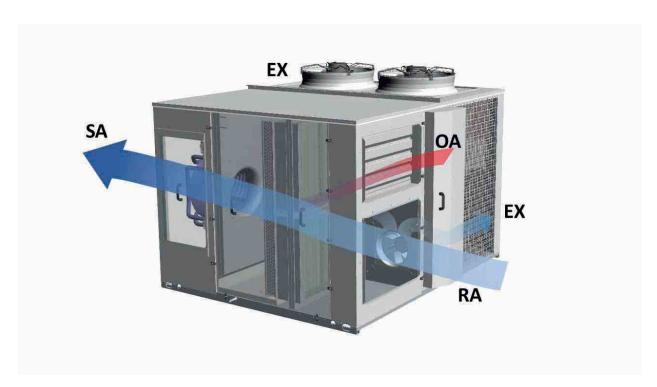
Special attention was paid to the quality of the room air, entrusted to the standard 55% COARSE efficiency filters. F7 filters are also available as optional.

Active thermodynamic recovery

In the MB4 configurations, the units have a thermodynamic recovery function to recover the energy contained in the exhaust air, causing the expelled air flow to hit the external finned pack exchanger, allowing for higher performance and efficiency.

All of these technological advantages are controlled by a thermoregulation that is able to manage the different functioning modes, ensuring maximum energy savings in all conditions of use via dedicated software.

MB4 CONFIGURATION WITH DOUBLE VENTILATING SECTION FOR RETURN AIR, EXTERNAL AIR AND EXPELLED AIR. STANDARD FREE-COOLING AND THERMODYNAMIC HEAT RECOVERY FUNCTION



SA Supply air EX Exhaust air OA Fresh air RA Return air

ACCESSORIES

AXEC: Axial fans with EC motors with speed control function according to the pressure of condensation and evaporation.

AXECP: EC axial fans with available useful static pressure.

BAC: Interface card BACnet MS/TP pCOnet.

BE: Electric heating coil 2 stages.

BIP: Interface card Ethernet-pCOweb (BACNET IP)

BPGC: After heating coil with hot gas. **BW:** 2-rows-heating coil with hot water.

BWV2V: 2 -rows -heating coil with hot water, with 2-way modulating

BWV3V: 2-rows heating coil with hot water, with 3-way modulating valve.

CA: Waterproof covers on external air intake.

DP: Dehumidification control (humidity probe in recovery) and of after-he- ating (if present).

FCT: Partial Temperature Free-Cooling for MB2, MB4 versions.

FT7: F7 efficiency pocket filters positioned on the supply air flow.

GP: External coil protection grid.

LW: Interface card LonWorks.

PRT1: Wall/recessed (up to 50 m) remote control panel.

PRT2: Wall/recessed (up to 200 m) remote control panel.

PSF4: Differential pressure switch signalling dirty recovery and renewal filters (if any).

PSTEP: Adjusting constant flow, step flow in function of the modulation of the cooling circuit.

RFC: Smoke detector and damper management.

RS: Serial card BMS RS485.

SCM: Modulating servo-controls (standard on MB3 model or if temper-

ature or enthalpic free-cooling is present).

SCMRM: Modulating Servo-control with spring return. SCO2: Probe CO2 (not available on MB1 fittings).

STA: Room temperature probe SUA: Room humidity probe.

SVOC: Probe VOC (not available on MB1 fittings).

VT: Antivibration mounts.

PERFORMANCE SPECIFICATIONS

| Size | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|----------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|
| Configuration: MB1 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 12,70 | 15,50 | 19,10 | 22,20 | 28,60 | 33,00 | 43,00 | 47,00 |
| Sensible cooling capacity | kW | 8,60 | 10,40 | 12,80 | 14,80 | 19,00 | 22,40 | 28,80 | 32,10 |
| Compressors absorbed power | kW | 3,30 | 4,20 | 5,00 | 6,00 | 7,20 | 8,70 | 11,40 | 12,50 |
| EER compressors | | 3,87 | 3,71 | 3,82 | 3,69 | 3,98 | 3,79 | 3,75 | 3,75 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 13,50 | 16,10 | 19,90 | 23,00 | 29,60 | 34,00 | 44,70 | 48,50 |
| Compressors absorbed power | kW | 3,07 | 3,65 | 4,28 | 5,15 | 6,23 | 6,86 | 9,43 | 10,02 |
| Compressor COP | | 4,40 | 4,41 | 4,64 | 4,47 | 4,75 | 4,96 | 4,74 | 4,84 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

| Size | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|----------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|
| Configuration: MB2 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 13,42 | 16,34 | 20,16 | 23,35 | 30,21 | 34,79 | 45,26 | 49,44 |
| Sensible cooling capacity | kW | 8,92 | 10,86 | 13,40 | 15,40 | 19,70 | 23,40 | 30,00 | 33,50 |
| Compressors absorbed power | kW | 3,33 | 4,22 | 5,04 | 6,07 | 7,29 | 8,85 | 11,65 | 12,74 |
| EER compressors | | 4,03 | 3,87 | 4,00 | 3,85 | 4,14 | 3,93 | 3,88 | 3,88 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 13,65 | 16,24 | 20,02 | 23,18 | 29,87 | 34,22 | 45,17 | 48,94 |
| Compressors absorbed power | kW | 2,77 | 3,31 | 3,86 | 4,65 | 5,62 | 6,15 | 8,58 | 9,22 |
| Compressor COP | | 4,92 | 4,91 | 5,18 | 4,99 | 5,32 | 5,57 | 5,26 | 5,31 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

| Size | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|----------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|
| Configuration: MB4 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 13,49 | 16,49 | 20,33 | 23,58 | 30,45 | 35,16 | 45,65 | 49,95 |
| Sensible cooling capacity | kW | 8,93 | 10,91 | 13,40 | 15,50 | 19,80 | 23,50 | 30,20 | 33,60 |
| Compressors absorbed power | kW | 3,27 | 4,12 | 4,92 | 5,90 | 7,13 | 8,59 | 11,39 | 12,43 |
| EER compressors | | 4,13 | 4,00 | 4,13 | 4,00 | 4,27 | 4,10 | 4,01 | 4,02 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 14,00 | 16,81 | 20,69 | 24,05 | 30,77 | 35,50 | 46,63 | 50,79 |
| Compressors absorbed power | kW | 2,81 | 3,36 | 3,92 | 4,73 | 5,71 | 6,27 | 8,74 | 9,38 |
| Compressor COP | | 4,98 | 5,00 | 5,28 | 5,08 | 5,39 | 5,67 | 5,33 | 5,41 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

ENERGY INDEX

| Size | | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|--------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Energy index | | | | | | | | | | |
| SEER | Н | W/W | 3,73 | 3,60 | 3,76 | 3,70 | 3,86 | 3,86 | 3,80 | 3,77 |
| ηςς | Н | % | 146.1% | 141.2% | 147.5% | 144.8% | 151.5% | 151.5% | 148.8% | 147.8% |
| Pdesignh | Н | kW | 7 | 9 | 11 | 13 | 16 | 19 | 25 | 26 |
| SCOP | Н | W/W | 3,47 | 3,34 | 3,46 | 3,36 | 3,29 | 3,50 | 3,47 | 3,44 |
| ηsh | Н | % | 135.6% | 130.5% | 135.4% | 131.2% | 128.7% | 137.1% | 135.7% | 134.4% |

GENERAL TECHNICAL DATA

| Size | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|--------------------|-------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| Power supply | | | | | | | | | |
| Power supply | | 400V~3N 50Hz | 400V~3N 50Hz | 400V~3N 50Hz | 400V~3N 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz | 400V~3 50Hz |
| Compressor | | | | | | | | | |
| Туре | type | | | | Sci | roll | | | |
| Number | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | type | | | | R4 | 10A | | | |
| Sound data | | | | | | | | | |
| Sound power level | dB(A) | 73,3 | 73,7 | 76,4 | 76,3 | 81,2 | 79,7 | 82,8 | 82,9 |
| Sound pressure (1) | dB(A) | 65,3 | 65,8 | 68,5 | 68,3 | 73,2 | 71,7 | 74,8 | 74,9 |

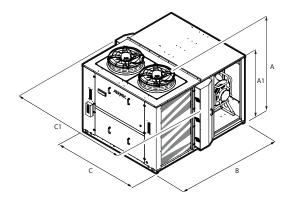
⁽¹⁾ MB1 configuration sound pressure measured in free field (Q=2), 1m away from the outer surface of the ducted unit, high static pressure 50 Pa (EN ISO 9614-2)... 3 dB(A) tolerance on sound power level (Eurovent 8/1).

FANS

| Size | | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|------------------------------------|-----|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Configuration: MB1, MB2, | MB4 | | | | | | | | | |
| External fans | | | | | | | | | | |
| Туре | Н | type | axials |
| Number | Н | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Size | | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
| Configuration: MB1, MB2, | MB4 | | | | | | | | | |
| Internal fans | | | | | | | | | | |
| Nominal air flow rate | Н | m³/h | 2000 | 2800 | 3500 | 4000 | 5000 | 6500 | 8000 | 9500 |
| Minimum air flow rate | Н | m³/h | 1800 | 1800 | 2700 | 2700 | 4000 | 4000 | 6500 | 6500 |
| Maximum air flow rate | Н | m³/h | 2900 | 2900 | 4100 | 4100 | 6900 | 6900 | 10100 | 10100 |
| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Configuration: MBT | | | | | | | | | | |
| Exhaust | | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Size | | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
| Configuration: MB1, MB2 | | | | | | | | | | |
| Delivery | | | | | | | | | | |
| Туре | Н | type | Brushless EC |
| Number | Н | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Maximum useful head (1) | Н | Pa | 755 | 575 | 460 | 555 | 435 | 460 | 575 | 765 |
| High static pressure (EN14511) (1) | Н | Pa | 100 | 100 | 124 | 124 | 124 | 150 | 150 | 200 |
| Configuration: MB4 | | | | | | | | | | |
| Delivery | | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Maximum useful head (1) | Н | Pa | 755 | 575 | 460 | 555 | 435 | 460 | 575 | 765 |
| High static pressure (EN14511) (1) | Н | Pa | 100 | 100 | 124 | 124 | 124 | 150 | 150 | 200 |

⁽¹⁾ At the nominal/maximum flow rate with a new, clean air filter.

DIMENSIONS



| Size | | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 |
|------------------------|---|----|------|------|------|------|------|------|------|------|
| Configuration: MB1 | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| A | Н | mm | 1170 | 1170 | 1470 | 1470 | 1610 | 1610 | 1710 | 1710 |
| A1 | Н | mm | 910 | 910 | 1210 | 1210 | 1410 | 1410 | 1510 | 1510 |
| В | Н | mm | 1460 | 1460 | 1460 | 1460 | 1860 | 1860 | 2310 | 2310 |
| С | Н | mm | 1560 | 1560 | 1560 | 1560 | 1910 | 1910 | 1910 | 1910 |
| C1 | Н | mm | - | - | - | - | - | - | - | - |
| Empty weight | H | kg | 335 | 335 | 405 | 405 | 594 | 594 | 745 | 745 |
| Configuration: MB2 | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| A | Н | mm | 1170 | 1170 | 1470 | 1470 | 1610 | 1610 | 1710 | 1710 |
| A1 | Н | mm | 910 | 910 | 1210 | 1210 | 1410 | 1410 | 1510 | 1510 |
| В | Н | mm | 1460 | 1460 | 1460 | 1460 | 1860 | 1860 | 2310 | 2310 |
| C | Н | mm | 1560 | 1560 | 1560 | 1560 | 1910 | 1910 | 1910 | 1910 |
| <u>C1</u> | Н | mm | - | - | - | - | - | - | - | - |
| Empty weight | H | kg | 335 | 335 | 405 | 405 | 594 | 594 | 745 | 745 |
| Configuration: MB4 | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | |
| A | Н | mm | 1170 | 1170 | 1470 | 1470 | 1610 | 1610 | 1710 | 1710 |
| <u>A1</u> | Н | mm | 910 | 910 | 1210 | 1210 | 1410 | 1410 | 1510 | 1510 |
| В | Н | mm | 1460 | 1460 | 1460 | 1460 | 1860 | 1860 | 2310 | 2310 |
| (| Н | mm | - | - | - | - | - | - | - | - |
| C1 | Н | mm | 1850 | 1850 | 1850 | 1850 | 2200 | 2200 | 2200 | 2200 |
| Empty weight | Н | kg | 345 | 345 | 429 | 429 | 619 | 619 | 775 | 775 |

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RTX 09-16

Roof-Top for applications in medium crowed

Cooling capacity 50 ÷ 135 kW Heating capacity 49 ÷ 141 kW



- For medium crowding applications
- Upgraded thermodynamic heat recovery
- Handling section with plug fan coupled with BRUSHLESS EC motors
- Free-cooling / enthalpic free-cooling / photocatalytic system option



DESCRIPTION

Independent Roof -top type air cooled air conditioner, for treatment, filtration and renewal of the air , based on the chosen configuration. RTX 09-16units are designed fot medium crowding applications, like shopping malls, shops, offices , production areas being designed for operation with 30% external and expelled air (version MB3). The unit based on the version and selected accessories allows the management of the free-cooling operation, and can be equipped with a recuperator to recover the energy contained in the exaust air allowing higher perfomances and efficiencies.

VERSIONS

F Cooling only

H Heat pump.

FEATURES

Refrigerant circuit

functioning with R410A refrigerant, consisting of scroll compressors in "uneven" tandem configuration (except for sizes 09, 10 and 14) to ensure maximum energy savings at partial loads and better adaptability to system demands, providing only the energy actually needed. The compressors are equipped with electric resistances on the guards and thermal protection on the exhaust. The compressor compartment is isolated from the air flow.

Ventilation

The air treatment cross-section ventilation, which represents the highest expense in terms of machine operating costs, is entrusted to the plug fans with EC brushless motors which enable high performance, easy flow rate adjustment, compactness, low noise, versatility and easy maintenance. Furthermore, a special adaptive logic allows you to adjust the air flow rate to actual system demand with further advantages in terms of consumption reduction.

Axial fans

The axial fans, located in the condensing section of the unit, are the helical type, statically and dynamically balanced, protected electrically and mechanically by grids. Electronic condensation control is optional in F

versions and condensation and evaporation during winter functioning in H versions. The fans are also available with electronically controlled (EC) permanent magnet synchronous motor.

Exchangers

The internal and external heat exchangers are finned pack direct expansion, made with copper pipes arranged in staggered rows and mechanically expanded to better adhere to the collar of the louvers. The louvers are made of aluminium with a special corrugated surfaces, suitably spaced to ensure maximum heat exchange yield.

Air filtration

Entrusted to a filter with 55% Coarse efficiency (according to EN ISO 16890) on the fresh air flow.

Also available: compact filter with ePM1 50% efficiency or ePM1 80% efficiency (according to EN ISO 16890) and electronic filter on fresh air flow. Positioning upstream of the components to be protected to ensure low pressure drops, having a large surface. Air quality control systems are also available (VOC and CO2 probe).

Cleaning system with photocatalytic lamp

The Photocatalytic Oxidation technology generates natural oxidising ions capable of attracting and destroying the pollutants present in the air and on surfaces, by means of the combined action of UV rays with a catalyst structure composed of a four-metal alloy, mainly consisting of TiO₂ (titanium dioxide).

Thermoregulation

Electronic controller able to manage the different functioning modes, ensuring maximum energy savings in all conditions of use by means of special software. Interfaces to connect to remote supervision and control systems available as options. The electrical panel complete with all devices is easily accessible.

The free-cooling/heating and defrosting logics are particularly sophisticated. As soon as the external conditions allow it, the unit is able to automatically activate the free-cooling or free-heating mode, which cools or heats the served room, while keeping the compressors off and introducing suitably treated external air. This mode significantly reduces both energy consumption and wear of the compressors. These func-

tions are also used when the external air energy content is not enough

CONFIGURATIONS

MB1: Single ventilating cross-section for recovery air.

Recovery air only configuration where no fresh air is required. The useful flow and recovery static pressure is provided by the flow ventilating cross-section.

MB2: Single ventilating cross-section for recovery and external

Recovery and external air configuration. The useful flow and recovery static pressure is provided by the flow ventilating cross-section.

The presence of the recirculation damper (optional) allows for total free-cooling (100% external air).

If there are no extraction systems, the room will be in overpressure.

MB3: double ventilating cross-section (flow and return) for recovery air, external air and exhaust air, thermodynamic recovery.

Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the useful flow static pressure while the recovery ventilating cross-section provides the useful recovery static pressure. The double flow and recovery ventilating cross-section allows for total freecooling (100% external air) without the need for a dedicated extraction system. The room overpressure or depression can be obtained by unbalancing the flow rates.

to cool or heat the room. In this case, the thermal cooling capacity is integrated by the compressors.

Thermodynamic recovery is performed by conveying expelled air on the external heat exchanger.

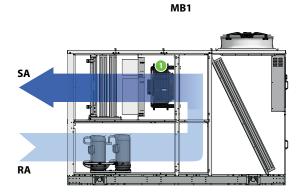
MB4: double ventilating cross-section (flow and expulsion) for recovery air, external air and exhaust air, thermodynamic recovery.

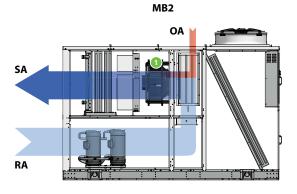
Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the flow and recovery useful static pressure. The exhaust ventilating cross-section only controls the air flow rate to be expelled, with consequent reduction of the installed ventilation power. The double flow and exhaust ventilating cross-section allows for partial free-cooling.

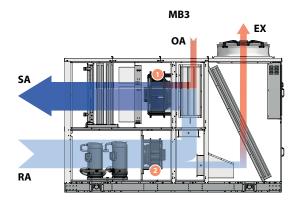
As for the MB3 version, it has the thermodynamic recovery function.

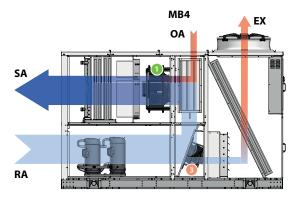
Advantages of thermodynamic recovery (MB3 - MB4 version):

- Energy recovery from the exhaust air flow that would otherwise be lost
- No further components are introduced and, therefore, there are no additional pressure drops
- Cooling circuit functioning with heat sources at more advantageous temperatures
- Reduction of defrosting cycles
- Increase in thermal and cooling efficiency
- Efficiency increase (EER/COP)









SA supply air RA fresh air

OA fresh air

EX Exhaust air

- Delivery fan
- Return fan 2
- **Expulsion fan**

MBT: DOUBLE VENTILATING CROSS-SECTION (FLOW AND EXPULSION) FOR RECOVERY AIR, EXTERNAL AIR AND EXHAUST AIR, UPGRADED THERMODYNAMIC RECOVERY.

Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the flow and recovery useful static pressure. The exhaust ventilating cross-section only controls the air flow rate to be expelled, with consequent reduction of the installed ventilation power.

The double flow and exhaust ventilating cross-section allows for partial free-cooling.

The MBT configuration allows for the upgraded thermodynamic recovery on the exhaust air by fully exploiting the energy content still present in it. The exhaust flow rate, controlled by the dedicated exhaust fan, is conveyed to the innovative finned pack recovery coil, integrated in the cooling circuit of the unit.

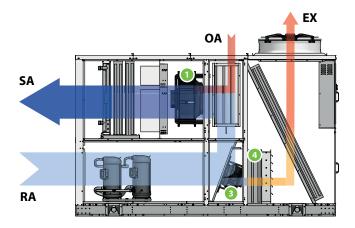
The coil, perfectly hit by the air flow, recovers the energy still present in the exhaust flow and transfer it to the cooling circuit, increasing the treatment coil performance without increasing the input power of the compressors.

In summer functioning, the coil makes it possible to increase the liquid subcooling, while in winter functioning, the coil takes on part of the evaporation by operating the cooling circuit at more advantageous temperatures.

Advantages of upgraded thermodynamic recovery (MBT version):

- High heat exchange efficiency thanks to the dedicated recovery coil
- Further increase in unit cooling and heating capacity
- Further increase in unit efficiency (EER/COP)

- Reduced additional air side pressure drops (expelled air side only)
- The unit remains compact
- In heating functioning, the defrost cycles are further reduced due to the increase in evaporation temperature. The result is an increase in efficiency and greater room comfort.
- Compared to traditional passive recuperators, in heating functioning it allows for exhaust air recovery even with low temperature difference between external and indoor air (mild winters)
- Compared to traditional passive recuperators, in cooling functioning it allows for exhaust air recovery even with low temperature difference between external and indoor air (continental and temperate climate)
- The presence of the dedicated coil determines the recovery efficiency that can be used in the energy certification calculations.



- **SA** supply air
- RA fresh air
- **OA** fresh air
- **EX** Exhaust air

- 1 Delivery fan
- 2 Return fan
- 3 Expulsion fan
- 4 Dedicated thermodynamic recovery coil

ACCESSORIES

AXEC: Axial fans with EC motors with speed control function according to the pressure of condensation and evaporation.

AXECP: EC axial fans with available useful static pressure.

BAC: Interface card BACnet MS/TP pCOnet.

BE: Electric heating coil 2 stages.

BEM: Modulating electric heating coil.

BIP: Interface card Ethernet-pCOweb (BACNET IP)

BPGC: After heating coil with hot gas.

BW: 2-rows-heating coil with hot water.

BWV2V: 2 -rows -heating coil with hot water, with 2-way modulating valve.

BWV3V: 2-rows heating coil with hot water, with 3-way modulating valve.

CA: Waterproof covers on external air intake.

CF: Flue, only on unit with gas burner module.

CUR: Humidification control (humidity probe in recovery, limit humidity probe in supply, contact ON/OFF and modulating analog output).

DCPR: AC fans with pressure switch device of speed control function of the pressure of condensation and evaporation.

DP: Dehumidification control (humidity probe in recovery) and of after-he- ating (if present).

FCT: Partial Temperature Free-Cooling for MB2, MB4 versions.

FT7: F7 efficiency pocket filters positioned on the supply air flow.

FT9: Pocket filters F9 efficiency placed on the flow of supply air.

FTE: Electronic filters placed on the flow of supply air.

FTH: Enthalpy free-cooling.

GP: External coil protection grid.

Gx: Heating module with gas burner.

LFX: Device with photocatalytic effect.

LW: Interface card LonWorks.

MAN: High and low pressure gauges.

MSSM: Flow silencer module, only for rear flow.

MSSR: Recovery silencer module, only for rear air recovery.

PRT1: Wall/recessed (up to 50 m) remote control panel. **PRT2:** Wall/recessed (up to 200 m) remote control panel.

PRIZ: Wall/recessed (up to 200 m) remote control panel.

PSFT: Differential pressure switch signalling dirty filters.

PSTEP: Adjusting constant flow, step flow in function of the modulation of the cooling circuit.

RF: Smoke detector.

RFC: Smoke detector and damper management.

RS: Serial card BMS RS485.

SCM: Modulating servo-controls (standard on MB3 model or if temperature or enthalpic free-cooling is present).

SCMRM: Modulating Servo-control with spring return.

SCO2: Probe CO2 (not available on MB1 fittings).

STA: Room temperature probe

SUA: Room humidity probe.

SVOC: Probe VOC (not available on MB1 fittings).

UP: Manufacturer of immersed electrodes supplied and steam ramp installed.

VT: Antivibration mounts.

PERFORMANCE SPECIFICATIONS

MB1

| Size | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|----|-------|-------|-------|-------|-------|--------|--------|--------|
| Configuration: MB1 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 50,00 | 60,10 | 68,60 | 81,00 | 93,40 | 103,50 | 114,00 | 125,30 |
| Sensible cooling capacity | kW | 40,10 | 46,10 | 52,70 | 63,20 | 70,90 | 81,80 | 89,30 | 97,10 |
| Compressors absorbed power | kW | 11,90 | 14,40 | 18,80 | 17,90 | 23,10 | 25,60 | 30,50 | 35,50 |
| EER compressors | | 4,20 | 4,17 | 3,65 | 4,53 | 4,04 | 4,04 | 3,74 | 3,53 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 49,40 | 61,10 | 69,30 | 80,60 | 93,70 | 102,20 | 113,70 | 126,60 |
| Compressors absorbed power | kW | 9,80 | 12,20 | 15,50 | 15,70 | 20,60 | 21,00 | 24,40 | 28,40 |
| Compressor COP | | 5,04 | 5,01 | 4,47 | 5,13 | 4,55 | 4,87 | 4,66 | 4,46 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air.

 (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

MB2

| Size | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|----|-------|-------|-------|-------|-------|--------|--------|--------|
| Configuration: MB2 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 52,90 | 63,30 | 72,30 | 85,30 | 98,40 | 108,80 | 120,10 | 131,60 |
| Sensible cooling capacity | kW | 42,70 | 48,80 | 55,90 | 67,10 | 75,00 | 86,70 | 94,80 | 102,80 |
| Compressors absorbed power | kW | 12,10 | 14,60 | 19,00 | 18,10 | 23,30 | 25,90 | 30,90 | 35,90 |
| EER compressors | | 4,37 | 4,34 | 3,81 | 4,71 | 4,22 | 4,20 | 3,89 | 3,67 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 50,50 | 61,90 | 70,60 | 82,20 | 94,90 | 103,60 | 115,30 | 128,10 |
| Compressors absorbed power | kW | 9,00 | 11,20 | 14,10 | 14,30 | 18,90 | 19,20 | 22,50 | 26,00 |
| Compressor COP | | 5,61 | 5,53 | 5,01 | 5,75 | 5,02 | 5,40 | 5,12 | 4,93 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

MB3

| Size | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|----|-------|-------|-------|-------|-------|--------|--------|--------|
| Configuration: MB3 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 53,40 | 63,70 | 73,10 | 86,10 | 99,30 | 110,00 | 121,30 | 133,30 |
| Sensible cooling capacity | kW | 43,00 | 48,90 | 56,20 | 67,40 | 75,30 | 87,00 | 95,10 | 103,20 |
| Compressors absorbed power | kW | 11,80 | 14,20 | 18,50 | 17,70 | 22,80 | 25,10 | 30,10 | 34,80 |
| EER compressors | | 4,53 | 4,49 | 3,95 | 4,86 | 4,36 | 4,38 | 4,03 | 3,83 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 52,10 | 64,10 | 74,10 | 85,00 | 98,60 | 107,80 | 120,60 | 134,30 |
| Compressors absorbed power | kW | 9,20 | 11,40 | 14,40 | 14,60 | 19,10 | 19,40 | 22,90 | 26,70 |
| Compressor COP | | 5,66 | 5,62 | 5,15 | 5,82 | 5,16 | 5,56 | 5,27 | 5,03 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air.

 (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

MB4

| 6 1 | | | - 10 | - 11 | 12 | - 13 | - 14 | 45 | 1/ |
|----------------------------|----|-------|-------|-------|-------|-------|--------|--------|--------|
| Size | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Configuration: MB4 | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 53,40 | 63,70 | 73,10 | 86,10 | 99,30 | 110,00 | 121,30 | 133,30 |
| Sensible cooling capacity | kW | 43,00 | 48,90 | 56,20 | 67,40 | 75,30 | 87,00 | 95,10 | 103,20 |
| Compressors absorbed power | kW | 11,80 | 14,20 | 18,50 | 17,70 | 22,80 | 25,10 | 30,10 | 34,80 |
| EER compressors | | 4,53 | 4,49 | 3,95 | 4,86 | 4,36 | 4,38 | 4,03 | 3,83 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 52,10 | 64,10 | 74,10 | 85,00 | 98,60 | 107,80 | 120,60 | 134,30 |
| Compressors absorbed power | kW | 9,20 | 11,40 | 14,40 | 14,60 | 19,10 | 19,40 | 22,90 | 26,70 |
| Compressor COP | | 5,66 | 5,62 | 5,15 | 5,82 | 5,16 | 5,56 | 5,27 | 5,03 |

- (1) Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

| Size | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|----|-------|-------|-------|-------|--------|--------|--------|--------|
| Configuration: MBT | | | | | | | | | |
| Cooling performances (1) | | | | | | | | | |
| Cooling capacity | kW | 57,10 | 67,80 | 78,00 | 90,50 | 103,70 | 116,90 | 128,80 | 140,60 |
| Sensible cooling capacity | kW | 46,60 | 53,00 | 61,20 | 71,90 | 79,70 | 94,00 | 102,60 | 110,60 |
| Compressors absorbed power | kW | 11,80 | 14,20 | 18,50 | 17,70 | 22,80 | 25,10 | 30,10 | 34,80 |
| EER compressors | | 4,84 | 4,77 | 4,22 | 5,11 | 4,55 | 4,66 | 4,28 | 4,04 |
| Heating performances (2) | | | | | | | | | |
| Heating capacity | kW | 55,40 | 68,00 | 78,30 | 90,10 | 103,60 | 114,40 | 127,50 | 141,40 |
| Compressors absorbed power | kW | 9,20 | 11,40 | 14,40 | 14,60 | 19,10 | 19,40 | 22,90 | 26,70 |
| Compressor COP | | 6,02 | 5,96 | 5,44 | 6,17 | 5,42 | 5,90 | 5,57 | 5,30 |
| Recovery efficiency | % | 84% | 92% | 87% | 90% | 85% | 85% | 82% | 78% |

ENERGY INDEX

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Energy index | | | | | | | | | | |
| SEER | Н | W/W | 4,24 | 3,94 | 3,76 | 3,92 | 3,89 | 4,22 | 4,10 | 4,05 |
| ηςς | Н | % | 166.6% | 154.5% | 147.2% | 153.9% | 152.7% | 165.7% | 161.1% | 159.1% |
| Pdesignh | Н | kW | 29 | 34 | 38 | 46 | 52 | 57 | 62 | 71 |
| SCOP | Н | W/W | 3,59 | 3,50 | 3,30 | 3,27 | 3,22 | 3,47 | 3,41 | 3,38 |
| ηsh | Н | % | 140.5% | 137.0% | 128.8% | 127.7% | 126.0% | 135.9% | 133.5% | 132.3% |

GENERAL TECHNICAL DATA

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------------------|---|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Power supply | | | | | | | | | | |
| Power supply | Н | | 400V~3 50Hz |
| Compressor | | | | | | | | | | |
| Туре | Н | type | Scroll |
| Number | Н | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | Н | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | Н | type | R410A |
| Partialisation step | Н | no. | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 |

FANS

External fans

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|-----------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| Configuration: MB1, MB2, M | ЛВ3, МВ4, | MBT | | | | | | | | |
| External fans | | | | | | | | | | |
| Туре | Н | type | Assiali AC |
| Number | Н | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Internal fans MB1-MB2-MB3-MB4-MBT

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------|---------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Configuration: MB1, MI | B2, MB3, MB4, | MBT | | | | | | | | |
| Internal fans | | | | | | | | | | |
| Nominal air flow rate | Н | m³/h | 9500 | 11000 | 13000 | 15000 | 17000 | 20000 | 22000 | 24000 |
| Minimum air flow rate | Н | m³/h | 6650 | 7700 | 9100 | 10850 | 12600 | 14000 | 15400 | 16800 |
| Maximum air flow rate | Н | m³/h | 9500 | 11000 | 13000 | 15500 | 18000 | 20000 | 22000 | 24000 |

Internal recovery fans

| Size | | | 09 | IV | - 11 | 12 | 13 | 14 | 13 | 10 |
|--------------------|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| Configuration: MB3 | | | | | | | | | | |
| Recovery | | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |

Expulsion fan MB4-MBT

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| Configuration: MBT | | | | | | | | | | |
| Exhaust | | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |

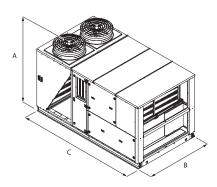
⁽¹⁾ Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

Internal flow fans

| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------------------|-----------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| Configuration: MB1, MB2, | MB3, MB4, | MBT | | | | | | | | |
| Delivery | | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Maximum useful head (1) | Н | Pa | 770 | 510 | 445 | 555 | 740 | 640 | 525 | 675 |
| High static pressure (EN14511) (1) | Н | Pa | 200 | 200 | 200 | 200 | 250 | 250 | 250 | 300 |

⁽¹⁾ At the nominal/maximum flow rate with a new, clean air filter.

DIMENSIONS



| Size | | | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------|---|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | Н | mm | 2061 | 2061 | 2061 | 2373 | 2373 | 2440 | 2440 | 2440 |
| В | Н | mm | 1900 | 1900 | 1900 | 2100 | 2100 | 2200 | 2200 | 2200 |
| C | Н | mm | 3400 | 3400 | 3400 | 3400 | 3400 | 4000 | 4000 | 4000 |



















Roof-Top for applications in medium crowed

Cooling capacity 151 ÷ 307 kW Heating capacity 152 ÷ 310 kW



- For medium crowding applications
- Thermodynamic heat recovery
- Handling section with plug fan coupled with BRUSHLESS EC motors
- Free cooling / Enthalpy free cooling



DESCRIPTION

Independent Roof -top type air cooled air conditioner, for treatment, filtration and renewal of the air , based on the chosen configuration.

The RTX 09-16 units are designed for installation in places with an average degree of crowding such as shopping centres, shops, offices and production sites, as operation uses 30% outside expelled air (versions MB3 and MB4).

CONFIGURATIONS

MB1: Single ventilating cross-section for recovery air.

Recovery air only configuration where no fresh air is required. The useful flow and recovery static pressure is provided by the flow ventilating cross-section.

MB2: Single ventilating cross-section for recovery and external

Recovery and external air configuration. The useful flow and recovery static pressure is provided by the flow ventilating cross-section. The presence of the recirculation damper (optional) allows for total free-cooling (100% external air).

If there are no extraction systems, the room will be in overpressure.

MB3: double ventilating cross-section (flow and return) for recovery air, external air and exhaust air, thermodynamic recovery.

Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the useful flow static pressure while the recovery ventilating cross-section provides the useful recovery static pressure. The double flow and recovery ventilating cross-section allows for total freecooling (100% external air) without the need for a dedicated extraction system. The room overpressure or depression can be obtained by unbalancing the flow rates.

Thermodynamic recovery is performed by conveying expelled air on the external heat exchanger.

MB4: double ventilating cross-section (flow and expulsion) for recovery air, external air and exhaust air, thermodynamic recovery.

Depending on the version and the accessories chosen, the unit can manage free cooling mode. Versions MB3 and MB4 feature the thermodynamic recovery of the energy contained in the exhaust air, leading to higher performance and efficiency levels.

VERSIONS

- F Cooling only
- **H** Heat pump.

Recovery, external and exhaust air configuration. The flow ventilating cross-section provides the flow and recovery useful static pressure. The exhaust ventilating cross-section only controls the air flow rate to be expelled, with consequent reduction of the installed ventilation power. The double flow and exhaust ventilating cross-section allows for partial free-cooling.

As for the MB3 version, it has the thermodynamic recovery function.

Advantages of thermodynamic recovery (MB3 - MB4 version):

- Energy recovery from the exhaust air flow that would otherwise be
- No further components are introduced and, therefore, there are no additional pressure drops
- Cooling circuit functioning with heat sources at more advantageous temperatures
- Reduction of defrosting cycles
- Increase in thermal and cooling efficiency
- Efficiency increase (EER/COP)

FEATURES

- 2 cooling circuits with electronic thermostatic expansion valve;
- Scroll compressors (UNEVEN tandem) with high capacity and low electrical power consumption;
- Finned pack direct expansion internal and external exchangers;
- Plug fan type (EC) flow and exhaust fans (if any). The impellers are facing so as to ensure that the air flows through all the internal components with minimum noise;

- Axial fan unit for extremely silent functioning positioned on the condensing section.
- Filter with 55% COARSE efficiency (according to EN ISO 16890) on the fresh air flow; Also available: compact filter with ePM1 50% efficiency (according to EN ISO 16890). Positioning upstream of the components to be protected to ensure low pressure drops, having a large surface. Air quality control systems are also available (VOC and CO_{2 probe});
- The structure consists of a galvanised sheet metal base, frame in galvanised sheet metal shaped profiles powder coated in RAL9003 (self-bearing structure), pre-painted sheet metal panels (external) insulated with 28kg/mc dense adhesive insulation and sandwich type panels insulated with 25 mm thick 45kg/mc polyurethane, eco-friendly "GWP 0" (Global Warming Potential);
- The casing, designed to allow the internal components to be accessed for routine and extraordinary maintenance.

CONTROL

Microprocessor control able to manage the different functioning modes, ensuring maximum energy savings in any conditions of use. Interfaces to connect to remote supervision and control systems available as options.

FUNCTIONALITY AND TECHNOLOGICAL ADVANTAGES

RTX units are designed with the aim of reducing the energy consumption that subsequently dictated the technological choices made on the unit we will now introduce in brief.

Very high ventilation efficiency

As ventilation is one of the major power consumption factors, we dedicated particular attention to designing and constructing the ventilation system.

State-of-the-art plug fans with EC brushless motors have been used both in flow and in recovery (if any), which enable high performance and reduced consumption. Furthermore, compared to conventional centrifugal fans, they have no belts or pulleys, thus facilitating flow rate adjustment and resulting in compactness, versatility and easy maintenance.

Special adaptive logic allows you to adjust the air flow rate to actual system demand with further resulting advantages in terms of consumption reduction.

Axial fans for the external section of the unit are helical. Electronic condensation control is available as an accessory, which regulates fan speed based on the load required, allowing for noise reduction. As an option, the motors can have electronic control (EC) to reduce consumption even in the condensing part.

Maximum seasonal efficiency

To improve the efficiency of the cooling circuit, tandem scroll compressors of different power levels are used (UNEVEN compressors on all sizes). This distinctive trait, combined with the use of next generation fans, means reduced consumption and enhanced adaptability to system requests (particularly in partial load operation), guaranteeing boosted seasonal efficiency levels.

Room air quality

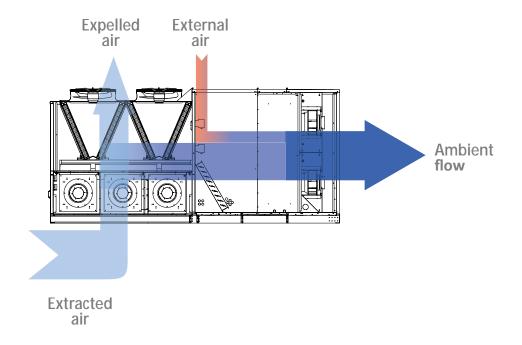
Special attention has been paid to the quality of the air in the room, entrusted to filters that ensure 55% COARSE efficiency as standard. There is also the option of F7, F9 or electronic filters on the fresh air flow.

Active thermodynamic recovery

In the MB3-MB4 configuration, the unit with thermodynamic recovery function also takes advantage of the energy contained in the exhaust air, which would otherwise be lost; this ensures better performance and efficiency.

All of these technological advantages are controlled by a thermoregulation that is able to manage the different functioning modes, ensuring maximum energy savings in all conditions of use via dedicated software.

MB3 CONFIGURATION WITH TWIN FAN SECTION FOR RECIRCULATION AIR, OUTSIDE AIR AND EXHAUST AIR. TOTAL FREE COOLING FUNCTION (WITH 100% OUTSIDE AIR) AND THERMODYNAMIC RECOVERY FUNCTION AS STANDARD.



ACCESSORIES

AXEC: Axial fans with EC motors with speed control function according to the pressure of condensation and evaporation.

AXECP: EC axial fans with available useful static pressure.

BAC: Interface card BACnet MS/TP pCOnet.

BE: Electric heating coil 2 stages. **BEM:** Modulating electric heating coil.

BIP: Interface card Ethernet-pCOweb (BACNET IP)

BPGC: After heating coil with hot gas.

BW: 2-rows-heating coil with hot water.

BWV2V: 2 -rows -heating coil with hot water, with 2-way modulating valve.

BWV3V: 2-rows heating coil with hot water, with 3-way modulating

CA: Waterproof covers on external air intake.

CF: Flue, only on unit with gas burner module.

CUR: Humidification control (humidity probe in recovery, limit humidity probe in supply, contact ON/OFF and modulating analog output).

DCPR: AC fans with pressure switch device of speed control function of the pressure of condensation and evaporation.

DP: Dehumidification control (humidity probe in recovery) and of after-he- ating (if present).

FCT: Partial Temperature Free-Cooling for MB2, MB4 versions.

FT7: F7 efficiency pocket filters positioned on the supply air flow.

FT9: Pocket filters F9 efficiency placed on the flow of supply air.

FTE: Electronic filters placed on the flow of supply air.

FTH: Enthalpy free-cooling.

GP: External coil protection grid.

Gx: Heating module with gas burner.

LFX: Device with photocatalytic effect.

LW: Interface card LonWorks.

MAN: High and low pressure gauges.

MSSM: Flow silencer module, only for rear flow.

MSSR: Recovery silencer module, only for rear air recovery.

PRT1: Wall/recessed (up to 50 m) remote control panel.

PRT2: Wall/recessed (up to 200 m) remote control panel.

PSFT: Differential pressure switch signalling dirty filters.

PSTEP: Adjusting constant flow, step flow in function of the modulation of the cooling circuit.

RF: Smoke detector.

RFC: Smoke detector and damper management.

RS: Serial card BMS RS485.

SCM: Modulating servo-controls (standard on MB3 model or if temper-

ature or enthalpic free-cooling is present).

SCMRM: Modulating Servo-control with spring return.

SCO2: Probe CO2 (not available on MB1 fittings).

STA: Room temperature probe SUA: Room humidity probe.

SVOC: Probe VOC (not available on MB1 fittings).

UP: Manufacturer of immersed electrodes supplied and steam ramp

installed.

VT: Antivibration mounts.

PERFORMANCE SPECIFICATIONS

MR1

| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|----|----------|---|---|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| kW | 151,90 | 170,10 | 191,70 | 213,30 | 231,70 | 246,10 | 289,10 |
| kW | 114,30 | 125,40 | 136,10 | 151,60 | 164,70 | 178,50 | 202,30 |
| kW | 32,70 | 39,20 | 45,30 | 54,00 | 60,70 | 69,00 | 68,90 |
| | 4,65 | 4,34 | 4,23 | 3,95 | 3,82 | 3,57 | 4,20 |
| | | | | | | | |
| kW | 152,70 | 170,80 | 192,80 | 216,20 | 230,80 | 245,50 | 296,30 |
| kW | 28,20 | 33,90 | 39,20 | 43,90 | 46,30 | 51,20 | 58,60 |
| | 5,41 | 5,04 | 4,92 | 4,92 | 4,98 | 4,79 | 5,06 |
| | kW kW | kW 151,90 kW 114,30 kW 32,70 4,65 kW 152,70 kW 28,20 | kW 151,90 170,10 kW 114,30 125,40 kW 32,70 39,20 4,65 4,34 kW 152,70 170,80 kW 28,20 33,90 | kW 151,90 170,10 191,70 kW 114,30 125,40 136,10 kW 32,70 39,20 45,30 4,65 4,34 4,23 kW 152,70 170,80 192,80 kW 28,20 33,90 39,20 | kW 151,90 170,10 191,70 213,30 kW 114,30 125,40 136,10 151,60 kW 32,70 39,20 45,30 54,00 4,65 4,34 4,23 3,95 kW 152,70 170,80 192,80 216,20 kW 28,20 33,90 39,20 43,90 | kW 151,90 170,10 191,70 213,30 231,70 kW 114,30 125,40 136,10 151,60 164,70 kW 32,70 39,20 45,30 54,00 60,70 4,65 4,34 4,23 3,95 3,82 kW 152,70 170,80 192,80 216,20 230,80 kW 28,20 33,90 39,20 43,90 46,30 | kW 151,90 170,10 191,70 213,30 231,70 246,10 kW 114,30 125,40 136,10 151,60 164,70 178,50 kW 32,70 39,20 45,30 54,00 60,70 69,00 4,65 4,34 4,23 3,95 3,82 3,57 kW 152,70 170,80 192,80 216,20 230,80 245,50 kW 28,20 33,90 39,20 43,90 46,30 51,20 |

MR

| IVIDZ | | | | | | | | |
|----------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| Size | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Configuration: MB2 | | | | | | | | |
| Cooling performances (1) | | | | | | | | |
| Cooling capacity | kW | 160,20 | 179,40 | 201,80 | 224,60 | 243,90 | 258,90 | 304,50 |
| Sensible cooling capacity | kW | 120,90 | 132,60 | 143,20 | 159,70 | 173,50 | 188,30 | 212,90 |
| Compressors absorbed power | kW | 33,10 | 39,50 | 45,60 | 54,60 | 61,60 | 69,80 | 69,70 |
| EER compressors | | 4,84 | 4,54 | 4,43 | 4,11 | 3,96 | 3,71 | 4,37 |
| Heating performances (2) | | | | | | | | |
| Heating capacity | kW | 155,10 | 174,20 | 195,50 | 219,50 | 234,00 | 248,60 | 300,70 |
| Compressors absorbed power | kW | 25,80 | 31,10 | 35,70 | 40,40 | 42,50 | 47,00 | 54,10 |
| Compressor COP | - | 6,01 | 5,60 | 5,48 | 5,43 | 5,51 | 5,29 | 5,56 |

⁽¹⁾ Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air.
(2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

MRS

| IVIDS | | | | | | | | |
|----------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| Size | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Configuration: MB3 | | | | | | | | |
| Cooling performances (1) | | | | | | | | |
| Cooling capacity | kW | 161,30 | 181,10 | 203,70 | 226,90 | 246,70 | 262,10 | 307,20 |
| Sensible cooling capacity | kW | 121,30 | 133,30 | 143,80 | 160,50 | 174,50 | 189,20 | 213,90 |
| Compressors absorbed power | kW | 32,50 | 38,80 | 44,50 | 53,20 | 59,90 | 67,70 | 68,30 |
| EER compressors | | 4,96 | 4,67 | 4,58 | 4,27 | 4,12 | 3,87 | 4,50 |
| Heating performances (2) | | | | | | | | |
| Heating capacity | kW | 159,10 | 179,00 | 202,30 | 227,70 | 243,60 | 259,90 | 310,90 |
| Compressors absorbed power | kW | 26,20 | 31,40 | 36,30 | 41,00 | 43,30 | 47,90 | 55,00 |
| Compressor COP | | 6,07 | 5,70 | 5,57 | 5,55 | 5,63 | 5,43 | 5,65 |

⁽¹⁾ Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

⁽¹⁾ Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air. (2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

| Size | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|----------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| Configuration: MB4 | | | | | | | | |
| Cooling performances (1) | | | | | | | | |
| Cooling capacity | kW | 161,30 | 181,10 | 203,70 | 226,90 | 246,70 | 262,10 | 307,20 |
| Sensible cooling capacity | kW | 121,30 | 133,30 | 143,80 | 160,50 | 174,50 | 189,20 | 213,90 |
| Compressors absorbed power | kW | 32,50 | 38,80 | 44,50 | 53,20 | 59,90 | 67,70 | 68,30 |
| EER compressors | | 4,96 | 4,67 | 4,58 | 4,27 | 4,12 | 3,87 | 4,50 |
| Heating performances (2) | | | | | | | | |
| Heating capacity | kW | 159,10 | 179,00 | 202,30 | 227,70 | 243,60 | 259,90 | 310,90 |
| Compressors absorbed power | kW | 26,20 | 31,40 | 36,30 | 41,00 | 43,30 | 47,90 | 55,00 |
| Compressor COP | | 6,07 | 5,70 | 5,57 | 5,55 | 5,63 | 5,43 | 5,65 |

ENERGY INDEX

| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|---|-----|--------|--------|--------|--------|--------|--------|--------|
| Energy index | | | 1 | | | | | | |
| SEER | Н | W/W | 4,01 | 3,94 | 4,18 | 3,92 | 4,15 | 3,94 | 3,85 |
| ηςς | Н | % | 157.6% | 154.6% | 164.3% | 153.8% | 162.9% | 154.5% | 150.9% |
| Pdesignh | Н | kW | 89 | 98 | 109 | 123 | 130 | 141 | 168 |
| SCOP | Н | W/W | 3,47 | 3,31 | 3,45 | 3,36 | 3,49 | 3,43 | 3,26 |
| ηsh | Н | % | 135.7% | 129.4% | 134.8% | 131.5% | 136.4% | 134.2% | 127.3% |

GENERAL TECHNICAL DATA

| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------------------|---|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Power supply | | | | | | | | | |
| Power supply | Н | | 400V~3 50Hz |
| Compressor | | | | | | | | | |
| Туре | Н | type | Scroll |
| Number | Н | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | Н | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | Н | type | R410A |
| Partialisation step | Н | no. | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

FANS

| FAINS | |
|---------------|--|
| External fans | |

| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------------------------|--------|------|------------|------------|------------|------------|------------|------------|------------|
| Configuration: MB1, MB2, MB3 | 3, MB4 | | | | | | | | |
| External fans | | | | | | | | | |
| Туре | Н | type | Assiali AC |
| Number | Н | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Internal fans | | | | | | | | | |
| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Configuration: MB1, MB2, MB3 | 3, MB4 | | | | | | | | |
| Internal fans | | | | | | | | | |
| Nominal air flow rate | Н | m³/h | 26000 | 29000 | 33000 | 37000 | 40000 | 44000 | 48000 |
| Minimum air flow rate | Н | m³/h | 18200 | 20300 | 23100 | 25900 | 28000 | 30800 | 33600 |
| Maximum air flow rate | Н | m³/h | 36000 | 36000 | 44000 | 44000 | 53000 | 53000 | 53000 |
| Internal recovery fans | | | | | | | | | |
| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Configuration: MB3 | | | | | | | | | |
| Recovery | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Expulsion fan | | | | | | | | | |
| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Configuration: MB4 | | | | | | | | | |
| Exhaust | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 2 | 2 | 2 | 2 | 2 | 2 |) |

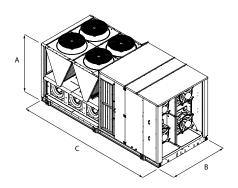
⁽¹⁾ Ambient air 27°C d.b./19°C w.b.; External air 35°C/24°C w.b.; Functioning with 30% of external and expelled air.
(2) Ambient air 20°C D.B./15°C W.B.; Outside air 7°C D.B./6°C W.B. (EN14511); Operation with 30% outside and expelled air.

Internal flow fans

| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------------------------------|-----|------|--------|--------|--------|--------|--------|--------|--------|
| Configuration: MB1 | | | | | | | | | |
| Delivery | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| Maximum useful head (1) | Н | Pa | 700 | 475 | 520 | 580 | 520 | 690 | 550 |
| High static pressure (EN14511) (1) | Н | Pa | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Configuration: MB2, MB3, | MB4 | | | | | | | | |
| Delivery | | | | | | | | | |
| Туре | Н | type | RAD EC |
| Number | Н | no. | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| Maximum useful head (1) | Н | Pa | 519 | 341 | 330 | 470 | 460 | 636 | 467 |
| High static pressure (EN14511) (1) | Н | Pa | 350 | 350 | 350 | 350 | 350 | 350 | 350 |

⁽¹⁾ At the nominal/maximum flow rate with a new, clean air filter.

DIMENSIONS



| Size | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------------------|---|----|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | |
| A | Н | mm | 2430 | 2430 | 2430 | 2430 | 2430 | 2430 | 2430 |
| В | Н | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| C | Н | mm | 5210 | 5210 | 5210 | 5210 | 7750 | 7750 | 7750 |















RTY 01-10

Rooftop

Cooling capacity 30,2 ÷ 133,6 kW Heating capacity 29,3 ÷ 137,9 kW



- Handling section with plug fans coupled with brushless EC motors
- Thermodynamic heat recovery
- Free-cooling operation
- For high crowding applications



Independent Roof-top type air conditioner for treatment, filtration and renewal of the air, based on the chosen configuration. RTY units are designed for high crowding applications, such as cinemas, conference rooms, restaurants, nightclubs being intended for operation with 80% external and expelled air.

The standard unit allows to manage the cooling operation and the recovery of the energy contained in the exhaust air allowing higher performances and efficiencies.

VERSIONS

RTY_H heat pumps

CONFIGURATIONS

MB3 with mixing chamber with three dampers, return fan and heat recovery from expelled air.

The configuration can be further customized with a wide choice of accessories

- 1 refrigerant circuit
- High efficiency scroll compressors (tandem UNEVEN) and low power consumption
- Finned exchangers of the refrigerant circuit direct expansion.
- Supply and return fans, of plug fan type (EC). The impellers are so oriented to ensure that the air flow passes through all the internal components, with the minimum noise.
- Group of axial fans for extremely silent operation placed on the condensing section.
- Electronic control of condensation and evaporation are standard to extend further the operating limits of the unit.
- G4 air filter on the flow of outside air and on the recovery; they are installed upstream of the components, to ensure low pressure drops.

CONTROI

Microprocessor control can handle the different modes of operation ensuring maximum energy savings in any conditions C

Interfaces for connections to remote control supervision system, available as optional.

ACCESSORIES AND FITTINGS

SSV: Supervision system

RS: Serial card BMS RS485 **LW:** Interface card LonWorks

BIP: Interface card Ethernet-pCOweb (BACNET IP)

BAC: interface card BACnet MS/TP pCOnet

FTH: Enthalpic free-cooling

PSTEP: Adjusting constant flow, step flow in function of the modulation of the cooling circuit

FT7: pocket filters F7 efficiency placed on the flow of supply air.

FT9: Pocket filters F9 efficiency placed on the flow of supply air

H10: Electronic filters placed on the flow of supply air.

PSF2: Differential pressure switch signaling fouled filters of recovery, renewal and discharge

Gx: Heating module with gas burner

BW: 2-rows heating coil with hot water

BWV2V: 2-rows heating coil with with hot water, with 2-way modulating valve

BWV3V: 2-rows heating coil with hot water, with 3-way modulating valve. **BE:** Electric heating coil 2 stages (not available with hot air generator)

BEM: Modulating electric heating coil (**not available with hot air generator**)

BPGC: After heating coil with hot gas.

AXEC: Axial fans with EC motors with speed control function according to the pressure of condensation and evaporation.

MAN: High and low pressure gauges

U: installed steam ramp

UP: Immersed electrode producer standard supplied and installed steam ramp

CUR: Humidification control (Humidity probe in recovery, limit humidity probe in supply, contact ON/OFF and modulating analog output)

DP: Dehumidification control (humidity probe in recovery) and of after-heating (if present)

SCO2: Probe CO2 **SVOC:** Probe VOC

STA: Room temperature probe **SUA:** Room humidity probe

RF: Smoke detector

RFC: Smoke detector and recirculation damper closure management and external air intake

PR1: Remote control panel

SCMRM: Modulating servo-controls with spring return **CA:** Waterproof headphones on external air intake **CF:** Flue pipe (only on version with gas burner module)

GP: Protection grille for external coils

VT: antivibration mounts

MSSM: Delivery silencers forms (only for rear air delivery) **MSSR:** Recovery silencers forms (only for rear air delivery)

NOTE: for more details on accessories and equipment, please refer to the technical handbook.

FEATURES AND TECHNOLOGICAL ADVANTAGES

RTY units have been designed with the aim of reducing energy consumption that dictated the result of technological choices present on the unit that we briefly present.

HIGH EFFICIENCY VENTILATION

Ventilation is one of the major factors of power consumption, for this reason particular attention has been given to the study and the construction of the ventilation system.

Fans type plug-fans with brushless EC motors have been used in both supply and recovery; they enables high performances and low power consumption; also comparing them to conventional centrifugal fans, they have no belts or pulleys allowing easy flow regulation, compactness, versatility and ease of maintenance.

A particular adaptive logic allows to adjust the air flow to the actual demand of the system with more consequent advantages in terms of reduction of consumption.

Axial fans for the external section of the unit are of helycal type; the electronic control of condensation is standard and it regulates the fan speed according to the load required, allowing a noise reduction.

As an option, the motors can be electronically controlled (EC) for the reduction in consumption of the condenser section.

MAXIMUM SEASONAL EFFICIENCIES

To improve the efficiency of the refrigerant circuit, we have used scroll tandem compressors with different power between them (compressors UNEVEN except for size 08. This feature allows a reduction of consumptions and a better adaptability to the demands of the system, especially in the operation at partial loads, ensuring higher seasonal efficiency.

AIR QUALITY IN THE ROOM

Particular attention has been given naturally also to the quality of air in the room, entrusted to the standard filters with G4 efficiency on the flow of outside air, also available on the recovery (optional) for process applications.

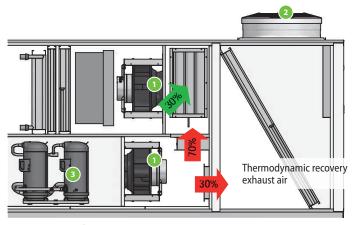
They are also available as an (optional) compact filters F7 and F9 or electronic H10 on the flow of fresh air.

ACTIVE THERMODYNAMIC RECOVERY

It is also available a thermodynamic recovery for the recovery of the energy contained in the exhaust air in such a way that the flow of exhaust air invests the external finned heat exchanger, allowing higher performances and efficiencies.

Of course all these technological advantages are controlled by a temperature control of the latest generation, able to handle the different modes of operation; ensuring maximum energy savings in all operating conditions by means of a special software.

CONFIGURATION WITH THERMODYNAMIC RECOVERY "MB3"



- Plugfan supply and recovery
- 2 Axial fans
- Tandem scroll compressors

PERFORMANCE SPECIFICATIONS

Mod. RTY Heat pump

| Size | | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---------------------------------|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|
| Cooling capacity | (1) | kW | 30,2 | 39,6 | 48,7 | 65,4 | 75,3 | 84,3 | 90,9 | 107,6 | 121,4 | 133,6 |
| Sensitive cooling capacity | | kW | 21,2 | 27,1 | 32,6 | 43,1 | 48,9 | 55,2 | 61,1 | 70,5 | 80,6 | 87,4 |
| Sensitive / total cooling power | | kW | 0,70 | 0,68 | 0,67 | 0,66 | 0,65 | 0,66 | 0,67 | 0,66 | 0,66 | 0,65 |
| Compressor input power | | kW | 5,3 | 8,4 | 9,7 | 13,1 | 15,2 | 17,5 | 18,5 | 23,3 | 27,6 | 32,6 |
| EER | | W/W | 5,70 | 4,71 | 5,00 | 5,00 | 4,96 | 4,82 | 4,92 | 4,61 | 4,39 | 4,09 |
| EER global | | W/W | 4,63 | 4,02 | 3,86 | 3,54 | 3,54 | 3,44 | 3,41 | 3,33 | 3,20 | 3,01 |
| Heating capacity | (2) | kW | 29,3 | 39,7 | 48,5 | 66,5 | 76,6 | 85,8 | 91,4 | 110,4 | 123,4 | 137,9 |
| Compressor input power | | kW | 4,4 | 7,0 | 8,4 | 12,4 | 14,2 | 15,7 | 15,5 | 19,2 | 21,8 | 25,5 |
| COP | | W/W | 6,67 | 5,68 | 5,77 | 5,38 | 5,39 | 5,47 | 5,89 | 5,73 | 5,66 | 5,41 |
| COP global | | W/W | 5,21 | 4,70 | 4,30 | 3,75 | 3,78 | 3,77 | 3,85 | 3,91 | 3,84 | 3,70 |

⁽¹⁾ Internal temperature 27°C d.b., 19°C w.b.; External temperature 35°C d.b., 24°C w.b.; U.R. 40%; (2) Internal temperature 20°C d.b., 15°C w.b.; External temperature 7°C d.b. 6°C w.b.;

GENERAL TECHNICAL DATA

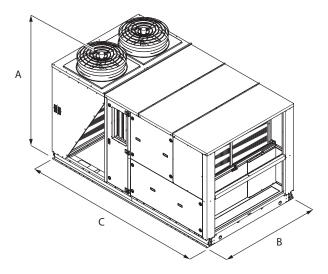
| Size | | | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---------------------------------------|---------|----------------|-------|------|------|-------------|------|------|------|-------|-------|-------|-------|
| Compressors | | | | | | | | | | | | | |
| Compressors | | type Scroll | | | | | | | | | | | |
| | | | n° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | | | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Capacity steps | (1) | | % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| Refrigerant gas | | type | R410A | | | | | | | | | | |
| Fans | | | | | | | | | | | | | |
| External fans | | type Axials AC | | | | | | | | | | | |
| | | | n° | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Internal fans of flow | | type RAD EC | | | | | | | | | | | |
| | | | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | | | Ø mm | 400 | 450 | 450 | 450 | 450 | 450 | 500 | 560 | 630 | 450 |
| Internal fans of recovery | | | type | | | RAD EC | | | | | | | |
| | | | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| | | | Ø mm | 400 | 450 | 450 | 450 | 450 | 500 | 500 | 450 | 450 | 450 |
| Air flow of inside fan | nom/max | | m³/h | 3500 | 4500 | 5500 | 7000 | 8000 | 9500 | 11500 | 14000 | 15000 | 16500 |
| | | min | m³/h | 2450 | 3150 | 3850 | 4900 | 5600 | 6650 | 8050 | 9800 | 10500 | 11550 |
| Available static pressure of supply | (2) | max | Pa | 150 | 150 | 200 | 200 | 200 | 250 | 250 | 250 | 300 | 300 |
| Available static pressure of recovery | (2) | max | Pa | 171 | 184 | 248 | 235 | 245 | 311 | 336 | 372 | 439 | 465 |
| Power supply | V/ph/Hz | | | | | 400V/3/50Hz | | | | | | | |

Sound pressure: Sound pressure measured in free field, (1m, Q=2) away from the external surface of the ducted unit, available static pressure 300Pa at a nominal flow (in accordance with the UNI EN ISO 3744).

Note: For more informations please refer to the technical documentation available on the website www.aermec.com

⁽¹⁾ Sizes 08 don't have UNEVEN compressors
(2) At the nominal/maximum flow rate, G4 medium fouling filter

DIMENSIONS



| Size | | Vers. | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|------------|----|-------|------|------|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| A | mm | All | 2061 | 2061 | 2061 | 2373 | 2373 | 2373 | 2373 | 2373 | 2373 | 2373 |
| В | mm | All | 1900 | 1900 | 1900 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| C | mm | All | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 | 3400 |

AIR/WATER CHILLERS AND HEAT PUMPS

Aermec plant engineering really comes into its own in the field of machines and technology for centralised systems. Aermec offer a full range of chillers and heat pumps from the small domestic system up to that of the large size for the service industry.

The cooling capacity range is extremely wide, and the fittings solutions are equally diverse, for scroll, screw or centrifugal compressor applications.

The careful selection of materials and the close attention paid to every detail of assembly coupled with the huge selection of accessories complete the industry-leading products designed for use in this sector, making Aermec units a real "must" in the world of Italian and European climate control.

| AIR / WATER C | HILLERS AND HEAT PUMPS | Air flow rate (m³/h) | (kW) | Heat. Cap. (kW) | Pag |
|------------------------|--|-------------------------|--------------|--------------------|-----|
| Units with scroll comp | ressors | | | | |
| ANKI 020-080 | Reversible heat pumps inverter | | 5,8-24,8 | 6,1-20,8 | 326 |
| НМІ | Reversible air/water heat pump | | 3,0-14,5 | 4,0-15,5 | 330 |
| ВНР | Air/Water split type reversible heat pump | | 3,2-8,5 | 4,0-9,5 | 336 |
| HMG | Reversible air/water heat pump | | 32-60 | 35-65 | 348 |
| ANLI | Reversible heat pumps inverter | | 28,9 | 31,5 | 353 |
| ANK 020-150 | Reversible air/water heat pump | | 6,8-39,8 | 8,0-35,3 | 359 |
| SWP | High temperature air cooled heat pumps for production of DHW | | | 1,9 | 366 |
| ANL 021-202 | Air-water chiller | | 5,7-43,3 | | 369 |
| ANL 021H-203H | Reversible air/water heat pump | | 5,7-49,1 | 6,2-43,3 | 375 |
| NRK 0090-0150 | Reversible air/water heat pump | | 18,4-31,0 | 20,8-34,4 | 382 |
| NRK 0200-0700 | Reversible air/water heat pump | | 35,5-148,0 | 42,3-175,0 | 386 |
| NRV 0550 | Air-water chiller | | 108,3 | | 391 |
| NRL 0280-0350 | Air-water chiller | | 56,0-82,0 | | 395 |
| NRL 0280H-0350H | Reversible air/water heat pump | | 51,0-76,0 | 58,0-86,0 | 400 |
| NRB 0282-0754 | Air-water chiller | | 56-202 | | 405 |
| NRB 0282H-0754H | Reversible air/water heat pump | | 52-261 | 57-193 | 414 |
| NRG 0282-0804 | Air-water chiller | | 55,8-224,6 | | 422 |
| NRG 0282H-0804H | Reversible air/water heat pump | | 52,5-212,0 | 56,6-214,4 | 431 |
| NRGI 151-602 | Air-water chiller | | 31,0-132,2 | | 439 |
| NRGI 151H-602H | Reversible air/water heat pump | | 28,9-123,7 | 31,6-133,9 | 444 |
| NRG 0800-2400 | Air-water chiller | | 225,7-725,0 | | 450 |
| NRG 0800H-3600H | Reversible air/water heat pump | | 195,2-962,3 | 209,3-991,9 | 458 |
| NRB 0800-3600 | Air-water chiller (plate heat exchanger) | | 217-1049 | | 466 |
| NRB 0800-3600 T | Air-water chiller (shell and tube heat exchanger) | | 217-1049 | | 475 |
| NRB 0800H-3600H | Reversible air/water heat pump (plate heat exchanger) | | 196-971 | 209-1006 | 483 |
| NRB 0800H-3600H-T | Reversible air/water heat pump (shell and tube heat exchanger) | | 196-971 | 209-1006 | 492 |
| CL 025-200 | Air-water chiller with Plug Fan | | 5,8-41,0 | | 500 |
| CL 025H-200H | Reversible air/water heat pump with Plug Fan | | 6,5-50,9 | 7,7-44,8 | 505 |
| NLC 0280-1250 | Air-water chiller with Plug Fan | | 53-322 | | 511 |
| NLC 0280H-1250H | Reversible air/water heat pump with Plug Fan | | 53-322 | 55-342 | 518 |
| Units with screw comp | | | | | |
| NSM 1402-9603 | Air-water chiller | | 302-2100 | | 523 |
| NSMI 1251-6102 | Chiller with Inverter screw compressors | | 285,6-1342,6 | | 538 |
| NSH | Reversible air/water heat pump | | 251-731 | 281-786 | 542 |
| NSG | Air-water chiller (with R1234ze) | | 228-1580 | | 548 |
| Units with centrifugal | | | | | |
| TBA 1300-4325 | Air-water chiller | | 328-1404 | | 559 |
| TBG 1230-4310 | Air-water chiller | | 200-1165 | | 564 |

























ANKI 020-080

Reversible air/water heat pump

Cooling capacity 5,8 ÷ 24,8 kW Heating capacity 6,1 ÷ 20,8 kW



- Production of hot water up to 60 °C
- Production of hot domestic water with outside temperatures from –20 °C up to 42 °C
- Quick & easy installation





DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators.

All the units are equipped with inverter scroll compressors, axial fans, external coils with aluminium louvers, a plate heat exchanger on the side.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

X With inverter pump

FEATURES

Operating field

Working at full load up to -20°C outside air temperature in winter, and up to 46°C in summer. Possibility production technical hot water production up to 60°C (for more information see the technical documentation).

Version with Integrated hydronic kit

If a plug&play solution is required, there's also a version with an integrated hydronic unit containing the main hydraulic components including the water filter (supplied).

■ The water filter must be installed to validate the warranty.

CONTROL PCO

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

MOD485K: RS-485 simplified interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PGD1: Allows you to control the unit at a distance.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SAF: Thermal buffer tank kit with instantaneous Domestic Hot Water production. For more information about SAF refer to the dedicated documentation.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Antivibration supports

BDX: Condensate drip.

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

FACTORY FITTED ACCESSORIES

KR: Anti-freeze electric heater for the plate heat exchanger.

KRB: -

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| AERLINK | °,X | • | • | • | • | • | • | • |
| MOD485K | °,X | • | • | • | • | • | • | • |
| MULTICONTROL | °,X | • | • | • | • | • | • | • |
| PGD1 | °,X | • | • | • | • | • | • | • |
| PR3 | °,X | • | • | • | • | • | • | • |
| SAF (1) | °,X | • | • | • | • | • | • | • |
| SDHW (2) | °,X | • | • | • | • | • | • | • |
| SPLW (3) | °,X | | | | | | | |

- For more information about SAF refer to the dedicated documentation.
 Probe required for MULTICONTROL for managing the domestic hot water system.
 Probe required for MULTICONTROL to manage the secondary circuit system.

Condensation control temperature

| Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|------------------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | | |
| °,Х | DCPX71 |
| ntivibration | | | | | | | |
| Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| ۷, | VT9 |
| Condensate drip | | | | | | | |
| Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| °,Х | BDX30 | BDX30 | BDX30 | BDX30 | BDX50 | BDX50 | BDX50 |
| Heater exchanger | | | | | | | |
| Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| °,X | KR2 |
| | | | | | | | |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Electric heater kit for the base

| Ver | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|-----|------|------|------|------|------|------|------|
| °,X | KRB1 | KRB1 | KRB1 | KRB1 | KRB2 | KRB2 | KRB2 |

CONFIGURATOR

| - | 1411.1 | GONATON |
|------|--------|--|
| Fiel | d | Description |
| 1,2, | 3,4 | ANKI |
| 5,6, | 7 | Size 020, 025, 040, 045, 070, 075, 080 |
| 8 | | Model |
| | Н | Heat pump |
| 9 | | Version |
| | 0 | Standard |
| | Χ | With inverter pump |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| 11 | | Coils |
| | 0 | Copper-aluminium |
| | ٧ | Copper pieps-Coated aluminium fins |
| 12 | | Fans |
| | 0 | Standard |
| | F | Phase cut |
| | J | Inverter |
| 13 | | Operating field |
| | 0 | Electronic thermostatic expansion valve |
| 14 | | Evaporator |
| | 0 | Standard - PED |
| 15 | | Power supply |
| | М | 230V ~ 50Hz (1) |
| | T | 400V ~ 3N 50Hz (2) |
| 16 | | Field for future development |
| | 0 | Future developments |
| | | |

⁽¹⁾ For sizes from 020 \div 045 (2) For sizes from 070 \div 080

PERFORMANCE SPECIFICATIONS

$ANKI - (^{\circ}) - (230V \sim 50Hz / 400V 3N \sim 50Hz)$

| Size | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|---------------------------------------|-----|------|------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | |
| Cooling capacity | kW | 5,8 | 7,3 | 9,4 | 11,7 | 13,7 | 16,4 | 18,5 |
| Input power | kW | 2,0 | 2,6 | 3,2 | 4,3 | 4,8 | 6,2 | 7,7 |
| Cooling total input current - 230V | A | 8,3 | 11,0 | 14,0 | 18,0 | - | - | - |
| Cooling total input current - 400V | A | - | - | - | - | 7,3 | 9,4 | 11,0 |
| EER | W/W | 2,93 | 2,75 | 2,94 | 2,75 | 2,82 | 2,63 | 2,41 |
| Water flow rate system side | l/h | 1005 | 1256 | 1613 | 2024 | 2354 | 2818 | 3196 |
| Pressure drop system side | kPa | 16 | 22 | 13 | 19 | 17 | 25 | 31 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | |
| Heating capacity | kW | 6,2 | 7,8 | 9,3 | 12,3 | 15,3 | 17,7 | 20,2 |
| Input power | kW | 1,9 | 2,4 | 3,0 | 4,1 | 4,8 | 6,0 | 7,2 |
| Heating total input current - 230V | A | 8,2 | 10,0 | 13,0 | 18,0 | - | - | - |
| Heating total input current - 400V | A | - | - | - | - | 7,3 | 9,1 | 11,0 |
| COP | W/W | 3,23 | 3,18 | 3,06 | 3,01 | 3,18 | 2,94 | 2,80 |
| Water flow rate system side | l/h | 1077 | 1345 | 1619 | 2131 | 2660 | 3072 | 3507 |
| Pressure drop system side | kPa | 14 | 21 | 10 | 17 | 17 | 23 | 30 |

$ANKI - (X) - (230V \sim 50Hz / 400V 3N \sim 50Hz)$

| Size | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|---------------------------------------|-----|------|------|------|------|------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | |
| Cooling capacity | kW | 5,9 | 7,4 | 9,5 | 11,8 | 13,8 | 16,5 | 18,7 |
| Input power | kW | 2,0 | 2,6 | 3,1 | 4,2 | 4,8 | 6,2 | 7,7 |
| Cooling total input current - 230V | A | 8,9 | 12,0 | 14,0 | 19,0 | - | - | - |
| Cooling total input current - 400V | A | - | - | - | - | 8,3 | 10,0 | 12,0 |
| EER | W/W | 3,00 | 2,82 | 3,01 | 2,81 | 2,88 | 2,68 | 2,44 |
| Water flow rate system side | l/h | 1005 | 1256 | 1613 | 2024 | 2354 | 2818 | 3196 |
| Useful head system side | kPa | 75,0 | 68,0 | 73,0 | 60,0 | 82,0 | 62,0 | 43,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | |
| Heating capacity | kW | 6,1 | 7,7 | 9,2 | 12,2 | 15,2 | 17,6 | 20,1 |
| Input power | kW | 1,9 | 2,4 | 3,0 | 4,0 | 4,8 | 6,0 | 7,2 |
| Heating total input current - 230V | A | 8,7 | 11,0 | 14,0 | 18,0 | - | - | - |
| Heating total input current - 400V | A | - | - | - | - | 8,2 | 10,0 | 12,0 |
| COP | W/W | 3,23 | 3,19 | 3,07 | 3,02 | 3,19 | 2,95 | 2,80 |
| Water flow rate system side | l/h | 1077 | 1345 | 1619 | 2131 | 2660 | 3072 | 3507 |
| Useful head system side | kPa | 76,0 | 67,0 | 74,0 | 59,0 | 73,0 | 55,0 | 33,0 |

ENERGY DATA

| LINERGI DAIA | | | | | | | | | |
|--------------------------------------|------------------------|---------------------|----------------------|--------|--------|--------|--------|--------|--------|
| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| Cooling capacity with low leaving | g water temp (UE n° 20 | 16/2281) | | | | | | | |
| SEER | ٥ | W/W | 3,50 | 3,54 | 3,76 | 3,77 | 3,49 | 3,47 | 3,44 |
| DEEN | Х | W/W | 4,12 | 4,25 | 4,38 | 4,37 | 3,78 | 3,81 | 3,77 |
| nce | 0 | % | 137,10 | 138,40 | 147,30 | 147,70 | 136,70 | 135,60 | 134,40 |
| ηςς | Х | % | 161,70 | 167,00 | 172,30 | 171,90 | 148,00 | 149,40 | 147,80 |
| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| UE 811/2013 performance in aver | rage ambient conditio | ns (average) - 35 ° | C - Pdesignh ≤ 70 kV | W (1) | | | | | |
| Ddacianh | • | kW | 6 | 7 | 9 | 12 | 14 | 17 | 19 |
| Pdesignh | Х | kW | 6 | 7 | 9 | 12 | 14 | 16 | 19 |
| SCOP | 0 | W/W | 3,58 | 3,55 | 3,40 | 3,20 | 3,50 | 3,33 | 3,30 |
| otur | Х | W/W | 3,83 | 3,83 | 3,60 | 3,35 | 3,60 | 3,43 | 3,40 |
| nch | ٥ | % | 140,00 | 139,00 | 133,00 | 125,00 | 137,00 | 130,00 | 129,00 |
| ηsh | Х | % | 150,00 | 150,00 | 141,00 | 131,00 | 141,00 | 134,00 | 133,00 |
| F# sian au an annu alaas | ٥ | | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Efficiency energy class | Χ | | A++ | A++ | A+ | A+ | A+ | A+ | A+ |
| (1) Efficiencies for low temperature | applications (35 °C) | | | | | | | | |
| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
| UE 811/2013 performance in aver | rage ambient conditio | ns (average) - 55 ° | C - Pdesignh ≤ 70 kV | W (1) | | | | | |
| Ddocianh | ٥ | kW | 6 | 7 | - | - | 14 | 16 | 19 |
| Pdesignh | Х | kW | 5 | 7 | - | - | 13 | 16 | 18 |
| CCOD | ٥ | W/W | 2,87 | 2,89 | - | - | 2,90 | 2,88 | 2,83 |
| SCOP | Х | W/W | 2,90 | 2,95 | - | - | 2,88 | 2,88 | 2,83 |
| nch | 0 | % | 112,00 | 113,00 | | | 113,00 | 112,00 | 110,00 |
| ηsh | Х | % | 113,00 | 115,00 | - | - | 112,00 | 112,00 | 110,00 |
| Efficiency energy class | °,X | | A+ | A+ | - | - | A+ | A+ | A+ |
| | | | | | | | | | |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

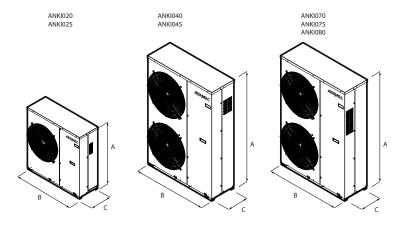
| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|------------------------|-----|---|-------------|-------------|-------------|-------------|----------------|----------------|----------------|
| Electric data | | | | | | | | | |
| Maximum assessed (FLA) | 0 | А | 12,1 | 14,1 | 20,0 | 23,6 | 12,5 | 13,5 | 15,0 |
| Maximum current (FLA) | Χ | Α | 12,9 | 14,9 | 20,8 | 24,4 | 13,6 | 14,6 | 16,1 |
| Deals sussent (LDA) | 0 | А | 8,0 | 8,0 | 10,0 | 10,0 | 15,0 | 15,0 | 15,0 |
| Peak current (LRA) | Х | А | 8,8 | 8,8 | 10,8 | 10,8 | 16,1 | 16,1 | 16,1 |
| Power supply | | | | | | | | | |
| Power supply | °,X | | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 230V ~ 50Hz | 400V ~ 3N 50Hz | 400V ~ 3N 50Hz | 400V ~ 3N 50Hz |

GENERAL TECHNICAL DATA

| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|------------------------------------|---------|-------|--------|--------|--------|--------------|--------|--------|--------|
| Compressor | | | | | | | | | |
| Туре | °,X | type | Rotary | Rotary | Rotary | Rotary | Scroll | Scroll | Scroll |
| Compressor regulation | °,X | Туре | | | | Inverter | | | |
| Number | °,X | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuits | °,X | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,X | type | | | | R410A | | | |
| Refrigerant charge (1) | °,X | kg | 1,4 | 1,4 | 2,3 | 2,3 | 3,5 | 3,5 | 3,5 |
| System side heat exchanger | | | | | | | | | |
| Туре | °,X | type | | | | Brazed plate | | | |
| Number | °,X | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | |
| Connections (in/out) | °,X | Туре | | | | Gas-M | | | |
| Size (in) | °,X | Ø | | | | 1" | | | |
| Size (out) | °,X | Ø | | | | 1" | | | |
| Fan | | | | | | | | | |
| Туре | °,X | type | | | | Axial | | | |
| Fan motor | °,X | type | | | | Asynchronous | | | |
| Number | °,X | no. | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | °,X | m³/h | 3590 | 3590 | 7480 | 7480 | 7400 | 7400 | 7400 |
| Sound data calculated in cooling m | ode (2) | | | | | | | | |
| Sound power level | °,X | dB(A) | 64,0 | 65,4 | 66,7 | 67,7 | 67,7 | 69,0 | 69,0 |
| Sound pressure level (10 m) | °,X | dB(A) | 32,7 | 34,1 | 35,4 | 36,3 | 36,3 | 37,6 | 37,6 |

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 020 | 025 | 040 | 045 | 070 | 075 | 080 |
|------------------------|-----|----|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | |
| A | °,X | mm | 1028 | 1028 | 1481 | 1481 | 1481 | 1481 | 1481 |
| В | °,X | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| C | °,X | mm | 346 | 346 | 346 | 346 | 450 | 450 | 450 |
| Emptywaight | 0 | kg | 80 | 80 | 113 | 113 | 174 | 174 | 174 |
| Empty weight | χ | kg | 82 | 82 | 115 | 115 | 178 | 178 | 178 |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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НМІ

Reversible air/water heat pump

DHWT

Cooling capacity 3,0 ÷ 14,5 kW Heating capacity 4,0 ÷ 15,5 kW



- New R32 ecological refrigerant gas
- Production of hot water up to 60 °C
- Production of hot domestic water with external temperatures from -25 °C to 48 °C
- · Quick & easy installation











DESCRIPTION

Reversible outdoor heat pump for air-conditioning systems where, in addition to cooling rooms, high-temperature hot water is required for heating or for the production of domestic hot water. For the production of DHW it is mandatory to combine it with the domestic hot water storage tank DHWT300S.

HMI is designed to meet the needs of both the new constructions market and the renovation market, **replacing or working alongside conventional boilers**.

It can be combined with low-temperature emission systems such as floor heating or fan coils, and also with more traditional radiators, and comes supplied with the main hydraulic components needed, thereby facilitating the final installation.

FEATURES

Operating limits

Working at full load up to -25 $^{\circ}$ C outside air temperature in winter, and up to 48 $^{\circ}$ C in summer. Maximum temperature of water produced in heating mode 60 $^{\circ}$ C.

- Refrigerant circuit with economizer.
- DC brushless axial flow fans designed for aerodynamic optimisation, reducing the noise level whilst at the same time increasing the efficiency and air flow rate.
- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Electronic expansion valve.

Main hydraulic components

- Inverter pump.
- Plate heat exchanger.
- Expansion tank
- Safety valve.
- Flow switch.

330

— Water filter supplied (mandatory installation).

Regulation

Adjustment via a multi-language touch-screen control panel:

- Management of a 3 way diverting valve (not supplied) for the production of domestic hot water.
- Management of a 2 way valve (not supplied) for shutting off part of the system.
- Weekly programming in time periods.
- Auto-restart function.
- Emergency operation (a supplementary heat source may be activated).
- **Quick hot water** function, for quickly heating domestic hot water.
- Weather dependent mode function for climate control.
- Quiet function for reduced noise operation (programmable with a timer).
- Condensation check
- When the anti-legionella cycle is activated (it's easily set via the control panel), the whole tank is heated once a week to a temperature (max. 70 °C) that weakens the bacteria responsible for the infection.

Special golden fin coil

www.aermec.com

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Smart APP Ewpe

The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.



ACCESSORIES

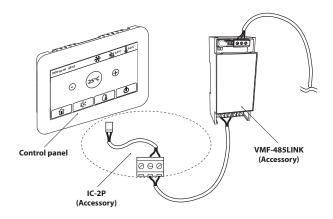
DHWT3005: (220-240V~50Hz) DHW storage tank in enamelled steel. Single-phase power supply, tank capacity 300 litres with main and secondary coils and 3 kW back-up electric heater. Magnesium sacrificial anode. Indoor installation, as indicated in the installation manual.

HMICB15: Connection cable for the control panel. Cable length 15m. **IC-2P:** Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

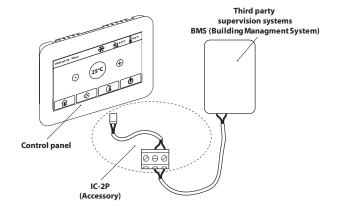
VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

For more information about VMF system, refer to the dedicated documentation.

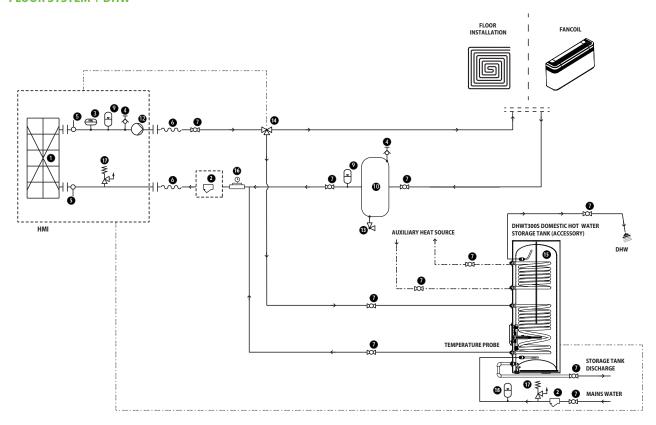
Connection with VMF-485LINK



Connection with third party supervision systems



FLOOR SYSTEM + DHW



COMPONENTS AS STANDARD

- Plate heat exchanger **— 1**
- Water filter (supplied) **— 2**
- 3 Flow switch
- Air drain valve **— 4**
- Water temperature sensor (IN/OUT) **— 5**
- **9 Expansion tank**
- 12 Pump

WARNING: in the case of a free-standing system, the bypass valve must be installed to ensure the circulation of a minimum amount of water to the system.

HYDRAULIC COMPONENTS NOT PROVIDED AND RESPONSIBILITY **OF THE INSTALLER**

- **4** Air drain valve
- Anti-vibration joints **—** 6
- **7** Flow shut-off valve
- **9 Expansion tank**
- **10** System storage tank (installation recommended if the system water content is lower than the value indicated in the technical manual).
- **13** Drain tap
- **14**
- 3 way valve **DHWT300S** accessory **— 15**
- 16 Loading unit
- **17** Safety valve
- Expansion tank **NOT supplied — 18**

PERFORMANCE SPECIFICATIONS

EUROVENT TECHNICAL DATA EN 14511:2013

| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---|-----|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| Cooling performance 12 °C / 7 °C - EN 14511:2013 (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 3,00 | 4,00 | 5,00 | 7,80 | 7,80 | 9,50 | 9,50 | 12,00 | 12,00 | 13,00 | 13,00 |
| Input power | kW | 0,94 | 1,29 | 1,61 | 2,48 | 2,64 | 3,20 | 3,11 | 4,14 | 4,38 | 4,96 | 4,91 |
| Input current | Α | 4,3 | 5,9 | 7,7 | 11,4 | 4,0 | 14,7 | 4,7 | 19,0 | 6,7 | 22,7 | 7,5 |
| EER | W/W | 3,19 | 3,10 | 3,11 | 3,15 | 2,95 | 2,97 | 3,05 | 2,90 | 2,74 | 2,62 | 2,65 |
| Water flow rate | l/h | 516 | 672 | 860 | 1320 | 1270 | 1650 | 1665 | 2080 | 2065 | 2270 | 2231 |
| Useful head | kPa | 75,0 | 74,0 | 74,0 | 71,0 | 71,0 | 65,0 | 64,0 | 51,0 | 51,0 | 45,0 | 46,0 |
| Heating performance 40 °C / 45 °C - EN 14511:2013 (2) | | | | | | | | | | | | |
| Heating capacity | kW | 4,00 | 6,00 | 7,50 | 10,00 | 10,00 | 12,00 | 12,00 | 14,00 | 14,00 | 15,50 | 15,50 |
| Input power | kW | 1,00 | 1,58 | 2,00 | 2,70 | 2,70 | 3,48 | 3,48 | 4,18 | 4,18 | 4,70 | 4,70 |
| Input current | Α | 4,6 | 7,2 | 9,2 | 12,4 | 4,1 | 15,9 | 5,3 | 19,1 | 6,4 | 21,5 | 7,1 |
| COP | W/W | 4,00 | 3,80 | 3,75 | 3,70 | 3,70 | 3,45 | 3,45 | 3,35 | 3,35 | 3,30 | 3,30 |
| Water flow rate | l/h | 690 | 977 | 1240 | 1700 | 1710 | 2050 | 2040 | 2500 | 2474 | 2700 | 2734 |
| Useful head | kPa | 74,0 | 73,0 | 72,0 | 63,0 | 63,0 | 52,0 | 52,0 | 37,0 | 38,0 | 30,0 | 29,0 |

⁽¹⁾ Data EN 14511:2013; System side water heat exchanger 12 °C/7 °C; External air 35 °C (2) Data EN 14511:2013; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---|-----|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| Cooling performance 23 °C / 18 °C - EN 14511:2013 (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 3,80 | 5,80 | 6,80 | 8,80 | 8,80 | 11,00 | 11,00 | 12,50 | 12,50 | 14,50 | 14,50 |
| Input power | kW | 0,82 | 1,32 | 1,55 | 1,96 | 1,96 | 2,56 | 2,56 | 3,05 | 3,05 | 3,82 | 3,82 |
| Input current | Α | 3,8 | 6,0 | 7,1 | 9,0 | 3,0 | 11,7 | 3,9 | 14,0 | 4,6 | 17,5 | 5,8 |
| EER | W/W | 4,63 | 4,39 | 4,39 | 4,49 | 4,49 | 4,30 | 4,30 | 4,10 | 4,10 | 3,80 | 3,80 |
| Water flow rate | l/h | 660 | 981 | 1220 | 1510 | 1500 | 1926 | 1900 | 2238 | 2200 | 2640 | 2570 |
| Useful head | kPa | 74,0 | 73,0 | 72,0 | 69,0 | 69,0 | 56,0 | 57,0 | 46,0 | 47,0 | 32,0 | 34,0 |
| Heating performance 30 °C/35 °C - EN 14511:2013 (2) | | | | | | | | | | | | |
| Heating capacity | kW | 4,00 | 6,00 | 7,50 | 10,00 | 10,00 | 12,00 | 12,00 | 14,00 | 14,00 | 15,50 | 15,50 |
| Input power | kW | 0,79 | 1,20 | 1,63 | 2,17 | 2,17 | 2,64 | 2,64 | 3,22 | 3,22 | 3,60 | 3,60 |
| Input current | Α | 3,6 | 5,5 | 7,5 | 9,9 | 3,3 | 12,1 | 4,0 | 14,7 | 4,9 | 16,5 | 5,5 |
| COP | W/W | 5,10 | 5,00 | 4,60 | 4,61 | 4,61 | 4,55 | 4,55 | 4,35 | 4,35 | 4,31 | 4,31 |
| Water flow rate | I/h | 690 | 1030 | 1247 | 1736 | 1720 | 2137 | 2100 | 2524 | 2400 | 2703 | 2626 |
| Useful head | kPa | 74,0 | 73,0 | 72,0 | 62,0 | 62,0 | 49,0 | 50,0 | 36,0 | 40,0 | 30,0 | 32,0 |

EUROVENT TECHNICAL DATA EN 14511:2018

| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---------------------------------------|-----|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 2,98 | 3,97 | 4,96 | 7,75 | 7,75 | 9,45 | 9,45 | 11,94 | 11,94 | 12,95 | 12,95 |
| Input power | kW | 0,94 | 1,29 | 1,61 | 2,48 | 2,64 | 3,20 | 3,11 | 4,14 | 4,38 | 4,96 | 4,91 |
| Input current | Α | 4,7 | 6,4 | 7,9 | 12,0 | 4,6 | 15,0 | 5,3 | 20,0 | 7,3 | 23,0 | 8,1 |
| EER | W/W | 3,17 | 3,08 | 3,08 | 3,12 | 2,94 | 2,95 | 3,04 | 2,88 | 2,73 | 2,61 | 2,64 |
| Water flow rate | l/h | 504 | 673 | 842 | 1318 | 1318 | 1609 | 1609 | 2038 | 2038 | 2210 | 2210 |
| Useful head | kPa | 74,0 | 74,0 | 74,0 | 69,0 | 69,0 | 64,0 | 64,0 | 52,0 | 52,0 | 47,0 | 47,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 4,03 | 6,04 | 7,55 | 10,06 | 10,06 | 12,06 | 12,06 | 14,05 | 14,05 | 15,54 | 15,54 |
| Input power | kW | 1,00 | 1,58 | 2,00 | 2,70 | 2,70 | 3,48 | 3,48 | 4,18 | 4,18 | 4,70 | 4,70 |
| Input current | Α | 5,1 | 7,8 | 9,7 | 13,0 | 4,7 | 17,0 | 5,9 | 20,0 | 6,9 | 22,0 | 7,7 |
| COP | W/W | 4,03 | 3,83 | 3,78 | 3,72 | 3,72 | 3,46 | 3,46 | 3,36 | 3,36 | 3,31 | 3,31 |
| Water flow rate | l/h | 710 | 1062 | 1326 | 1762 | 1762 | 2110 | 2110 | 2456 | 2456 | 2714 | 2714 |
| Useful head | kPa | 74,0 | 73,0 | 71,0 | 60,0 | 60,0 | 50,0 | 50,0 | 39,0 | 39,0 | 29,0 | 29,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---------------------------------------|-----|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 3,77 | 5,76 | 6,75 | 8,75 | 8,75 | 10,94 | 10,94 | 12,44 | 12,44 | 14,45 | 14,45 |
| Input power | kW | 0,82 | 1,32 | 1,55 | 1,96 | 1,96 | 2,56 | 2,56 | 3,05 | 3,05 | 3,82 | 3,82 |
| Input current | A | 4,2 | 6,6 | 7,6 | 9,5 | 3,6 | 12,0 | 4,5 | 15,0 | 5,2 | 18,0 | 6,4 |
| EER | W/W | 4,60 | 4,36 | 4,36 | 4,46 | 4,46 | 4,27 | 4,27 | 4,08 | 4,08 | 3,78 | 3,78 |
| Water flow rate | l/h | 641 | 982 | 1152 | 1495 | 1495 | 1873 | 1873 | 2132 | 2132 | 2478 | 2478 |
| Useful head | kPa | 74,0 | 74,0 | 73,0 | 66,0 | 66,0 | 57,0 | 57,0 | 50,0 | 50,0 | 38,0 | 38,0 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 4,03 | 6,04 | 7,55 | 10,06 | 10,06 | 12,06 | 12,06 | 14,05 | 14,05 | 15,54 | 15,54 |
| Input power | kW | 0,79 | 1,20 | 1,63 | 2,17 | 2,17 | 2,64 | 2,64 | 3,22 | 3,22 | 3,60 | 3,60 |
| Input current | A | 4,1 | 6,0 | 8,0 | 11,0 | 3,9 | 13,0 | 4,6 | 15,0 | 5,5 | 17,0 | 6,1 |
| COP | W/W | 5,10 | 5,04 | 4,63 | 4,63 | 4,63 | 4,57 | 4,57 | 4,36 | 4,36 | 4,32 | 4,32 |
| Water flow rate | l/h | 708 | 1058 | 1321 | 1756 | 1756 | 2102 | 2102 | 2447 | 2447 | 2704 | 2704 |
| Useful head | kPa | 74,0 | 73,0 | 71,0 | 60,0 | 60,0 | 50,0 | 50,0 | 39,0 | 39,0 | 30,0 | 30,0 |

⁽¹⁾ Data EN 14511:2013; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2013; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---|-------------|------------------|--------------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| UE 811/2013 performance in average ambient condit | ons (averag | e) - 35 °C - Pde | signh ≤ 70 k | W (1) | | | | | | | | |
| Pdesignh | kW | 5 | 5 | 6 | 9 | 9 | 11 | 11 | 11 | 11 | 13 | 13 |
| ηsh | % | 185,00 | 185,00 | 183,00 | 176,00 | 176,00 | 175,00 | 175,00 | 168,00 | 168,00 | 164,00 | 164,00 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A++ | A++ | A++ | A++ |
| UE 811/2013 performance in average ambient condit | ons (averag | e) - 55 °C - Pde | signh ≤ 70 k | W (2) | | | | | | | | |
| Pdesignh | kW | 6 | 6 | 7 | 8 | 8 | 10 | 10 | 11 | 11 | 13 | 13 |
| ηsh | % | 126,00 | 126,00 | 127,00 | 128,00 | 128,00 | 126,00 | 126,00 | 125,00 | 125,00 | 125,00 | 125,00 |
| Efficiency energy class | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ | A++ |

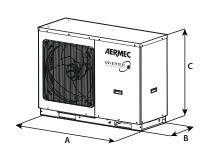
GENERAL TECHNICAL DATA

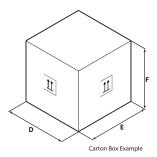
| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|---|-------|--------|---------|----------|--------|---------|----------------|---------|--------|-------------|--------|---------|
| Electric data | | | | | | | | | | | | |
| Rated current input (1) | А | 10,4 | 10,4 | 10,4 | 23,0 | 12,0 | 25,0 | 12,0 | 29,0 | 12,0 | 29,0 | 12,0 |
| Compressor | | | | | | | | | | | | |
| Туре | type | | | | | Ro | otary DC Inver | ter | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuits | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| Refrigerant | type | | | | | | R32 | | | | | |
| Potential global heating | GWP | | | | | | 675 kgCO₂eq | | | | | |
| Refrigerant charge (2) | kg | 0,9 | 0,9 | 0,9 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 |
| Oil | Туре | | | | | | FW68DA | | | | | |
| Total oil charge | kg | 0,5 | 0,5 | 0,5 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | type | | | | | | Brazed plate | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | Туре | | | | | | Gas Maschio | | | | | |
| Size (in) | Ø | | | | | | 1″ | | | | | |
| Size (out) | Ø | | | | | | 1″ | | | | | |
| Fan | | | | | | | | | | | | |
| Туре | type | | | | | | Axial | | | | | |
| Fan motor | type | | | | | | Inverter | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Air flow rate | m³/h | 2600 | 2600 | 2600 | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 |
| Sound data calculated in cooling mode (3) | | | | | | | | | | | | |
| Sound pressure level (1 m) | dB(A) | 51,0 | 52,0 | 53,0 | 56,0 | 56,0 | 56,0 | 56,0 | 57,0 | 57,0 | 59,0 | 59,0 |
| Sound data calculated in heating mode (3) | | | | | | | | | | | | |
| Sound power level | dB(A) | 64,0 | 64,0 | 65,0 | 69,0 | 69,0 | 69,0 | 69,0 | 70,0 | 70,0 | 72,0 | 72,0 |
| Sound pressure level (1 m) | dB(A) | 50,0 | 50,0 | 51,0 | 54,0 | 54,0 | 54,0 | 54,0 | 55,0 | 55,0 | 57,0 | 57,0 |
| Power supply | | | | | | | | | | | | |
| Power supply | | | 220-240 | V ~ 50Hz | | | 220-240V ~ | | | 380-415V 3N | | |
| i owei suppiy | | | 220-240 | V JUIL | | ~ 50Hz | 50Hz | ~ 50Hz | 50Hz | ~ 50Hz | 50Hz | ~ 50Hz |

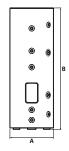
⁽¹⁾ Efficiencies for low temperature applications (35 °C) (2) Efficiencies for average temperature applications (55 °C)

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(3) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS







| | | HMI040 | HMI060 | HMI080 | HMI100 | HMI100T | HMI120 | HMI120T | HMI140 | HMI140T | HMI160 | HMI160T |
|------------------------|----|--------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| Dimensions and weights | | | | | | | | | | | | |
| A | mm | 1150 | 1150 | 1150 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| В | mm | 345 | 345 | 345 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| C | mm | 758 | 758 | 758 | 878 | 878 | 878 | 878 | 878 | 878 | 878 | 878 |
| D | mm | 1260 | 1260 | 1260 | 1295 | 1295 | 1295 | 1295 | 1295 | 1295 | 1295 | 1295 |
| E | mm | 490 | 490 | 490 | 595 | 595 | 595 | 595 | 595 | 595 | 595 | 595 |
| F | mm | 900 | 900 | 900 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 |
| Net weight | kg | 96,00 | 96,00 | 96,00 | 151,00 | 151,00 | 151,00 | 151,00 | 151,00 | 151,00 | 151,00 | 151,00 |
| Weight for transport | kg | 109,00 | 109,00 | 109,00 | 166,00 | 166,00 | 166,00 | 166,00 | 166,00 | 166,00 | 166,00 | 166,00 |
| | | | | | | | | | | | | |

| | | DHM13002 | |
|------------------------|----|----------|--|
| Dimensions and weights | | | |
| A | mm | 620 | |
| В | mm | 1725 | |
| Net weight | kg | 140,00 | |





















BHP

Reversible air/water split heat pump

Cooling capacity 3,2 ÷ 11,5 kW Heating capacity 4,0 ÷ 16,0 kW



- Indoor unit available in two versions, with and without DHW
- New R32 ecological refrigerant gas
- Production of hot water up to 60 °C
- · Anti-legionella function
- Multi-language touch-screen control panel





DESCRIPTION

BHP It's the new "split" type inverter heat pump system, more efficient than standard boiler systems as it guarantees sustainable, efficient heating, cooling and domestic hot water supply in every season.

BHP is designed to meet the needs of both the new constructions market and the renovation market, replacing or working alongside conventional boilers.

The system can be installed in systems with any hydronic terminal, and is already supplied with the main hydraulic components, thus facilitating final installation.

The indoor unit comes in two versions:

- BHP_W wall-mounting, without DHW storage tank but complete
 with a 3-way DHW-system diverting valve. For the production of
 DHW it is mandatory to combine it with the domestic hot water
 storage tank DHWT300S.
- BHP_F with base, complete with DHW storage tank.

FFATURES

Main hydraulic components

BHP outdoor unit

- inverter compressor,
- finned pack heat exchanger with copper pipes and aluminium louvers, with protective golden fin treatment,
- economizer,
- electronic valve,
- DC axial brushless fan,
- electric heater for the base.

BHP_W wall indoor unit

- plate heat exchanger,
- flow switch,
- inverter pump,
- expansion tank,
- drain valve,
- safety valve,
- Electric resistance system side,
- 3 way valve,

- DHW-system connections,
- water filter supplied (mandatory installation).

BHP_F indoor base unit

- plate heat exchanger,
- flow switch,
- inverter pump,expansion tank,
- drain valve,
- safety valve,
- Electric resistance system side,
- 3 way valve,
- DHW-system connections,
- $\label{eq:continuous_problem} \mbox{$-$} \mbox{ water filter supplied (mandatory installation),}$
- DHW storage tank of 185 litres with coil and supplementary electric heater, and anti-legionella function,
- tank with Titanium electronic sacrificial anode.

The indoor and outdoor units are connected by means of suitably sized cooling lines (supplied by the installer).

Cooling circuit use R32 (A2L) refrigerant with low GWP.

Operating limits

Full load operation down to -25°C (outside air temperature in winter), and up to 48° C in summer.

Regulations

Adjustment via multi-language touch-screen control panel:

- ganagement of a 3-way diverting valve for the production of domestic hot water,
- management of a 2 way valve (not supplied) for shutting off part of the system.
- weekly programming in time periods,
- auto-restart function,
- emergency operation,
- function quick water heating for a quick heating of domestic hot water
- forced operating **mode**,

- intelligent operation based on weather conditions for climate adjustment,
- quiet function for reduced noise operation (programmable with a timer),
- Anti-freeze function,
- condensation check,
- when the anti-legionella cycle is activated (it's easily set via the control panel), the whole tank is heated once a week to a temperature (max. 70 °C) that weakens the bacteria responsible for the infection,
- pre heating function of the floor to pre-heat the floor system before unit commissioning.



Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Smart APP Ewpe

The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.



ACCESSORIES

DHWT3005: (220-240V~50Hz) DHW storage tank in enamelled steel. Single-phase power supply, tank capacity 300 litres with main and secondary coils and 3 kW back-up electric heater. Magnesium sacrificial anode. Indoor installation, as indicated in the installation manual.

For the production of DHW it is mandatory to combine it with BHP $\,$ W.

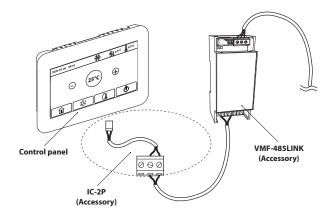
IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

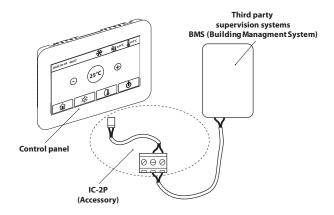
Compatibility with VMF system

For more information about VMF system, refer to the dedicated documentation.

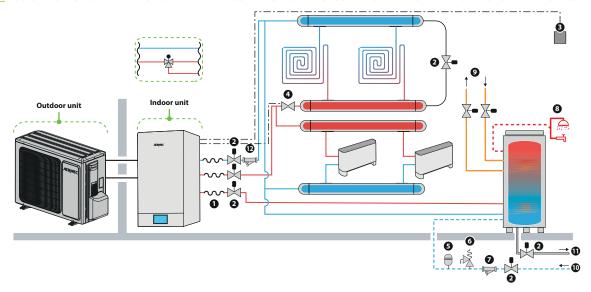
Connection with VMF-485LINK



Connection with third party supervision systems



BHP_W: DOMESTIC HOT WATER STORAGE TANK CONNECTION AND CONNECTION TO THE FLOOR SYSTEM AND FCU



HYDRAULIC COMPONENTS SUPPLIED AS STANDARD IN THE INDOOR UNIT

- Plate heat exchanger
- Flow switch
- Inverter circulator
- Expansion vessel
- Drain valve
- Pressure relief valve
- Electric resistance system side
- 3 way valve
- DHW-system connections

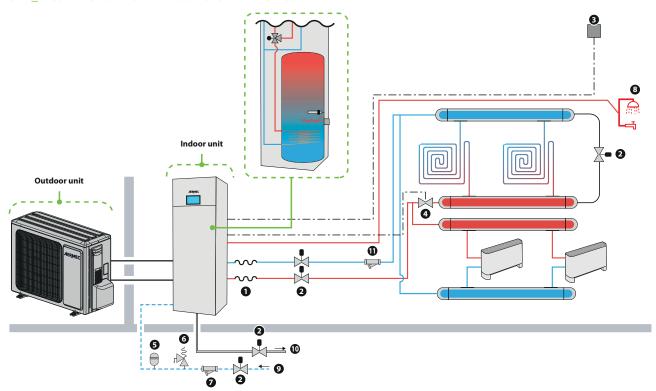
SUPPLIED HYDRAULIC COMPONENTS

— 12 Water filter supplied (mandatory installation)

HYDRAULIC COMPONENTS RECOMMENDED OUTSIDE THE UNIT (AT THE INSTALLER'S RESPONSIBILITY)

- 1. Anti-vibration joints
- 2. Shut-off tap
- 3. Ambient thermostat
- 4. 2 way valve
- 5. Expansion tank NOT supplied
- 6. Safety valve supplied with DHWT300S (installation is mandatory)
- 7. Water filter NOT supplied (installation is mandatory)
- 8. Hot domestic water
- 9. Auxiliary heat sources
- 10. Aqueduct
- **11.**Storage discharge

BHP_F: CONNECTION TO THE FLOOR SYSTEM AND FCU



www.aermec.com

HYDRAULIC COMPONENTS SUPPLIED AS STANDARD IN THE IN-**DOOR UNIT**

- Plate heat exchanger
- Flow switch
- Inverter pump
- Expansion vessel
- Drain valve
- Pressure relief valve
- Electric resistance system side
- 3 way valve

DHW-system connections SUPPLIED HYDRAULIC COMPONENTS

Water filter supplied (mandatory installation)

HYDRAULIC COMPONENTS RECOMMENDED OUTSIDE THE UNIT (AT THE INSTALLER'S RESPONSIBILITY)

- 1. Anti-vibration joints
- 2. Shut-off tap
- 3. Ambient thermostat
- 4. 2 way valve
- 5. Expansion tank NOT supplied
- 6. Safety valve **NOT supplied (installation is mandatory)**
- 7. Water filter NOT supplied (installation is mandatory)
- 8. Hot domestic water
- 9. Aqueduct
- **10.**Storage discharge

PERFORMANCE SPECIFICATIONS

Technical data Wall unit

| Indoor unit | | BHP060W | BHP060W | BHP100W | BHP100W | BHP160W | BHP160W | BHP160W |
|---------------------------------------|-----|---------|---------|---------|---------|---------|---------|---------|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 | BHP120 | BHP140 | BHP160 |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | |
| Cooling capacity | kW | 3,20 | 4,09 | 5,30 | 6,50 | 10,07 | 11,30 | 11,60 |
| Input power | kW | 0,94 | 1,28 | 1,73 | 2,27 | 3,65 | 4,04 | 4,38 |
| EER | W/W | 3,42 | 3,20 | 3,06 | 2,86 | 2,93 | 2,80 | 2,65 |
| Water flow rate system side | l/h | 550 | 703 | 912 | 1118 | 1840 | 1944 | 1995 |
| Useful head system side | kPa | 76,0 | 74,0 | 70,0 | 63,0 | 56,0 | 54,0 | 48,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | |
| Heating capacity | kW | 4,00 | 5,90 | 8,00 | 9,50 | 12,40 | 14,50 | 16,10 |
| Input power | kW | 1,02 | 1,51 | 2,14 | 2,64 | 3,22 | 3,87 | 4,41 |
| COP | W/W | 3,92 | 3,91 | 3,74 | 3,60 | 3,85 | 3,75 | 3,65 |
| Water flow rate system side | l/h | 688 | 1015 | 1376 | 1634 | 2133 | 2494 | 2769 |
| Useful head system side | kPa | 74,0 | 67,0 | 51,0 | 36,0 | 45,0 | 26,0 | 11,0 |
| Cooling performance 23 °C / 18 °C (3) | | | | | | | | |
| Cooling capacity | kW | 3,80 | 5,80 | 7,00 | 8,52 | 11,00 | 12,60 | 13,00 |
| Input power | kW | 0,82 | 1,32 | 1,75 | 2,25 | 2,50 | 3,41 | 3,60 |
| EER | W/W | 4,63 | 4,40 | 4,00 | 3,79 | 4,40 | 3,70 | 3,61 |
| Water flow rate system side | l/h | 655 | 992 | 1204 | 1465 | 1892 | 2167 | 2236 |
| Useful head system side | kPa | 74,0 | 69,0 | 60,0 | 46,0 | 54,0 | 40,0 | 34,0 |
| Heating performance 30 °C / 35 °C (4) | | | | | | | | |
| Heating capacity | kW | 4,00 | 6,00 | 8,00 | 9,50 | 12,00 | 14,00 | 15,50 |
| Input power | kW | 0,78 | 1,20 | 1,70 | 2,07 | 2,40 | 2,98 | 3,44 |
| COP | W/W | 5,13 | 5,00 | 4,71 | 4,59 | 5,00 | 4,70 | 4,50 |
| Water flow rate system side | I/h | 688 | 1032 | 1376 | 1634 | 2064 | 2408 | 2666 |
| Useful head system side | kPa | 74,0 | 66,0 | 51,0 | 36,0 | 45,0 | 26,0 | 15,0 |

Three-phase Wall unit technical data

| Indoor unit | | BHP100WT | BHP100WT | BHP160WT | BHP160WT | BHP160WT |
|---------------------------------------|-----|----------|----------|----------|----------|----------|
| Outdoor unit | | BHP080T | BHP100T | BHP120T | BHP140T | BHP160T |
| Cooling performance 12 °C / 7 °C (1) | | | | | | |
| Cooling capacity | kW | 7,60 | 8,20 | 10,07 | 11,30 | 11,60 |
| nput power | kW | 2,35 | 2,73 | 3,65 | 4,04 | 4,38 |
| EER | W/W | 3,23 | 3,00 | 2,93 | 2,80 | 2,65 |
| Nater flow rate system side | l/h | 1307 | 1410 | 1840 | 1944 | 1995 |
| Useful head system side | kPa | 66,0 | 58,0 | 56,0 | 54,0 | 48,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | |
| Heating capacity | kW | 8,00 | 10,20 | 12,40 | 14,50 | 16,13 |
| nput power | kW | 1,93 | 2,55 | 3,22 | 3,87 | 4,42 |
| TOP | W/W | 4,15 | 4,00 | 3,85 | 3,75 | 3,65 |
| Nater flow rate system side | l/h | 1376 | 1720 | 2133 | 2494 | 2774 |
| Jseful head system side | kPa | 60,0 | 45,0 | 45,0 | 26,0 | 11,0 |
| Cooling performance 23 °C / 18 °C (3) | | | | | | |
| Cooling capacity | kW | 8,50 | 10,00 | 11,00 | 12,60 | 13,00 |
| nput power | kW | 1,74 | 2,33 | 2,50 | 3,41 | 3,60 |
| EER | W/W | 4,89 | 4,29 | 4,40 | 3,70 | 3,61 |
| Nater flow rate system side | l/h | 1462 | 1720 | 1892 | 2167 | 2236 |
| Jseful head system side | kPa | 54,0 | 41,0 | 54,0 | 40,0 | 34,0 |
| Heating performance 30 °C / 35 °C (4) | | | | | | |
| Heating capacity | kW | 8,00 | 10,00 | 12,00 | 14,00 | 15,54 |
| nput power | kW | 1,63 | 2,15 | 2,40 | 2,98 | 3,45 |
| TOP . | W/W | 4,91 | 4,65 | 5,00 | 4,70 | 4,50 |
| Vater flow rate system side | I/h | 1376 | 1754 | 2064 | 2408 | 2673 |
| Useful head system side | kPa | 60,0 | 46,0 | 46,0 | 26,0 | 14,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C (4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C (4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

Technical data base unit

| Indoor unit | | BHP060F | BHP060F | BHP100F | BHP100F |
|---------------------------------------|-----|---------|---------|---------|---------|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 |
| Cooling performance 12 °C / 7 °C (1) | | | | | |
| Cooling capacity | kW | 3,20 | 4,09 | 5,30 | 6,50 |
| Input power | kW | 0,94 | 1,28 | 1,73 | 2,27 |
| EER | W/W | 3,42 | 3,20 | 3,06 | 2,86 |
| Water flow rate system side | l/h | 550 | 703 | 912 | 1118 |
| Useful head system side | kPa | 76,0 | 74,0 | 70,0 | 63,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 4,00 | 5,90 | 8,00 | 9,50 |
| Input power | kW | 1,02 | 1,51 | 2,14 | 2,64 |
| COP | W/W | 3,92 | 3,91 | 3,74 | 3,60 |
| Water flow rate system side | l/h | 688 | 1015 | 1376 | 1634 |
| Useful head system side | kPa | 74,0 | 67,0 | 51,0 | 36,0 |
| Cooling performance 23 °C / 18 °C (3) | | | | | |
| Cooling capacity | kW | 3,80 | 5,80 | 7,00 | 8,52 |
| Input power | kW | 0,82 | 1,32 | 1,75 | 2,25 |
| EER | W/W | 4,63 | 4,40 | 4,00 | 3,79 |
| Water flow rate system side | l/h | 655 | 992 | 1204 | 1465 |
| Useful head system side | kPa | 74,0 | 69,0 | 60,0 | 46,0 |
| Heating performance 30 °C / 35 °C (4) | | | | | |
| Heating capacity | kW | 4,00 | 6,00 | 8,00 | 9,50 |
| Input power | kW | 0,78 | 1,20 | 1,70 | 2,07 |
| COP | W/W | 5,13 | 5,00 | 4,71 | 4,59 |
| Water flow rate system side | I/h | 688 | 1032 | 1376 | 1634 |
| Useful head system side | kPa | 74,0 | 66,0 | 51,0 | 36,0 |

- (1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C (4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

Energy data Wall unit

| Indoor unit | | BHP060W | BHP060W | BHP100W | BHP100W | BHP160W | BHP160W | BHP160W |
|--|---------------------|------------------------|-------------|---------|---------|---------|---------|---------|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 | BHP120 | BHP140 | BHP160 |
| UE 811/2013 performance in average ambient | conditions (average |) - 35 °C - Pdesignh ≤ | 70 kW (1) | | | | | |
| Pdesignh | kW | 5 | 6 | 7 | 9 | 11 | 12 | 13 |
| SCOP | W/W | 4,66 | 4,54 | 4,60 | 4,60 | 4,63 | 4,65 | 4,61 |
| ηsh | % | 183,50 | 178,70 | 181,00 | 181,00 | 182,00 | 183,00 | 181,20 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| UE 811/2013 performance in average ambient | conditions (average |) - 55 °C - Pdesignh ≤ | ≤ 70 kW (2) | | | | | |
| Pdesignh | kW | 5 | 5 | 7 | 8 | 11 | 13 | 13 |
| SCOP | W/W | 3,28 | 3,26 | 3,30 | 3,25 | 3,24 | 3,50 | 3,50 |
| ηsh | % | 128,10 | 127,40 | 129,00 | 127,00 | 126,40 | 137,00 | 137,00 |
| Efficiency energy class | | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| Performance as combined heat generator | | | | | | | | |
| Bleeding profile | | XL | XL | XL | XL | XL | XL | XL |
| Efficiency energy class | | A | А | A | A | А | A | A |

- (1) Efficiencies for low temperature applications (35 °C) (2) Efficiencies for average temperature applications (55 °C)

| Indoor unit | | BHP060W | BHP060W | BHP100W | BHP100W | BHP160W | BHP160W | BHP160W |
|--|---------------|---------|---------|---------|---------|---------|---------|---------|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 | BHP120 | BHP140 | BHP160 |
| Cooling capacity with low leaving water temp (UE r | n° 2016/2281) | | | | | | | |
| SEER | W/W | 4,21 | 4,12 | 4,11 | 4,12 | 4,90 | 4,91 | 4,78 |
| ηsc | % | 165,00 | 162,00 | 161,00 | 162,00 | 193,00 | 193,00 | 188,00 |

Three-phase Wall unit energy data

| Indoor unit | | BHP100WT | BHP100WT | BHP160WT | BHP160WT | BHP160WT |
|--|---------------------------|----------------------------|----------|----------|----------|----------|
| Outdoor unit | | BHP080T | BHP100T | BHP120T | BHP140T | BHP160T |
| UE 811/2013 performance in average amb | ient conditions (average) | - 35 °C - Pdesignh ≤ 70 kW | (1) | | | |
| Pdesignh | kW | 8 | 9 | 11 | 12 | 13 |
| SCOP | W/W | 4,53 | 4,70 | 4,48 | 4,48 | 4,45 |
| ηsh | % | 178,10 | 185,20 | 176,00 | 176,00 | 175,00 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ |
| UE 811/2013 performance in average amb | ient conditions (average) | - 55 °C - Pdesignh ≤ 70 kW | (2) | | | |
| Pdesignh | kW | 9 | 10 | 11 | 13 | 13 |
| SCOP | W/W | 3,48 | 3,49 | 3,23 | 3,38 | 3,38 |
| ηsh | % | 136,10 | 136,70 | 126,00 | 132,00 | 132,00 |
| Efficiency energy class | | A++ | A++ | A++ | A++ | A++ |
| Performance as combined heat generator | | | | | | |
| Bleeding profile | | XL | XL | XL | XL | XL |
| Efficiency energy class | | A | A | A | A | A |

(1) Efficiencies for low temperature applications (35 °C) (2) Efficiencies for average temperature applications (55 °C)

| Indoor unit | | BHP100WT | BHP100WT | BHP160WT | BHP160WT | BHP160WT |
|---|------------------------|----------|----------|----------|----------|----------|
| Outdoor unit | | BHP080T | BHP100T | BHP120T | BHP140T | BHP160T |
| Cooling capacity with low leaving water | temp (UE n° 2016/2281) | | | | | |
| SEER | W/W | 4,11 | 4,12 | 4,74 | 4,76 | 4,64 |
| nsc | % | 161.00 | 162.00 | 187.00 | 187.00 | 183,00 |

Energy data base unit

| Indoor unit | | BHP060F | BHP060F | BHP100F | BHP100F |
|--|-----------------------------|-----------------------------|---------|---------|---------|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 |
| UE 811/2013 performance in average ambie | nt conditions (average) - 3 | 5 °C - Pdesignh ≤ 70 kW (1) | | | |
| Pdesignh | kW | 5 | 6 | 7 | 9 |
| SCOP | W/W | 4,66 | 4,54 | 4,60 | 4,60 |
| ηsh | % | 183,50 | 178,70 | 181,00 | 181,00 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ |
| UE 811/2013 performance in average ambie | nt conditions (average) - 5 | 5 °C - Pdesignh ≤ 70 kW (2) | | | |
| Pdesignh | kW | 5 | 5 | 7 | 8 |
| SCOP | W/W | 3,28 | 3,26 | 3,30 | 3,25 |
| ηsh | % | 128,10 | 127,40 | 129,00 | 127,00 |
| Efficiency energy class | | A++ | A++ | A++ | A++ |
| Performance as combined heat generator | | | | | |
| Bleeding profile | | L | L | L | L |
| Efficiency energy class | | A | A | A | A |

(1) Efficiencies for low temperature applications (35 °C)
 (2) Efficiencies for average temperature applications (55 °C)

| Indoor unit | | BHP060F | BHP060F | BHP100F | BHP100F | | |
|--|-----|---------|---------|---------|---------|--|--|
| Outdoor unit | | BHP040 | BHP060 | BHP080 | BHP100 | | |
| Cooling capacity with low leaving water temp (UE n° 2016/2281) | | | | | | | |
| SEER | W/W | 4,21 | 4,12 | 4,11 | 4,12 | | |
| ηςς | % | 165,00 | 162,00 | 161,00 | 162,00 | | |

INDOOR UNIT

BHP_W indoor wall unit

| | | BHP060W | BHP100W | BHP160W |
|---|-------|---------|--------------|---------|
| Electric data | | | | |
| Rated power input (1) | kW | 3,1 | 6,1 | 6,1 |
| Electric heater | | | | |
| Number | no. | 2 | 2 | 2 |
| Power of the single heater | kW | 1,50 | 3,00 | 3,00 |
| System side heat exchanger | | | | |
| Туре | type | | Brazed plate | |
| Number | no. | 1 | 1 | 1 |
| Unit / system input | type | | G1 male | |
| Unit / system output | type | | G1 male | |
| DHW output | type | | G1 male | |
| Circulator | | | | |
| Quantity | no. | 1 | 1 | 1 |
| Motor | type | | DC brushless | |
| Expansion vessel | | | | |
| Number | no. | 1 | 1 | 1 |
| Volume | I | 10,0 | 10,0 | 10,0 |
| Maximum pressure | bar | 2,5 | 2,5 | 2,5 |
| Sound data calculated in cooling mode (2) | | | | |
| Sound power level | dB(A) | 42,0 | 42,0 | 42,0 |
| Sound pressure | dB(A) | 14,0 | 14,0 | 14,0 |
| Power supply | | | | |
| Power supply | | | 230V ~ 50Hz | |

Three-phase wall unit BHP_WT

| | | BHP100WT | | BHP160WT | |
|--|-------|----------|----------------|----------|--|
| Electric data | | | | | |
| Rated power input (1) | kW | 6,1 | | 6,1 | |
| Electric heater | | | | | |
| Number | no. | 2 | | 2 | |
| Power of the single heater | kW | 3,00 | | 3,00 | |
| System side heat exchanger | | | | | |
| Туре | type | | Brazed plate | | |
| Number | no. | 1 | | 1 | |
| Unit / system input | type | | G1 male | | |
| Unit / system output | type | | G1 male | | |
| DHW output | type | | G1 male | | |
| Circulator | | | | | |
| Quantity | no. | 1 | | 1 | |
| Motor | type | | DC brushless | | |
| Expansion vessel | | | | | |
| Number | no. | 1 | | 1 | |
| Volume | | 10,0 | | 10,0 | |
| Maximum pressure | bar | 2,5 | | 2,5 | |
| Sound data calculated in cooling mode (2 |) | | | | |
| Sound power level | dB(A) | 42,0 | | 42,0 | |
| Sound pressure | dB(A) | 14,0 | | 14,0 | |
| Power supply | | | | | |
| Power supply | | | 400V ~ 3N 50Hz | | |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

BHP_F indoor base unit

| | | BHP060F | BHP100F | |
|--|-------|---------|--------------|--|
| Electric data | | | | |
| Rated power input (1) | kW | 3,1 | 6,1 | |
| Electric heater | | | | |
| Number | no. | 2 | 2 | |
| Power of the single heater | kW | 1,50 | 3,00 | |
| System side heat exchanger | | | | |
| Туре | type | | Brazed plate | |
| Number | no. | 1 | 1 | |
| Unit / system input | type | | G1 male | |
| Mains water input | type | | G1 male | |
| Unit / system output | type | | G1 male | |
| DHW output | type | | G1 male | |
| Circulator | | | | |
| Quantity | no. | 1 | 1 | |
| Motor | type | | DC brushless | |
| Expansion vessel | | | | |
| Number | no. | 1 | 1 | |
| Volume | | 10,0 | 10,0 | |
| Maximum pressure | bar | 2,5 | 2,5 | |
| Sound data calculated in cooling mode (2 |) | | | |
| Sound power level | dB(A) | 42,0 | 42,0 | |
| Sound pressure | dB(A) | 14,0 | 14,0 | |
| Power supply | | | | |
| Power supply | | · | 230V ~ 50Hz | |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

OUTDOOR UNIT

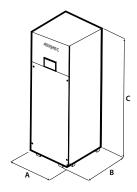
| Electric data | | BHP040 | BHP060 | BHP080 | BHP080T | BHP100 | BHP100T |
|--|---|--|---------------------------------------|---|--|-------------------------------------|-------------------------------------|
| ated current input (1) | A | 10,0 | 10,0 | 19,0 | 7,5 | 22,0 | 7,5 |
| ompressor | | 10,0 | 10,0 | 17,0 | 7,3 | 22,0 | 7,5 |
| ype | type | | | Rotativo doppio | stadio inverter | | |
| lumber | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuits | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| lefrigerant | type | | | | 32 | | • |
| lefrigerant charge | kg | 1,00 | 1,00 | 1,60 | 1,84 | 1,60 | 1,84 |
| otential global heating | GWP | 1,00 | 1,00 | 675kg | | 1,00 | 1,01 |
| Dil | GWI | | | 07510 | cozcq | | |
| уре | type | | | FW6 | AΠΑ | | |
| Quantity | l l | 0,47 | 0,47 | 0,84 | 0,84 | 0,84 | 0,84 |
| Refrigeration pipework | | υ,τι | 0,77 | 0,04 | 0,04 | 0,01 | 0,01 |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 | 1///") | | |
| Diameter of refrigerant gas connections | mm (inch) | | | 12,7 | | | |
| | min (man) | | | 12,7 | (1/2) | | |
| xchanger | tuno | | | Finns | d coil | | |
| /pe | type | | | | d coil | | |
| ouvers type | type | 1 | 1 | Gold | | | |
| umber | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| xpansion vessel | | | | | | | |
| ype | type | | | | pansion valve | | |
| umber | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| an | | | | | | | |
| ype | type | | | Invert | | | |
| an motor | type | | | DC bru | ishless | | |
| umber | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| ir flow rate | m³/h | 3200 | 3200 | 3300 | 3300 | 3300 | 3300 |
| ound data calculated in cooling mode (2) | | | | | | | |
| ound power level | dB(A) | 62,0 | 62,0 | 67,0 | 68,0 | 68,0 | 68,0 |
| ound pressure level (1 m) | dB(A) | 52,0 | 52,0 | 55,0 | 55,0 | 55,0 | 55,0 |
| ound pressure level (10 m) | dB(A) | 34,0 | 34,0 | 39,0 | 40,0 | 40,0 | 40,0 |
| ower supply | | | | | | | |
| ower supply | | | 230V ~ 50Hz | | 400V 3N ~ 50Hz | 230V ~ 50Hz | 400V 3N ~ 50H |
| | | BHP120 | BHP120T | BHP140 | BHP140T | BHP160 | BHP160T |
| lectric data | | DIII 120 | DIII 1201 | DIII 140 | DIII 1401 | DIII 100 | DIII 1001 |
| ated current input (1) | A | 25,6 | 9,2 | 28,7 | 11,5 | 30,3 | 11,5 |
| ompressor | | 25,0 | 7/2 | 20,1 | ,5 | 50/5 | ,5 |
| ype | type | | | Rotativo donnio | stadio inverter | | |
| lumber | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| ircuits | no. | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | 32 | ı | |
| | type | 1,84 | 1,84 | 1,84 | 1,84 | 1,84 | 1,84 |
| | | 1.04 | | | 1,04 | 1,04 | |
| efrigerant charge | kg | ., | ., | | | , | 1,07 |
| efrigerant charge otential global heating | kg GWP | .,,- : | .,,,,, | 675kg | | , | 1,01 |
| efrigerant charge otential global heating il | GWP | .,, | ., | 675kg | CO₂eq | , | 1,04 |
| efrigerant charge otential global heating il rpe | | | | 675kg FW6 | CO ₂ eq | 405 | |
| efrigerant charge otential global heating il ype uantity | GWP | 1,05 | 1,05 | 675kg | CO₂eq | 1,05 | 1,05 |
| efrigerant charge otential global heating il ype uantity efrigeration pipework | GWP type | | | 675kg FW6 1,05 | CO ₂ eq 8DA 1,05 | 1,05 | |
| efrigerant charge il //P //P //P uantity efrigeration pipework iameter of liquid refrigerant connections | GWP type I mm (inch) | 1,05 | 1,05 | 675kg FW6 | CO ₂ eq | | |
| efrigerant charge it it rpe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections | GWP type | | 1,05 | 675kg FW6 1,05 | CO ₂ eq 8DA 1,05 | | |
| efrigerant charge il ip pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections iameter of refrigerant gas connections | type I mm (inch) mm (inch) | 1,05 | 1,05 | 675kg FW6 1,05 | (O ₂ eq 18DA 1,05 (1/4") 15,87 | | |
| efrigerant charge il ip pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections iameter | GWP type I mm (inch) | 1,05 | 1,05 | 675kg FW6 1,05 6,35 i | (O ₂ eq 18DA 1,05 (1/4") 15,87 | | |
| efrigerant charge il ip pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections iameter | type I mm (inch) mm (inch) | 1,05 | 1,05 | 675kg FW6 1,05 6,35 i | (O ₂ eq 18DA 1,05 (1/4") 15,87 | | |
| efrigerant charge otential global heating il /pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections xchanger /pe ouvers type umber | type I mm (inch) mm (inch) | 1,05 | 1,05 | 675kg FW6 1,05 6,35 i | (O ₂ eq 18DA 1,05 (1/4") 15,87 | | |
| efrigerant charge otential global heating il /pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections xchanger /pe ouvers type umber | type I mm (inch) mm (inch) type type | 1,05 | 1,05 (1/2°) | 675kg FW6 1,05 6,35 i | (O ₂ eq 1,05 1,05 15,87 d coil en fin | (5/8") | 1,05 |
| efrigerant charge il ipe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections iameter of refrigerant gas connections exchanger ipe uvers type umber expansion vessel | type I mm (inch) mm (inch) type type | 1,05 | 1,05 (1/2°) | 675kg FW6 1,05 6,35 l | (O ₂ eq 1,05 1,05 15,87 d coil en fin | (5/8") | 1,05 |
| efrigerant charge bential global heating il pe uantity efrigeration pipework tameter of liquid refrigerant connections tameter of refrigerant gas connections exchanger pe buvers type umber kpansion vessel | type I mm (inch) mm (inch) type type no. | 1,05 | 1,05 (1/2°) | 675kg FW6 1,05 6,35 l | (O ₂ eq 1,05 1,05 15,87 d coil en fin 1 | (5/8") | 1,05 |
| efrigerant charge bential global heating il rpe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections ackhanger rpe buvers type umber kpansion vessel rpe | type I mm (inch) mm (inch) type type no. | 1,05 | 1,05 (1/2") | FW6 1,05 6,35 i Finne Goldi 1 | (O ₂ eq 1,05 1,05 15,87 15,87 1 1 1 1 1 1 1 1 1 | (5/8") | 1,05 |
| efrigerant charge bential global heating il tree uantity efrigeration pipework tameter of liquid refrigerant connections tameter of refrigerant gas connections exchanger tree unuers type umber expansion vessel tree umber unuers | type I mm (inch) mm (inch) type type no. type no. | 1,05 | 1,05 (1/2") | FW6 1,05 6,35 i Finne Goldi 1 | (O ₂ eq 1,05 1,05 15,87 15,87 1 1 1 1 1 1 1 1 1 | (5/8") | 1,05 |
| efrigerant charge bential global heating il rpe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections ackhanger rpe buvers type umber kpansion vessel rpe umber an | type I mm (inch) mm (inch) type type no. type no. | 1,05 | 1,05 (1/2") | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 | (O ₂ eq 1,05 1,05 15,87 15,87 1 1 1 1 1 1 1 1 1 | (5/8") | 1,05 |
| efrigerant charge bential global heating il rpe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections ackhanger rpe buvers type umber kpansion vessel rpe umber an rpe | type I mm (inch) mm (inch) type type no. type type type type type | 1,05 | 1,05 (1/2") 1 | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte | 1,05 1,05 1,05 1,05 1,05 1,05 1,05 1,05 | 1 | 1,05 |
| efrigerant charge otential global heating il pe uantity efrigeration pipework ameter of liquid refrigerant connections ameter of refrigerant gas connections echanger pe uuvers type umber epansion vessel pe umber in pe n motor | type I mm (inch) mm (inch) type type no. type no. | 1,05 | 1,05 | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte DC bru 1 | 1,05 1,05 1,05 1,05 1,05 1,05 1,05 1,07 1,05 1,07 1,07 1,07 1,07 1,07 1,07 1,07 1,07 | 1 1 | 1,05 |
| efrigerant charge otential global heating il pe uantity efrigeration pipework ameter of liquid refrigerant connections ameter of refrigerant gas connections cchanger pe uuvers type umber ccpansion vessel pe umber ccpansion vessel pe umber cup connections cchanger pe umber ccpansion vessel pe | type I mm (inch) mm (inch) type type no. type type type type type | 1,05 | 1,05 (1/2") 1 | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte | 1,05 1,05 1,05 1,05 1,05 1,05 1,05 1,05 | 1 | 1,05 |
| efrigerant charge otential global heating il rpe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections ixchanger rpe ouvers type umber ixpe umber ixp | type I mm (inch) mm (inch) type type no. type no. type no. type no. | 1,05 12,7 1 1 1 1 5044 | 1,05 (1/2") 1 1 1 1 5044 | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte DC bru 1 5044 | (O ₂ eq 1,05 1,05 15,87 15,87 1 1 1 1 1 1 1 1 1 | 1 1 1 5044 | 1,05 |
| efrigerant charge otential global heating il /pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections xxchanger //pe ouvers type umber xxpansion vessel //pe umber an //pe an motor umber ir flow rate ound data calculated in cooling mode (2) ound power level | type I mm (inch) mm (inch) type type no. type no. type no. dype type no. dype type no. dype type no. | 1,05 12,7 1 1 1 1 5044 68,0 | 1,05 (1/2") 1 1 1 1 5044 | 675kg FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte DC br. 1 5044 | (1/4") 15,87 d coil en fin 1 pansion valve 1 er axial ushless 1 5044 | 1 1 1 1 5044 | 1,05 1 1 1 5044 68,0 |
| efrigerant charge otential global heating iil //pe uantity efrigeration pipework iameter of liquid refrigerant connections iameter of refrigerant gas connections xxchanger //pe buvers type umber xxpansion vessel //pe umber an //pe an motor umber ir flow rate ound data calculated in cooling mode (2) ound power level ound pressure level ound pressure level (1 m) | type I mm (inch) mm (inch) type type no. type no. type dype no. dype type no. dype type no. dype type no. dype type no. | 1,05 12,7 1 1 1 1 5044 68,0 60,0 | 1,05 (1/2") 1 1 1 5044 68,0 60,0 | FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte DC bru 1 5044 | (CO ₂ eq 1,05 1,05 1,05 1,05 1,05 1,05 1,05 1,05 | 1 1 1 5044 68,0 61,0 | 1,05 1 1 1 5044 68,0 61,0 |
| lefrigerant charge lefrigerant charge lefrigerant charge lotential global heating lit lype luantity lefrigeration pipework literation versuel liter | type I mm (inch) mm (inch) type type no. type no. type no. dype type no. dype type no. dype type no. | 1,05 12,7 1 1 1 1 5044 68,0 | 1,05 (1/2") 1 1 1 1 5044 | 675kg FW6 1,05 6,351 Finne Gold 1 Electronic ex 1 Inverte DC br. 1 5044 | (1/4") 15,87 d coil en fin 1 pansion valve 1 er axial ushless 1 5044 | 1 1 1 1 5044 | 1,05 1 1 1 5044 68,0 |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

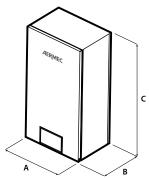
DIMENSIONS AND WEIGHTS

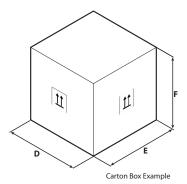
Indoor units and domestic hot water storage tank

BHP_F



BHP_W





BHP_W

| | | BHP060W | BHP100W | BHP160W |
|----------------------|----|---------|---------|---------|
| Indoor unit | | | | |
| A | mm | 460 | 460 | 460 |
| В | mm | 318 | 318 | 318 |
| C | mm | 860 | 860 | 860 |
| D | mm | 568 | 568 | 568 |
| E | mm | 390 | 390 | 390 |
| F | mm | 1133 | 1133 | 1133 |
| Net weight | kg | 62,00 | 62,00 | 58,00 |
| Weight for transport | kg | 71,00 | 71,00 | 71,00 |

BHP_WT

| | | BHP100WT | BHP160WT |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 460 | 460 |
| В | mm | 318 | 318 |
| (| mm | 860 | 860 |
| D | mm | 568 | 568 |
| E | mm | 390 | 390 |
| F | mm | 1133 | 1133 |
| Net weight | kg | 60,00 | 60,00 |
| Weight for transport | kg | 71,00 | 71,00 |

BHP_F

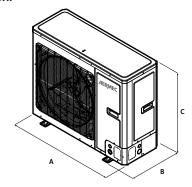
| | | BHP060F | BHP100F |
|----------------------|----|---------|---------|
| Indoor unit | | | |
| A | mm | 600 | 600 |
| В | mm | 600 | 600 |
| C | mm | 1756 | 1756 |
| D | mm | 803 | 803 |
| E | mm | 683 | 683 |
| F | mm | 2000 | 2000 |
| Net weight | kg | 210,00 | 210,00 |
| Weight for transport | kg | 233,00 | 233,00 |

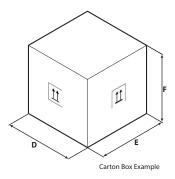
DHWT300S

| | | DHWT300S | |
|------------------------|----|----------|--|
| Dimensions and weights | | | |
| A | mm | 620 | |
| В | mm | 1725 | |
| Net weight | kg | 140,00 | |

Outdoor units

ВНР





ВНР

| ВПР | | | | | | | |
|----------------------|----|--------|---------|--------|---------|--------|---------|
| | | BHP040 | BHP060 | BHP080 | BHP080T | BHP100 | BHP100T |
| Outdoor unit | | | | | | | |
| A | mm | 975 | 975 | 982 | 982 | 982 | 982 |
| 3 | mm | 396 | 396 | 427 | 360 | 427 | 360 |
| | mm | 702 | 702 | 787 | 787 | 787 | 787 |
|) | mm | 1028 | 1028 | 1097 | 1097 | 1097 | 1097 |
| | mm | 458 | 458 | 478 | 478 | 478 | 478 |
| | mm | 830 | 830 | 937 | 937 | 937 | 937 |
| Vet weight | kg | 55,00 | 55,00 | 82,00 | 88,00 | 82,00 | 88,00 |
| Weight for transport | kg | 65,00 | 65,00 | 92,00 | 98,00 | 92,00 | 98,00 |
| | | BHP120 | BHP120T | BHP140 | BHP140T | BHP160 | BHP160T |
| Outdoor unit | | | | | | | |
| 4 | mm | 940 | 940 | 940 | 940 | 940 | 940 |
| 3 | mm | 460 | 460 | 460 | 460 | 460 | 460 |
| | mm | 820 | 820 | 820 | 820 | 820 | 820 |
|) | mm | 1103 | 1103 | 1103 | 1103 | 1103 | 1103 |
| | mm | 573 | 573 | 573 | 573 | 573 | 573 |
| | mm | 973 | 973 | 973 | 973 | 973 | 973 |
| | mm | 7/3 | 713 | ,,, | | | |
| let weight | kg | 104,00 | 110,00 | 104,00 | 110,00 | 104,00 | 110,00 |



















HMG

Reversible air/water heat pump

Cooling capacity 32 ÷ 60 kW Heating capacity 35 ÷ 65 kW



- New R32 ecological refrigerant gas
- Touch-screen control panel
- · Easy and quick to install
- · Reliability and compactness
- Modularity





DESCRIPTION

HMG the new outdoor reversible inverter heat pump system for producing chilled and heated water.

These units are designed to meet the plant engineering needs of residential or commercial contexts, or industrial applications.

HMG formed of fully independent modules that can be linked together to create a modular system, with the possibility to connect units of different power levels.

The base, the structure and the panels are made of galvanized steel treated with polyester paint.

FEATURES

Operating limits

Operation from -20°C outside air temperature (winter) to 52°C (summer).

Production of hot water up to 50 °C.

For more information about the operating limits of these units, refer to the specific paragraph on this product data sheet.

Modularity

HMG an outdoor modular system of reversible inverter heat pumps for producing hot and chilled water, with connectable base modules purposely designed to minimise the overall dimensions. Units of different power levels can be connected.

Modularity allows the installation of these units to be adapted to the real system development requirements, so the installed power can be increased over time in a simple and cost effective manner.

On the basis of these requirements, the user can choose either: **homogeneous modularity** or **sequential modularity**.

Homogeneous modularity

Made possible with the use of a control panel **TCP** (mandatory accessory) to be connected to the master unit of the system.

This type of modularity allows the modules to work with a homogeneous capacity control logic whilst still guaranteeing delay switch-on and switch-off to avoid power consumption peaks and intelligent defrosting (the simultaneous defrosting of up to 1/3 of the modules installed).

Up to 16 modules can be linked together with this operating mode.

To take full advantage of the characteristics of this working mode, you are advised to use it in systems with a pump (or a group of pumps) that serves all the units. The control logic manages the switch-on and switch-off of the pump(s) on the basis of the operating conditions of the generation system.

Sequential modularity

Made possible with the use of accessories TCP, IC-2P, VMF-485LINK and VME-F6

This type of modularity allows the HMG units to be added to the control system of the whole hydraulic/aeraulic system, so DHW can also be managed.

Unit switch-on and switch-off is managed in a sequential manner, according to a selected control logic (free regulation, regulation by load or regulation by temperature difference).

For more information about VMF system, refer to the dedicated documentation

Up to 4 modules can be linked together with this operating mode HMG. Management is optimised for systems where each unit commands its own pump.

Main components

- Flow switch.
- DC brushless axial flow fans designed for aerodynamic optimisation, reducing the noise level whilst at the same time increasing the efficiency and air flow rate.
- Compressor twin rotary inverter.
- Special coil with fin golden coating.
- High-efficiency shell & tube heat exchanger (system side) for excellent reliability and a long lifespan.
- Electronic expansion valve.
- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.

Regulation

Adjustment via **touch-screen control panel (TCP accessory compulsory)**::

- management of (up to) two pumps (not supplied) that can work alternately, boosting the reliability of the system,
- management of (up to) two auxiliary electric resistors (not supplied),
- Quiet function for reduced noise operation,
- climatic regulation function,
- unit anti-freeze protection at low temperatures,
- weekly programming in time periods,
- high and low pressure protection,
- smart compressor control, extending the lifespan of the unit and enhancing its reliability,
- alarm history.

Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



ACCESSORIES

TCP: Touch-screen control panel. (Accessory compulsory).

IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

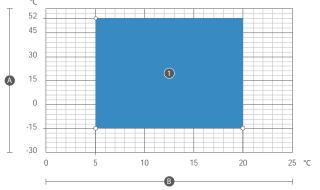
VMF-E6: White flush-mounting panel with 4.3 inch colour touchscreen. For the centralised command/control of a complete hydronic/aeraulic system consisting of: fan coils (up to 64 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (up to 4), MZC accessories (up to 5) for the management of radiant panels (using a suitable number of VMF-REB accessories, up to 64 radiant panels associated with the fan coil zones and up to 32 radiant panels associated with the zones served by MZC), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/Os, control of heat recovery units and VOC probes (up to 4).

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

OPERATING LIMITS

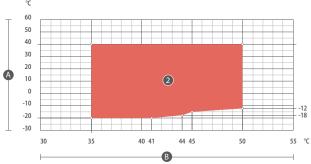
Cooling mode



KEY

- 1 cooling mode
- A outdoor air temperature (°C)
- B water produced temperature (°C)

Heating mode range

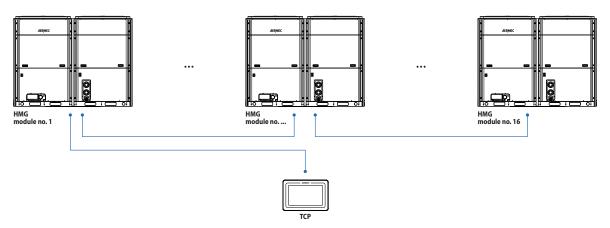


KEY

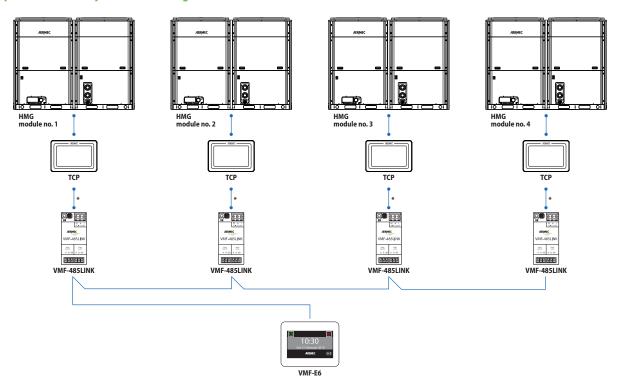
- 2 heating mode
- A outdoor air temperature (°C)
- B water produced temperature (°C)

MODULARITY

Homogeneous modularity - connection diagram



Sequential modularity - connection diagram



^{*} Connection to be made with the aid of the accessory IC-2P.

PERFORMANCE SPECIFICATIONS

| | | HMG0350 | HMG0600 |
|---------------------------------------|-----|---------|---------|
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | kW | 32,0 | 60,0 |
| Input power | kW | 11,7 | 20,8 |
| Water flow rate system side | l/h | 5528 | 10346 |
| Pressure drop system side | kPa | 80 | 55 |
| Cooling total input current | A | 19,2 | 32,9 |
| EER | W/W | 2,74 | 2,88 |
| Heating performance 40 °C / 45 °C (2) | | | |
| Heating capacity | kW | 35,0 | 65,0 |
| Input power | kW | 10,6 | 19,9 |
| Water flow rate system side | l/h | 6039 | 11249 |
| Heating total input current | A | 17,5 | 30,7 |
| COP | W/W | 3,30 | 3,27 |
| Cooling performance 23 °C / 18 °C (3) | | | |
| Cooling capacity | kW | 41,4 | 72,5 |
| Input power | kW | 10,5 | 19,1 |
| Water flow rate system side | l/h | 7198 | 12574 |
| Cooling total input current | A | 16,2 | 31,0 |
| EER | W/W | 3,94 | 3,80 |
| Heating performance 30 °C / 35 °C (4) | | | |
| Heating capacity | kW | 36,0 | 62,6 |
| Input power | kW | 8,8 | 15,1 |
| Water flow rate system side | l/h | 6191 | 10798 |
| Heating total input current | A | 12,4 | 24,2 |
| COP | W/W | 4,09 | 4,15 |

ENERGY DATA

| | | HMG0350 | HMG0600 |
|---------------------------------------|--|-------------------|---------|
| UE 811/2013 performance in average | ambient conditions (average) - 35 °C - Pde | signh ≤ 70 kW (1) | |
| Pdesignh | kW | 24 | 51 |
| SCOP | W/W | 3,90 | 3,90 |
| ηsh | % | 153,00 | 153,00 |
| Efficiency energy class | | A++ | A++ |
| Cooling capacity with low leaving wat | er temp (UE n° 2016/2281) | | |
| ηςς | % | 173,00 | 181,00 |
| SEER | W/W | 4,40 | 4,60 |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| | | HMG0350 | HMG0600 |
|-------------------------|---|--------------------|--------------------|
| Electric data | | | |
| Rated current input (1) | A | 22,0 | 52,0 |
| Power supply | | | |
| Power supply | | 380-415V 3N ~ 50Hz | 380-415V 3N ~ 50Hz |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

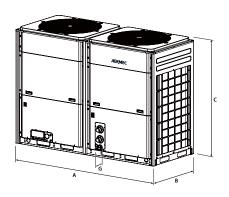
⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Data EN 14511:2022; System side water heat exchanger 23 °C / 18 °C; External air 35 °C (4) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

GENERAL TECHNICAL DATA

| | | HMG0350 | HMG0600 |
|--|-------|---------------|-----------------|
| Compressor | | | |
| Туре | type | | Inverter rotary |
| Number | no. | 1 | 2 |
| Circuits | no. | 1 | 2 |
| Refrigerant | type | | R32 |
| Refrigerant charge | kg | 5,50 | 11,00 |
| System side heat exchanger | | | |
| Туре | type | | Shell and tube |
| Number | no. | 1 | 1 |
| Connections (in/out) | Туре | G1"1/2 (male) | G2" (male) |
| Fan | | | |
| Туре | type | | Axial |
| Fan motor | type | | Inverter |
| Number | no. | 2 | 2 |
| Air flow rate | m³/h | 12600 | 24000 |
| Sound data calculated in cooling mode (1 |) | · | |
| Sound power level | dB(A) | 81,0 | 86,0 |
| Sound pressure level (10 m) | dB(A) | 49,5 | 54,3 |
| Sound pressure level (1 m) | dB(A) | 65,0 | 69,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| | | HMG0350 | HMG0600 |
|------------------------|----|---------|---------|
| Dimensions and weights | | | |
| A | mm | 1340 | 2200 |
| В | mm | 765 | 880 |
| (| mm | 1605 | 1675 |
| G | mm | 80 | 85 |
| D | mm | 1420 | 2267 |
| E | mm | 920 | 1030 |
| F | mm | 1775 | 1867 |
| Net weight | kg | 405,00 | 686,00 |
| Weight for transport | kg | 422,00 | 722,00 |

G: tap protrusion

























Reversible air/water heat pump

Cooling capacity 29,0 ÷ 42,3 kW Heating capacity 31,4 ÷ 33,3 kW



- Version with built-in hydronic kit inverter
- · High efficiency also at partial loads
- Production of hot domestic water (d.H.W.)





DESCRIPTION

Reversible inverter heat pump for outdoor use suitable for responding to heating / cooling requests and the production of domestic hot water. Equipped with inverter compressor, axial fans, external copper coils with aluminum fins, plate heat exchanger on the system side.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

It can be combined in systems with hydronic terminals or even with traditional radiators and perfectly meets the needs of the residential market: low noise, easy installation.

VERSIONS

° Standard

P With on/off pump

X With inverter pump

FEATURES

Operating field

Work at full load up to 42 $^{\circ}$ C outside air temperature in the summer season with the possibility of producing hot water up to 60 $^{\circ}$ C (for more details refer to the technical documentation).

Components

- High efficiency scroll and Twin rotary compressors with permanent magnet DC motors of "high side" type (with high pressure casing), designed for variable speed operation
- Differential pressure switch / flow switch as standard
- Water filter
- High efficiency heat exchangers
- Axial flow fan units for extremely quiet operation
- Fitted with EMC filters

Integrated hydronic kit

The built-in hydraulic kit includes:

- Expansion vessel
- Safety valve water side
- Air vent valve

Inverter pumps variable speed pump with water side pressure transducer installed and unit mounted microprocessor, capable of controlling various operating modes:

- ΔP constant: the differential pressure between pump inlet and outlet is kept constant, the number of revolutions is reduced with the progressive closing of the terminals;
- ΔP variable: the differential pressure is reduced as the flow rate decreases, to take into account the lower pressure drops along the supply pipes to the terminals (recommended if the development of these pipes is high).

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

- Capable of variable water flow rates on primary circuit (terminals with 2-way valves);
- Perfect water temperature control even in systems with low water content:
- Suitable for heat pump mode summer operation to provide domestic hot water (DHW) with the DCPX fan speed controller accessory (when provided).

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SAF: Thermal buffer tank kit with instantaneous Domestic Hot Water production. For more information about SAF refer to the dedicated documentation.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Antivibration supports

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

■ NB: if the SAF thermo-accumulator is used, the MOD485-BL accessory is not required.

FACTORY FITTED ACCESSORIES

KR: Anti-freeze electric heater for the plate heat exchanger.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 101 |
|--------------|-------|-----|
| AERLINK | °,P,X | • |
| AERSET | °,P,X | • |
| MODU-485BL | °,P,X | • |
| MULTICONTROL | °,P,X | • |
| PR3 | °,P,X | • |
| SAF (1) | °,P,X | • |
| SDHW (2) | °,P,X | • |
| SPLW (3) | °,P,X | • |
| VMF-CRP | °,P,X | • |

- (1) For more information about SAF refer to the dedicated documentation.
 (2) Probe required for MULTICONTROL for managing the domestic hot water system.
 (3) Probe required for MULTICONTROL to manage the secondary circuit system.

BSKW: Electric heater kit

| Model | Ver | 101 |
|-----------|-------|-----|
| BS6KW400T | °,P,X | • |
| BS9KW400T | °,Р,Х | • |

DCPX: Condensation control temperature

| Ver | 101 | |
|-------|--------|--|
| °,Р,Х | DCPX53 | |

VT: Antivibration

| Ver | 101 |
|-------|------|
| °,P,X | VT15 |

KR: electric heater for the heat exchanger

| Ver | 101 |
|-------|-------|
| °,P,X | KR100 |

A grey background indicates the accessory must be assembled in the factory

KRB: Electric heater for the base

| Ver | 101 | |
|-------|----------|--|
| °,P,X | KRB3 (1) | |

⁽¹⁾ Incompatible with the condensate collection basin accessory with integrated resistance.

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|---|
| 1,2,3,4 | ANLI |
| 5,6,7 | Size 101 |
| 8 | Model |
| Н | Heat pump |
| 9 | Version |
| 0 | Standard |
| Р | With on/off pump |
| Χ | With inverter pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| 11 | Coils |
| ٥ | Alluminium |
| R | Copper pipes-copper fins |
| S | Tinned copper |
| V | Copper pieps-Coated aluminium fins |
| 12 | Operating field (1) |
| 0 | Electronic thermostatic expansion valve |
| 13 | Evaporator |
| 0 | Standard |
| 14 | Power supply |
| T | 400V 3N ~ 50Hz |

⁽¹⁾ Water produced up to $+4\,^{\circ}\text{C}$. For different temperature please contact the factory.

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

ANLI - (H°)

| ` ' | | |
|-------------------------------------|-----|------|
| Size | | 101 |
| Cooling performance 12 °C/7 °C (1) | | |
| Cooling capacity | kW | 29,0 |
| Input power | kW | 11,5 |
| Cooling total input current | A | 16,0 |
| EER | W/W | 2,53 |
| Water flow rate system side | l/h | 4986 |
| Pressure drop system side | kPa | 50 |
| Heating performance 40 °C/45 °C (2) | | |
| Heating capacity | kW | 31,4 |
| Input power | kW | 11,1 |
| Heating total input current | A | 16,0 |
| COP | W/W | 2,83 |
| Water flow rate system side | l/h | 5458 |
| Pressure drop system side | kPa | 59 |

ANLI - (HX)

| Size | | 101 |
|---------------------------------------|-----|-------|
| Cooling performance 12 °C/7 °C(1) | | |
| Cooling capacity | kW | 29,0 |
| Input power | kW | 12,4 |
| Cooling total input current | A | 18,0 |
| EER | W/W | 2,33 |
| Water flow rate system side | l/h | 4986 |
| Useful head system side | kPa | 175,0 |
| Heating performance 40 °C / 45 °C (2) | | |
| Heating capacity | kW | 31,4 |
| Input power | kW | 12,1 |
| Heating total input current | A | 17,0 |
| COP | W/W | 2,59 |
| Water flow rate system side | l/h | 5458 |
| Useful head system side | kPa | 158,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ANLI - (HP)

| Size | | 101 |
|---------------------------------------|-----|------|
| Cooling performance 12 °C/7 °C (1) | | |
| Cooling capacity | kW | 29,0 |
| Input power | kW | 12,1 |
| Cooling total input current | A | 17,0 |
| EER | W/W | 2,40 |
| Water flow rate system side | l/h | 4986 |
| Useful head system side | kPa | 92,0 |
| Heating performance 40 °C / 45 °C (2) | | |
| Heating capacity | kW | 31,4 |
| Input power | kW | 11,8 |
| Heating total input current | A | 17,0 |
| COP | W/W | 2,67 |
| Water flow rate system side | l/h | 5458 |
| Useful head system side | kPa | 76,0 |

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

ANLI - (H°)

| | 101 |
|-----|------------------------------|
| | |
| kW | 42,3 |
| kW | 13,1 |
| A | 19,0 |
| W/W | 3,22 |
| l/h | 7301 |
| kPa | 107 |
| | |
| kW | 33,3 |
| kW | 9,5 |
| A | 13,0 |
| W/W | 3,51 |
| l/h | 5763 |
| kPa | 66 |
| | kW A W/W I/h kPa kW kW A W/W |

ANLI - (HX)

| Size | | 101 |
|---|-----|--------------|
| Cooling performance 23 °C / 18 °C (1) | | |
| Cooling capacity | kW | 42,3 |
| Input power | kW | 14,3 |
| Cooling total input current | A | 21,0 |
| EER | W/W | 2,96 |
| Water flow rate system side | l/h | 7301 |
| Useful head system side | kPa | 81,0 |
| Heating performance 30 °C / 35 °C (2) | | |
| Heating capacity | kW | 33,3 |
| Input power | kW | 10,5 |
| Heating total input current | A | 15,0 |
| COP | W/W | 3,17 |
| Water flow rate system side | l/h | 5763 |
| Useful head system side | kPa | 147,0 |
| (1) Data EN 14511-2022. Contain aids contain hard configuration 22 90 / 10 90. Festivated air 25 90 | | ' |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

ANLI - (HP)

| Size | | 101 |
|---------------------------------------|-----|-------|
| Cooling performance 23 °C / 18 °C (1) | | |
| Cooling capacity | kW | 42,3 |
| Input power | kW | 14,3 |
| Cooling total input current | A | 21,0 |
| EER | W/W | 2,96 |
| Water flow rate system side | l/h | 7301 |
| Useful head system side | kPa | 81,0 |
| Heating performance 30 °C/35 °C (2) | | |
| Heating capacity | kW | 33,3 |
| Input power | kW | 10,5 |
| Heating total input current | A | 15,0 |
| COP | W/W | 3,17 |
| Water flow rate system side | l/h | 5763 |
| Useful head system side | kPa | 147,0 |

ENERGY DATA

| Size | | | 101 |
|---------------------------------|--------------------------------------|------------------------------|--------|
| Cooling capacity with low leavi | ng water temp (UE n° 2016/2281) | | |
| SEER | 0 | W/W | 3,81 |
| SEEK | P,X | W/W | 3,57 |
| nce | 0 | % | 149,20 |
| ηςς | P,X | % | 139,80 |
| UE 811/2013 performance in av | erage ambient conditions (average) - | 35 °C - Pdesignh ≤ 70 kW (1) | |
| Ddacianh | °,X | kW | 29 |
| Pdesignh | P | kW | 30 |
| SCOP | °,X | W/W | 3,23 |
| | Р | W/W | 3,25 |
| ηsh | °,X | % | 126,00 |
| | P | % | 127,00 |
| Efficiency energy class | °,P,X | | A+ |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| Size | | | 101 |
|-----------------------|-------|---|------|
| Electric data | | | |
| | 0 | A | 21,0 |
| Maximum current (FLA) | Р | A | 24,4 |
| | Χ | A | 25,5 |
| Peak current (LRA) | °,P,X | A | - |

GENERAL TECHNICAL DATA

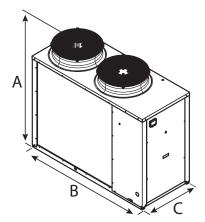
| Size | | | 101 |
|---|---|-----------------------------------|--------------|
| Compressor | | | |
| Туре | °,P,X | type | Scroll |
| Number | °,P,X | no. | 1 |
| Compressor regulation | °,P,X | Туре | Inverter |
| Circuits | °,P,X | no. | 1 |
| Refrigerant | °,P,X | type | R410A |
| Refrigerant charge (1) | °,P,X | kg | 4,5 |
| System side heat exchanger | | | |
| Туре | °,P,X | type | Brazed plate |
| Number | °,P,X | no. | 1 |
| Hydraulic connections | | | |
| Connections (in/out) | °,P,X | Туре | Gas - F |
| Sizes (in/out) | °,P,X | Ø | 1″1/4 |
| Fan | | | |
| Туре | °,P,X | type | Axial |
| Fan motor | °,P,X | type | On/Off |
| Number | °,P,X | no. | 2 |
| Air flow rate | °,P,X | m³/h | 13200 |
| Sound data calculated in cooling r | node (2) | · | |
| Sound power level | °,P,X | dB(A) | 76,0 |
| Sound pressure level (10 m) | °,P,X | dB(A) | 44,5 |
| (a) Tl. 1. 11. 12. 1. 11. 11. 11. 11. 11. 11. | 21 2 1 1 12 1 1 2 1 2 1 2 1 2 1 2 1 2 1 | 9 6 1 1 64 65 31 153 153 1 31 373 | |

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 101 |
|------------------------|-------|----|------|
| Dimensions and weights | | | |
| A | °,P,X | mm | 1450 |
| В | °,P,X | mm | 1750 |
| C | °,P,X | mm | 750 |
| Furniture: als | 0 | kg | 293 |
| Empty weight | P,X | kg | 308 |

Numero Verde 800-843085























ANK 020-150

Reversible air/water heat pump

Cooling capacity 6,8 ÷ 39,8 kW Heating capacity 8,0 ÷ 35,3 kW



- Production of hot water up to 60 °C
- Production of hot domestic water with external temperatures from -20 °C up to 42 °C
- Compact dimensions
- Quick & easy installation





DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators.

Equipped with scroll compressors, axial fans, external coil with aluminium louvers, plate heat exchanger on the side.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

P With pump

FEATURES

Operating field

Working at full load up to -20° C outside air temperature in winter, and up to 46° C in summer. Possibility production technical hot water production up to 60° C (for more information see the technical documentation).

Soft-start

Version with Integrated hydronic kit

To have a Plug & Play solution is also available the version with the integrated Hydronic group that contains the main hydraulic components including the water filter.

Inverter fan

Inverter fans as standard in size up 020 to 085 in all versions.

■ The DCPX accessory is not required for these sizes.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Antivibration supports

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

KRB: -

BDX: Condensate drip with resistance

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

ACCESSORIES COMPATIBILITY

| Model | Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| AERLINK | °,A,P | • | • | • | • | • | • | • | • |
| AERSET | °,A,P | • | • | | • | • | • | • | • |
| MODU-485BL | °,A,P | • | • | • | • | • | • | • | • |
| MULTICONTROL | °,A,P | • | • | • | • | | • | | • |
| PR3 | °,A,P | • | • | • | • | • | • | • | • |
| SDHW (1) | °,A,P | • | • | • | • | • | • | • | • |
| SPLW (2) | °,A,P | • | • | | • | • | • | • | • |
| VMF-CRP | °,A,P | • | • | • | • | • | • | • | |

Probe required for MULTICONTROL for managing the domestic hot water system.
 Probe required for MULTICONTROL to manage the secondary circuit system.

| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|-------|-----|-----|-----|-----|-----|-----|--------|--------|
| °,A,P | - | - | - | - | - | - | DCPX53 | DCPX53 |

The accessory cannot be fitted on the configurations indicated with -

| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|-----------------|------------|------------|------------|------------|------------|------------|--------------|--------------|
| Power supply: ° | | | | | | | | |
| 0 A D | BS6KW400T, | BS6KW400T, |
| °,A,P | BS9KW400T | BS9KW400T |
| Power supply: M | | | | | | | | |
| 0 A D | BS4KW230M, | BS4KW230M, | BS4KW230M, | | | | | |
| °,A,P | BS6KW230M | BS6KW230M | BS6KW230M | - | - | - | - | - |
| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
| °,P | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 |
| A | VT15A | VT15A | VT15A | VT15A | VT15A | VT15A | VT15 | VT15 |
| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
| Power supply: ° | | | | | | | | |
| °,A,P | DRE5 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|
| °,A,P | KRB1 (1) | KRB2 (1) | KRB3 (1) | KRB3 (1) |

 $(1) \ \ In compatible \ with \ the \ condensate \ collection \ basin \ accessory \ with \ integrated \ resistance.$

| A grey background indicates the accesso | ry must be assembled in the | e factory | | | | | | |
|---|-----------------------------|-----------|------|------|------|------|-----|-----|
| Ver | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
| °,A,P | BDX8 | BDX9 | BDX9 | BDX9 | BDX9 | BDX9 | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|-------|---|
| 1,2,3 | ANK |
| 4,5,6 | Size 020, 030, 040, 045, 050, 085, 100, 150 |
| 7 | Model |
| Н | Heat pump |
| 8 | Version |
| 0 | Standard |
| A | With storage tank and pump |
| Р | With pump |
| 9 | Execution |
| 0 | Standard |
| 10 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Υ | Low temperature mechanic thermostatic valve (2) |
| Z | Low temperature electronic thermostatic valve (3) |
| 12 | Evaporator |
| 0 | Standard |
| 13 | Power supply |
| 0 | 400V 3N ∼ 50Hz (4) |
| М | 230V ~ 50Hz (5) |

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

ANK - (°) / 12/7 °C - 40/45 °C

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|
| Power supply: ° | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 6,8 | 8,2 | 10,5 | 11,6 | 13,1 | 15,5 | 25,3 | 29,3 |
| Input power | kW | 2,3 | 2,8 | 3,5 | 4,0 | 4,3 | 5,2 | 8,1 | 10,0 |
| Cooling total input current | A | 4,3 | 5,6 | 7,1 | 7,7 | 8,7 | 11,0 | 17,0 | 20,0 |
| EER | W/W | 2,93 | 2,91 | 2,98 | 2,93 | 3,03 | 3,00 | 3,12 | 2,92 |
| Water flow rate system side | l/h | 1169 | 1406 | 1811 | 1997 | 2253 | 2677 | 4362 | 5056 |
| Pressure drop system side | kPa | 16 | 9 | 16 | 14 | 18 | 24 | 32 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,0 | 10,0 | 12,2 | 14,0 | 15,3 | 17,4 | 27,1 | 33,3 |
| Input power | kW | 2,5 | 3,1 | 3,8 | 4,2 | 4,4 | 5,0 | 8,3 | 10,5 |
| Heating total input current | A | 4,7 | 6,2 | 7,6 | 8,0 | 9,0 | 10,0 | 18,0 | 21,0 |
| COP | W/W | 3,21 | 3,24 | 3,25 | 3,38 | 3,48 | 3,46 | 3,24 | 3,19 |
| Water flow rate system side | I/h | 1376 | 1738 | 2117 | 2430 | 2656 | 3021 | 4689 | 5774 |
| Pressure drop system side | kPa | 22 | 14 | 22 | 21 | 25 | 31 | 37 | 47 |
| Power supply: M | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 6,8 | 8,2 | 9,6 | 11,7 | - | - | - | - |
| Input power | kW | 2,3 | 2,8 | 3,2 | 3,7 | - | - | - | - |
| Cooling total input current | A | 11,0 | 13,0 | 16,0 | 19,0 | - | - | - | - |
| EER | W/W | 2,92 | 2,91 | 2,97 | 3,16 | - | - | - | - |
| Water flow rate system side | l/h | 1179 | 1406 | 1649 | 2018 | - | - | - | - |
| Pressure drop system side | kPa | 16 | 9 | 14 | 14 | - | - | - | - |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,0 | 10,0 | 10,9 | 13,5 | - | - | - | - |
| Input power | kW | 2,5 | 3,1 | 3,4 | 3,8 | - | - | - | - |
| Heating total input current | A | 12,0 | 15,0 | 17,0 | 19,0 | - | - | - | - |
| COP | W/W | 3,16 | 3,24 | 3,15 | 3,50 | - | - | - | - |
| Water flow rate system side | l/h | 1376 | 1738 | 1881 | 2332 | - | - | - | - |
| Pressure drop system side | kPa | 22 | 14 | 18 | 19 | - | - | - | - |

⁽¹⁾ Water produced up to +4 °C (2) Water produced from 0 °C \div -8 °C (3) Water produced from +4 °C up to +0 °C

⁽⁴⁾ For ANK 020 ÷ 045 sizes (5) Only for ANK 020 ÷ 045 sizes

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ANK - (A/P) / 12/7 °C - 40/45 °C

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|---------------------------------------|-----|------|------|------|------|------|------|-------|-------|
| Power supply: ° | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 6,9 | 8,2 | 10,6 | 11,7 | 13,2 | 15,7 | 25,6 | 29,7 |
| Input power | kW | 2,3 | 2,8 | 3,5 | 4,0 | 4,3 | 5,2 | 8,2 | 10,4 |
| Cooling total input current | Α | 4,9 | 6,2 | 7,8 | 8,7 | 9,8 | 12,0 | 18,0 | 22,0 |
| EER | W/W | 3,00 | 2,97 | 3,05 | 2,95 | 3,06 | 3,03 | 3,12 | 2,87 |
| Water flow rate system side | l/h | 1169 | 1406 | 1811 | 1997 | 2253 | 2677 | 4362 | 5056 |
| Useful head system side | kPa | 78,0 | 82,0 | 70,0 | 81,0 | 74,0 | 63,0 | 115,0 | 144,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 7,9 | 9,9 | 12,1 | 13,9 | 15,2 | 17,3 | 26,8 | 33,0 |
| Input power | kW | 2,4 | 3,0 | 3,7 | 4,2 | 4,4 | 5,0 | 8,4 | 10,8 |
| Heating total input current | A | 5,3 | 6,9 | 8,3 | 9,1 | 10,0 | 12,0 | 19,0 | 23,0 |
| COP | W/W | 3,22 | 3,26 | 3,27 | 3,35 | 3,46 | 3,44 | 3,18 | 3,05 |
| Water flow rate system side | I/h | 1376 | 1738 | 2117 | 2430 | 2656 | 3021 | 4689 | 5774 |
| Useful head system side | kPa | 72,0 | 76,0 | 61,0 | 68,0 | 59,0 | 50,0 | 105,0 | 109,0 |
| Power supply: M | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 6,9 | 8,2 | 9,7 | 11,8 | - | - | - | - |
| Input power | kW | 2,3 | 2,8 | 3,2 | 3,7 | - | - | - | - |
| Cooling total input current | A | 12,0 | 14,0 | 16,0 | 20,0 | - | - | - | - |
| EER | W/W | 2,99 | 2,96 | 3,02 | 3,17 | - | - | - | - |
| Water flow rate system side | l/h | 1179 | 1406 | 1649 | 2018 | - | - | - | - |
| Useful head system side | kPa | 78,0 | 71,0 | 62,0 | 70,0 | - | - | - | - |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 7,9 | 9,9 | 10,8 | 13,4 | - | - | - | - |
| Input power | kW | 2,5 | 3,1 | 3,4 | 3,9 | - | - | - | - |
| Heating total input current | A | 13,0 | 15,0 | 18,0 | 20,0 | - | - | - | - |
| COP | W/W | 3,17 | 3,25 | 3,16 | 3,45 | - | - | - | - |
| Water flow rate system side | I/h | 1376 | 1738 | 1881 | 2332 | - | - | - | - |
| Useful head system side | kPa | 72,0 | 58,0 | 52,0 | 57,0 | _ | _ | _ | _ |

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

ANK - (°) / 23/18 °C - 30/35 °C

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|
| Power supply: ° | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 9,5 | 11,4 | 14,7 | 16,2 | 18,2 | 21,7 | 34,0 | 39,4 |
| Input power | kW | 2,4 | 2,9 | 3,7 | 4,2 | 4,5 | 5,5 | 8,8 | 10,9 |
| Cooling total input current | A | 4,5 | 5,8 | 7,4 | 8,0 | 9,1 | 11,0 | 18,0 | 22,0 |
| EER | W/W | 3,88 | 3,86 | 3,95 | 3,89 | 4,02 | 3,96 | 3,86 | 3,61 |
| Water flow rate system side | l/h | 1637 | 1969 | 2536 | 2797 | 3155 | 3749 | 5889 | 6826 |
| Pressure drop system side | kPa | 31 | 18 | 31 | 27 | 35 | 47 | 58 | 66 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,5 | 10,6 | 13,0 | 14,6 | 16,2 | 18,2 | 29,2 | 35,6 |
| Input power | kW | 2,1 | 2,6 | 3,1 | 3,5 | 3,8 | 4,3 | 6,9 | 8,8 |
| Heating total input current | A | 4,0 | 5,2 | 6,2 | 6,8 | 7,7 | 8,9 | 15,0 | 18,0 |
| COP | W/W | 4,03 | 4,04 | 4,20 | 4,15 | 4,31 | 4,18 | 4,21 | 4,07 |
| Water flow rate system side | I/h | 1473 | 1830 | 2253 | 2525 | 2799 | 3137 | 5041 | 6147 |
| Pressure drop system side | kPa | 25 | 15 | 25 | 22 | 28 | 33 | 43 | 53 |
| Power supply: M | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 9,5 | 11,4 | 13,3 | 16,3 | - | - | - | - |
| Input power | kW | 2,5 | 2,9 | 3,4 | 3,9 | - | - | - | - |
| Cooling total input current | A | 12,0 | 14,0 | 17,0 | 19,0 | - | - | - | - |
| EER | W/W | 3,86 | 3,86 | 3,94 | 4,19 | - | - | - | - |
| Water flow rate system side | l/h | 1652 | 1969 | 2310 | 2826 | - | - | - | - |
| Pressure drop system side | kPa | 31 | 18 | 27 | 27 | - | - | - | - |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,5 | 10,6 | 11,6 | 14,0 | - | - | - | - |
| Input power | kW | 2,2 | 2,6 | 2,8 | 3,3 | - | - | - | - |
| Heating total input current | A | 10,0 | 12,0 | 14,0 | 16,0 | - | - | - | - |
| COP | W/W | 3,96 | 4,04 | 4,08 | 4,30 | - | - | - | - |
| Water flow rate system side | I/h | 1473 | 1830 | 2001 | 2424 | - | - | - | - |
| Pressure drop system side | kPa | 25 | 15 | 21 | 20 | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ANK - (A/P) / 23/18 °C - 30/35 °C

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|
| Power supply: ° | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 9,5 | 11,5 | 14,8 | 16,3 | 18,4 | 21,8 | 34,3 | 39,8 |
| Input power | kW | 2,4 | 2,9 | 3,6 | 4,2 | 4,5 | 5,5 | 8,9 | 11,4 |
| Cooling total input current | A | 5,1 | 6,5 | 8,1 | 9,2 | 10,0 | 12,0 | 19,0 | 24,0 |
| EER | W/W | 4,00 | 3,98 | 4,06 | 3,92 | 4,05 | 3,99 | 3,85 | 3,48 |
| Water flow rate system side | l/h | 1637 | 1969 | 2536 | 2797 | 3155 | 3749 | 5889 | 6826 |
| Useful head system side | kPa | 62,0 | 70,0 | 45,0 | 55,0 | 38,0 | 16,0 | 66,0 | 51,0 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,4 | 10,5 | 12,9 | 14,5 | 16,1 | 18,0 | 28,9 | 35,3 |
| Input power | kW | 2,1 | 2,6 | 3,0 | 3,5 | 3,8 | 4,3 | 7,0 | 9,2 |
| Heating total input current | A | 4,6 | 5,9 | 6,9 | 7,9 | 8,8 | 10,0 | 16,0 | 20,0 |
| COP | W/W | 4,07 | 4,08 | 4,26 | 4,12 | 4,28 | 4,16 | 4,11 | 3,85 |
| Water flow rate system side | I/h | 1473 | 1830 | 2253 | 2525 | 2799 | 3137 | 5041 | 6147 |
| Useful head system side | kPa | 69,0 | 73,0 | 56,0 | 65,0 | 54,0 | 45,0 | 95,0 | 90,0 |
| Power supply: M | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 9,6 | 11,5 | 13,4 | 16,4 | - | - | - | - |
| Input power | kW | 2,4 | 2,9 | 3,4 | 3,9 | - | - | - | - |
| Cooling total input current | A | 12,0 | 14,0 | 17,0 | 20,0 | - | - | - | - |
| EER | W/W | 3,99 | 3,93 | 4,00 | 4,18 | - | - | - | - |
| Water flow rate system side | l/h | 1652 | 1969 | 2310 | 2826 | - | - | - | - |
| Useful head system side | kPa | 62,0 | 47,0 | 29,0 | 32,0 | - | - | - | - |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | |
| Heating capacity | kW | 8,6 | 10,8 | 11,9 | 13,8 | - | - | - | - |
| Input power | kW | 2,2 | 2,6 | 2,9 | 3,4 | - | - | - | - |
| Heating total input current | A | 11,0 | 13,0 | 15,0 | 17,0 | - | - | - | - |
| COP | W/W | 3,88 | 4,11 | 4,10 | 4,11 | - | - | - | - |
| Water flow rate system side | I/h | 1486 | 1877 | 2061 | 2397 | - | - | - | - |
| Trace non race system side | | | | | | | | | |

ENERGY DATA

Energy index ANK - H°

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|--|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | |
| Cooling capacity with low leaving water temp (UE n° 20 | 016/2281) | | | | | | | | |
| SEER | W/W | 3,07 | 3,18 | 3,32 | 3,32 | 3,45 | 3,45 | 3,81 | 3,63 |
| ηςς | % | 119,80 | 124,10 | 129,80 | 129,80 | 135,00 | 135,00 | 149,40 | 142,30 |
| UE 811/2013 performance in average ambient condition | ons (average) - 35 ° | C - Pdesignh ≤ 70 | kW (1) | | | | | | |
| Pdesignh | kW | 7 | 9 | 11 | 13 | 14 | 16 | 26 | 32 |
| SCOP | W/W | 3,38 | 3,40 | 3,50 | 3,48 | 3,60 | 4,65 | 3,90 | 3,90 |
| ηsh | % | 3,38 | 3,40 | 3,50 | 3,48 | 3,60 | 3,40 | 3,90 | 3,90 |
| Efficiency energy class | | A+ | A+ | A+ | A+ | A+ | A+ | A++ | A++ |
| Power supply: M | | | | | | | | | |
| Cooling capacity with low leaving water temp (UE n° 20 | 016/2281) | | | | | | | | |
| SEER | W/W | 3,07 | 3,18 | 3,27 | 3,55 | - | - | - | - |
| ηςς | % | 119,60 | 124,10 | 127,80 | 139,00 | - | - | - | - |
| UE 811/2013 performance in average ambient condition | ons (average) - 35 ° | C - Pdesignh ≤ 70 | kW (1) | | | | | | |
| Pdesignh | kW | 7 | 9 | 10 | 12 | - | - | - | - |
| SCOP | W/W | 3,33 | 3,40 | 3,43 | 3,55 | - | - | - | - |
| ηsh | % | 130,00 | 133,00 | 134,00 | 139,00 | - | - | - | - |
| Efficiency energy class | | A+ | A+ | A+ | A+ | - | - | - | - |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

Energy index ANK - HP/HA

| Size | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|---|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | |
| Cooling capacity with low leaving water temp (UE n° 2 | 016/2281) | | | | | | | | |
| SEER | W/W | 3,09 | 3,20 | 3,39 | 3,33 | 3,46 | 3,50 | 3,74 | 3,50 |
| ηςς | % | 121,00 | 125,00 | 132,00 | 130,00 | 135,00 | 137,00 | 147,00 | 137,00 |
| UE 811/2013 performance in average ambient condition | ons (average) - 35 ° | C - Pdesignh ≤ 70 | kW (1) | | | | | | |
| Pdesignh | kW | 7 | 9 | 11 | 13 | 14 | 15 | 25 | 30 |
| SCOP | W/W | 3,45 | 3,50 | 3,58 | 3,53 | 3,65 | 3,45 | 3,83 | 3,70 |
| ηsh | % | 135,00 | 137,00 | 140,00 | 138,00 | 143,00 | 135,00 | 150,00 | 145,00 |
| Efficiency energy class | | A+ | A+ | A+ | A+ | A+ | A+ | A++ | A++ |
| Power supply: M | | | | | | | | | |
| Cooling capacity with low leaving water temp (UE n° 2 | 016/2281) | | | | | | | | |
| SEER | W/W | 3,10 | 3,20 | 3,34 | 3,54 | - | - | - | - |
| ηςς | % | 121,00 | 125,00 | 131,00 | 138,00 | - | - | - | - |
| UE 811/2013 performance in average ambient condition | ons (average) - 35 ° | C - Pdesignh ≤ 70 | kW (1) | | | | | | |
| Pdesignh | kW | 7 | 9 | 10 | 12 | - | - | - | - |
| SCOP | W/W | - | - | - | - | - | - | - | - |
| ηsh | % | 133,00 | 137,00 | 137,00 | 141,00 | - | - | - | - |
| Efficiency energy class | | A+ | A+ | A+ | A+ | - | - | - | - |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

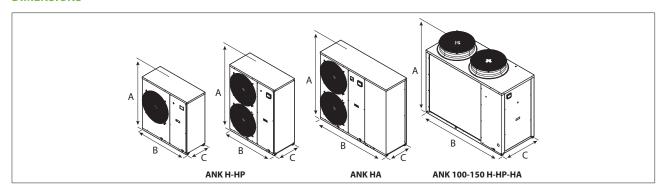
| Size | | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|------------------------------|-------|---|------|------|------|------|------|------|------|-------|
| Power supply: ° | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Mariana arrant (FLA) | 0 | А | 6,0 | 8,0 | 9,0 | 11,0 | 12,0 | 12,0 | 22,0 | 26,0 |
| Maximum current (FLA) | A,P | A | 6,8 | 8,4 | 9,8 | 11,9 | 13,1 | 13,6 | 23,6 | 28,9 |
| Deals assument (LDA) | ٥ | А | 40,0 | 40,0 | 54,0 | 61,0 | 71,0 | 91,0 | 73,0 | 105,0 |
| Peak current (LRA) | A,P | А | 40,4 | 41,0 | 55,0 | 62,6 | 72,6 | 92,6 | 74,6 | 107,8 |
| Peak current with Soft-start | °,A,P | A | - | - | - | - | - | - | - | - |
| Power supply: M | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| | 0 | A | 14,0 | 19,0 | 22,0 | 25,0 | - | - | - | - |
| Maximum current (FLA) | A | А | 14,6 | 20,1 | 22,9 | 26,3 | - | - | - | - |
| | P | A | 14,6 | 20,1 | 22,9 | 26,3 | - | - | - | - |
| Dl | °,P | A | - | - | - | - | - | - | - | - |
| Peak current (LRA) | A | Α | - | - | - | - | - | - | - | - |
| | 0 | A | 45,0 | 45,0 | 45,0 | 45,0 | - | - | - | - |
| Peak current with Soft-start | A | Α | 45,7 | 45,7 | 45,7 | 46,3 | - | - | - | - |
| | P | A | 45,7 | 45,7 | 45,7 | 46,3 | - | - | - | - |

GENERAL TECHNICAL DATA

| Size | | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|----------------------------------|----------|-------|----------|----------|----------|----------|----------|----------|--------------|--------------|
| Compressor | | | | | | | | | ' | |
| Туре | °,A,P | type | | | | Sci | roll | | | |
| Compressor regulation | °,A,P | Туре | | | | On- | -off | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Circuits | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,A,P | type | | | | R4 | 10A | | | |
| Refrigerant charge (1) | °,A,P | kg | 2,9 | 4,3 | 4,3 | 5,5 | 6,0 | 6,0 | 12,0 | 14,5 |
| System side heat exchanger | | | | | | | | | | |
| Туре | °,A,P | type | | | | Braze | d plate | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | |
| Connections (in/out) | °,A,P | Туре | | | | Gas | 5-F | | | |
| Size (in) | °,A,P | Ø | | | | 1′ | 11/4 | | | |
| Size (out) | °,A,P | Ø | | | | 1′ | 11/4 | | | |
| Fan | | | | | | | | | | |
| Туре | °,A,P | type | | | | Ax | rial | | | |
| Fan motor | °,A,P | type | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Asynchronous | Asynchronous |
| Number | °,A,P | no. | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | °,A,P | m³/h | 3500 | 8000 | 8000 | 7500 | 7500 | 7500 | 14500 | 14500 |
| Sound data calculated in cooling | mode (2) | | | | | | | | | |
| Sound power level | °,A,P | dB(A) | 68,0 | 70,5 | 70,5 | 70,5 | 70,5 | 70,5 | 77,0 | 78,0 |
| Sound pressure level (10 m) | °,A,P | dB(A) | 36,7 | 39,2 | 39,1 | 39,1 | 39,1 | 39,1 | 72,6 | 73,6 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 020 | 030 | 040 | 045 | 050 | 085 | 100 | 150 |
|------------------------|-------|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | °,A,P | mm | 1028 | 1281 | 1281 | 1281 | 1281 | 1281 | 1450 | 1450 |
| | °,P | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1450 | 1450 |
| D | A | mm | 1358 | 1450 | 1450 | 1450 | 1450 | 1450 | 1750 | 1750 |
| C | °,A,P | mm | 400 | 400 | 450 | 450 | 450 | 450 | 750 | 750 |
| | 0 | kg | 118 | 149 | 152 | 165 | 172 | 174 | 296 | 341 |
| Empty weight | A | kg | 160 | 211 | 214 | 232 | 238 | 241 | 364 | 412 |
| | P | kg | 123 | 154 | 157 | 175 | 182 | 184 | 314 | 362 |















SWP



- Production of hot water up to 60°C (70°C with the electric heater)
- Operation with suction air from 8°C to 35°C (extended to -15°C to 45°C with the electric heater)
- Versions with standard storage tank or with 1 or 2 coils to be used in combination with several additional sources





DESCRIPTION

The SWP heat pumps use the thermal energy of air for production of domestic hot water. The process occurs in the most efficient and profitable way with average COPs > 3. The energy advantage of the SWP heat pumps also safeguards the environment, using most of its energy from solar radiation.

Easy installation, silent and reliable functioning and very low maintenance requirements complete the benefits of this highly ecological and economic system.

FEATURES

- Steel tank with a double vitrification.
- Condenser wrapped externally to the boiler with no scales and refrigerant-water fluid contamination
- Auxiliary coil to be used together with a boiler or solar panels
- Integrated NTC sensor to control the water temperature
- External air sensor for automatic connection of the electric heater with unfavourable temperatures in heat pump mode
- Anti-corrosion magnesium anode
- Hydraulic connections located at rear of unit
- Thermal insulation made of very thick expanded polyurethane foam with a silver grey RAL 2006 external covering (ABS)
- Adjustable support feet
- Gas R134a
- Electric heater 1500 W 230V
- High pressure safety devices

- Rotary compressor
- Radial fan with an adjustment of 40 % of the nominal flow rate

Electronic controller:

- water set point adjustment
- external air temperature sensing
- auto-diagnostic with display of the high/low pressure alarm, water overheating alarm and disconnected sensors alarm
- record of run hours
- control of minimum time between successive compressor starts
- setting of parameters from the keyboard
- control of electric heater in manual mode or in supplementary automatic mode for low external temperatures
- periodic antibacterial treatment cycle to eliminate and prevent Legionella from developing
- user display to set the operating mode and various parameters with different levels of accessibility by means of passwords

VERSIONS

SWP301: Standard where the heat pump and the electric heater are the source of heat.

SWP 30151: With auxiliary coil to be used together with a boiler or solar panels.

SWP301S2: With double auxiliary coils for simultaneous use of three heat sources.

ACCESSORIES

SWPTA: Titanium electronic sacrificial anode.

ACCESSORIES COMPATIBILITY

| Accessory | SWP301 | SWP301S1 | SWP301S2 |
|-----------|--------|----------|----------|
| SWPTA | • | • | • |

PERFORMANCE SPECIFICATIONS

| | | SWP301 | SWP301S1 | SWP301S2 |
|---|-------------|--------|----------|----------|
| Performance in heating mode from 10°C t | :o 54°C (1) | | | |
| Heating capacity | W | 1950 | 1950 | 1950 |
| Electric input power (average) | W | 488 | 488 | 488 |
| Electric input power (maximum) | W | 700 | 700 | 700 |
| Input power in standby (Pes) | W | 43 | 43 | 43 |
| COP (2) | W/W | 2,91 | 2,91 | 2,91 |
| Heating time | hh:mm | 07:22 | 07:22 | 07:22 |

⁽¹⁾ Values measured when heating the water from 10°C to 54°C with 15°C inlet air temperature and 71° relative humidity (2) Value obtained on the entire L-type withdrawal cycle, at the reference temperature of 54°C (as required by EN 16147)

ELECTRIC DATA

| | | SWP301 | SWP301S1 | SWP301S2 |
|-----------------|-----|-----------|-----------|-----------|
| Power supply | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz |
| Electric heater | | | | |
| Number | no. | 1 | 1 | 1 |
| Input power | W | 1500 | 1500 | 1500 |
| Maximum current | A | 10,00 | 10,00 | 10,00 |

GENERAL TECHNICAL DATA

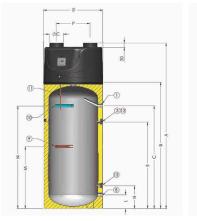
| | | SWP301 | SWP301S1 | SWP301S2 |
|--|-------|----------|-------------------------------|----------|
| Accumulation inertial | | | | |
| Storage tank capacity | I | 273 | 268 | 265 |
| Insulation thickness | mm | 50 | 50 | 50 |
| Type of corrosion protection | type | | Anodo sacrificale in magnesio | |
| Maximum operating pressure | bar | 6 | 6 | 6 |
| Maximum working pressure of auxiliary coil (inf./sup.) | bar | 10,0 | 10,0 | 10,0 |
| Auxiliary serpentine surface (inf./sup.) | | - | 1,5 | 1,5/0,6 |
| Capacity required for the coil 80/60 °C (inf./sup.) | | - | 1,6 | 1,6/0,6 |
| Domestic hot water production 80/60 ° C - 10/45 ° C | | | 0,9 | 0.0/0.2 |
| (DIN 4708) | | <u>-</u> | 0,9 | 0,9/0,3 |
| Maximum volume of DHW usable at 40 °C (Vmax) | I | 370 | 370 | 370 |
| Max DHW temperature with heat pump | °C | | 60 (55 di fabbrica) | |
| Fan | | | | |
| Туре | type | | Radiale | |
| Number | no. | 1 | 1 | 1 |
| Air flow rate | m³/h | 450 | 450 | 450 |
| High static pressure | Pa | 80 | 80 | 80 |
| Sound data | | | | |
| Sound power level | dB(A) | 60,0 | 60,0 | 60,0 |
| Sound pressure level (L _o A at 1 metre) (1) | dB(A) | 49,0 | 49,0 | 49,0 |

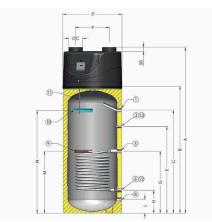
⁽¹⁾ In free field, with non-ducted inlets/outlets

DIMENSIONS

SWP 301







SWP 301S2



Key:

- Hot water withdrawal Rp 1" 1
- Heating delivery Rp 1" 2
- 3 Recirculation - Rp 1/2"
- 4 Heating return - Rp 1"
- 5
- Solar delivery Rp 1" Solar return Rp 1" 6
- Condensate drainage Rp 1/2" Chilled water inlet Rp 1"
- Electric heater Rp 1" 1/4 9
- 10 Anode Rp 1" 1/4
- Control probe sump L = 700 mm Rp11 1/2"
- 12 Probe sump L = 70 mm, Ø 12 mm

| | | SWP301 | SWP301S1 | SWP301S2 |
|----------------------|-----|--------|----------|----------|
| Dimensions and weig | hts | | | |
| A | mm | 1845 | 1845 | 1845 |
| В | mm | 1410 | 1410 | 1410 |
| (| mm | 1150 | 1150 | 1150 |
| D | mm | - | - | 1060 |
| E | mm | 965 | 965 | 965 |
| F | mm | - | - | 890 |
| G | mm | - | 690 | 690 |
| Н | mm | - | 255 | 255 |
| I | mm | 965 | 965 | 965 |
| L | mm | 155 | 155 | 155 |
| М | mm | 690 | 690 | 690 |
| N | mm | 1145 | 1145 | 1145 |
| Ø | mm | 660 | 660 | 660 |
| Øc | mm | 160 | 160 | 160 |
| Weight for transport | kg | 112,00 | 127,00 | 145,00 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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ANL 021-202

Air-water chiller

Cooling capacity 5,7 ÷ 43,3 kW



- Standard version
- Version with Integrated hydronic kit system side





DESCRIPTION

Chillers for external installation for chilled water production with scroll compressors, axial fans, external copper coils with aluminum louvers from size 020 to 090, microchannel from size 102 to 202.

The base, the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

N With increased pump

P With pump

Q With storage tank and increased pump

FEATURES

Operating field

Operation at full load up to 46° C external air temperature. Unit can produce chilled water up to -10° C.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to facilitate installation.

Hot water production

In the configuration with desuperheater, it is also possible to produce free-hot water.

Double mechanical thermostat

On the configurator it is also possible to select the option "W" double mechanical thermostatic valve for low temperatures.

Using two electronic valves in parallel guarantees a precise and efficient control in a wide operating range. This allows them to produce chilled water from -10 $^{\circ}$ C to +18 $^{\circ}$ C.

The option is only available for sizes from 050 to 090 in the °-A-Q versions and from size 102 to 202 in all versions.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Antivibration supports

FACTORY FITTED ACCESSORIES

COMPATIBILITY WITH VMF SYSTEM

DRE: Electronic device for peak current reduction. **RA:** Anti-freeze electric heater for the buffer tank.

For more information about VMF system, refer to the dedicated documentation.

KR: Anti-freeze electric heater for the plate heat exchanger.

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | °,A,P | | | • | | | | | | | | • |
| AERLINK | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | | • | • | • | • | • | • | • | • | • | |
| MODU-485BL | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| MULTICONTROL | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| PR3 | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| SPLW (1) | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| · | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| VMF-CRP | N | | | | | | | | | • | • | • |
| | Q | | | | | | | | | | | |

⁽¹⁾ Probe required for MULTICONTROL to manage the secondary circuit system.

DCPX: Condensation control temperature

| Ver | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| °,A,P | DCPX50 | DCPX52 | DCPX52 | DCPX52 |
| N | - | - | - | - | - | - | - | - | DCPX52 | DCPX52 | DCPX52 |
| Q | - | - | - | - | DCPX50 | DCPX50 | DCPX50 | DCPX50 | DCPX52 | DCPX52 | DCPX52 |

VT: Antivibration

| Ver | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| °,P | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 |
| A | VT9 | VT9 | VT9 | VT9 | VT15 |
| N | - | - | - | - | - | - | - | - | VT15 | VT15 | VT15 |
| Q | - | - | - | - | VT15 |

DRE: Device for peak current reduction

| | Ver | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|---|----------------|----------|----------|----------|----------|--------------|--------------|--------------|
| Ī | ower supply: ° | | | | | | | |
| | °,A,P,Q | DRE5 (1) | DRE5 (1) | DRE5 (1) | DRE5 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |
| | N | - | - | - | - | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

KR: electric heater for the plate heat exchanger

| Ver | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| °,P | KR2 | KR100 | KR100 | KR100 |
| A,Q | - | - | - | - | KR2 | KR2 | KR2 | KR2 | KR100 | KR100 | KR100 |
| N | - | - | - | - | - | - | - | - | KR100 | KR100 | KR100 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

RA: electric heater for the buffer tank

| - 3 | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| | Ver | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
| | A | RA | RA100 | RA100 | RA100 |
| | 0 | - | - | - | - | RA | RA | RA | RA | RA100 | RA100 | RA100 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|-------|---|
| 1,2,3 | ANL |
| 4,5,6 | Size |
| 4,3,0 | 021, 026, 031, 041, 050, 070, 080, 090, 102, 152, 202 |
| 7 | Model |
| 0 | Cooling only |
| 8 | Version |
| 0 | Standard |
| A | With storage tank and pump |
| N | With increased pump (1) |
| P | With pump |
| Q | With storage tank and increased pump (2) |
| 9 | Heat recovery |
| • | Without heat recovery |
| D | With desuperheater (3) |
| 10 | Coils |
| 0 | Copper-aluminium (4) |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Operating field |
| 0 | Standard mechanic thermostatic valve (5) |
| W | Double mechanical thermostat for low temperature (6) |
| Υ | Low temperature mechanic thermostatic valve (7) |
| Z | Low temperatures mechanic thermostatic valve (8) |
| 12 | Evaporator |
| 0 | Standard |
| 13 | Power supply |
| 0 | 400V 3N ∼ 50Hz (9) |
| M | 230V ~ 50Hz (10) |

PERFORMANCE SPECIFICATIONS

$ANL - (400V 3N \sim 50Hz / 230V \sim 50Hz)$

| Size | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|--------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Power supply: ° | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,5 | 9,6 | 13,4 | 16,4 | 20,4 | 22,2 | 26,5 | 32,9 | 42,8 |
| Input power | kW | 1,9 | 2,0 | 2,5 | 3,3 | 4,1 | 4,9 | 6,4 | 6,8 | 8,0 | 10,2 | 13,5 |
| Cooling total input current | A | 3,7 | 4,2 | 4,7 | 6,2 | 8,7 | 9,7 | 12,0 | 13,0 | 16,0 | 19,0 | 25,0 |
| EER | W/W | 3,03 | 3,04 | 2,99 | 2,90 | 3,26 | 3,33 | 3,18 | 3,28 | 3,32 | 3,21 | 3,18 |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | 2302 | 2835 | 3522 | 3831 | 4570 | 5670 | 7388 |
| Pressure drop system side | kPa | 21 | 21 | 22 | 24 | 30 | 30 | 36 | 50 | 58 | 61 | 68 |
| Power supply: M | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,5 | 9,6 | - | - | - | - | - | - | - |
| Input power | kW | 1,9 | 2,0 | 2,5 | 3,3 | - | - | - | - | - | - | - |
| Cooling total input current | A | 6,4 | 7,3 | 8,2 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,03 | 3,04 | 2,99 | 2,90 | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | - | - | - | - | - | - | - |
| Pressure drop system side | kPa | 21 | 21 | 22 | 24 | - | - | - | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

⁽¹⁾ Only for ANL 102 ÷ 202 sizes
(2) Only for ANL 050 ÷ 202 sizes
(3) If the unit is also fitted with one of the low temperature valves in addition to the desuperheater, it is necessary to always guarantee a water temperature of 35°C at the inlet of the heat exchanger. The desuperheater is only available in sizes from 050 to 090 in the version with storage tank "A", and from size 102 to 202 in all versions.

(4) Sizes from 102 to 202 have a micro-channel coil

⁽⁵⁾ Water produced up to +4 °C
(6) Water produced from -10 °C to 18 °C; Option available only for sizes starting from 050 to 090 in the °-A-Q versions and from 102 to 202 in all versions
(7) Water produced from 0 °C up to -10 °C
(8) Water produced from +4 °C up to +0 °C
(9) For all sizes
(10) Only for ANL 021 ÷ 041 sizes

ANL - P (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|-----------------------------------|-----|------|------|------|------|------|------|------|------|------|-------|------|
| Power supply: ° | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,6 | 9,7 | 13,5 | 16,6 | 20,6 | 22,4 | 26,8 | 33,2 | 43,2 |
| Input power | kW | 1,8 | 2,0 | 2,5 | 3,2 | 4,1 | 4,9 | 6,4 | 6,7 | 8,1 | 10,5 | 13,8 |
| Cooling total input current | A | 4,0 | 4,5 | 5,0 | 6,6 | 9,3 | 10,0 | 13,0 | 13,0 | 17,0 | 21,0 | 27,0 |
| EER | W/W | 3,11 | 3,12 | 3,07 | 2,97 | 3,31 | 3,38 | 3,23 | 3,35 | 3,32 | 3,15 | 3,13 |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | 2302 | 2835 | 3522 | 3831 | 4570 | 5670 | 7388 |
| Useful head system side | kPa | 73,0 | 73,0 | 71,0 | 65,0 | 76,0 | 72,0 | 57,0 | 52,0 | 84,0 | 115,0 | 90,0 |
| Power supply: M | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,6 | 9,7 | - | - | - | - | - | - | - |
| Input power | kW | 1,8 | 2,0 | 2,5 | 3,2 | - | - | - | - | - | - | - |
| Cooling total input current | A | 7,0 | 7,9 | 8,8 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,11 | 3,12 | 3,07 | 2,97 | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | - | - | - | - | - | - | - |
| Useful head system side | kPa | 73,0 | 73,0 | 71,0 | 65,0 | - | - | - | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ANL - N (400V 3N ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | - | - | - | 26,8 | 33,3 | 43,3 |
| Input power | kW | - | - | - | - | - | - | - | - | 8,5 | 10,6 | 13,8 |
| Cooling total input current | A | - | - | - | - | - | - | - | - | 18,0 | 21,0 | 27,0 |
| EER | W/W | - | - | - | - | - | - | - | - | 3,17 | 3,15 | 3,13 |
| Water flow rate system side | l/h | - | - | - | - | - | - | - | - | 4570 | 5669 | 7387 |
| Useful head system side | kPa | - | - | - | - | - | - | - | - | 140,0 | 185,0 | 159,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ANL - A (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|-----------------------------------|-----|------|------|------|------|------|------|------|------|------|-------|------|
| Power supply: ° | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,6 | 9,7 | 13,5 | 16,6 | 20,6 | 22,4 | 26,8 | 33,2 | 43,2 |
| Input power | kW | 1,8 | 2,0 | 2,5 | 3,2 | 4,1 | 4,9 | 6,4 | 6,7 | 8,1 | 10,5 | 13,8 |
| Cooling total input current | А | 4,0 | 5,0 | 5,0 | 7,0 | 10,0 | 11,0 | 13,0 | 14,0 | 17,0 | 21,0 | 27,0 |
| EER | W/W | 3,11 | 3,12 | 3,07 | 2,97 | 3,31 | 3,38 | 3,23 | 3,35 | 3,32 | 3,15 | 3,13 |
| Water flow rate system side | l/h | 979 | 1065 | 1288 | 1649 | 2302 | 2834 | 3522 | 3831 | 4570 | 5669 | 7387 |
| Useful head system side | kPa | 73,0 | 73,0 | 71,0 | 65,0 | 76,0 | 72,0 | 57,0 | 52,0 | 84,0 | 115,0 | 91,0 |
| Power supply: M | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,6 | 9,7 | - | - | - | - | - | - | - |
| Input power | kW | 1,8 | 2,0 | 2,5 | 3,2 | - | - | - | - | - | - | - |
| Cooling total input current | A | 7,0 | 7,9 | 8,8 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,11 | 3,12 | 3,07 | 2,97 | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | - | - | - | - | - | - | - |
| Useful head system side | kPa | 73,0 | 73,0 | 71,0 | 65,0 | - | - | - | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ANL - Q (400V 3N ~ 50Hz)

| 71112 Q (1001 511 50112) | | | | | | | | | | | | |
|--------------------------------------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|
| Size | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 13,6 | 16,7 | 20,7 | 22,5 | 26,8 | 33,3 | 43,3 |
| Input power | kW | - | - | - | - | 4,2 | 5,0 | 6,5 | 6,8 | 8,5 | 10,6 | 13,8 |
| Cooling total input current | A | - | - | - | - | 10,0 | 11,0 | 13,0 | 14,0 | 18,0 | 21,0 | 27,0 |
| EER | W/W | - | - | - | - | 3,24 | 3,33 | 3,19 | 3,31 | 3,17 | 3,15 | 3,13 |
| Water flow rate system side | l/h | - | - | - | - | 2302 | 2834 | 3522 | 3831 | 4570 | 5669 | 7387 |
| Useful head system side | kPa | - | - | - | - | 160,0 | 159,0 | 144,0 | 140,0 | 140,0 | 185,0 | 159,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|--|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825:2018) with standard f | fans (1) | | | | | | | | | | | | |
| | 0 | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A,P | W/W | 4,18 | 4,20 | 4,17 | 4,10 | 4,16 | 4,34 | 4,19 | 4,31 | 4,11 | 4,11 | 4,10 |
| SEER — | N | W/W | - | - | - | - | - | - | - | - | - (2) | - (2) | - (2) |
| _ | Q | W/W | - | - | - | - | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | 0 | % | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A,P | % | 164,00 | 164,80 | 163,60 | 161,00 | 163,40 | 170,70 | 164,60 | 169,40 | 161,30 | 161,20 | 161,10 |
| Seasonal efficiency — | N | % | - | - | - | - | - | - | - | - | - (2) | - (2) | - (2) |
| _ | Q | % | - | - | - | - | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| SEER - 23/18 (EN14825: 2018) with standard | d fans (3) | | | | | | | | | | | | |
| | 0 | W/W | 4,34 | 4,35 | 4,31 | 4,21 | 4,55 | 4,68 | 4,49 | 4,61 | 4,83 | 4,73 | 4,69 |
| | A,P | W/W | 4,49 | 4,51 | 4,48 | 4,47 | 4,55 | 4,64 | 4,57 | 4,66 | 4,49 | 4,25 | 4,28 |
| SEER — | N | W/W | - | - | - | - | - | - | - | - | 4,15 | 4,18 | 4,23 |
| _ | Q | W/W | - | - | - | - | 4,18 | 4,44 | 4,35 | 4,49 | 4,15 | 4,18 | 4,23 |
| | ٥ | % | 170,40 | 170,90 | 169,20 | 165,20 | 179,10 | 184,30 | 176,60 | 181,50 | 190,30 | 186,00 | 184,70 |
| Cassand off sion on | A,P | % | 176,70 | 177,50 | 176,00 | 175,60 | 179,00 | 182,40 | 179,80 | 183,50 | 176,60 | 167,00 | 168,00 |
| Seasonal efficiency — | N | % | - | - | - | - | - | - | - | - | 163,10 | 164,20 | 166,00 |
| _ | Q | % | - | - | - | - | 164,30 | 174,50 | 171,10 | 176,70 | 163,10 | 164,20 | 166,00 |
| SEPR - (EN14825: 2018) High temperature v | vith standa | rd fans (3) | | | | | | | | | | | |
| | 0 | W/W | 5,92 | 5,92 | 5,85 | 5,69 | 6,36 | 6,50 | 6,21 | 6,43 | 6,79 | 6,58 | 6,49 |
| | A,P | W/W | 6,56 | 6,57 | 6,45 | 6,21 | 6,74 | 6,90 | 6,55 | 6,78 | 6,68 | 6,18 | 6,17 |
| SEPR — | N | W/W | - | - | - | - | - | - | - | - | 5,91 | 6,09 | 6,10 |
| _ | Q | W/W | - | - | - | - | 6,03 | 6,28 | 6,08 | 6,30 | 5,91 | 6,09 | 6,10 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

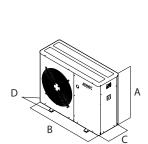
| Size | | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|------------------------|-----|---|------|------|------|-------|------|------|-------|------|------|------|-------|
| Power supply: ° | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | |
| | ٥ | Α | 5,0 | 6,0 | 6,0 | 9,0 | 11,0 | 14,0 | 16,0 | 17,0 | 22,0 | 26,0 | 32,0 |
| Maximum assessed (FLA) | A,P | Α | 6,0 | 7,0 | 7,0 | 10,0 | 13,0 | 15,0 | 18,0 | 19,0 | 23,0 | 28,0 | 34,0 |
| Maximum current (FLA) | N | Α | - | - | - | - | - | - | - | - | 24,0 | 28,0 | 34,0 |
| | Q | Α | - | - | - | - | 12,0 | 14,0 | 17,0 | 18,0 | 24,0 | 28,0 | 34,0 |
| | 0 | A | 28,0 | 38,0 | 39,0 | 44,0 | 65,0 | 75,0 | 102,0 | 96,0 | 76,0 | 87,0 | 117,0 |
| Peak current (LRA) | A,P | А | 29,0 | 39,0 | 40,0 | 45,0 | 67,0 | 77,0 | 104,0 | 98,0 | 77,0 | 89,0 | 119,0 |
| | N | А | - | - | - | - | - | - | - | - | 78,0 | 89,0 | 119,0 |
| | Q | А | - | - | - | - | 66,0 | 76,0 | 103,0 | 97,0 | 78,0 | 89,0 | 119,0 |
| Power supply: M | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | |
| | ٥ | A | 13,0 | 16,0 | 18,0 | 22,0 | - | - | - | - | - | - | - |
| Maximum current (FLA) | A,P | А | 14,0 | 17,0 | 19,0 | 23,0 | - | - | - | - | - | - | - |
| | N,Q | A | - | - | - | - | - | - | - | - | - | - | - |
| | 0 | Α | 64,0 | 68,0 | 69,0 | 100,0 | - | - | - | - | - | - | - |
| Peak current (LRA) | A,P | А | 62,0 | 69,0 | 70,0 | 101,0 | - | - | - | - | - | - | - |
| an carrent (Emy | N,Q | А | - | - | - | - | - | - | - | - | - | - | - |

GENERAL TECHNICAL DATA

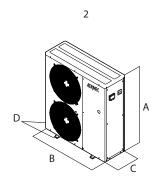
| | | ANL021 | ANL026 | ANL031 | ANL041 | ANL050 | ANL070 | ANL080 | ANL090 | ANL102 | ANL152 | ANL202 |
|---|-------|--------|--------|--------|--------|--------|---------------|----------|--------|--------|--------|--------|
| Compressor | | | | | | | | | | | | |
| Туре | type | | | | | | Scroll | | | | | |
| Compressor regulation | Туре | | | | | | 0n-0ff | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | | | | | | R410A | | | | | |
| Refrigerant charge (1) | kg | 1,2 | 1,2 | 1,2 | 1,3 | 2,8 | 2,8 | 3,0 | 3,9 | 5,9 | 5,9 | 5,9 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | type | | | | | | Brazed plate | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | |
| Sizes (in/out) | Ø | | | | | | 1″1/4 | | | | | |
| Fan | | | | | | | | | | | | |
| Туре | type | | | | | | Axial | | | | | |
| Fan motor | type | | | | | Asynch | ronous with p | hase cut | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Air flow rate | m³/h | 2500 | 2500 | 3500 | 3500 | 7200 | 7200 | 7300 | 7200 | 14000 | 13500 | 13500 |
| Sound data calculated in cooling mode (2) | | | | | | | | | | | | |
| Sound power level | dB(A) | 61,0 | 61,0 | 68,0 | 68,0 | 69,0 | 69,0 | 69,0 | 68,0 | 76,0 | 77,0 | 78,0 |

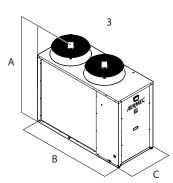
| | | ANL021 | ANL026 | ANL031 | ANL041 | ANL050 | ANL070 | ANL080 | ANL090 | ANL102 | ANL152 | ANL202 |
|----------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sound pressure level (1 m) | dB(A) | 29,8 | 29,8 | 36,8 | 36,8 | 37,6 | 37,6 | 37,6 | 36,6 | 44,5 | 45,5 | 46,5 |

DIMENSIONS



1





- ANL 021-041
- ANL 050-070 2
- 3 ANL 102-202

| Size | | | 021 | 026 | 031 | 041 | 050 | 070 | 080 | 090 | 102 | 152 | 202 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| | °,P | mm | 1000 | 1000 | 1000 | 1000 | 1252 | 1252 | 1252 | 1252 | 1450 | 1450 | 1450 |
| Α. | A | mm | 1015 | 1015 | 1015 | 1015 | 1281 | 1281 | 1281 | 1281 | 1450 | 1450 | 1450 |
| A | N | mm | - | - | - | - | - | - | - | - | 1450 | 1450 | 1450 |
| | Q | mm | - | - | - | - | 1281 | 1281 | 1281 | 1281 | 1450 | 1450 | 1450 |
| | °,P | mm | 900 | 900 | 900 | 900 | 1124 | 1124 | 1124 | 1124 | 1750 | 1750 | 1750 |
| n | A | mm | 1124 | 1124 | 1124 | 1124 | 1165 | 1165 | 1165 | 1165 | 1750 | 1750 | 1750 |
| В | N | mm | - | - | - | - | - | - | - | - | 1750 | 1750 | 1750 |
| | Q | mm | - | - | - | - | 1165 | 1165 | 1165 | 1165 | 1750 | 1750 | 1750 |
| | °,P | mm | 310 | 310 | 310 | 310 | 384 | 384 | 384 | 384 | 750 | 750 | 750 |
| r | А | mm | 384 | 384 | 384 | 384 | 550 | 550 | 550 | 550 | 750 | 750 | 750 |
| C | N | mm | - | - | - | - | - | - | - | - | 750 | 750 | 750 |
| | Q | mm | - | - | - | - | 550 | 550 | 550 | 550 | 750 | 750 | 750 |
| | °,P | mm | 354 | 354 | 354 | 354 | 428 | 428 | 428 | 428 | - | - | - |
| n | A | mm | 428 | 428 | 428 | 428 | - | - | - | - | - | - | - |
| D | N | mm | - | - | - | - | - | - | - | - | - | - | - |
| | Q | mm | - | - | - | - | - | - | - | - | - | - | - |
| <u> </u> | 0 | kg | 86 | 86 | 86 | 86 | 120 | 120 | 120 | 156 | 270 | 293 | 329 |
| | A | kg | 103 | 103 | 103 | 103 | 147 | 147 | 147 | 183 | 338 | 364 | 400 |
| Empty weight | N | kg | - | - | - | - | - | - | - | - | 338 | 364 | 400 |
| | Р | kg | 91 | 91 | 91 | 91 | 127 | 127 | 163 | 163 | 288 | 314 | 350 |
| | Q | kg | - | - | - | - | 151 | 151 | 151 | 187 | 338 | 364 | 400 |

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⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).





















ANL 021H -203H

Reversible air/water heat pump

Cooling capacity 5,7 ÷ 49,1 kW Heating capacity 6,2 ÷ 43,3 kW



- It is possible to produce hot domestic water
- Compact dimensions
- Quick & easy installation





DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

Equipped with scroll compressors, axial fans, external coil with aluminium louvers, plate heat exchanger on the side.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

N With increased pump

P With pump

Q With storage tank and increased pump

FEATURES

Operating field

Full load up to 46 ° C ambient air temperature with the possibility to produce chilled water down to -10° C in cooling mode (for more details refer to the technical documentation).

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to facilitate installation.

Inverter fans

Inverter fans from size 031 to 091 for all sizes.

■ The DCPX accessory is not required for these sizes.

Double mechanical thermostat

On the configurator it is also possible to select the option "W" double mechanical thermostatic valve for low temperatures.

Using two electronic valves in parallel guarantees a precise and efficient control in a wide operating range. This allows them to produce chilled water from -10 $^{\circ}$ C to +18 $^{\circ}$ C.

■ The option is available only for sizes starting from 051 to 091 in the °-A-Q versions and from size 103 to 203 in all versions.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with

the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

VT: Antivibration supports BDX: Condensate drip.

RA: Anti-freeze electric heater for the buffer tank.

KR: Anti-freeze electric heater for the plate heat exchanger.

KRB: -

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

ACCESSORIES COMPATIBILITY

| Model | Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| MODU-485BL | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| MULTICONTROL | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| PR3 | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| SDHW (1) | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| SPLW (2) | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |
| | °,A,P | • | • | • | • | • | • | • | • | • | • | • |
| VMF-CRP | N | | | | | | | | | • | • | • |
| | Q | | | | | • | • | • | • | • | • | • |

⁽¹⁾ Probe required for MULTICONTROL for managing the domestic hot water system.
(2) Probe required for MULTICONTROL to manage the secondary circuit system.

DCPX: Condensation control temperature

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-------|--------|--------|-----|-----|-----|-----|-----|-----|--------|--------|--------|
| °,A,P | DCPX51 | DCPX51 | - | - | - | - | - | - | DCPX53 | DCPX53 | DCPX53 |
| 0 | - | - | - | - | - | - | - | - | DCPX53 | DCPX53 | DCPX53 |

The accessory cannot be fitted on the configurations indicated with -

Antivibration

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| °,P | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 |
| A | VT9 | VT9 | VT9 | VT9 | VT15 |
| N | - | - | - | - | - | - | - | - | VT15 | VT15 | VT15 |
| Q | - | - | - | - | VT15 |

Condensate drip

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-----|------|------|------|------|------|------|------|------|-----|-----|-----|
| °,P | BDX5 | - | - | - |
| A | BDX5 | BDX5 | BDX5 | BDX5 | BDX6 | BDX6 | BDX6 | BDX6 | - | - | - |
| Q | - | - | - | - | BDX6 | BDX6 | BDX6 | BDX6 | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

DRE: Device for peak current reduction

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------|-----|-----|-----|-----|----------|----------|----------|----------|--------------|--------------|--------------|
| °,A,P,Q | - | - | - | - | DRE5 (1) | DRE5 (1) | DRE5 (1) | DRE5 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |
| N | - | - | - | - | - | - | - | - | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

KR: electric heater for the heat exchanger

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| °,P | KR2 | KR100 | KR100 | KR100 |
| A | - | - | - | - | KR2 | KR2 | KR2 | KR2 | KR100 | KR100 | KR100 |
| N,Q | - | - | - | - | - | - | - | - | KR100 | KR100 | KR100 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

RA: Anti-freeze electric heater for the buffer tank

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| A | RA | RA100 | RA100 | RA100 |
| Q | - | - | - | - | RA | RA | RA | RA | RA100 | RA100 | RA100 |

A grey background indicates the accessory must be assembled in the factory

KRB: Electric heater for the base

| Ver | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|----------|
| °,A,N,P,Q | - | - | - | - | - | - | - | - | KRB3 (1) | KRB3 (1) | KRB3 (1) |

⁽¹⁾ Incompatible with the condensate collection basin accessory with integrated resistance. The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|-------|--|
| 1,2,3 | ANL |
| 4,5,6 | Size 021, 026, 031, 041, 051, 071, 081, 091, 103, 153, 203 |
| 7 | Model |
| Н | Heat pump |
| 8 | Version |
| • | Standard |
| A | With storage tank and pump |
| N | With increased pump (1) |
| P | With pump |
| Q | With storage tank and increased pump (2) |
| 9 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| 10 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Operating field |
| 0 | Standard mechanic thermostatic valve |
| W | Double mechanical thermostat for low temperature (4) |
| 12 | Evaporator |
| 0 | Standard |
| 13 | Power supply |
| 0 | 400V 3N ~ 50Hz (5) |
| M | 230V ~ 50Hz (6) |

⁽¹⁾ Only for ANL 103 + 203 sizes
(2) Only for ANL 051 + 203 sizes
(3) The desuperheater must be intercepted during heating mode. If the unit is also fitted with one of the low temperature valves in addition to the desuperheater, during cold operation, it is necessary to always guarantee a water temperature of 35°C at the inlet of the heat exchanger. It is only available in sizes from 051 to 091 in the version with storage tank "A", and from size 103 to 203 in all versions.

(4) Water produced from -10 °C to 18 °C; Option available only for sizes starting from 051 to 091 in the °-A-Q versions and from 103 to 203 in all versions
(5) Only for ANL 021 + 203 sizes
(6) Only for ANL 021 + 041 sizes

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

$ANL - (H^{\circ}) - (400V 3N \sim 50Hz / 230V \sim 50Hz)$

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,5 | 9,6 | 13,3 | 16,3 | 20,0 | 21,5 | 25,5 | 31,7 | 40,2 |
| Input power | kW | 1,9 | 2,0 | 2,5 | 3,3 | 4,4 | 5,9 | 6,7 | 6,7 | 9,2 | 11,0 | 14,1 |
| Cooling total input current - 400V | A | 3,7 | 4,2 | 4,7 | 6,2 | 8,7 | 9,7 | 12,0 | 13,0 | 16,0 | 19,0 | 25,0 |
| Cooling total input current - 230V | A | 6,4 | 7,3 | 8,1 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,02 | 3,02 | 2,98 | 2,90 | 3,06 | 2,77 | 3,01 | 3,21 | 2,79 | 2,87 | 2,85 |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | 2294 | 2807 | 3452 | 3713 | 4398 | 5467 | 6929 |
| Pressure drop system side | kPa | 30 | 31 | 32 | 30 | 34 | 35 | 44 | 60 | 55 | 57 | 62 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 6,2 | 7,0 | 8,4 | 9,8 | 13,3 | 17,4 | 21,0 | 22,1 | 26,2 | 35,5 | 42,0 |
| Input power | kW | 1,9 | 2,2 | 2,7 | 3,1 | 4,1 | 5,2 | 6,0 | 6,4 | 8,8 | 11,1 | 12,7 |
| Heating total input current - 400V | Α | 3,8 | 4,4 | 5,4 | 6,8 | 9,5 | 10,0 | 13,0 | 14,0 | 17,0 | 19,0 | 25,0 |
| Heating total input current - 230V | A | 6,6 | 7,6 | 9,3 | 12,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,21 | 3,27 | 3,17 | 3,22 | 3,21 | 3,32 | 3,49 | 3,47 | 2,99 | 3,21 | 3,32 |
| Water flow rate system side | l/h | 1078 | 1217 | 1460 | 1700 | 2294 | 3007 | 3638 | 3827 | 4529 | 6137 | 7265 |
| Pressure drop system side | kPa | 36 | 40 | 41 | 37 | 38 | 39 | 53 | 72 | 70 | 70 | 78 |

ANL - (HA/HP) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 5,7 | 6,2 | 7,6 | 9,7 | 13,4 | 16,4 | 20,2 | 21,7 | 25,8 | 32,1 | 40,6 |
| Input power | kW | 1,8 | 2,0 | 2,5 | 3,2 | 4,3 | 5,8 | 6,6 | 6,6 | 9,2 | 11,1 | 14,2 |
| Cooling total input current - 400V | A | 4,0 | 4,5 | 5,0 | 6,6 | 9,3 | 10,0 | 13,0 | 13,0 | 17,0 | 21,0 | 27,0 |
| Cooling total input current - 230V | A | 6,9 | 7,9 | 8,7 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,11 | 3,12 | 3,07 | 2,97 | 3,11 | 2,82 | 3,06 | 3,29 | 2,79 | 2,89 | 2,87 |
| Water flow rate system side | l/h | 979 | 1065 | 1289 | 1649 | 2294 | 2807 | 3452 | 3713 | 4398 | 5467 | 6929 |
| Useful head system side | kPa | 73,0 | 73,0 | 71,0 | 65,0 | 76,0 | 72,0 | 57,0 | 52,0 | 88,0 | 125,0 | 111,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 6,2 | 7,0 | 8,3 | 9,7 | 13,1 | 17,2 | 20,9 | 21,9 | 25,9 | 35,0 | 41,5 |
| Input power | kW | 1,9 | 2,1 | 2,6 | 3,0 | 4,1 | 5,2 | 5,9 | 6,3 | 8,9 | 11,2 | 12,7 |
| Heating total input current - 400V | A | 4,1 | 4,7 | 5,8 | 7,2 | 10,0 | 11,0 | 14,0 | 14,0 | 18,0 | 21,0 | 27,0 |
| Heating total input current - 230V | A | 7,2 | 8,2 | 9,9 | 12,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,23 | 3,30 | 3,21 | 3,25 | 3,20 | 3,33 | 3,51 | 3,51 | 2,92 | 3,14 | 3,26 |
| Water flow rate system side | l/h | 1078 | 1217 | 1460 | 1700 | 2294 | 3007 | 3638 | 3827 | 4529 | 6137 | 7265 |
| Useful head system side | kPa | 68,0 | 67,0 | 65,0 | 58,0 | 72,0 | 65,0 | 46,0 | 40,0 | 64,0 | 94,0 | 68,0 |

ANL - (HN/HQ) - (400V 3N ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 13,5 | 16,5 | 20,3 | 21,8 | 25,8 | 32,1 | 40,6 |
| Input power | kW | - | - | - | - | 4,4 | 5,9 | 6,7 | 6,7 | 9,6 | 11,4 | 14,5 |
| Cooling total input current - 400V | A | - | - | - | - | 9,7 | 11,0 | 13,0 | 14,0 | 18,0 | 21,0 | 27,0 |
| EER | W/W | - | - | - | - | 3,05 | 2,78 | 3,03 | 3,25 | 2,68 | 2,82 | 2,81 |
| Water flow rate system side | l/h | - | - | - | - | 2294 | 2807 | 3452 | 3713 | 4398 | 5467 | 6929 |
| Useful head system side - ver. "Q" | kPa | - | - | - | - | 160 | 159 | 144 | 140 | 147 | 192 | 170 |
| Useful head system side - ver. "N" | kPa | - | - | - | - | - | - | - | - | 147 | 192 | 170 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 13,0 | 17,1 | 20,8 | 21,8 | 25,9 | 35,0 | 41,5 |
| Input power | kW | - | - | - | - | 4,2 | 5,3 | 6,1 | 6,4 | 9,3 | 11,4 | 13,0 |
| Heating total input current - 400V | A | - | - | - | - | 10,0 | 11,0 | 14,0 | 15,0 | 19,0 | 21,0 | 28,0 |
| COP | W/W | - | - | - | - | 3,10 | 3,24 | 3,42 | 3,43 | 2,78 | 3,07 | 3,19 |
| Water flow rate system side | l/h | - | - | - | - | 2294 | 3007 | 3638 | 3827 | 4529 | 6137 | 7265 |
| Useful head system side - ver. "Q" | kPa | - | - | - | - | 154 | 151 | 131 | 126 | 107 | 169 | 141 |
| Useful head system side - ver. "N" | kPa | - | - | - | - | - | - | - | - | 107 | 169 | 141 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C /7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

$ANL - (H^{\circ}) - (400V 3N \sim 50Hz / 230V \sim 50Hz)$

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 6,9 | 7,5 | 9,0 | 11,6 | 16,1 | 19,7 | 24,2 | 26,0 | 30,8 | 38,3 | 48,5 |
| Input power | kW | 2,0 | 2,1 | 2,6 | 3,4 | 4,5 | 6,1 | 7,0 | 7,1 | 9,6 | 11,6 | 14,8 |
| Cooling total input current - 400V | A | 3,8 | 4,3 | 4,9 | 6,4 | 9,0 | 10,0 | 13,0 | 13,0 | 16,0 | 19,0 | 26,0 |
| Cooling total input current - 230V | A | 6,6 | 7,6 | 8,4 | 11,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,50 | 3,50 | 3,45 | 3,36 | 3,54 | 3,21 | 3,47 | 3,68 | 3,21 | 3,31 | 3,27 |
| Water flow rate system side | l/h | 1189 | 1293 | 1564 | 2002 | 2784 | 3407 | 4189 | 4506 | 5338 | 6636 | 8410 |
| Pressure drop system side | kPa | 44 | 46 | 47 | 44 | 50 | 52 | 65 | 88 | 81 | 84 | 92 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 6,5 | 7,3 | 8,8 | 10,3 | 13,8 | 18,1 | 21,9 | 23,1 | 27,3 | 37,0 | 43,9 |
| Input power | kW | 1,7 | 1,9 | 2,3 | 2,7 | 3,5 | 4,7 | 5,4 | 5,7 | 7,8 | 9,9 | 11,3 |
| Heating total input current - 400V | A | 3,3 | 3,8 | 4,6 | 6,0 | 8,1 | 9,1 | 11,0 | 12,0 | 15,0 | 17,0 | 22,0 |
| Heating total input current - 230V | A | 5,6 | 6,5 | 8,0 | 10,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,88 | 3,96 | 3,85 | 3,77 | 3,90 | 3,89 | 4,08 | 4,05 | 3,49 | 3,74 | 3,87 |
| Water flow rate system side | l/h | 1120 | 1265 | 1518 | 1767 | 2385 | 3126 | 3782 | 3979 | 4709 | 6381 | 7553 |
| Pressure drop system side | kPa | 39 | 43 | 44 | 40 | 41 | 42 | 57 | 78 | 76 | 76 | 84 |

ANL - (HA/HP) - (400V 3N ~ 50Hz/230V ~ 50Hz)

| | | - | | | | | | | | | | |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 6,9 | 7,5 | 9,1 | 11,7 | 16,2 | 19,8 | 24,4 | 26,2 | 31,1 | 38,8 | 49,1 |
| Input power | kW | 1,9 | 2,1 | 2,6 | 3,4 | 4,5 | 6,0 | 6,9 | 6,9 | 9,7 | 11,6 | 14,8 |
| Cooling total input current - 400V | A | 4,2 | 4,7 | 5,2 | 6,8 | 9,7 | 11,0 | 13,0 | 14,0 | 17,0 | 21,0 | 28,0 |
| Cooling total input current - 230V | A | 7,2 | 8,2 | 9,0 | 12,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,63 | 3,63 | 3,58 | 3,46 | 3,62 | 3,28 | 3,55 | 3,81 | 3,21 | 3,36 | 3,32 |
| Water flow rate system side | l/h | 1189 | 1293 | 1564 | 2002 | 2784 | 3407 | 4189 | 4506 | 5338 | 6636 | 8410 |
| Useful head system side | kPa | 63,0 | 63,0 | 60,0 | 51,0 | 60,0 | 53,0 | 31,0 | 24,0 | 47,0 | 63,0 | 41,0 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | 6,4 | 7,3 | 8,7 | 10,2 | 13,7 | 18,0 | 21,8 | 22,9 | 27,1 | 36,6 | 43,3 |
| Input power | kW | 1,6 | 1,8 | 2,2 | 2,7 | 3,5 | 4,6 | 5,3 | 5,6 | 8,0 | 10,0 | 11,4 |
| Heating total input current - 400V | A | 3,6 | 4,1 | 5,0 | 6,4 | 8,8 | 9,8 | 12,0 | 13,0 | 16,0 | 19,0 | 24,0 |
| Heating total input current - 230V | A | 6,2 | 7,1 | 8,6 | 11,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,93 | 4,02 | 3,91 | 3,81 | 3,90 | 3,91 | 4,11 | 4,11 | 3,40 | 3,67 | 3,81 |
| Water flow rate system side | l/h | 1120 | 1265 | 1518 | 1767 | 2385 | 3126 | 3782 | 3979 | 4709 | 6381 | 7553 |
| Useful head system side | kPa | 67,0 | 64,0 | 62,0 | 55,0 | 69,0 | 61,0 | 41,0 | 34,0 | 55,0 | 81,0 | 53,0 |

ANL - (HN/HQ) - (400V 3N ~ 50Hz)

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|---------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 16,3 | 19,9 | 24,5 | 26,3 | 31,1 | 38,7 | 49,0 |
| Input power | kW | - | - | - | - | 4,6 | 6,2 | 7,0 | 7,0 | 10,2 | 11,9 | 15,2 |
| Cooling total input current - 400V | A | - | - | - | - | 10,0 | 11,0 | 14,0 | 14,0 | 18,0 | 22,0 | 28,0 |
| EER | W/W | - | - | - | - | 3,54 | 3,23 | 3,51 | 3,76 | 3,07 | 3,25 | 3,23 |
| Water flow rate system side | l/h | - | - | - | - | 2784 | 3407 | 4189 | 4506 | 5338 | 6636 | 8410 |
| Useful head system side - ver. "Q" | kPa | - | - | - | - | 136 | 135 | 114 | 108 | 79 | 146 | 114 |
| Useful head system side - ver. "N" | kPa | - | - | - | - | - | - | - | - | 79 | 146 | 114 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 13,6 | 17,9 | 21,7 | 22,8 | 27,0 | 36,6 | 43,4 |
| Input power | kW | - | - | - | - | 3,6 | 4,7 | 5,4 | 5,7 | 8,4 | 10,2 | 11,7 |
| Heating total input current - 400V | А | - | - | - | - | 9,1 | 10,0 | 13,0 | 13,0 | 17,0 | 19,0 | 25,0 |
| COP | W/W | - | - | - | - | 3,75 | 3,79 | 4,00 | 4,01 | 3,22 | 3,57 | 3,71 |
| Water flow rate system side | l/h | - | - | - | - | 2385 | 3126 | 3782 | 3979 | 4709 | 6381 | 7553 |
| Useful head system side - ver. "Q" | kPa | - | - | - | - | 149 | 146 | 125 | 119 | 92 | 159 | 129 |
| Useful head system side - ver. "N" | kPa | - | - | - | - | - | - | - | - | 92 | 159 | 129 |

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

| Size | | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|-------------------------------------|---------------------|---------------|----------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | | | | | |
| Cooling capacity with low leaving v | vater temp (UE n° 2 | 016/2281) | | | | | | | | | | | |
| | ٥ | W/W | 3,13 | 3,19 | 3,28 | 3,34 | 3,76 | 3,49 | 3,80 | 3,91 | 3,58 | 3,74 | 3,73 |
| SEER | A,P | W/W | 3,29 | 3,36 | 3,45 | 3,50 | 3,89 | 3,69 | 3,99 | 4,16 | 3,55 | 3,53 | 3,55 |
| SEER | N | W/W | - | - | - | - | - | - | - | - | 3,14 | 3,48 | 3,53 |
| | Q | W/W | - | - | - | - | 3,30 | 3,24 | 3,53 | 3,75 | 3,14 | 3,48 | 3,53 |
| | 0 | % | 122,00 | 125,00 | 128,00 | 131,00 | 147,00 | 137,00 | 149,00 | 153,00 | 140,00 | 146,00 | 146,00 |
| | A,P | % | 129,00 | 131,00 | 135,00 | 137,00 | 153,00 | 145,00 | 157,00 | 163,00 | 139,00 | 138,00 | 139,00 |
| ηςς | N | % | - | - | - | - | - | - | - | - | 123,00 | 136,00 | 138,00 |
| | Q | % | - | - | - | - | 129,00 | 127,00 | 138,00 | 147,00 | 123,00 | 136,00 | 138,00 |
| UE 811/2013 performance in avera | ge ambient conditi | ons (average) | - 35 °C - Pdes | ignh ≤ 70 kV | V (1) | | | | | | | | |
| | 0 | kW | 6,00 | 6,00 | 8,00 | 9,00 | 13,00 | 16,00 | 20,00 | 21,00 | 25,00 | 33,00 | 40,00 |
| Ddarianh | A,P | kW | 6,00 | 6,00 | 8,00 | 9,00 | 12,00 | 16,00 | 20,00 | 21,00 | 24,00 | 33,00 | 39,00 |
| Pdesignh | N | kW | - | - | - | - | - | - | - | - | 24,00 | 33,00 | 39,00 |
| | Q | kW | - | - | - | - | 12,00 | 16,00 | 19,00 | 21,00 | 24,00 | 33,00 | 39,00 |
| | 0 | W/W | 3,30 | 3,30 | 3,33 | 3,28 | 3,43 | 3,43 | 3,58 | 3,50 | 3,53 | 3,58 | 3,70 |
| CCOD | A,P | W/W | 3,40 | 3,40 | 3,40 | 3,35 | 3,48 | 3,48 | 3,60 | 3,53 | 3,45 | 3,45 | 3,60 |
| SCOP | N | W/W | - | - | - | - | - | - | - | - | 3,23 | 3,35 | 3,53 |
| | Q | W/W | - | - | - | - | 3,23 | 3,28 | 3,43 | 3,40 | 3,23 | 3,35 | 3,53 |
| | 0 | % | 129,00 | 129,00 | 130,00 | 128,00 | 134,00 | 134,00 | 140,00 | 137,00 | 138,00 | 140,00 | 145,00 |
| | A,P | % | 133,00 | 133,00 | 133,00 | 131,00 | 136,00 | 136,00 | 141,00 | 138,00 | 135,00 | 135,00 | 141,00 |
| ηsh | N | % | - | - | - | - | - | - | - | - | 126,00 | 131,00 | 138,00 |
| | Q | % | - | - | - | - | 126,00 | 128,00 | 134,00 | 133,00 | 126,00 | 131,00 | 138,00 |
| | 0 | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A++ | A++ |
| Tetrain au annum dans | A,P | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Efficiency energy class | N | | - | - | - | - | - | - | - | - | A+ | A+ | A+ |
| | Q | | - | - | - | - | A+ |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | |
|-----------------------|-----|---|------|------|------|------|------|------|-------|------|------|------|-------|
| Size | | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
| Power supply: ° | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | |
| | 0 | A | 7,0 | 7,0 | 7,7 | 9,7 | 11,3 | 13,5 | 16,3 | 17,3 | 22,0 | 26,0 | 32,0 |
| Mariana and (FLA) | A,P | A | 7,7 | 7,7 | 8,4 | 10,4 | 13,3 | 15,5 | 18,3 | 19,3 | 23,9 | 29,1 | 35,1 |
| Maximum current (FLA) | N | А | - | - | - | - | - | - | - | - | 26,2 | 30,2 | 36,2 |
| | Q | Α | - | - | - | - | 14,0 | 13,5 | 19,0 | 20,0 | 26,2 | 30,2 | 36,2 |
| | 0 | A | 27,5 | 33,5 | 36,7 | 49,7 | 65,3 | 75,3 | 102,3 | 96,3 | 76,0 | 87,0 | 117,0 |
| D 1 ((DA) | A,P | A | 28,2 | 34,2 | 37,4 | 50,4 | 67,3 | 75,3 | 104,3 | 98,3 | 77,9 | 90,1 | 120,1 |
| Peak current (LRA) | N | Α | - | - | - | - | - | - | - | - | 80,2 | 91,2 | 121,2 |
| | Q | A | - | - | - | - | 68,0 | 75,3 | 105,0 | 99,0 | 80,2 | 91,2 | 121,2 |
| Power supply: M | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | |
| | 0 | A | 17,5 | 17,5 | 20,7 | 24,7 | - | - | - | - | - | - | - |
| Maximum current (FLA) | A,P | A | 18,5 | 18,5 | 20,5 | 25,6 | - | - | - | - | - | - | - |
| | N,Q | A | - | - | - | - | - | - | - | - | - | - | - |
| | 0 | А | 59,5 | 62,5 | 83,7 | 98,7 | - | - | - | - | - | - | - |
| Peak current (LRA) | A,P | A | 60,5 | 63,5 | 84,5 | 99,6 | - | - | - | - | - | - | - |
| | N,Q | А | - | - | - | - | - | - | - | - | - | - | - |

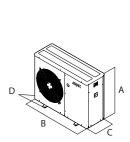
GENERAL TECHNICAL DATA

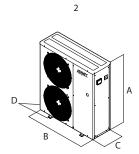
| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|----------------------------|------|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|
| Compressor | | | | | | | | | | | | |
| Туре | type | | | | | | Scroll | | | | | |
| Compressor regulation | Туре | | | | | | On-Off | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | | | | | | R410A | | | | | |
| Refrigerant charge (1) | kg | 1,8 | 1,8 | 2,0 | 2,0 | 2,9 | 2,9 | 3,1 | 3,9 | 4,6 | 5,4 | 5,7 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | type | | | | | | Brazed plate | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | Туре | | | | | | Gas - F | | | | | |
| Sizes (in/out) | Ø | | | | | | 1" 1/4 | | | | | |
| Fan | | | | | | | | | | | | |
| Туре | type | | | | | | Axial | | | | | |

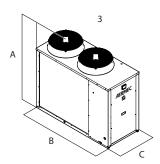
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|------------------------------------|---------|--------------|--------------|--------------|----------|----------|----------|----------|----------|--------------|--------------|--------------|
| Fan motor | type | Asynchronous | Asynchronous | Asynchronous | Inverter | Inverter | Inverter | Inverter | Inverter | Asynchronous | Asynchronous | Asynchronous |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | m³/h | 2500 | 2500 | 3500 | 3500 | 7200 | 7200 | 7300 | 7200 | 14000 | 13500 | 13500 |
| Sound data calculated in cooling m | ode (2) | | | | | | | | | | | |
| Sound power level | dB(A) | 61,0 | 61,0 | 68,0 | 68,0 | 69,0 | 69,0 | 69,0 | 68,0 | 76,0 | 77,0 | 78,0 |
| Sound pressure level (10 m) | dB(A) | 29,8 | 29,8 | 36,8 | 36,8 | 37,6 | 37,6 | 37,6 | 36,6 | 44,5 | 45,5 | 46,5 |

DIMENSIONS







- ANL 021 041 1 ANL 051 - 091 2
- 3 ANL 103 - 203

| Size | · | , and the second | 021 | 026 | 031 | 041 | 051 | 071 | 081 | 091 | 103 | 153 | 203 |
|------------------------|-----|--|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| | °,P | mm | 1000 | 1000 | 1000 | 1000 | 1252 | 1252 | 1252 | 1252 | 1450 | 1450 | 1450 |
| ٨ | A | mm | 1015 | 1015 | 1015 | 1015 | 1281 | 1281 | 1281 | 1281 | 1450 | 1450 | 1450 |
| A | N | mm | - | - | - | - | - | - | - | - | 1450 | 1450 | 1450 |
| | Q | mm | - | - | - | - | 1281 | 1281 | 1281 | 1281 | 1450 | 1450 | 1450 |
| | °,P | mm | 900 | 900 | 900 | 900 | 1124 | 1124 | 1124 | 1124 | 1750 | 1750 | 1750 |
| В | A | mm | 1124 | 1124 | 1124 | 1124 | 1165 | 1165 | 1165 | 1165 | 1750 | 1750 | 1750 |
| D | N | mm | - | - | - | - | - | - | - | - | 1750 | 1750 | 1750 |
| | Q | mm | - | - | - | - | 1165 | 1165 | 1165 | 1165 | 1750 | 1750 | 1750 |
| | °,P | mm | 310 | 310 | 310 | 310 | 384 | 384 | 384 | 384 | 750 | 750 | 750 |
| ſ | A | mm | 384 | 384 | 384 | 384 | 550 | 550 | 550 | 550 | 750 | 750 | 750 |
| | N | mm | - | - | - | - | - | - | - | - | 750 | 750 | 750 |
| | Q | mm | - | - | - | - | 550 | 550 | 550 | 550 | 750 | 750 | 750 |
| | °,P | mm | 354 | 354 | 354 | 354 | 428 | 428 | 428 | 428 | - | - | - |
| D | A | mm | 428 | 428 | 428 | 428 | - | - | - | - | - | - | - |
| U | N | mm | - | - | - | - | - | - | - | - | - | - | - |
| | Q | mm | - | - | - | - | - | - | - | - | - | - | - |
| | • | kg | 86 | 86 | 86 | 86 | 120 | 120 | 120 | 156 | 270 | 293 | 329 |
| | A | kg | 103 | 103 | 103 | 103 | 147 | 147 | 183 | 183 | 338 | 364 | 400 |
| Empty weight | N | kg | - | - | - | - | - | - | - | - | 338 | 364 | 400 |
| | P | kg | 91 | 91 | 91 | 91 | 127 | 127 | 163 | 163 | 288 | 314 | 350 |
| | Q | kg | - | - | - | - | 147 | 147 | 183 | 183 | 338 | 364 | 400 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).





















NRK 0090-0150

Reversible air/water heat pump

Cooling capacity 18,4 ÷ 31,0 kW Heating capacity 20,8 ÷ 34,4 kW



- Cooling / heating / high-temperature water production even for DHW production.
- Water produced up to +65 °C
- Heating operations with external temperatures down to -20 °C
- Optimised for heating mode





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential, commercial complexes or industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° High efficiency

FEATURES

Operating field

Working at full load up to -20 $^{\circ}$ C outside air temperature in winter, and up to 48 $^{\circ}$ C in summer. Hot water production up to 65 $^{\circ}$ C.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one pumps or storage tank to obtain a solution that allows you to save money and to facilitate installation.

Components

Water filter, flow switch, low and high pressure transducers as standard supply on all units.

Hot water production

In the configuration with desuperheater, it is also possible to produce free-hot water.

DCPX as standard

Phase-cut device that regulates the fan speed to ensure optimum unit operation in all conditions.

CONTROL

MODUCONTROL control type.

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SAF: Thermal buffer tank kit with instantaneous Domestic Hot Water production. For more information about SAF refer to the dedicated documentation.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps. **VT:** Antivibration supports

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

■ Refer to the specific "SAF" datasheet for more information about correct system operation, and about the required or recommended accessories. Please consult the VMF system for the production of DHW with a thermal storage tank not supplied by Aermec.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0090 | 0100 | 0150 |
|--------------|-----|------|------|------|
| AERLINK | 0 | • | • | • |
| AERNET | 0 | • | • | • |
| BMConverter | 0 | • | • | • |
| MODU-485BL | 0 | • | • | • |
| MULTICONTROL | 0 | • | • | • |
| PR3 | 0 | • | • | • |
| SAF (1) | 0 | • | • | • |
| SDHW (2) | 0 | • | • | • |
| SPLW (3) | 0 | • | • | • |
| VMF-CRP | ۰ | • | • | • |

- (1) For more information about SAF refer to the dedicated documentation.
 (2) Probe required for MULTICONTROL for managing the domestic hot water system.
 (3) Probe required for MULTICONTROL to manage the secondary circuit system.

BSKW: Electric heater kit

| Model | Ver | 0090 | 0100 | 0150 |
|-----------|-----|------|------|------|
| BS6KW400T | 0 | • | • | • |
| BS9KW400T | 0 | • | • | • |

BS6KW400T (6kW, 400V 3); BS9KW400T (9kW, 400V 3)

VT: Antivibration

| Ver | 0090 | 0100 | 0150 |
|---|------|------|------|
| Integrated hydronic kit: 00, 01, 03, P1, P3 | | | |
| 0 | VT15 | VT15 | VT15 |

DRE: Device for peak current reduction

| Ver | 0090 | 0100 | 0150 |
|-----|-----------|-----------|-----------|
| 0 | DRE10 (1) | DRE10 (1) | DRE15 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--------------------------------------|
| 1,2,3 | NRK |
| 4,5,6,7 | Size 0090, 0100, 0150 |
| 8 | Operating field (1) |
| 0 | Standard mechanic thermostatic valve |
| 9 | Model |
| Н | Heat pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (2) |
| 11 | Version |
| 0 | High efficiency |
| 12 | Coils |
| 0 | Alluminium |

| Field | Description |
|-------|------------------------------------|
| R | Copper pipes-copper fins |
| S | Tinned copper |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard |
| 14 | Power supply |
| 0 | 400V ~ 3N 50Hz |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| 01 | Storage tank with low head pump |
| 03 | Storage tank with high head pump |
| P1 | Single pump low head |
| P3 | Single pump high head |

- (1) Water produced up to $+4\,^{\circ}\text{C}$. (2) The desuperheater can only be used with cold running.

PERFORMANCE SPECIFICATIONS

NRK - (°) / 12/7 °C - 40/45 °C

| Size | | 0090 | 0100 | 0150 |
|---------------------------------------|-----|------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | |
| Cooling capacity | kW | 18,4 | 26,4 | 31,0 |
| Input power | kW | 5,8 | 8,4 | 9,8 |
| Cooling total input current | A | 13,0 | 18,0 | 20,0 |
| EER | W/W | 3,19 | 3,15 | 3,15 |
| Water flow rate system side | l/h | 3172 | 4546 | 5338 |
| Pressure drop system side | kPa | 19 | 39 | 54 |
| Heating performance 40 °C / 45 °C (2) | | | | |
| Heating capacity | kW | 20,8 | 28,7 | 34,4 |
| Input power | kW | 6,1 | 8,3 | 10,3 |
| Heating total input current | A | 14,0 | 17,0 | 21,0 |
| COP | W/W | 3,40 | 3,45 | 3,34 |
| Water flow rate system side | l/h | 3601 | 4965 | 5953 |
| Pressure drop system side | kPa | 24 | 45 | 65 |

NRK - (°) / 23/18 °C - 30/35 °C

| Size | | 0090 | 0100 | 0150 |
|---------------------------------------|-----|------|------|------|
| Cooling performance 23 °C / 18 °C (1) | | | | |
| Cooling capacity | kW | 24,5 | 34,9 | 40,9 |
| Input power | kW | 6,1 | 9,0 | 10,6 |
| Cooling total input current | A | 14,0 | 18,0 | 22,0 |
| EER | W/W | 4,03 | 3,88 | 3,86 |
| Water flow rate system side | l/h | 4236 | 6040 | 7093 |
| Pressure drop system side | kPa | 34 | 69 | 95 |
| Heating performance 30 °C/35 °C (2) | | | | |
| Heating capacity | kW | 20,4 | 28,2 | 33,8 |
| Input power | kW | 5,0 | 6,7 | 8,3 |
| Heating total input current | A | 11,0 | 14,0 | 17,0 |
| COP | W/W | 4,11 | 4,22 | 4,09 |
| Water flow rate system side | I/h | 3521 | 4866 | 5833 |
| Pressure drop system side | kPa | 23 | 43 | - |

ENERGY DATA

| Size | | | 0090 | 0100 | 0150 |
|-----------------------------------|---------------------------|------------------------------------|--------|--------|--------|
| Cooling capacity with low leaving | water temp (UE n° 2016/2 | 281) | | | |
| SEER | 0 | W/W | 3,35 | 3,39 | 3,42 |
| Jsc | ٥ | % | 131,10 | 132,60 | 133,80 |
| UE 811/2013 performance in aver | age ambient conditions (a | verage) - 55 °C - Pdesignh ≤ 70 kl | W (1) | | |
| Pdesignh | 0 | kW | 22 | 28 | 34 |
| SCOP | 0 | W/W | 3,03 | 2,98 | 2,90 |
| ηsh | 0 | % | 118,00 | 116,00 | 113,00 |
| Efficiency energy class | ٥ | | A+ | A+ | A+ |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| Size | | | 0090 | 0100 | 0150 |
|-----------------------|---|---|-------|-------|-------|
| Electric data | | | | | |
| Maximum current (FLA) | 0 | A | 19,1 | 24,6 | 29,5 |
| Peak current (LRA) | 0 | A | 104,2 | 121,2 | 143,2 |

NRK-0090-0150-HP_Y_UN50_05 384 www.aermec.com

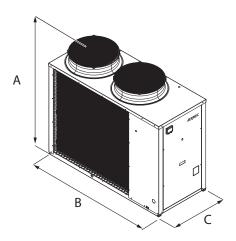
⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C
(2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

GENERAL TECHNICAL DATA

| Size | | | 0090 | 0100 | 0150 |
|-------------------------------------|---------|-------|-------|--------------|-------|
| Compressor | | | | | |
| Туре | 0 | type | | Scroll | |
| Compressor regulation | 0 | Туре | | On-Off | |
| Number | 0 | no. | 1 | 1 | 1 |
| Circuits | 0 | no. | 1 | 1 | 1 |
| Refrigerant | 0 | type | | R410A | |
| Refrigerant charge (1) | 0 | kg | 13,0 | 14,0 | 16,0 |
| System side heat exchanger | | | | | |
| Туре | 0 | type | | Brazed plate | |
| Number | 0 | no. | 1 | 1 | 1 |
| Hydraulic connections | | | | | |
| Connections (in/out) | o | Туре | | Gas-F | |
| Size (in) | 0 | Ø | | 11/2" | |
| Size (out) | 0 | Ø | | 11/2" | |
| Fan | | | | | |
| Туре | 0 | type | | axials | |
| Fan motor | o | type | | Asynchronous | |
| Number | 0 | no. | 2 | 2 | 2 |
| Air flow rate | 0 | m³/h | 14200 | 14200 | 13700 |
| Sound data calculated in cooling mo | ode (2) | | · | | |
| Sound power level | 0 | dB(A) | 78,0 | 78,0 | 78,0 |
| Sound pressure level (10 m) | 0 | dB(A) | 46,5 | 46,5 | 46,5 |

DIMENSIONS



| Size | | | 0090 | 0100 | 0150 |
|------------------------|---|----|------|------|------|
| Dimensions and weights | | | | | |
| A | 0 | mm | 1450 | 1450 | 1450 |
| В | 0 | mm | 1750 | 1750 | 1750 |
| (| 0 | mm | 750 | 750 | 750 |
| Empty weight | 0 | kg | 289 | 328 | 372 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).





















NRK 0200-0700

Reversible air/water heat pump

Cooling capacity 35,5 ÷ 148 kW Heating capacity 42,31 ÷ 175 kW



- Water produced up to +65 °C
- Heating operations with external temperatures down to -20 °C
- Optimized for operation in heating mode
- Night mode





DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

It's optimised for use in heating mode, and can be combined not only with low-temperature emission systems such as floor heating or fan coils, but also conventional radiators.

Equipped with scroll compressors, axial fans, external coil with aluminium louvers, plate heat exchanger on the side.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency **E** Silenced high efficiency

FEATURES

Operating field

Working at full load up to -20 °C outside air temperature in winter, and up to 48 °C in summer. Hot water production up to 65 °C.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to facilitate installation.

Components

Water filter, flow switch, low and high pressure transducers as standard supply on all units.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

CONTROL

pCO⁵ control type

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

PRM1: It is a manual pressure switch electrically wired in series with the existing automatic high pressure switch on the compressor discharge nine.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating

parameters and graphically view the progress of some variables in real time

AERCALM: The aim of the accessory installed in the electric box of the unit is to provide a clean contact for commanding - on the basis of the outside air temperature - a boiler to replace the heat pump. Aercalm must be requested at the time of ordering, as it is installed in the factory.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A | | | | | • | • | • | • | • | • |
| AEK483P1 | E | • | • | • | • | • | • | • | • | • | |
| AERBACP | A | | | | | • | • | • | • | • | • |
| AENDACY | E | • | • | • | • | • | • | • | • | • | • |
| AERLINK | A | | | | | • | • | • | • | • | |
| AEKLINK | E | • | • | • | • | • | • | • | • | • | • |
| AFDNET | A | | | | | • | • | • | • | • | • |
| AERNET | E | • | • | • | • | • | • | • | • | • | • |
| BMConverter | A | | | | | • | • | • | • | • | • |
| biviconverter | E | • | • | • | • | • | • | • | • | • | • |
| MULTICULUED EVO | A | | | | | • | • | • | • | • | • |
| MULTICHILLER_EVO | E | • | • | • | • | • | • | • | • | • | • |
| DCD1 | A | | | | | • | • | • | • | • | • |
| PGD1 | E | • | • | • | | • | • | • | • | • | |

GP: anti-intrusion grid

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| E | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) |

⁽¹⁾ x_i indicates the quantity to buy

VT: Antivibration

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|--------------------------------------|--------------------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, P1, P2, | , P3, P4 | | | | | | | | | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| E | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| Integrated hydronic kit: 01, 02, 03, | 04, 05, 06, 07, 08 | | | | | | | | | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 |

DRE: Device for peak current reduction

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | - | - | - | - | DRE351 (1) | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) |
| E | DRE201 (1) | DRE281 (1) | DRE301 (1) | DRE331 (1) | DRE351 (1) | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

A grey background indicates the accessory must be assembled in the factory

RIF: Power factor correction

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | - | - | - | - | RIF65 | RIF58 | RIF59 | RIF60 | RIF61 | RIF61 |
| E | RIF55 | RIF56 | RIF54 | RIF57 | RIF65 | RIF58 | RIF59 | RIF60 | RIF61 | RIF61 |

A grey background indicates the accessory must be assembled in the factory

PRM1: Manually reset pressure switch

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------|------|------|------|------|------|------|------|------|------|
| A | - | - | - | - | PRM1 | PRM1 | PRM1 | PRM1 | PRM1 | PRM1 |
| E | PRM1 |

A grey background indicates the accessory must be assembled in the factory

7", touch screen keyboard

| Model | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------|-----|------|------|------|------|------|------|------|------|------|------|
| C TOUCH | A | | | | | • | • | • | • | • | • |
| C-TOUCH | F | | | | | | | | | | |

Clean contact for controlling a boiler.

| Model | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----------|-----|------|------|------|------|------|------|------|------|------|------|
| AERCALM | A | | | | | • | • | • | • | • | • |
| AERCALIVI | E | | | | | | | | | | |

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRK |
| 4,5,6,7 | Size 0200, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700 |
| 8 | Operating field (1) |
| 0 | Standard mechanic thermostatic valve |
| 9 | Model |
| Н | Heat pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (2) |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| ٧ | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard (3) |
| J | Inverter (4) |
| M | Oversized (5) |
| 14 | Power supply |
| ۰ | 400V 3N ~ 50Hz |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| 05 | Storage tank with holes for heaters and single low head pump (6) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (6) |
| 07 | Storage tank with holes for heaters and single high head pump (6) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (6) |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |

static pressure.

(5) Option available only for size 0200÷0330.

(6) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

NRK - A / 12/7 °C - 40/45 °C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | 0200 | 0200 | | 0330 | 0330 | | 0330 | | 0050 | |
| Cooling capacity | kW | - | - | - | - | 75,4 | 88,8 | 101,6 | 117,4 | 133,4 | 148,1 |
| Input power | kW | - | - | - | - | 25,4 | 29,5 | 34,4 | 41,0 | 45,0 | 52,6 |
| Cooling total input current | A | - | - | - | - | 55,0 | 61,0 | 66,0 | 72,0 | 87,0 | 107,0 |
| EER | W/W | - | - | - | - | 2,97 | 3,01 | 2,95 | 2,86 | 2,97 | 2,82 |
| Water flow rate system side | l/h | - | - | - | - | 12983 | 15278 | 17488 | 20211 | 22975 | 25516 |
| Pressure drop system side | kPa | - | - | - | - | 23 | 26 | 32 | 28 | 34 | 42 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 87,9 | 103,9 | 118,9 | 136,6 | 155,6 | 174,4 |
| Input power | kW | - | - | - | - | 25,5 | 30,2 | 34,7 | 39,9 | 45,6 | 51,7 |
| Heating total input current | А | - | - | - | - | 54,0 | 59,0 | 64,0 | 70,0 | 85,0 | 106,0 |
| COP | W/W | - | - | - | - | 3,45 | 3,44 | 3,42 | 3,42 | 3,41 | 3,37 |
| Water flow rate system side | l/h | - | - | - | - | 15236 | 18010 | 20602 | 23680 | 26988 | 30254 |
| Pressure drop system side | kPa | - | - | - | - | 32 | 36 | 44 | 37 | 45 | 57 |

⁽¹⁾ Water produced up to +4 °C
(2) The desuperheater must be isolated in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(3) As standard in sizes fom 0350-0700.
(4) Standard for size 0200+0330, without useful static pressure. Option for size 0350÷0700 with useful

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRK-E/12/7°C-40/45°C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 35,6 | 50,4 | 59,5 | 66,1 | 74,4 | 87,4 | 99,8 | 114,5 | 130,8 | 145,3 |
| Input power | kW | 11,7 | 17,4 | 19,5 | 22,3 | 27,6 | 32,4 | 38,1 | 45,8 | 49,5 | 58,1 |
| Cooling total input current | A | 28,0 | 38,0 | 42,0 | 49,0 | 60,0 | 67,0 | 73,0 | 72,0 | 95,0 | 119,0 |
| EER | W/W | 3,05 | 2,90 | 3,05 | 2,96 | 2,69 | 2,70 | 2,62 | 2,50 | 2,64 | 2,50 |
| Water flow rate system side | l/h | 6131 | 8670 | 10235 | 11379 | 12801 | 15035 | 17175 | 19713 | 22512 | 25033 |
| Pressure drop system side | kPa | 18 | 17 | 23 | 19 | 22 | 25 | 30 | 27 | 32 | 41 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 42,2 | 59,7 | 69,4 | 78,2 | 87,9 | 103,9 | 118,9 | 136,6 | 155,6 | 174,4 |
| Input power | kW | 12,0 | 17,0 | 19,9 | 22,4 | 25,5 | 30,2 | 34,7 | 39,9 | 45,6 | 51,7 |
| COP | W/W | 3,50 | 3,50 | 3,49 | 3,49 | 3,45 | 3,44 | 3,42 | 3,42 | 3,41 | 3,37 |
| Heating total input current | A | 24,0 | 34,0 | 38,0 | 44,0 | 54,0 | 59,0 | 64,0 | 70,0 | 85,0 | 106,0 |
| Water flow rate system side | l/h | 7318 | 10355 | 12032 | 13569 | 15236 | 18010 | 20602 | 23680 | 26988 | 30254 |
| Pressure drop system side | kPa | 24 | 22 | 30 | 25 | 32 | 36 | 44 | 37 | 45 | 57 |

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

NRK - A / 23/18 °C - 30/35 °C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 93,2 | 108,2 | 122,7 | 143,0 | 165,0 | 181,0 |
| Input power | kW | - | - | - | - | 26,4 | 30,7 | 35,9 | 43,3 | 47,0 | 55,1 |
| Cooling total input current | А | - | - | - | - | 57,0 | 63,0 | 69,0 | 75,0 | 90,0 | 112,0 |
| EER | W/W | - | - | - | - | 3,54 | 3,53 | 3,42 | 3,30 | 3,51 | 3,28 |
| Water flow rate system side | l/h | - | - | - | - | 16111 | 18705 | 21231 | 24719 | 28513 | 31266 |
| Pressure drop system side | kPa | - | - | - | - | 35 | 39 | 47 | 42 | 52 | 63 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 86,4 | 101,5 | 114,6 | 132,6 | 150,2 | 170,5 |
| Input power | kW | - | - | - | - | 20,6 | 24,5 | 27,8 | 31,7 | 37,0 | 41,9 |
| Heating total input current | А | - | - | - | - | 44,0 | 48,0 | 51,0 | 55,0 | 68,0 | 85,0 |
| COP | W/W | - | - | - | - | 4,19 | 4,15 | 4,13 | 4,19 | 4,06 | 4,06 |
| Water flow rate system side | l/h | - | - | - | - | 14931 | 17533 | 19787 | 22919 | 25938 | 29467 |
| Pressure drop system side | kPa | - | - | - | - | 31 | 34 | 41 | 35 | 42 | 54 |

NRK-E/23/18°C-30/35°C

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 44,2 | 61,5 | 72,1 | 80,9 | 91,9 | 106,5 | 120,6 | 139,5 | 161,7 | 177,5 |
| Input power | kW | 12,2 | 18,2 | 20,4 | 23,5 | 28,7 | 33,6 | 39,7 | 48,3 | 51,7 | 60,8 |
| Cooling total input current | А | 29,0 | 40,0 | 44,0 | 51,0 | 62,0 | 69,0 | 76,0 | 75,0 | 99,0 | 124,0 |
| EER | W/W | 3,64 | 3,37 | 3,53 | 3,44 | 3,20 | 3,16 | 3,04 | 2,89 | 3,13 | 2,92 |
| Water flow rate system side | I/h | 7643 | 10631 | 12470 | 13977 | 15886 | 18408 | 20850 | 24110 | 27939 | 30673 |
| Pressure drop system side | kPa | 28 | 26 | 34 | 29 | 34 | 37 | 44 | 40 | 49 | 62 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 41,4 | 57,2 | 67,2 | 75,7 | 86,4 | 101,5 | 114,6 | 132,6 | 150,2 | 170,5 |
| Input power | kW | 9,4 | 13,3 | 15,8 | 18,1 | 20,6 | 24,5 | 27,8 | 31,7 | 37,0 | 41,9 |
| Heating total input current | Α | 19,0 | 26,0 | 30,0 | 35,0 | 44,0 | 48,0 | 51,0 | 55,0 | 68,0 | 85,0 |
| COP | W/W | 4,41 | 4,31 | 4,26 | 4,18 | 4,19 | 4,15 | 4,13 | 4,19 | 4,06 | 4,06 |
| Water flow rate system side | l/h | 7156 | 9895 | 11628 | 13083 | 14931 | 17533 | 19787 | 22919 | 25938 | 29467 |
| Pressure drop system side | kPa | 23 | 20 | 28 | 23 | 31 | 34 | 41 | 35 | 42 | 54 |
| (4) 0 | | | | | | | | | | | |

ENERGY DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---|---------------|-----------------|----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving water t | emp (UE n° 2 | 016/2281) | | | | | | | | | | |
| SEER | Α | W/W | - | - | - | - | 3,45 | 3,52 | 3,46 | 3,42 | 3,44 | 3,33 |
| DEEK | E | W/W | 3,40 | 3,30 | 3,48 | 3,39 | 3,35 | 3,42 | 3,34 | 3,29 | 3,35 | 3,27 |
| nce | Α | % | - | - | - | - | 134,80 | 137,60 | 135,20 | 133,70 | 134,60 | 130,00 |
| ηςς | E | % | 133,00 | 128,80 | 136,10 | 132,50 | 130,90 | 133,70 | 130,60 | 128,70 | 130,90 | 127,90 |
| UE 813/2013 performance in average aml | bient conditi | ons (average) - | 55 °C - Pdesig | nh ≤ 400 kW (| 1) | | | | | | | |
| Delacionale | Α | kW | - | - | - | - | 89 | 106 | 121 | 137 | 157 | 178 |
| Pdesignh | E | kW | 44 | 62 | 70 | 80 | 89 | 106 | 121 | 137 | 157 | 178 |
| SCOP | Α | W/W | - | - | - | - | 2,88 | 2,90 | 3,03 | 3,03 | 2,93 | 2,90 |
| SCOP | E | W/W | 3,08 | 3,03 | 3,00 | 3,03 | 2,88 | 2,90 | 3,03 | 3,03 | 2,93 | 2,90 |
| nch | Α | % | - | - | - | - | 112,00 | 113,00 | 118,00 | 118,00 | 114,00 | 113,00 |
| ηsh | E | % | 120,00 | 118,00 | 117,00 | 118,00 | 112,00 | 113,00 | 118,00 | 118,00 | 114,00 | 113,00 |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C /7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/ 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Mariana Artification | А | A | - | - | - | - | 75,0 | 85,0 | 94,0 | 114,0 | 144,0 | 147,0 |
| Maximum current (FLA) | E | A | 40,0 | 49,0 | 61,0 | 74,0 | 75,0 | 85,0 | 94,0 | 114,0 | 144,0 | 147,0 |
| Deals surrent (LDA) | А | A | - | - | - | - | 216,0 | 226,0 | 191,0 | 228,0 | 285,0 | 288,0 |
| Peak current (LRA) | E | A | 124,0 | 146,0 | 175,0 | 215,0 | 216,0 | 226,0 | 191,0 | 228,0 | 285,0 | 288,0 |

GENERAL TECHNICAL DATA

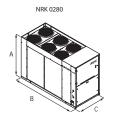
| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------------------------|---------|-------|-------|-------|-------|-------|--------|----------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Sc | roll | | | | |
| Compressor regulation | A,E | Type | | | | | On- | -Off | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 4 |
| Circuits | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | R4 | 10A | | | | |
| Defrimenent sharms (1) | А | kg | - | - | - | - | 23,0 | 28,0 | 29,0 | 29,0 | 39,0 | 40,0 |
| Refrigerant charge (1) | E | kg | 14,0 | 16,0 | 16,0 | 16,0 | 23,0 | 28,0 | 29,0 | 29,0 | 39,0 | 40,0 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Braze | d plate | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | Groove | d joints | | | | |
| Sizes (in/out) | A,E | Ø | 21/2" | 21/2" | 21/2" | 2½" | 21/2" | 2½" | 2½" | 21/2" | 2½" | 3" |
| Fan | | | | | | | | | | | | |
| Туре | A,E | type | | | | | ax | ials | | | | |
| Number | A | no. | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 |
| Nulliber | E | no. | 4 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 |
| Air flow rate | A | m³/h | - | - | - | - | 37000 | 36500 | 36500 | 36500 | 58000 | 58000 |
| AIT HOW rate | E | m³/h | 14000 | 20000 | 26000 | 26000 | 21100 | 21400 | 22400 | 22400 | 31900 | 31900 |
| Sound data calculated in cooling m | ode (2) | | | | | | | | | | | |
| Cound nower level | A | dB(A) | - | - | - | - | 82,0 | 82,0 | 82,0 | 83,0 | 85,0 | 85,0 |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 75,0 | 75,0 | 74,0 | 74,0 | 74,0 | 75,0 | 77,0 | 77,0 |
| Cound procesure lovel (10 m) | A | dB(A) | - | - | - | - | 50,1 | 50,1 | 50,1 | 51,1 | 53,0 | 53,0 |
| Sound pressure level (10 m) | E | dB(A) | 42,3 | 42,3 | 43,2 | 43,2 | 42,1 | 42,1 | 42,1 | 43,1 | 45,0 | 45,0 |

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

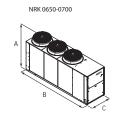
DIMENSIONS











| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|------------------------|---|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | |
| Δ. | A | mm | - | - | - | - | 1875 | 1875 | 1875 | 1875 | 1875 | 1875 |
| A | E | mm | 1606 | 1606 | 1606 | 1606 | 1875 | 1875 | 1875 | 1875 | 1875 | 1875 |
| D | A | mm | - | - | - | - | 3330 | 3330 | 3330 | 3330 | 4330 | 4330 |
| В | E | mm | 2700 | 2700 | 3250 | 3250 | 3330 | 3330 | 3330 | 3330 | 4330 | 4330 |
| (| A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Emptyweight | Α | kg | - | - | - | - | 1118 | 1264 | 1325 | 1367 | 1562 | 1597 |
| Empty weight | E | kg | 804 | 876 | 960 | 967 | 1118 | 1264 | 1325 | 1367 | 1562 | 1597 |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRV 0550

Air-water chiller

Cooling capacity 108,3 kW



- Easy and quick to install compact
- · Reliability and modularity
- Microchannel coils





DESCRIPTION

NRV is made up of independent 108kW modules that can be connected to each other up to a power of 970kW. Every single module is an outdoor chiller to produce chilled water.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 47°C external air temperature. Unit can produce chilled water up to 4 °C.

Maximum yield at full load but even partial load, thanks to the partialisation steps that increase as the number of connected modules increases this ensures continuous adaptation to the actual system requirements.

Modularity

It is possible to couple up to 9 chillers designed to reduce the overall unit dimensions to a minimum.

The combination of the various chillers allows all the strengths of the individual module to be maintained.

Modularity allows you to adapt installation to the actual development needs of the system. This way the cooling capacity can be increased over time simply and affordably.

Modularity is essential when component redundancy is required, as it allows for a safer system design and increased reliability.

Hot water production

In the configuration with desuperheater, it is also possible to produce free-hot water.

Microchannel coils

Microchannel heat exchanger that guarantees higher thermal exchange yield. Circuit that optimises the liquid distribution in the coil, which is arranged with V beam geometry with open angle.

Components

Unit is already equipped with a water filter, differential pressure switch and butterfly check valves, useful to cut off the hydraulic circuit for maintenance; for instance, to clean the filter.

In the event of variable flow rate, the motorised hydronic valves can intercept one or more modules to reduce the flow rate in low heat load conditions.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

Night Mode is standard in the unit with J inverter fan and in the E silenced version. Either a DCPX or inverter fan is necessary for the high efficiency version.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

GPNY_BACK: kit with 1 anti-intrusion grid for the short side of the unit. **GPNYB_SIDE:** kit with 2 anti-intrusion grids for the long side of the

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

KNYB: Pair of caps with grooved joints assembled on the unit manifold. **KREC:** Accessory kit to remote the electric power supply input to the

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0550 |
|-------------------------|-----|------|
| AER485P1 | A,E | • |
| AERBACP | A,E | • |
| AERLINK | A,E | • |
| GPNYB_SIDE | A,E | • |
| GPNYB_SIDE GPNY_BACK | A,E | • |
| MULTICHILLER_EVO | A,E | • |
| PGD1 | A,E | • |

Condensation control temperature

| Ver | 0550 |
|---------|-------------|
| Fans: M | |
| A | DCPXNRV0550 |
| F | As standard |

DRE: electronic device for peak current reduction

| Ver | 0550 |
|-----|---------|
| A,E | DRE (1) |

(1) Contact the factory A grey background indicates the accessory must be assembled in the factory

KNYB: Pair of caps with grooved joints assembled on the unit manifold

| Ver | 0550 | |
|-----|------|--|
| A,E | KNYB | |

A grey background indicates the accessory must be assembled in the factory

KREC: kit to remote the electric power supply input to the back

| Ver | 0550 |
|-----|------|
| A,E | KREC |

A grey background indicates the accessory must be assembled in the factory

RIF: Power factor correction

| Ver | 0550 |
|-----|---------|
| A,E | RIF (1) |

⁽¹⁾ Contact the factory A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRV |
| 4,5,6,7 | Size 0550 |
| 8 | Operating field |
| ۰ | Standard mechanic thermostatic valve (1) |
| Х | Electronic thermostatic expansion valve |
| 9 | Model |
| 0 | Cooling only |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Aluminium microchannel |
| 0 | Coated aluminium microchannel |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| 13 | Fans |
| J | Inverter (2) |
| М | Oversized |
| 14 | Power supply (3) |
| 0 | 400V 3 ~ 50Hz |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |

(3) With magnet circuit breakers

PERFORMANCE SPECIFICATIONS

| Size | | | 0550 |
|--------------------------------------|-----|-----|-------|
| Cooling performance 12 °C / 7 °C (1) | | | |
| Cooling canacity | A | kW | 108,3 |
| Cooling capacity | E | kW | 103,8 |
| Innut nower | A | kW | 34,8 |
| Input power | E | kW | 36,2 |
| Cooling total input current | A,E | A | 62,0 |
| rrp. | A | W/W | 3,11 |
| EER | E | W/W | 2,86 |
| Water flow rate system side | A | l/h | 18646 |
| Water flow rate system side | E | l/h | 17862 |
| Pressure drop system side | A | kPa | 32 |
| | E | kPa | 30 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0550 |
|--------------------------------|----------------------------------|-----|--------|
| SEER - 12/7 (EN14825:2018) wit | th standard fans (1) | | |
| SEER | A | W/W | 4,39 |
| JEEN . | E | W/W | 4,33 |
| Seasonal efficiency | A | % | 172,6% |
| | E | % | 170,3% |
| SEER - (EN14825:2018) 12/7 wit | th inverter fans (1) | | |
| CEED | A | W/W | 4,51 |
| SEER | E | W/W | 4,45 |
| Concornal officional | A | % | 177,2% |
| Seasonal efficiency | E | % | 174,8% |
| SEPR - (EN14825: 2018) High te | mperature with standard fans (2) | | |
| SEPR | A,E | W/W | 5,62 |
| SEPR - (EN14825: 2018) High te | mperature with inverter fans (2) | | |
| SEPR | A,E | W/W | 5,62 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0550 |
|-----------------------|-----|---|-------|
| Electric data | | | |
| Maximum current (FLA) | A,E | A | 95,6 |
| Peak current (LRA) | A,E | A | 280,6 |

⁽¹⁾ Water produced up to +4 °C (2) With "J" fan is unnecessary DCPX accessory

GENERAL TECHNICAL DATA

| Size | | | 0550 |
|----------------------------------|-----|------|----------------|
| Compressor | | | |
| Туре | A,E | type | Scroll |
| Number | A,E | no. | 2 |
| Circuits | A,E | no. | 1 |
| Refrigerant | A,E | type | R410A |
| System side heat exchanger | | | |
| Туре | A,E | type | Brazed plate |
| Number | A,E | no. | 1 |
| System side hydraulic connection | ns | | |
| Connections (in/out) | A,E | Туре | Grooved joints |
| Sizes (in/out) | A,E | Ø | 6" |
| Fan | | | |
| Size | | | 0550 |
| Fans: J | | | |
| Fan | | | |
| Туре | A,E | type | axials |
| Fan motor | A,E | type | On-Off |
| Number | A,E | no. | 2 |

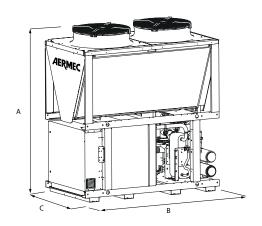
| Size | | | 0550 |
|---------------------------------|-------------|-------|--------------|
| Fans: J | | | |
| Fan | | | |
| Туре | A,E | type | axials |
| Fan motor | A,E | type | On-Off |
| Number | A,E | no. | 2 |
| Air flow rate | A | m³/h | 32000 |
| | E | m³/h | 24000 |
| High static pressure | A,E | Pa | 0 |
| Sound data calculated in coolir | | | |
| Causal manuar laural | A | dB(A) | 85,0 |
| Sound power level | E | dB(A) | 81,8 |
| Fans: M | | | |
| Fan | | | |
| Туре | A,E | type | axials |
| Fan motor | A,E | type | Asynchronous |
| Number | A,E | no. | 2 |
| Air flow rate | A | m³/h | 36000 |
| | E | m³/h | 24000 |
| High static pressure | A,E | Pa | 0 |
| Sound data calculated in coolir | ng mode (1) | | |
| Sound nower level | Α | dB(A) | 86,9 |
| | | | |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

dB(A)

DIMENSIONS

Sound power level



| Size | | | 0550 | | | |
|------------------------|-----|----|------|--|--|--|
| Dimensions and weights | | | | | | |
| A | A,E | mm | 2480 | | | |
| В | A,E | mm | 2200 | | | |
| C | A,E | mm | 1190 | | | |
| Empty weight | A,E | kg | 1105 | | | |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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81,8

395



















NRL 0280-0350

Air-water chiller

Cooling capacity 56 ÷ 82 kW



- Low noise levels in silenced versions
- High efficiency also at partial loads
- Night mode
- Compact dimensions





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 47 °C external air temperature. Unit can produce chilled water (up to -10°C of water produced in some versions).

Dual-circuit unit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, available to configurator, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

PRM1: It is a manual pressure switch electrically wired in series with the existing automatic high pressure switch on the compressor discharge nine

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating

parameters and graphically view the progress of some variables in real time

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 0280 | 0300 | 0330 | 0350 |
|------------------|-----|------|------|------|------|
| AER485P1 | E | • | • | • | • |
| AERBACP | E | • | • | • | • |
| AERLINK | E | • | • | • | • |
| AERNET | E | • | • | • | • |
| MULTICHILLER_EVO | E | • | • | • | • |
| PGD1 | E | • | • | • | • |
| Model | Ver | 0280 | 0300 | 0330 | 0350 |
| C-TOUCH | E | • | • | • | • |

Condensation control temperature

| Ver | 0280 | 0300 | 0330 | 0350 |
|---------|--------|--------|--------|--------|
| Fans: M | | | | |
| E | DCPX63 | DCPX63 | DCPX63 | DCPX63 |

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | | | |
|---|------|------|------|------|--|--|--|
| Integrated hydronic kit: 00, P1, P2, P3, P4 | | | | | | | |
| E | VT17 | VT17 | VT17 | VT17 | | | |
| Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, 09 | | | | | | | |
| E | VT13 | VT13 | VT13 | VT13 | | | |

Anti-intrusion grid

Device for peak current reduction

| Ver 0280 | | 0300 | 0330 | 0350 | | | | |
|-----------------|------------|------------|------------|------------|--|--|--|--|
| Power supply: ° | | | | | | | | |
| E | DRE281 (1) | DRE301 (1) | DRE331 (1) | DRE351 (1) | | | | |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction

| | Ver | 0280 | 0300 | 0330 | 0350 | | | |
|--|-----|-------|-------|-------|-------|--|--|--|
| | E | RIF50 | RIF50 | RIF50 | RIF51 | | | |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| | Description | | | | | | | |
|----|---|--|--|--|--|--|--|--|
| | NRL | | | | | | | |
| | | | | | | | | |
| ,7 | Size 0280, 0300, 0330, 0350 | | | | | | | |
| | Operating field | | | | | | | |
| 0 | Standard mechanic thermostatic valve (1) | | | | | | | |
| Χ | Electronic thermostatic expansion valve (1) | | | | | | | |
| Y | Low temperature mechanic thermostatic valve (2) | | | | | | | |
| | Model | | | | | | | |
| 0 | Cooling only | | | | | | | |
| C | Motocondensing unit | | | | | | | |
| | Heat recovery | | | | | | | |
| 0 | Without heat recovery | | | | | | | |
| D | With desuperheater (3) | | | | | | | |
| T | With total recovery | | | | | | | |
| | Version (4) | | | | | | | |
| E | Silenced high efficiency | | | | | | | |
| | Coils | | | | | | | |
| 0 | Copper-aluminium | | | | | | | |
| R | Copper pipes-copper fins | | | | | | | |
| S | Copper pipes-Tinned copper fins | | | | | | | |
| V | Copper pieps-Coated aluminium fins | | | | | | | |
| | Fans | | | | | | | |
| J | Inverter (5) | | | | | | | |
| M | Oversized (6) | | | | | | | |
| | Power supply | | | | | | | |
| 0 | 400V ~ 3N 50Hz with magnet circuit breakers | | | | | | | |
| , | Integrated hydronic kit | | | | | | | |
| | Without hydronic kit | | | | | | | |
| | R R M | | | | | | | |

| Field | Description |
|-------|--|
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (7) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (7) |
| 07 | Storage tank with holes for heaters and single high head pump (7) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (7) |
| | Double loop |
| 09 | Double loop |
| 10 | Double loop with supplementary electric heater |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |

- (1) Water produced from 4 °C ÷ 18 °C (2)) Water produced from 4 °C ÷ 18 °C for version"E", -10 °C for the others versions (3) For "YT" "ZT" "YD" and "ZD" recovery versions, contact the headquarters; Warning: on the recovery side, a minimum input temperature of 35°C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection program (4) The size up 0280 ÷ 0350 are only available in the silenced versions "E" with inverer fans (5) Standard for size 0280 ÷ 0350, without useful static pressure, option for other size with useful static pressure. (6) Standard for size 0500, without useful static pressure, option for other size with useful static pressure. (7) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRL - E

| Size | | 0280 | 0300 | 0330 | 0350 |
|--------------------------------------|-----|------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | |
| Cooling capacity | kW | 56,8 | 64,8 | 73,8 | 82,8 |
| Input power | kW | 17,1 | 19,7 | 22,1 | 25,5 |
| Cooling total input current | A | 30,0 | 34,0 | 37,0 | 45,0 |
| EER | W/W | 3,33 | 3,29 | 3,34 | 3,24 |
| Water flow rate system side | I/h | 9793 | 11168 | 12714 | 14260 |
| Pressure drop system side | kPa | 43 | 39 | 35 | 44 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRL - C

| Size | | | 0280 | 0300 | 0330 | 0350 | | |
|--------------------------------|-----|-----|------|------|------|------|--|--|
| Model: C | | | | | | | | |
| Cooling performance 12 °C/7 °C | (1) | | | | | | | |
| Cooling capacity | E | kW | 59,0 | 67,0 | 76,0 | 85,0 | | |
| Input power | E | kW | 17,0 | 19,6 | 22,0 | 25,3 | | |
| Input current | E | A | 35,0 | 39,0 | 43,0 | 49,0 | | |
| EER | E | W/W | 3,47 | 3,42 | 3,45 | 3,36 | | |

⁽¹⁾ Evaporating temperature 5 °C, External air 35 °C

ENERGY INDICES (REG. 2016/2281 EU)

Energy index data

| Size | | | 0280 | 0300 | 0330 | 0350 |
|----------------------------------|---|-----|--------|--------|--------|--------|
| Fans: J | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | |
| SEER | E | W/W | - (2) | - (2) | - (2) | - (2) |
| Seasonal efficiency | E | % | - (2) | - (2) | - (2) | - (2) |
| SEER - 23/18 (EN14825: 2018) (3) | | | | | | |
| SEER | E | W/W | 4,55 | 4,70 | 4,62 | 4,47 |
| Seasonal efficiency | E | % | 178,90 | 184,90 | 181,60 | 175,90 |
| SEPR - (EN 14825: 2018) (3) | | | | | | |
| SEPR | E | W/W | 5,81 | 5,94 | 5,85 | 5,66 |

- (1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
 (2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
 (3) Calculation performed with FIXED water flow rate.

| Size | | | 0280 | 0300 | 0330 | 0350 |
|----------------------------------|---|-----|--------|--------|--------|--------|
| Fans: M | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | |
| SEER | E | W/W | - (2) | - (2) | - (2) | - (2) |
| Seasonal efficiency | E | % | - (2) | - (2) | - (2) | - (2) |
| SEER - 23/18 (EN14825: 2018) (3) | | | | | | |
| SEER | E | W/W | 4,55 | 4,70 | 4,62 | 4,47 |
| Seasonal efficiency | E | % | 178,90 | 184,90 | 181,60 | 175,90 |
| SEPR - (EN 14825: 2018) (3) | | | | | | |
| SEPR | E | W/W | 5,81 | 5,94 | 5,85 | 5,66 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0280 | 0300 | 0330 | 0350 |
|-----------------------|---|---|-------|-------|-------|-------|
| Electric data | | | | | | |
| Maximum current (FLA) | E | A | 46,0 | 53,0 | 58,0 | 63,0 |
| Peak current (LRA) | E | A | 155,0 | 184,0 | 190,0 | 200,0 |

GENERAL TECHNICAL DATA

General data

| Size | | | 0280 | 0300 | 0330 | 0350 |
|---------------------------------------|-----|-------|------|--------|-----------|------|
| Compressor | | | | | | |
| Туре | E | type | | Sc | roll | |
| Compressor regulation | E | Туре | | 0n | -Off | |
| Number | E | no. | 2 | 2 | 2 | 2 |
| Circuits | E | no. | 2 | 2 | 2 | 2 |
| Refrigerant | E | type | | R4 | 10A | |
| System side heat exchanger | | | | | | |
| Туре | E | type | | Braze | d plate | |
| Number | E | no. | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | |
| Connections (in/out) | E | Туре | | Groove | ed joints | |
| Sizes (in/out) | E | Ø | | 2" | 1/2 | |
| Sound data calculated in cooling mode | (1) | | | | | |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 75,0 | 76,0 |
| Sound pressure level (10 m) | E | dB(A) | 42,3 | 42,2 | 43,2 | 44,2 |

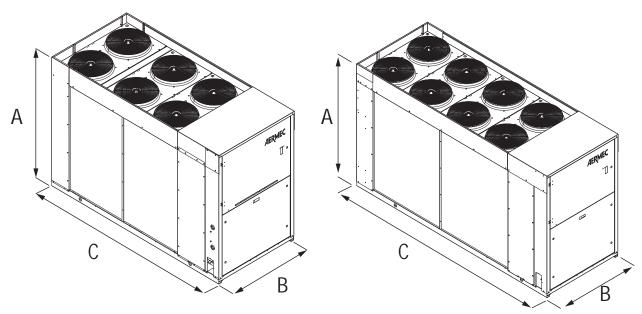
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

Fans

| Size | | | 0280 | 0300 | 0330 | 0350 | | |
|------------------------------------|----------|-------|-------|--------------|----------------|-------|--|--|
| Fan | | | | | | | | |
| Туре | E | type | Axial | | | | | |
| Number | E | no. | 6 | 6 | 8 | 8 | | |
| Size | | | 0280 | 0300 | 0330 | 0350 | | |
| Fans: M | | | | | | | | |
| Increased fan | | | | | | | | |
| Fan motor | E | type | | Asynchronous | with phase cut | | | |
| Without Static pressure | | | | | | | | |
| Air flow rate | E | m³/h | - | - | - | - | | |
| High static pressure | E | Pa | - | - | - | - | | |
| Sound power level | E | dB(A) | - | - | - | - | | |
| With static pressure | | | | | | | | |
| Air flow rate | E | m³/h | 22000 | 22000 | 27000 | 27000 | | |
| High static pressure | E | Pa | 50 | 50 | 50 | 50 | | |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 75,0 | 76,0 | | |
| Size | | | 0280 | 0300 | 0330 | 0350 | | |
| Fans: J | | | | | | | | |
| Inverter fan | | | | | | | | |
| Fan motor | E | type | | Inv | erter | | | |
| Air flow rate | E | m³/h | 22000 | 22000 | 27000 | 27000 | | |
| High static pressure | E | Pa | 80 | 80 | 80 | 80 | | |
| Sound data calculated in cooling n | node (1) | | | | | | | |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 75,0 | 76,0 | | |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



Dimensions and weights

| Size | | | 0280 | 0300 | 0330 | 0350 |
|------------------------------|------------------|----|------|------|------|------|
| Dimensions and weights | | | | | | |
| A | E | mm | 1606 | 1606 | 1606 | 1606 |
| В | E | mm | 1100 | 1100 | 1100 | 1100 |
| C | E | mm | 2450 | 2950 | 2950 | 2950 |
| Dimensions and weights witho | out hydronic kit | | | | | |
| Empty weight | E | kg | 686 | 751 | 761 | 767 |





















NRL 0280H-0350H

Reversible air/water heat pump

Cooling capacity 51 ÷ 76 kW Heating capacity 58 ÷ 86 kW



- · High efficiency also at partial loads
- Compact dimensions
- Quick & easy installation





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -15°C outside air temperature in winter, and up to 46°C in summer. Hot water production up to 55°C (for more information see the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, available to configurator, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Option integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

- Floating HP control: the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0280 | 0300 | 0330 | 0350 |
|------------------|-----|------|------|------|------|
| AER485P1 | E,L | • | • | • | • |
| AERBACP | E,L | • | • | • | • |
| AERLINK | E,L | • | • | • | • |
| AERNET | E,L | • | • | • | • |
| BMConverter | E,L | • | • | • | • |
| MULTICHILLER_EVO | E,L | • | • | • | • |
| PGD1 | E,L | • | • | • | • |
| Model | Ver | 0280 | 0300 | 0330 | 0350 |
| C-TOUCH | E,L | • | • | • | • |

Condensation control temperature

| Ver | 0280 | 0300 | 0330 | 0350 |
|---------|--------|--------|--------|--------|
| Fans: M | | | | |
| E,L | DCPX63 | DCPX63 | DCPX63 | DCPX63 |

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | | | |
|---|------|------|------|------|--|--|--|
| Integrated hydronic kit: 00, P1, P2, P3, P4 | | | | | | | |
| E,L | VT17 | VT17 | VT17 | VT17 | | | |
| Integrated hydronic kit: 01, 02, 03, 04, 05, 06, 07, 08, 09 | | | | | | | |
| E,L | VT13 | VT13 | VT13 | VT13 | | | |

Anti-intrusion grid

| Ver | 0280 | | 0300 | 0330 | 0350 |
|---------|------|------|------|------|------|
| E | GP3 | | GP4 | GP4 | GP4 |
| L | GP3 | | GP3 | GP3 | GP3 |
| Model | Ver | 0280 | 0300 | 0330 | 0350 |
| C-TOUCH | E,L | • | • | • | • |

Device for peak current reduction

| Ver | 0280 | 0300 | 0330 | 0350 |
|-----|------------|------------|------------|------------|
| E,L | DRE281 (1) | DRE301 (1) | DRE331 (1) | DRE351 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0280 | 0300 | 0330 | 0350 |
|-----|-------|-------|-------|-------|
| E,L | RIF50 | RIF50 | RIF50 | RIF51 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| CON | 41.1 | dunatur |
|--------|------|--|
| Field | | Description |
| 1,2,3 | | NRL |
| 4,5,6, | ,7 | Size 0280, 0300, 0330, 0350 |
| 8 | | Operating field |
| (| 0 | Standard mechanic thermostatic valve |
|) | Χ | Electronic thermostatic expansion valve |
| 9 | | Model |
| | Н | Heat pump |
| 10 | | Heat recovery |
| (| 0 | Without heat recovery |
| - 1 | D | With desuperheater (1) |
| 11 | | Version |
| | E | Silenced high efficiency |
| | L | Standard silenced |
| 12 | | Coils |
| • | 0 | Copper-aluminium |
| - 1 | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| 1 | V | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | J | Inverter (2) |
| - 1 | М | Oversized |
| 14 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| | 1 | 220V~ 3 50Hz with magnet circuit breakers |
| | | |

| Field | Description | | | | | |
|-------|--|--|--|--|--|--|
| 15,16 | Integrated hydronic kit | | | | | |
| 00 | Without hydronic kit | | | | | |
| | Kit with storage tank and pump/s | | | | | |
| 01 | Storage tank with low head pump | | | | | |
| 02 | Storage tank with low head pump + stand-by pump | | | | | |
| 03 | Storage tank with high head pump | | | | | |
| 04 | Storage tank with high head pump + stand-by pump | | | | | |
| | Kit with pump/s and storage tank with holes for heaters | | | | | |
| 05 | Storage tank with holes for heaters and single low head pump (3) | | | | | |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (3) | | | | | |
| 07 | Storage tank with holes for heaters and single high head pump (3) | | | | | |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (3) | | | | | |
| | Double loop | | | | | |
| 09 | Double loop | | | | | |
| | Kit with pump/s | | | | | |
| P1 | Single pump low head | | | | | |
| P2 | Pump low head + stand-by pump | | | | | |
| P3 | Single pump high head | | | | | |
| P4 | Pump high head + stand-by pump | | | | | |

- (1) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 (2) Standard for size 0280 ÷ 0350, without useful static pressure, option for other size with useful static
- (2) Standard in Jack V200 0334, Ministed search Se

PERFORMANCE SPECIFICATIONS

NRL HL

| MALTIL | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|
| Size | | 0280 | 0300 | 0330 | 0350 |
| Cooling performance 12 °C/7 °C(1) | | | | | |
| Cooling capacity | kW | 50,8 | 60,8 | 65,9 | 72,8 |
| Input power | kW | 20,4 | 22,8 | 26,4 | 31,4 |
| Cooling total input current | A | 36,0 | 40,0 | 44,0 | 51,0 |
| EER | W/W | 2,49 | 2,67 | 2,49 | 2,32 |
| Water flow rate system side | I/h | 8762 | 10480 | 11340 | 12542 |
| Pressure drop system side | kPa | 47 | 43 | 29 | 45 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 58,2 | 68,2 | 75,2 | 82,3 |
| Input power | kW | 19,0 | 21,7 | 24,6 | 28,3 |
| Heating total input current | A | 33,0 | 38,0 | 41,0 | 50,0 |
| COP | W/W | 3,06 | 3,14 | 3,05 | 2,91 |
| Water flow rate system side | I/h | 10080 | 11818 | 13035 | 14252 |
| Pressure drop system side | kPa | 61 | 54 | 36 | 56 |

NRL HE

| Size | | 0280 | 0300 | 0330 | 0350 |
|---------------------------------------|-----|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | |
| Cooling capacity | kW | 52,9 | 61,9 | 68,8 | 76,8 |
| Input power | kW | 18,1 | 20,2 | 23,4 | 26,9 |
| Cooling total input current | A | 30,0 | 34,0 | 37,0 | 45,0 |
| EER | W/W | 2,93 | 3,06 | 2,94 | 2,86 |
| Water flow rate system side | l/h | 9106 | 10652 | 11855 | 13229 |
| Pressure drop system side | kPa | 27 | 27 | 51 | 29 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 59,1 | 69,2 | 76,3 | 86,2 |
| Input power | kW | 17,5 | 20,6 | 23,1 | 26,1 |
| Heating total input current | A | 35,0 | 39,0 | 43,0 | 49,0 |
| COP | W/W | 3,38 | 3,36 | 3,31 | 3,30 |
| Water flow rate system side | l/h | 10254 | 11992 | 13209 | 14947 |
| Pressure drop system side | kPa | 25 | 34 | 66 | 34 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

| Size | | | 0280 | 0300 | 0330 | 0350 |
|-----------------------|---|---|-------|-------|-------|-------|
| Electric data | | | | | | |
| Maximum summert (FLA) | E | A | 46,0 | 53,0 | 58,0 | 63,0 |
| Maximum current (FLA) | L | A | 46,0 | 53,0 | 53,0 | 63,0 |
| Deals surrent (LDA) | E | A | 155,0 | 184,0 | 190,0 | 200,0 |
| Peak current (LRA) | L | A | 155,0 | 184,0 | 184,0 | 200,0 |

ENERGY DATA

| Size | | | 0280 | 0300 | 0330 | 0350 |
|-----------------------------------|--------------------------|------------------------------|---------------|--------|--------|--------|
| Cooling capacity with low leaving | g water temp (UE n° 2016 | /2281) | | | | |
| SEER | E | W/W | 3,74 | 3,71 | 3,80 | 3,71 |
| DEEN | L | W/W | 2,96 | 3,19 | 3,01 | 3,28 |
| | E | % | 146,50 | 145,20 | 148,90 | 145,30 |
| ηςς | L | % | 115,30 | 124,40 | 117,30 | 128,30 |
| UE 811/2013 performance in ave | rage ambient conditions | (average) - 35 °C - Pdesignl | 1 ≤ 70 kW (1) | | | |
| Efficiency energy class | E,L | | A+ | A+ | A+ | - |
| Delocianh | E | kW | 50 | 58 | 64 | 73 |
| Pdesignh | L | kW | 49 | 58 | 64 | 71 |
| | E | % | 138,00 | 137,00 | 137,00 | 135,00 |
| ηsh | L | % | 125,00 | 128,00 | 125,00 | 125,00 |
| CCOD | E | W/W | 3,53 | 3,50 | 3,50 | 3,45 |
| SCOP | L | W/W | 3,20 | 3,28 | 3,20 | 3,20 |

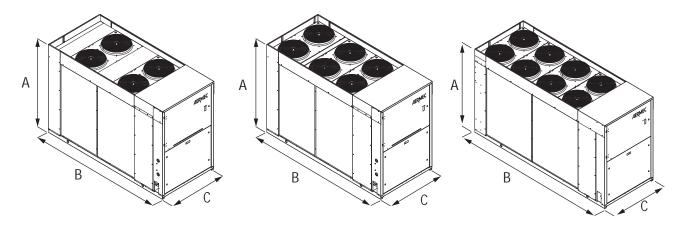
⁽¹⁾ Efficiencies for low temperature applications (35 °C)

GENERAL TECHNICAL DATA

| Size | | | 0280 | 0300 | 0330 | 0350 |
|------------------------------------|----------|-------|-------|--------|-----------|-------|
| Compressor | | | | | | |
| Туре | E,L | type | | Sc | roll | |
| Compressor regulation | E,L | Туре | | 0n | -Off | |
| Number | E,L | no. | 2 | 2 | 2 | 2 |
| Circuits | E,L | no. | 2 | 2 | 2 | 2 |
| Refrigerant | E,L | type | | R4 | 10A | |
| System side heat exchanger | | | | | | |
| Туре | E,L | type | | Braze | d plate | |
| Number | E,L | no. | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | |
| Connections (in/out) | E,L | Туре | | Groove | ed joints | |
| Sizes (in/out) | E,L | Ø | | 2" | 1/2 | |
| Fan | | | | | | |
| Туре | E,L | type | | ax | ials | |
| Number | E | no. | 6 | 8 | 8 | 8 |
| Number | L | no. | 4 | 6 | 6 | 6 |
| N: () und - | E | m³/h | 20000 | 26000 | 26000 | 26000 |
| Air flow rate | L | m³/h | 14000 | 20000 | 20000 | 20000 |
| Sound data calculated in cooling m | node (1) | | | | | |
| Carrad marrian larval | E | dB(A) | 74,0 | 75,0 | 75,0 | 76,0 |
| Sound power level | L | dB(A) | 73,0 | 74,0 | 74,0 | 75,0 |
| Cound avecause laurel (10 mg) | E | dB(A) | 42,3 | 43,2 | 43,2 | 44,2 |
| Sound pressure level (10 m) | L | dB(A) | 41,3 | 42,3 | 42,3 | 43,3 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0280 | 0300 | 0330 | 0350 |
|------------------------|-----|----|------|------|------|------|
| Dimensions and weights | | | | | | |
| A | E,L | mm | 1606 | 1606 | 1606 | 1606 |
| В | E,L | mm | 1100 | 1100 | 1100 | 1100 |
| r | E | mm | - | 2950 | 2950 | 2950 |
| L | L | mm | 2450 | 2450 | 2450 | 2450 |
| Weights | | | | | | |
| Wish and budges in his | E | kg | 730 | 795 | 805 | 811 |
| Without hydronic kit | L | kg | 713 | 724 | 731 | 740 |

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NRB 0282-0754

Air-water chiller

Cooling capacity 56 ÷ 202 kW



- · High seasonal efficiency
- Night mode
- Reduced amount of refrigerant
- Compact dimensions





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 51°C external air temperature. Unit can produce chilled water (up to -10°C of water produced in some versions).

Dual-circuit unit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

The possibility to use electronic expansion valve, available to configurator, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Allows, with continuous fan modulation, to optimize the operation of the unit in any operating point, ensuring an increase in the energy efficiency at partial load.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

www.aermec.com

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AER485P1 | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | |
| AERNET | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | U | | | | • | • | • | • | • | • | | • | • | • | • | |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | E,L,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | | | | | | | | | | | | | | | | |

Condensation control temperature

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 |
|---------|---------|---------|---------|-------------|-------------|-------------|-------------|-------------|
| Fans: ° | | | | | | | | |
| E,L | DCPX140 | DCPX140 | DCPX140 | DCPX140 | - | - | - | - |
| N | DCPX140 | DCPX140 | DCPX140 | - | - | - | - | - |
| ans: M | | | | | | | | |
| °,A | - | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX142 |
| E,L | DCPX141 | DCPX141 | DCPX141 | DCPX141 | As standard | As standard | As standard | As standard |
| N | DCPX141 | DCPX141 | DCPX141 | As standard |
| U | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX143 | DCPX143 |
| Ver | 0652 | 0654 | 0682 | 07 | 702 | 0704 | 0752 | 0754 |
| ans: M | | | ' | | | | | |

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fans: M | | | | | | | |
| 0 | DCPX142 | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 |
| A | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 |
| E,L,N | As standard |
| U | DCPX143 |
| | | | | | | | |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-------------------|--------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I1, I2, I3, | , I4, P1, P2, P3, | P4 | | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| E | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| L | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| N | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT23 | VT23 | VT23 | VT23 |
| U | - | - | - | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT23 | VT23 | VT23 | VT23 |
| Integrated hydronic kit: 01, 02, 03, 0 | 4, 05, 06, 07, 0 | B, 09, K1, K | 2, K3, K4 | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| L | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| N | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT23 | VT23 | VT23 | VT23 |
| U | - | - | - | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT23 | VT23 | VT23 | VT23 |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) |
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) |

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|
| E | GP3 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| L | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| N | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP14 x 4 (1) | GP14 x 4 (1) | GP14 x 4 (1) | GP14 x 4 (1) |
| U | - | - | - | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | GP14 x 4 (1) | GP14 x 4 (1) | GP14 x 4 (1) | GP14 x 4 (1) |

(1) x_i indicates the quantity to buy The accessory cannot be fitted on the configurations indicated with -

Power factor correction

| | 0202 | 0202 | 4222 | 42.52 | 0.500 | 0.550 | 0.400 | 2424 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 |
| °,A | - | - | - | - | RIF0502 | RIF0552 | RIF0602 | RIF0604 |
| E,L,N | RIF0282 | RIF0302 | RIF0332 | RIF0352 | RIF0502 | RIF0552 | RIF0602 | RIF0604 |
| U | - | - | - | RIF0352 | RIF0502 | RIF0552 | RIF0602 | RIF0604 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-------------|---------|---------|---------|---------|---------|---------|---------|
| °,A,E,L,N,U | RIF0652 | RIF0652 | RIF0682 | RIF0702 | RIF0704 | RIF0752 | RIF0754 |

A grey background indicates the accessory must be assembled in the factory

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °,A | - | - | - | - | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |
| E,L,N | DRENRB282 (1) | DRENRB302 (1) | DRENRB332 (1) | DRENRB352 (1) | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |
| U | - | - | - | DRENRB352 (1) | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. The accessory cannot be fitted on the configurations indicated with – A grey background indicates the accessory must be assembled in the factory

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °,A,E,L,N,U | DRENRB652 (1) | DRENRB654 (1) | DRENRB682 (1) | DRENRB702 (1) | DRENRB704 (1) | DRENRB752 (1) | DRENRB754 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|---------|---------|---------|---------|
| °,A | - | - | - | - | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB11 | T6NRB8 | T6NRB11 | T6NRB9 | T6NRB10 | T6NRB12 | T6NRB10 | T6NRB12 |
| E,L | T6NRB6 | T6NRB6 | T6NRB6 | T6NRB6 | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB11 | T6NRB8 | T6NRB11 | T6NRB9 | T6NRB10 | T6NRB12 | T6NRB10 | T6NRB12 |
| N | T6NRB6 | T6NRB6 | T6NRB6 | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB11 | T6NRB8 | T6NRB11 | T6NRB9 | T6NRB10 | T6NRB12 | T6NRB10 | T6NRB12 |
| U | - | - | - | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB8 | T6NRB11 | T6NRB8 | T6NRB11 | T6NRB9 | T6NRB10 | T6NRB12 | T6NRB10 | T6NRB12 |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

Touch screen keyboard

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °,A,E,L,N,U | C-TOUCH |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRB |
| 4,5,6,7 | Size 0282, 0302, 0332, 0352, 0502, 0552, 0602, 0604, 0652, 0654, 0682, 0702, 0704 0752, 0754 |
| 8 | Operating field |
| ٥ | Standard mechanic thermostatic valve (1) |
| χ | Electronic thermostatic expansion valve (1) |
| Υ | Double mechanical thermostat for low temperature (2) |
| Z | Low temperature electronic thermostatic valve (3) |
| 9 | Model |
| ٥ | Cooling only |
| C | Motocondensing unit |
| 10 | Heat recovery |
| ۰ | Without heat recovery |
| D | With desuperheater (4) |
| T | With total recovery (4) |
| 11 | Version |
| 0 | Standard |
| Α | High efficiency |
| Е | Silenced high efficiency |
| L | Standard silenced |
| N | Silenced very high efficiency |
| U | Very high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard (5) |
| J | Inverter |
| М | Oversized (6) |
| 14 | Power supply |
| 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit |
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| | |

| Field | Description |
|-------|--|
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (7) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (7) |
| 07 | Storage tank with holes for heaters and single high head pump (7) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (7) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| l1 | Single low head pump + fixed speed inverter |
| 12 | Single low head pump with fixed speed inverter + stand-by pump |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter (8) |
| W2 | Double low head pump + Storage tank + variable speed inverter (8) |
| W3 | Single high head pump + Storage tank + variable speed inverter (8) |
| W4 | Double high head pump + Storage tank + variable speed inverter (8) |

- (1) Water produced from 4 °C ÷ 18 °C
 (2) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from -10 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C
 (4) For "YT" "ZT" "YD" and "ZD" recovery versions, contact the headquarters; Warning: on the recovery side, a minimum input temperature of 35 °C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection program
 (5) As standard in sizes from 0282 to 0352 versions E L and in size from 0282 to 0332 version N
 (6) As standard in sizes from 0502 to 0754 version ° A E L, in sizes from 0352 to 0754 version N U
 (7) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.
 (8) L'opzione Y e Z non è compatibile con W1/W2/W3/W4

PERFORMANCE SPECIFICATIONS

NRB - °

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------------------|-----|------|------|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | W | - | - | - | - | 98352 | 107034 | 125935 | 125537 | 135136 | 141027 | 159747 | 178947 | 170676 | 195742 | 193506 |
| Input power | W | - | - | - | - | 33237 | 37531 | 41619 | 45636 | 47434 | 52150 | 54799 | 60755 | 58313 | 71811 | 67186 |
| Cooling total input current | A | - | - | - | - | 59,0 | 65,0 | 71,0 | 80,0 | 81,0 | 92,0 | 93,0 | 102,0 | 104,0 | 117,0 | 117,0 |
| EER | W/W | - | - | - | - | 2,96 | 2,85 | 3,03 | 2,75 | 2,85 | 2,70 | 2,92 | 2,95 | 2,93 | 2,73 | 2,88 |
| Water flow rate system side | l/h | - | - | - | - | 16941 | 18444 | 21694 | 21620 | 23270 | 24282 | 27502 | 30805 | 29385 | 33700 | 33309 |
| Pressure drop system side | kPa | - | - | - | - | 39 | 46 | 42 | 50 | 49 | 48 | 52 | 66 | 71 | 78 | 65 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - L

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 56,5 | 64,3 | 73,9 | 85,5 | 96,3 | 104,5 | 122,6 | 121,5 | 131,1 | 134,8 | 156,1 | 174,3 | 166,4 | 189,9 | 187,4 |
| Input power | kW | 19,8 | 22,2 | 24,8 | 29,6 | 34,0 | 38,6 | 42,9 | 47,6 | 49,2 | 55,0 | 56,0 | 62,5 | 60,0 | 74,7 | 69,5 |
| Cooling total input current | A | 35,0 | 41,0 | 46,0 | 54,0 | 59,0 | 65,0 | 72,0 | 82,0 | 82,0 | 95,0 | 93,0 | 102,0 | 105,0 | 119,0 | 119,0 |
| EER | W/W | 2,85 | 2,90 | 2,98 | 2,89 | 2,83 | 2,71 | 2,86 | 2,55 | 2,67 | 2,45 | 2,79 | 2,79 | 2,78 | 2,54 | 2,70 |
| Water flow rate system side | I/h | 9734 | 11090 | 12722 | 14734 | 16583 | 18007 | 21114 | 20937 | 22592 | 23230 | 26870 | 30010 | 28645 | 32685 | 32255 |
| Pressure drop system side | kPa | 37 | 48 | 39 | 52 | 37 | 43 | 40 | 46 | 45 | 44 | 50 | 62 | 66 | 73 | 61 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - A

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 103,9 | 114,8 | 130,1 | 129,7 | 140,0 | 150,2 | 167,9 | 186,9 | 176,8 | 207,6 | 198,8 |
| Input power | kW | - | - | - | - | 31,4 | 35,4 | 40,3 | 43,5 | 45,0 | 47,6 | 51,9 | 59,2 | 56,6 | 69,6 | 63,8 |
| Cooling total input current | A | - | - | - | - | 55,0 | 59,0 | 68,0 | 73,0 | 74,0 | 77,0 | 86,0 | 94,0 | 98,0 | 103,0 | 107,0 |
| EER | W/W | - | - | - | - | 3,31 | 3,24 | 3,23 | 2,98 | 3,11 | 3,16 | 3,24 | 3,16 | 3,12 | 2,98 | 3,11 |
| Water flow rate system side | I/h | - | - | - | - | 17889 | 19764 | 22404 | 22344 | 24116 | 25867 | 28897 | 32172 | 30430 | 35736 | 34210 |
| Pressure drop system side | kPa | - | - | - | - | 30 | 36 | 35 | 42 | 40 | 57 | 46 | 56 | 55 | 60 | 58 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - E

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 60,6 | 68,4 | 77,0 | 89,2 | 100,4 | 110,5 | 123,9 | 122,2 | 132,4 | 144,8 | 161,4 | 178,0 | 168,2 | 195,9 | 187,7 |
| Input power | kW | 18,6 | 21,1 | 23,8 | 28,3 | 32,5 | 36,9 | 42,7 | 46,6 | 48,2 | 49,4 | 54,0 | 62,6 | 59,7 | 74,7 | 68,0 |
| Cooling total input current | Α | 32,0 | 36,0 | 41,0 | 46,0 | 54,0 | 59,0 | 69,0 | 75,0 | 77,0 | 77,0 | 86,0 | 95,0 | 100,0 | 107,0 | 110,0 |
| EER | W/W | 3,26 | 3,24 | 3,23 | 3,16 | 3,09 | 3,00 | 2,90 | 2,62 | 2,75 | 2,93 | 2,99 | 2,84 | 2,82 | 2,62 | 2,76 |
| Water flow rate system side | l/h | 10429 | 11774 | 13258 | 15372 | 17275 | 19020 | 21329 | 21052 | 22807 | 24939 | 27779 | 30648 | 28950 | 33719 | 32307 |
| Pressure drop system side | kPa | 26 | 33 | 30 | 40 | 27 | 33 | 32 | 36 | 36 | 52 | 42 | 51 | 49 | 53 | 52 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - U

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | 92,7 | 104,5 | 117,2 | 132,1 | 137,9 | 146,8 | 152,9 | 171,6 | 191,4 | 180,5 | 209,6 | 202,9 |
| Input power | kW | - | - | - | 27,1 | 30,8 | 34,5 | 38,8 | 41,3 | 44,2 | 45,5 | 50,7 | 59,3 | 56,2 | 67,2 | 63,1 |
| Cooling total input current | Α | - | - | - | 51,0 | 56,0 | 61,0 | 68,0 | 76,0 | 76,0 | 86,0 | 88,0 | 101,0 | 104,0 | 116,0 | 115,0 |
| EER | W/W | - | - | - | 3,42 | 3,39 | 3,40 | 3,40 | 3,34 | 3,32 | 3,36 | 3,39 | 3,23 | 3,21 | 3,12 | 3,21 |
| Water flow rate system side | l/h | - | - | - | 15945 | 17984 | 20172 | 22745 | 23741 | 25275 | 26327 | 29532 | 32945 | 31067 | 36076 | 34915 |
| Pressure drop system side | kPa | - | - | - | 24 | 30 | 29 | 38 | 34 | 36 | 42 | 41 | 51 | 48 | 61 | 56 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - N

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 60,8 | 69,0 | 76,9 | 89,7 | 100,8 | 112,4 | 128,6 | 133,5 | 142,2 | 147,1 | 164,5 | 185,1 | 174,5 | 201,1 | 195,1 |
| Input power | kW | 17,8 | 20,5 | 22,9 | 27,8 | 31,9 | 36,1 | 39,4 | 42,4 | 45,3 | 47,2 | 52,9 | 60,9 | 57,5 | 70,2 | 65,3 |
| Cooling total input current | A | 33,0 | 39,0 | 44,0 | 50,0 | 55,0 | 62,0 | 66,0 | 74,0 | 75,0 | 85,0 | 88,0 | 100,0 | 102,0 | 116,0 | 114,0 |
| EER | W/W | 3,42 | 3,37 | 3,36 | 3,23 | 3,16 | 3,12 | 3,26 | 3,15 | 3,14 | 3,11 | 3,11 | 3,04 | 3,03 | 2,87 | 2,99 |
| Water flow rate system side | l/h | 10460 | 11884 | 13249 | 15444 | 17352 | 19347 | 22150 | 22978 | 24481 | 25334 | 28325 | 31856 | 30031 | 34611 | 33586 |
| Pressure drop system side | kPa | 27 | 25 | 31 | 22 | 28 | 27 | 36 | 32 | 34 | 39 | 38 | 48 | 45 | 56 | 52 |
| | | | | | | | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---|----------|---------------|--------|------------------|--------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|--------------|
| Fans: ° | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | |
| | °,A,U | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEER | E | W/W | 4,48 | 4,58 | 4,49 | 4,42 | - | - | - | - | - | - | - | - | - | - | - |
| JEH | L | W/W | 4,28 | 4,27 | 4,35 | 4,25 | - | - | - | - | - | - | - | - | - | - | - |
| | N | W/W | 4,68 | 4,72 | 4,62 | - | - | - | - | - | - | - | - | - | - | - | - |
| | °,A,U | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Seasonal efficiency | E | % | 176,20 | 180,20 | 176,40 | 173,60 | - | - | - | - | - | - | - | - | - | - | - |
| Jeasona: emiliency | L | % | 168,10 | 167,80 | 171,10 | 167,00 | - | - | - | - | - | - | - | - | - | - | - |
| | N | % | 184,00 | 185,70 | 181,70 | - | | - | - | - | - | - | - | - | - | - | - |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | | | | | | |
| | °,A,U | W/W | - | | - | - | | | - | - | | - | - | - | - | - | - |
| SEER | E | W/W | 5,36 | 5,48 | 5,40 | 5,44 | | | - | - | | | | - | - | - | - |
| | L | W/W | 5,05 | 5,10 | 5,21 | 5,09 | - | - | | - | - | - | - | - | - | - | - |
| | N | W/W | 5,61 | 5,67 | 5,59 | - | - | - | - | - | - | - | - | - | - | - | - |
| | °,A,U | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Seasonal efficiency | E | % | 211,40 | 216,30 | 213,10 | 214,70 | - | - | - | - | - | - | - | - | - | - | - |
| , | L | % | 199,00 | 201,10 | 205,30 | 200,70 | - | - | - | - | - | - | - | - | - | - | - |
| CPDD /PH 4 4027 2040) (2) | N | % | 221,40 | 223,80 | 220,60 | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN 14825: 2018) (2) | 0.4.11 | 111.011 | | - | | | | - | | | | | - | | | | |
| | °,A,U | W/W | - | - (12 | - (12 | - ()(| - | - | - | - | - | - | - | - | - | - | - |
| SEPR | E | W/W | 6,46 | 6,42 | 6,13 | 6,36 | - | - | - | - | - | - | - | - | | - | - |
| | L | W/W | 6,15 | 6,00 | 5,97 | 6,07 | - | - | - | - | - | - | - | - | - | - | - |
| Farmer I | N | W/W | 6,71 | 6,53 | 6,23 | - | - | - | - | - | - | - | - | - | - | - | - |
| Fans: J | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | 0 | NA AN | | | | | 424 | 4.22 | 4.20 | 4.13 | 120 | 4 1 1 | 4.20 | 120 | 4.13 | 4.24 | 4.13 |
| | | W/W | - | - | - | - | 4,34 | 4,23 | 4,39 | 4,12 | 4,26 | 4,11 | 4,28 | 4,26 | 4,13 | 4,24 | 4,12 |
| | A | W/W | - 4.50 | - 4.00 | - 4.00 | 4.52 | 4,48 | 4,48 | 4,59 | 4,20 | 4,48 | 4,13 | 4,49 | 4,40 | 4,34 | 4,44 | 4,16 |
| SEER | E | W/W | 4,59 | 4,69 | 4,60 | 4,52 | 4,48 | 4,46 | 4,53 | 4,16 | 4,34 | 4,18 | 4,51 | 4,32 | 4,13 | 4,33 | 4,11 |
| | L | W/W | 4,38 | 4,37 | 4,46 | 4,35 | 4,36 | 4,24 | 4,38 | 4,11 | 4,18 | 4,12 | 4,32 | 4,23 | 4,13 | 4,19 | 4,11 |
| | N | W/W | 4,79 | 4,84 | 4,73 | 4,81 | 4,68 | 4,76 | 4,84 | 4,53 | 4,72 | 4,39 | 4,77 | 4,60 | 4,35 | 4,56 | 4,31 |
| | U | W/W | - | - | - | 4,74 | 4,71 | 4,82 | 4,65 | 4,33 | 4,66 | 4,31 | 4,76 | 4,53 | 4,22 | 4,52 | 4,29 |
| | | % | - | | - | - | 170,60 | 166,20 | 172,60 | 161,80 | 167,30 | 161,40 | 168,20 | 167,40 | 162,20 | 166,60 | 161,80 |
| | A E | % | | | | 177,80 | 176,20 | 176,20 | 180,60 | 165,00 | 176,20 | 162,20 | 176,60 | 173,00 | 170,60 | 174,60 | 163,40 |
| Seasonal efficiency | | % | 180,60 | 184,60 | 181,00 | | 176,20 | 175,40 | 178,20 | 163,40 | 170,60 | 164,20 | 177,40 | 169,80 | 162,20 | 170,20 | 161,40 |
| | L N | <u>%</u> % | 172,20 | 171,80 190,60 | 175,40 | 171,00 | 171,40 184,20 | 166,60 187,40 | 172,20 190,60 | 161,40 178,20 | 164,20 185,80 | 161,80 172,60 | 169,80 187,80 | 166,20 181,00 | 162,20 171,00 | 164,60 | 161,40 |
| | U | | 188,60 | 190,00 | 186,20 | 189,40 | | | | | | | | | | 179,40 | 169,40 |
| SEER - 23/18 (EN14825: 2018) (2) | U | 70 | | | | 186,80 | 185,40 | 189,80 | 183,00 | 170,20 | 183,40 | 169,40 | 187,40 | 178,20 | 165,80 | 177,80 | 168,60 |
| 3EER - 23/10 (EN14023, 2010) (2) | 0 | W/W | | | | | 5,31 | 5,07 | 5,29 | 4,89 | 5,04 | 4,93 | 5,13 | 5,12 | 5,01 | 4,99 | 4.05 |
| | A | W/W | | | | | 5,55 | 5,42 | 5,54 | 5,06 | 5,36 | 5,11 | 5,43 | 5,23 | 5,30 | 5,24 | 4,95 5,03 |
| | E | W/W | 5,50 | 5,62 | 5,55 | 5,58 | 5,47 | 5,41 | 5,37 | 4,88 | 5,10 | 5,05 | 5,37 | 5,06 | 4,93 | 5,02 | 4,88 |
| SEER | | W/W | 5,17 | 5,22 | 5,34 | 5,22 | 5,27 | 5,00 | 5,12 | 4,81 | 4,89 | 4,82 | 5,13 | 4,92 | 4,91 | 4,83 | 4,84 |
| | L | W/W | 5,75 | 5,82 | 5,73 | 5,91 | 5,72 | 5,68 | 5,88 | 5,49 | 5,67 | 5,29 | 5,71 | 5,46 | 5,27 | 5,38 | 5,21 |
| | U | W/W | - | - | - | 5,92 | 5,86 | 5,85 | 5,72 | 5,32 | 5,68 | 5,30 | 5,79 | 5,45 | 5,22 | 5,41 | 5,21 |
| | 0 | % | | | | J,72 - | 209,30 | 199,60 | 208,40 | 192,70 | 198,50 | 194,20 | 202,20 | 201,60 | 197,50 | 196,50 | 194,80 |
| | A | % | | | - | - | 219,00 | 213,90 | 218,60 | 199,50 | 211,30 | 201,30 | 214,10 | 206,30 | 208,80 | 206,60 | 198,20 |
| | E | % | 216,80 | 221,60 | 218,80 | 220,00 | 215,70 | 213,30 | 211,80 | 192,00 | 200,80 | 199,10 | 211,60 | 199,30 | 194,00 | 197,90 | 192,20 |
| Seasonal efficiency | <u>-</u> | % | 203,80 | 205,90 | 210,60 | 205,60 | 207,70 | 197,10 | 201,70 | 189,40 | 192,70 | 189,70 | 202,00 | 193,60 | 193,20 | 190,00 | 190,40 |
| | N | % | 227,00 | 229,80 | 226,30 | 233,30 | 225,80 | 224,10 | 232,30 | 216,40 | 223,70 | 208,50 | 225,30 | 215,30 | 207,60 | 212,10 | 205,20 |
| | U | % | - | - | - | 233,80 | 231,40 | 231,10 | 225,80 | 209,60 | 224,00 | 209,00 | 228,70 | 214,90 | 205,70 | 213,40 | 205,40 |
| SEPR - (EN 14825: 2018) (2) | | ,, | | | | | , | | | | ,, • • | | | | /, 3 | 5,10 | |
| (| 0 | W/W | - | | | | 5,79 | 5,61 | 5,74 | 5,62 | 5,66 | 5,57 | 5,59 | 5,84 | 5,94 | 5,45 | 5,76 |
| | A | W/W | - | | - | - | 6,10 | 5,97 | 6,00 | 5,73 | 5,97 | 5,74 | 5,92 | 5,79 | 5,89 | 5,75 | 5,78 |
| | E | W/W | 6,46 | 6,42 | 6,13 | 6,36 | 5,98 | 5,95 | 5,79 | 5,41 | 5,72 | 5,68 | 5,83 | 5,67 | 5,69 | 5,51 | 5,47 |
| SEPR | L | W/W | 6,15 | 6,00 | 5,97 | 6,07 | 5,79 | 5,65 | 5,61 | 5,31 | 5,55 | 5,28 | 5,58 | 5,60 | 5,77 | 5,37 | 5,53 |
| | N | W/W | 6,71 | 6,53 | 6,23 | 6,54 | 6,22 | 6,21 | 6,16 | 6,12 | 6,14 | 5,93 | 6,09 | 5,97 | 6,08 | 5,83 | 5,90 |
| | U | W/W | - | - | - | 6,43 | 6,30 | 6,31 | 6,01 | 6,15 | 6,09 | 5,88 | 6,19 | 5,88 | 6,05 | 5,85 | 6,07 |
| Fans: M | _ | | | | | -, - | ., | ., | ., | -, - | ., | -, - | -, - | -, | ., | ., | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 4,23 | 4,13 | 4,29 | - (3) | 4,16 | - (3) | 4,18 | 4,16 | - (3) | 4,14 | - (3) |
| | A | W/W | - | | | _ | 4,37 | 4,37 | 4,48 | - (3) | 4,37 | - (3) | 4,38 | 4,29 | - (3) | 4,33 | - (3) |
| | E | W/W | 4,48 | 4,58 | 4,49 | 4,42 | 4,37 | 4,35 | 4,42 | - (3) | 4,24 | - (3) | 4,40 | 4,21 | - (3) | 4,23 | - (3) |
| SEER | | W/W | 4,48 | 4,27 | 4,49 | 4,42 | 4,25 | 4,14 | 4,42 | - (3) | 4,11 | - (3) | 4,40 | 4,13 | - (3) | 4,23 | - (3) |
| | L | W/W | 4,68 | 4,72 | 4,62 | 4,69 | 4,56 | 4,65 | 4,72 | 4,42 | 4,61 | 4,28 | 4,65 | 4,49 | 4,24 | 4,45 | 4,20 |
| | U | W/W | 4,00 | 4,/2 | - 4,02 | 4,62 | 4,59 | 4,71 | 4,72 | 4,42 | 4,54 | 4,20 | 4,64 | 4,49 | 4,11 | 4,41 | 4,18 |
| | | | | | | | | | | | | | | | | | |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C

| Size 0282 0302 0332 0352 0502 0552 0602 064 0652 0654 0682 0702 0704 Possible % % - - - - 166,20 162,00 168,40 - 13,40 - 164,10 163,40 - - - - 171,00 171, | 0752 0754 162,50 - (3) 170,20 - (3) 166,00 - (3) 161,30 - (3) |
|---|---|
| M | 170,20 - (3) 166,00 - (3) 161,30 - (3) |
| E % 176,20 180,20 176,40 173,60 171,70 171,00 173,80 - (3) 166,50 - (3) 172,80 165,50 - (3) | 166,00 - (3) 161,30 - (3) |
| Seasonal efficiency — | 161,30 - (3) |
| L % 168,10 167,80 171,10 167,00 167,00 162,50 167,80 - (3) 161,20 - (3) 165,70 162,10 - (3) | |
| | |
| N % 184,00 185,70 181,70 184,70 179,50 182,90 185,90 173,70 181,20 168,20 182,90 176,40 166,70 | 174,90 165,10 |
| U % 181,70 180,60 185,20 178,50 165,60 178,70 165,10 182,50 173,80 161,40 | 173,30 164,30 |
| SEER - 23/18 (EN14825: 2018) (2) | |
| _ ° W/W 5,17 4,95 5,16 4,77 4,95 4,80 5,01 4,99 4,86 | 4,82 4,90 |
| A W/W 5,42 5,28 5,40 4,91 5,22 4,94 5,29 5,10 4,95 | 5,11 4,99 |
| E W/W 5,36 5,48 5,40 5,44 5,33 5,27 5,24 4,68 4,97 4,93 5,23 4,93 4,81 | 4,90 4,74 |
| SEER L W/W 5,05 5,10 5,21 5,09 5,13 4,88 4,99 4,65 4,77 4,52 5,00 4,79 4,78 | 4,67 4,74 |
| N W/W 5,61 5,67 5,59 5,76 5,58 5,54 5,74 5,35 5,53 5,12 5,56 5,32 5,13 | 5,24 5,07 |
| U W/W 5,77 5,71 5,71 5,58 5,18 5,53 5,17 5,64 5,32 5,08 | 5,27 5,07 |
| ° % 203,90 194,80 203,30 187,70 195,10 189,00 197,30 196,70 191,50 | 189,90 193,00 |
| A % 213,60 208,30 213,10 193,50 205,80 194,60 208,70 201,10 194,90 | 201,30 196,70 |
| E % 211,40 216,30 213,10 214,70 210,20 207,90 206,50 184,00 195,90 194,00 206,10 194,20 189,20 | 193,00 186,50 |
| Seasonal efficiency L | 183,80 186,40 |
| N % 221,40 223,80 220,60 227,50 220,00 218,70 226,60 210,90 218,20 203,00 219,50 209,70 202,20 | 206,70 199,90 |
| U % 227,60 225,50 225,40 220,30 204,00 218,30 203,60 222,70 209,60 200,00 | 207,90 199,90 |
| SEPR - (EN 14825: 2018) (2) | |
| ° W/W 5,79 5,61 5,74 5,62 5,66 5,57 5,59 5,84 5,94 | 5,45 5,76 |
| A W/W 6,10 5,97 6,00 5,73 5,97 5,74 5,92 5,79 5,89 | 5,75 5,78 |
| E W/W 6,46 6,42 6,13 6,36 5,98 5,95 5,79 5,41 5,72 5,68 5,83 5,67 5,69 | 5,51 5,47 |
| SEPR L W/W 6,15 6,00 5,97 6,07 5,79 5,65 5,61 5,31 5,55 5,28 5,58 5,60 5,77 | 5,37 5,53 |
| N W/W 6,71 6,53 6,23 6,54 6,22 6,12 6,16 6,12 6,14 5,93 6,09 5,97 6,08 | 5,83 5,90 |
| U W/W 6,43 6,30 6,31 6,01 6,15 6,09 5,88 6,19 5,88 6,05 | 5,85 6,07 |

ELECTRIC DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | | | |
| | 0 | A | - | - | - | - | 72,2 | 77,1 | 86,0 | 98,2 | 94,9 | 111,3 | 112,7 | 127,3 | 131,4 | 144,0 | 141,2 |
| | A | A | - | - | - | - | 72,2 | 77,1 | 86,0 | 98,2 | 94,9 | 114,5 | 112,7 | 127,3 | 131,4 | 144,0 | 141,2 |
| Maximum aurent (FLA) | E | A | 42,6 | 49,2 | 56,9 | 65,3 | 72,2 | 77,1 | 86,0 | 98,2 | 94,9 | 114,5 | 112,7 | 127,3 | 131,4 | 144,0 | 141,2 |
| Maximum current (FLA) | L | A | 41,5 | 49,2 | 55,8 | 65,3 | 72,2 | 77,1 | 86,0 | 98,2 | 94,9 | 111,3 | 112,7 | 127,3 | 131,4 | 144,0 | 141,2 |
| | N | Α | 42,6 | 50,3 | 56,9 | 67,3 | 72,2 | 77,1 | 89,2 | 101,3 | 98,1 | 114,5 | 112,7 | 130,5 | 134,6 | 147,2 | 144,4 |
| | U | A | - | - | - | 67,3 | 72,2 | 77,1 | 89,2 | 101,3 | 98,1 | 114,5 | 112,7 | 130,5 | 134,6 | 147,2 | 144,4 |
| | 0 | A | - | - | - | - | 277,6 | 282,5 | 329,2 | 211,9 | 338,1 | 225,1 | 363,8 | 378,4 | 274,9 | 476,4 | 346,6 |
| | A | Α | - | - | - | - | 277,6 | 282,5 | 329,2 | 211,9 | 338,1 | 228,3 | 363,8 | 378,4 | 274,9 | 476,4 | 346,6 |
| DI | E | A | 148,0 | 163,0 | 170,6 | 208,9 | 277,6 | 282,5 | 329,2 | 211,9 | 338,1 | 228,3 | 363,8 | 378,4 | 274,9 | 476,4 | 346,6 |
| Peak current (LRA) | L | A | 146,9 | 163,0 | 169,5 | 208,9 | 277,6 | 282,5 | 329,2 | 211,9 | 338,1 | 225,1 | 363,8 | 378,4 | 274,9 | 476,4 | 346,6 |
| | N | A | 148,0 | 164,1 | 170,6 | 210,8 | 277,6 | 282,5 | 332,4 | 215,1 | 341,3 | 228,3 | 363,8 | 381,6 | 278,1 | 479,6 | 349,8 |
| | U | A | - | - | - | 210,8 | 277,6 | 282,5 | 332,4 | 215,1 | 341,3 | 228,3 | 363,8 | 381,6 | 278,1 | 479,6 | 349,8 |

GENERAL TECHNICAL DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------|-------------|------|------|------|------|-------|--------|--------|--------|--------------|--------|--------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | Scroll | | | | | | | |
| | °,A | no. | - | - | - | - | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| Number | E,L,N | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| | U | no. | - | - | - | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| | °,A | no. | - | - | - | - | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| Circuits | E,L,N | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| | U | no. | - | - | - | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | | | | R410A | | | | | | | |
| System side heat | exchanger | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | Brazed plate | 2 | | | | | | |
| | °,A | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | E,L,N | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | U | no. | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connec | tions | | | | | | | | | | | | | | | | |
| | °,A | Ø | - | - | - | - | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 |
| Sizes (in/out) | E,L,N | Ø | | | | | | | | 2"1/2 | | | | | | | |
| | U | Ø | - | - | - | 2"1/2 | 2"1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 |

G.s. = Grooved joints

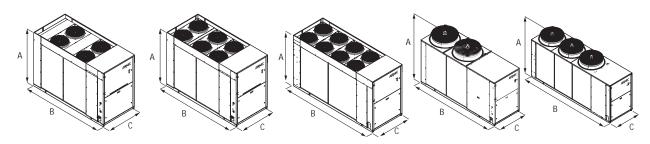
⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C

| Fans | | | | | | | | | | | | | | | | | |
|---|----------------|-------------------|-------|--------|-------|-------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| - | 0 | no. | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| - | A | no. | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| Number | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| - | L | no. | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| - | N | no. | 6 | 8 | 8 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 |
| | U | no. | - | | - | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
| Fans: ° | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| Fan motor | °,A,U | type | | | | | | | | synchrono | | | | | | | |
| | E,L,N | type m³/h | | | | | | | Asynchro | nous with | pnase cut | | | | | | |
| - | °,A,U E | m³/h | 20700 | 22200 | 27500 | 24800 | - | - | | | | - | - | - | - | - | - |
| Air flow rate | | m ³ /h | 15200 | 20700 | 22200 | 27500 | | | | | | | | | | | |
| - | N N | m ³ /h | 22200 | 27500 | 24800 | 2/300 | - | - | | - | - | - | - | - | - | - | |
| Sound data calculated in cooling mode (1 | | ni /II | 22200 | 21 300 | ۷٩٥٥٥ | | | | | | | | | | | | |
| water tartainten in cooling mode (1 | °,A,U | dB(A) | | | | | | _ | - | | | | | - | | | |
| | ,n,o E | dB(A) | 72,4 | 72,9 | 73,7 | 73,9 | - | - | - | - | - | - | - | - | - | - | - |
| Sound power level | | dB(A) | 71,8 | 72,9 | 73,3 | 73,9 | - | - | - | _ | - | - | - | _ | - | - | |
| - | N | dB(A) | 72,4 | 73,3 | 73,7 | - | - | - | - | - | - | - | - | - | - | - | - |
| (1) Sound power: calculated on the basis of n | neasurements i | | | | | -2, as requ | ired for Eu | rovent cer | tification. S | Sound pre | sure meas | ured in fre | e field (in | complianc | e with UNI | EN ISO 37 | 44). |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
| Fans: M | | | 7202 | 0302 | 0332 | 0332 | 0302 | - 0332 | 0002 | 0001 | 0032 | 0051 | 0002 | 0,02 | 0,01 | 0,52 | - 0751 |
| Increased fan | | | | | | | | | | | | | | | | | |
| - | °,A,U | type | | | | | | | A | synchrono | us | | | | | | |
| Fan motor | E,L,N | type | | | | | | | Asynchro | nous with | phase cut | | | | | | |
| With static pressure | | | | | | | | | | | | | | | | | |
| | 0 | m³/h | - | - | - | - | 36600 | 36600 | 35100 | 35100 | 35100 | 33700 | 55200 | 53100 | 53100 | 53100 | 53100 |
| _ | A | m³/h | - | - | - | - | 35100 | 35100 | 33800 | 33800 | 33700 | 53100 | 53100 | 51100 | 51100 | 51100 | 51100 |
| Air flow rate | E | m³/h | 20700 | 22200 | 27500 | 24800 | 26800 | 26800 | 25600 | 25600 | 25600 | 40500 | 40500 | 38800 | 38800 | 38800 | 38800 |
| All How face | L | m³/h | 15200 | 20700 | 22200 | 27500 | 30900 | 30900 | 29500 | 29500 | 46500 | 44600 | 44600 | 29500 | 28300 | 44600 | 44600 |
| - | N | m³/h | 22200 | 27500 | 24800 | 26800 | 25600 | 25600 | 40500 | 40500 | 40500 | 38800 | 38800 | 54600 | 54600 | 54600 | 54600 |
| | U | m³/h | - | - | - | 35100 | 33700 | 33700 | 53100 | 53100 | 53100 | 51100 | 51100 | 71200 | 71200 | 71200 | 71200 |
| - | °,A | <u>Pa</u> | - | - | - | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| High static pressure | E,L | Pa | 80 | 80 | 80 | 80 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | N N | Pa | 20 | 20 | 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | U | Pa | - | | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| - | | dB(A) | | - | - | | 84,5 | 85,0 85,0 | 85,3 85,3 | 84,2 84,2 | 85,5 85,5 | 84,3 85,9 | 86,9 | 87,0 | 85,9 | 87,7 | 87,5 87,5 |
| - | A E | dB(A) | 72,4 | 72,9 | 73,7 | 73,9 | 84,5 80,7 | 81,5 | 82,1 | 76,1 | 82,5 | 77,2 | 86,9 83,6 | 87,0 83,8 | 85,9 77,4 | 87,7 85,0 | 83,0 |
| Sound power level | i | dB(A) | 71,8 | 72,9 | 73,3 | 73,9 | 80,7 | 81,5 | 82,1 | 76,1 | 82,5 | 76,5 | 83,6 | 83,8 | 77,4 | 85,0 | 83,5 |
| - | N N | dB(A) | 72,4 | 73,3 | 73,7 | 79,7 | 80,7 | 81,5 | 83,0 | 76,9 | 83,4 | 77,2 | 83,6 | 84,5 | 77,9 | 85,5 | 83,3 |
| - | U | dB(A) | - | - | - | 84,0 | 84,5 | 85,0 | 86,6 | 85,8 | 86,8 | 85,9 | 86,9 | 87,9 | 87,0 | 88,5 | 88,5 |
| Without Static pressure | | , | | | | . , | . ,- | , | ,- | ,. | ,. | , | , | . , | - , | ,. | |
| • | 0 | m³/h | - | - | - | - | 42300 | 42300 | 40400 | 40400 | 40400 | 38700 | 63700 | 61000 | 61000 | 61000 | 61000 |
| _ | A | m³/h | - | - | - | - | 40400 | 40400 | 38600 | 38600 | 38600 | 61100 | 61000 | 58500 | 58500 | 58500 | 58500 |
| Air flow rate | E | m³/h | | - | | - | 26800 | 26800 | 25600 | 25600 | 25600 | 40500 | 40500 | 38800 | 38800 | 38800 | 38800 |
| Air flow rate | L | m³/h | - | - | - | - | 30900 | 30900 | 29500 | 29500 | 29500 | 28300 | 46500 | 44600 | 44600 | 44600 | 44600 |
| | N | m³/h | - | - | - | 26800 | 25600 | 25600 | 40500 | 40500 | 40500 | 38800 | 38800 | 54600 | 54600 | 54600 | 54600 |
| | U | m³/h | - | - | - | 45700 | 44000 | 44000 | 69000 | 69000 | 69000 | 66500 | 69000 | 66500 | 66500 | 66500 | 66500 |
| High static pressure | °,A,E,L | Pa | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| J | N,U | Pa | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | dB(A) | - | - | - | - | 86,6 | 86,8 | 87,0 | 86,0 | 87,1 | 86,0 | 88,2 | 88,3 | 87,7 | 88,6 | 88,5 |
| | A | dB(A) | - | - | - | - | 86,6 | 86,8 | 87,0 | 86,0 | 87,1 | 87,7 | 88,2 | 88,3 | 87,7 | 88,6 | 88,5 |
| Sound power level | E | dB(A) | - | - | - | - | 80,7 | 81,5 | 82,1 | 76,1 | 82,5 | 77,2 | 83,6 | 83,8 | 77,4 | 85,0 | 83,0 |
| | L | dB(A) | - | - | - | 70.7 | 80,7 | 81,5 | 82,1 | 76,1 | 82,5 | 76,5 | 83,6 | 83,8 | 77,4 | 85,0 | 83,5 |
| - | N N | dB(A) | - | | - | 79,7 | 80,7 | 81,5 | 83,0 | 76,9 | 83,4 | 77,2 | 83,6 | 84,5 | 77,9 | 85,5 | 83,3 |
| | U | dB(A) | - | - | - | 86,4 | 86,6 | 86,8 | 88,5 | 87,7 | 88,6 | 87,7 | 88,2 | 89,3 | 88,9 | 89,6 | 89,6 |

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| Fans: J | | | | | | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | | | | | | |
| Fan motor | °,A,E,L,N,U | type | | | | | | | | Inverter | | | | | | | |
| | 0 | m³/h | - | - | - | - | 36600 | 36600 | 35100 | 35100 | 35100 | 33700 | 55200 | 53100 | 53100 | 53100 | 53100 |
| | Α | m³/h | - | - | - | - | 35100 | 35100 | 33800 | 33800 | 33700 | 53100 | 53100 | 51100 | 51100 | 51100 | 51100 |
| Air flow rate | E | m³/h | 20700 | 22200 | 27500 | 24800 | 26800 | 26800 | 25600 | 25600 | 25600 | 40500 | 40500 | 38800 | 38800 | 38800 | 38800 |
| All HOW fale | L | m³/h | 15200 | 20700 | 22200 | 27500 | 30900 | 30900 | 29500 | 29500 | 29500 | 28300 | 46500 | 44600 | 44600 | 44600 | 44600 |
| | N | m³/h | 22200 | 27500 | 24800 | 26800 | 25600 | 25600 | 40500 | 40500 | 40500 | 38800 | 38800 | 54600 | 54600 | 54600 | 54600 |
| | U | m³/h | - | - | - | 35100 | 33700 | 33700 | 53100 | 53100 | 51100 | 71200 | 71200 | 53100 | 51100 | 71200 | 71200 |
| | °,A | Pa | - | - | - | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| High static processo | E,L | Pa | 20 | 20 | 20 | 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| High static pressure | N | Pa | 20 | 20 | 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | U | Pa | - | - | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Sound data calculated in cooling mode (| I) | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | - | - | - | - | 84,5 | 85,0 | 85,3 | 85,5 | 86,9 | 87,0 | 87,7 | 84,2 | 84,3 | 85,9 | 87,5 |
| | A | dB(A) | - | - | - | - | 84,5 | 85,0 | 85,3 | 85,5 | 86,9 | 87,0 | 87,7 | 84,2 | 85,9 | 85,9 | 87,5 |
| Cound namer lavel | E | dB(A) | 72,4 | 72,9 | 73,7 | 73,9 | 80,7 | 81,5 | 82,1 | 82,5 | 83,6 | 83,8 | 85,0 | 76,1 | 77,2 | 77,4 | 83,0 |
| Sound power level | L | dB(A) | 71,8 | 72,9 | 73,3 | 73,9 | 80,7 | 81,5 | 82,1 | 82,5 | 83,6 | 83,8 | 85,0 | 76,1 | 76,5 | 77,4 | 83,5 |
| | N | dB(A) | 72,4 | 73,3 | 73,7 | 79,7 | 80,7 | 81,5 | 83,0 | 83,4 | 83,6 | 84,5 | 85,5 | 76,9 | 77,2 | 77,9 | 83,3 |
| | U | dB(A) | - | - | - | 84,0 | 84,5 | 85,0 | 86,6 | 86,8 | 86,9 | 87,9 | 88,5 | 85,8 | 85,9 | 87,0 | 88,5 |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------------|-------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| | °,A | mm | - | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| Λ | E,L | mm | 1680 | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| A | N | mm | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | U | mm | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | 0 | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| | A | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 4010 |
| В | E | mm | 2450 | 2950 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 4010 |
| D | L | mm | 2450 | 2450 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| | N | mm | 2950 | 2950 | 2950 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 5200 | 5200 | 5200 | 5200 |
| | U | mm | - | - | - | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 5200 | 5200 | 5200 | 5200 |
| | °,A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| (| E,L,N | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | U | mm | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Weights | | | | | | | | | | | | | | | | | |
| | • | kg | - | - | - | - | 993 | 1018 | 1075 | 1160 | 1075 | 1210 | 1267 | 1427 | 1331 | 1440 | 1392 |
| | A | kg | - | - | - | - | 1046 | 1072 | 1116 | 1200 | 1116 | 1325 | 1347 | 1507 | 1410 | 1531 | 1471 |
| Without hudronic lit | E | kg | 828 | 889 | 912 | 962 | 1046 | 1072 | 1116 | 1116 | 1347 | 1507 | 1531 | 1200 | 1325 | 1410 | 1471 |
| Without hydronic kit | L | kg | 810 | 828 | 894 | 907 | 993 | 1018 | 1075 | 1160 | 1075 | 1210 | 1267 | 1427 | 1331 | 1440 | 1392 |
| | N | kg | 884 | 907 | 957 | 1020 | 1076 | 1109 | 1232 | 1243 | 1426 | 1647 | 1660 | 1327 | 1415 | 1549 | 1607 |
| | U | kg | - | - | - | 1020 | 1076 | 1109 | 1232 | 1243 | 1426 | 1647 | 1660 | 1327 | 1415 | 1549 | 1607 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRB 0282H-0754H

Reversible air/water heat pump

Cooling capacity 52 ÷ 261 kW Heating capacity 57 ÷ 193 kW



- · High efficiency also at partial loads
- Components redundancy for greater safety
- Reduced amount of refrigerant
- Compact dimensions





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -15°C outside air temperature in winter, and up to 48°C in summer. Hot water production up to 55°C (for more information see the technical documentation).

Units mono or dual-circuit

The units are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

The possibility to use electronic expansion valve, available to configurator, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

■ VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTRO

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using

Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid. VT: Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real

AERCALM: The aim of the accessory installed in the electric box of the unit is to provide a clean contact for commanding - on the basis of the outside air temperature - a boiler to replace the heat pump. Aercalm must be requested at the time of ordering, as it is installed in the fac-

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AEK483PT | E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AENDACE | E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| AERINEI | E,L | • | | | • | • | • | • | • | • | • | • | • | • | | • |
| MULTICUULIED EVO | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | E,L | • | | | • | • | • | • | • | • | • | • | • | • | | • |
| DCD1 | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

Condensation control temperature

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|---------|---------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fans:° | | | | | | | | | | | | | | | |
| ۰ | - | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 |
| A | - | - | - | - | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX142 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 | DCPX143 |
| E,L | DCPX140 | DCPX140 | DCPX140 | DCPX140 | As standard |
| Fans: M | | | | | | | | | | | | | | | |
| E,L | DCPX141 | DCPX141 | DCPX141 | DCPX141 | - | - | - | - | - | - | - | - | - | - | - |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|------------------|--------------|--------------|------------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I1, I2, I3, | 14, P1, P2, P3, | P4 | | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| E | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| L | VT17 | VT17 | VT17 | VT17 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| Integrated hydronic kit: 01, 02, 03, 04 | 4, 05, 06, 07, 0 | 8, K1, K2, K | 3, K4, W1, V | V2, W3, W4 | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | VT22 |
| L | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) |
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) |
| E | GP3 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) |
| L | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) |

(1) x_i indicates the quantity to buy The accessory cannot be fitted on the configurations indicated with -

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 |
|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °,A | - | - | - | - | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |
| E,L | DRENRB282 (1) | DRENRB302 (1) | DRENRB332 (1) | DRENRB352 (1) | DRENRB502 (1) | DRENRB552 (1) | DRENRB602 (1) | DRENRB604 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

The accessory cannot be fitted on the configurations indicated with

A grey background indicates the accessory must be assembled in the factory

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| °,A,E,L | DRENRB652 (1) | DRENRB654 (1) | DRENRB682 (1) | DRENRB702 (1) | DRENRB704 (1) | DRENRB752 (1) | DRENRB754 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

À grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °,A | - | - | - | - | RIF0502 | RIF0552 | RIF0602 | RIF0604 | RIF0652 | RIF0654 | RIF0682 | RIF0702 | RIF0704 | RIF0752 | RIF0754 |
| E,L | RIF0282 | RIF0302 | RIF0332 | RIF0352 | RIF0502 | RIF0552 | RIF0602 | RIF0604 | RIF0652 | RIF0654 | RIF0682 | RIF0702 | RIF0704 | RIF0752 | RIF0754 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Touch screen keyboard

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °,A,E,L | C-TOUCH |

A grey background indicates the accessory must be assembled in the factory

Clean contact for controlling a boiler.

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AERCALM | °.A.E.L | | | | | | | | • | | • | | | • | | • |

CONFIGURATOR

| Field | | Description |
|--------|----|--|
| 1,2,3 | | NRB |
| 4,5,6, | ,7 | Size 0282, 0302, 0332, 0352, 0502, 0552, 0602, 0604, 0652, 0654, 0682, 0702, 0704 0752, 0754 |
| 8 | | Operating field |
| (| 0 | Standard mechanic thermostatic valve (1) |
|) | Χ | Electronic thermostatic expansion valve (1) |
| ١ | Y | Double mechanical thermostat for low temperature (2) |
| 7 | Z | Low temperature electronic thermostatic valve (3) |
| 9 | | Model |
| ŀ | Н | Heat pump |
| 10 | | Heat recovery |
| C | 0 | Without heat recovery |
| [| D | With desuperheater (4) |
| 11 | | Version |
| 0 | 0 | Standard |
| - 1 | A | High efficiency |
| E | E | Silenced high efficiency (5) |
| I | L | Standard silenced (5) |
| 12 | | Coils |
| c | 0 | Copper-aluminium |
| F | R | Copper pipes-copper fins |
| 9 | S | Copper pipes-Tinned copper fins |
| ١ | V | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| c | 0 | Standard |
| J | J | Inverter |
| I | M | Oversized (6) |
| 14 | | Power supply |
| C | 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,16 | | Integrated hydronic kit |
| | | Without hydronic kit |
| (| 00 | Without hydronic kit |
| | | Kit with storage tank and pump/s |
| (| 01 | Storage tank with low head pump |
| (| 02 | Storage tank with low head pump + stand-by pump |

| Field | Description |
|-------|--|
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (7) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (7) |
| 07 | Storage tank with holes for heaters and single high head pump (7) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (7) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| 11 | Single low head pump + fixed speed inverter |
| 12 | Single low head pump with fixed speed inverter + stand-by pump |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter |
| W2 | Double low head pump + Storage tank + variable speed inverter |
| W3 | Single high head pump + Storage tank + variable speed inverter |
| W4 | Double high head pump + Storage tank + variable speed inverter |

- (1) Water produced from 4 °C ÷ 18 °C
 (2) Water produced from -10 °C ÷ 18 °C
 (3) Water produced from -10 °C ÷ 18 °C
 (4) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 (5) The size 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
 (6) Only for 0282 ÷ 0352 sizes
 (7) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

416 NRB-0282-0754-HP_Y_UN50_11 www.aermec.com

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

NRB H°

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 91,2 | 99,7 | 116,0 | 115,4 | 124,7 | 133,4 | 151,0 | 169,9 | 159,9 | 187,2 | 180,8 |
| Input power | kW | - | - | - | - | 33,5 | 37,5 | 42,6 | 46,2 | 47,8 | 51,2 | 51,7 | 60,0 | 58,0 | 69,8 | 65,7 |
| Cooling total input current | Α | - | - | - | - | 61,0 | 67,0 | 74,0 | 83,0 | 83,0 | 92,0 | 90,0 | 102,0 | 105,0 | 116,0 | 116,0 |
| EER | W/W | - | - | - | - | 2,72 | 2,66 | 2,72 | 2,50 | 2,61 | 2,60 | 2,92 | 2,83 | 2,76 | 2,68 | 2,75 |
| Water flow rate system side | I/h | - | - | - | - | 15705 | 17177 | 19972 | 19876 | 21484 | 22988 | 25997 | 29247 | 27534 | 32236 | 31116 |
| Pressure drop system side | kPa | - | - | - | - | 35 | 42 | 37 | 44 | 43 | 44 | 50 | 61 | 65 | 74 | 59 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 96,8 | 105,8 | 123,7 | 129,0 | 136,1 | 143,4 | 158,7 | 178,4 | 171,8 | 198,7 | 188,6 |
| Input power | kW | - | - | - | - | 31,0 | 33,8 | 38,7 | 42,7 | 43,3 | 47,7 | 51,2 | 58,2 | 57,3 | 66,0 | 61,8 |
| Heating total input current | Α | - | - | - | - | 56,0 | 60,0 | 68,0 | 77,0 | 76,0 | 87,0 | 89,0 | 99,0 | 104,0 | 110,0 | 111,0 |
| COP | W/W | - | - | - | - | 3,12 | 3,13 | 3,20 | 3,03 | 3,15 | 3,01 | 3,10 | 3,07 | 3,00 | 3,01 | 3,05 |
| Water flow rate system side | l/h | - | - | - | - | 16773 | 18334 | 21443 | 22371 | 23594 | 24863 | 27527 | 30948 | 29797 | 34460 | 32710 |
| Pressure drop system side | kPa | - | - | - | - | 40 | 48 | 43 | 56 | 52 | 52 | 56 | 69 | 76 | 84 | 65 |

NRB HL

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 52,1 | 59,2 | 67,3 | 78,1 | 88,5 | 96,5 | 111,5 | 110,4 | 119,3 | 126,4 | 147,0 | 164,5 | 154,9 | 180,5 | 174,0 |
| Input power | kW | 19,5 | 22,0 | 24,8 | 29,5 | 34,1 | 38,3 | 44,1 | 48,4 | 49,9 | 54,2 | 52,3 | 61,5 | 59,2 | 72,5 | 67,8 |
| Cooling total input current | Α | 35,0 | 41,0 | 47,0 | 55,0 | 59,0 | 66,0 | 74,0 | 84,0 | 84,0 | 94,0 | 87,0 | 100,0 | 103,0 | 116,0 | 116,0 |
| EER | W/W | 2,67 | 2,69 | 2,71 | 2,65 | 2,60 | 2,52 | 2,53 | 2,28 | 2,39 | 2,33 | 2,81 | 2,68 | 2,62 | 2,49 | 2,57 |
| Water flow rate system side | I/h | 8974 | 10197 | 11584 | 13455 | 15234 | 16630 | 19200 | 19020 | 20540 | 21776 | 25312 | 28324 | 26677 | 31068 | 29958 |
| Pressure drop system side | kPa | 33 | 42 | 33 | 45 | 33 | 39 | 34 | 40 | 39 | 40 | 48 | 58 | 60 | 69 | 55 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 57,5 | 65,7 | 75,3 | 84,9 | 96,8 | 105,8 | 123,7 | 129,0 | 136,1 | 143,4 | 158,7 | 178,4 | 171,8 | 198,7 | 188,6 |
| Input power | kW | 17,6 | 20,7 | 23,1 | 26,9 | 31,0 | 33,8 | 38,7 | 42,6 | 43,3 | 47,7 | 51,2 | 58,2 | 57,3 | 66,0 | 61,8 |
| Heating total input current | Α | 32,0 | 38,0 | 43,0 | 51,0 | 56,0 | 60,0 | 68,0 | 77,0 | 76,0 | 87,0 | 89,0 | 99,0 | 104,0 | 110,0 | 111,0 |
| COP | W/W | 3,27 | 3,17 | 3,26 | 3,16 | 3,12 | 3,13 | 3,20 | 3,03 | 3,15 | 3,01 | 3,10 | 3,07 | 3,00 | 3,01 | 3,05 |
| Water flow rate system side | l/h | 9973 | 11376 | 13056 | 14711 | 16773 | 18334 | 21443 | 22371 | 23594 | 24863 | 27527 | 30948 | 29797 | 34460 | 32710 |
| Pressure drop system side | kPa | 41 | 53 | 42 | 54 | 40 | 47 | 43 | 55 | 52 | 52 | 56 | 69 | 75 | 84 | 65 |

NRB HA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 96,9 | 106,5 | 123,6 | 123,1 | 133,6 | 142,1 | 163,9 | 178,5 | 168,0 | 199,9 | 190,0 |
| Input power | kW | - | - | - | - | 32,3 | 36,1 | 39,5 | 43,3 | 45,0 | 47,2 | 50,7 | 57,0 | 55,4 | 66,5 | 62,8 |
| Cooling total input current | А | - | - | - | - | 57,0 | 61,0 | 68,0 | 73,0 | 74,0 | 79,0 | 85,0 | 94,0 | 99,0 | 102,0 | 106,0 |
| EER | W/W | - | - | - | - | 3,00 | 2,95 | 3,13 | 2,84 | 2,97 | 3,01 | 3,23 | 3,13 | 3,03 | 3,01 | 3,03 |
| Water flow rate system side | l/h | - | - | - | - | 16684 | 18331 | 21277 | 21205 | 23007 | 24462 | 28216 | 30726 | 28924 | 34406 | 32698 |
| Pressure drop system side | kPa | - | - | - | - | 26 | 31 | 32 | 38 | 38 | 50 | 44 | 52 | 50 | 56 | 54 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 100,3 | 110,9 | 124,3 | 129,7 | 138,2 | 149,4 | 164,1 | 179,7 | 172,3 | 200,6 | 190,0 |
| Input power | kW | - | - | - | - | 30,7 | 33,5 | 37,6 | 40,5 | 42,0 | 46,7 | 50,2 | 56,3 | 54,3 | 62,9 | 59,5 |
| Heating total input current | Α | - | - | - | - | 56,0 | 60,0 | 67,0 | 73,0 | 74,0 | 86,0 | 87,0 | 96,0 | 99,0 | 106,0 | 107,0 |
| COP | W/W | - | - | - | - | 3,27 | 3,31 | 3,31 | 3,20 | 3,29 | 3,20 | 3,27 | 3,19 | 3,17 | 3,19 | 3,19 |
| Water flow rate system side | l/h | - | - | - | - | 17406 | 19230 | 21553 | 22489 | 23953 | 25914 | 28469 | 31171 | 29889 | 34800 | 32956 |
| Pressure drop system side | kPa | - | - | - | - | 28 | 34 | 33 | 42 | 41 | 56 | 45 | 54 | 54 | 57 | 55 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Beat exchanger water (services side) 12°C / 7°C; outside air 3°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40°C / 45°C; Outside air 7°C d.b. / 6°C w.b.

NRB HE

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 55,4 | 62,1 | 70,0 | 81,2 | 94,0 | 103,0 | 119,1 | 117,6 | 128,0 | 138,3 | 159,4 | 172,5 | 162,3 | 191,7 | 182,6 |
| Input power | kW | 18,5 | 21,0 | 23,7 | 28,3 | 32,8 | 36,9 | 40,7 | 44,7 | 46,9 | 47,7 | 51,4 | 58,5 | 56,7 | 69,3 | 64,9 |
| Cooling total input current | Α | 32,0 | 37,0 | 42,0 | 47,0 | 56,0 | 61,0 | 68,0 | 74,0 | 75,0 | 76,0 | 83,0 | 93,0 | 98,0 | 102,0 | 106,0 |
| EER | W/W | 3,00 | 2,96 | 2,95 | 2,86 | 2,86 | 2,79 | 2,92 | 2,63 | 2,73 | 2,90 | 3,10 | 2,95 | 2,87 | 2,77 | 2,81 |
| Water flow rate system side | l/h | 9530 | 10696 | 12052 | 13983 | 16181 | 17722 | 20498 | 20255 | 22037 | 23819 | 27431 | 29692 | 27947 | 33000 | 31425 |
| Pressure drop system side | kPa | 23 | 29 | 26 | 35 | 24 | 29 | 30 | 34 | 34 | 48 | 41 | 49 | 47 | 51 | 50 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 59,0 | 68,2 | 76,6 | 87,1 | 100,3 | 110,9 | 124,3 | 129,7 | 138,2 | 149,4 | 164,1 | 179,7 | 172,3 | 200,6 | 190,0 |
| Input power | kW | 17,5 | 20,3 | 22,9 | 26,4 | 30,7 | 33,5 | 37,6 | 40,5 | 42,0 | 46,7 | 50,2 | 56,3 | 54,3 | 62,9 | 59,5 |
| Heating total input current | Α | 33,0 | 38,0 | 44,0 | 50,0 | 56,0 | 60,0 | 67,0 | 73,0 | 74,0 | 86,0 | 87,0 | 96,0 | 99,0 | 106,0 | 107,0 |
| COP | W/W | 3,37 | 3,36 | 3,35 | 3,30 | 3,27 | 3,31 | 3,31 | 3,20 | 3,29 | 3,20 | 3,27 | 3,19 | 3,17 | 3,19 | 3,19 |
| Water flow rate system side | l/h | 10227 | 11816 | 13289 | 15100 | 17406 | 19230 | 21553 | 22489 | 23953 | 25914 | 28469 | 31171 | 29889 | 34800 | 32956 |
| Pressure drop system side | kPa | 26 | 35 | 31 | 41 | 28 | 34 | 33 | 42 | 41 | 56 | 45 | 54 | 54 | 57 | 55 |

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

NRB H°

| 1111211 | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 122,6 | 133,3 | 155,1 | 154,9 | 165,6 | 183,4 | 203,5 | 227,9 | 218,9 | 248,3 | 247,3 |
| Input power | kW | - | - | - | - | 36,3 | 41,0 | 46,5 | 50,2 | 52,2 | 55,9 | 55,8 | 65,6 | 62,6 | 77,0 | 72,2 |
| Cooling total input current | Α | - | - | - | - | 65,0 | 72,0 | 80,0 | 89,0 | 90,0 | 99,0 | 96,0 | 110,0 | 112,0 | 126,0 | 126,0 |
| EER | W/W | - | - | - | - | 3,38 | 3,25 | 3,33 | 3,08 | 3,17 | 3,28 | 3,65 | 3,48 | 3,50 | 3,23 | 3,42 |
| Water flow rate system side | l/h | - | - | - | - | 21190 | 23054 | 26805 | 26775 | 28622 | 31700 | 35175 | 39395 | 37837 | 42931 | 42743 |
| Pressure drop system side | kPa | - | - | - | - | 63 | 75 | 67 | 81 | 76 | 84 | 92 | 111 | 123 | 131 | 112 |
| Heating performance 30 °C/35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 98,8 | 107,2 | 127,4 | 132,8 | 139,6 | 146,7 | 163,5 | 182,9 | 176,8 | 201,7 | 192,4 |
| Input power | kW | - | - | - | - | 25,4 | 27,7 | 31,8 | 34,3 | 35,5 | 38,4 | 42,0 | 47,3 | 46,5 | 53,2 | 50,4 |
| Heating total input current | Α | - | - | - | - | 46,0 | 49,0 | 56,0 | 61,0 | 62,0 | 70,0 | 72,0 | 80,0 | 84,0 | 88,0 | 90,0 |
| COP | W/W | - | - | - | - | 3,89 | 3,87 | 4,01 | 3,87 | 3,93 | 3,82 | 3,90 | 3,87 | 3,80 | 3,79 | 3,82 |
| Water flow rate system side | l/h | - | - | - | - | 17058 | 18508 | 21998 | 22936 | 24118 | 25357 | 28248 | 31616 | 30551 | 34851 | 33261 |
| Pressure drop system side | kPa | - | - | - | - | 41 | 49 | 45 | 59 | 54 | 54 | 59 | 72 | 80 | 86 | 68 |

NRB HL

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 69,6 | 79,3 | 92,2 | 105,6 | 118,1 | 128,2 | 147,6 | 146,8 | 156,6 | 170,9 | 196,8 | 218,8 | 210,1 | 237,3 | 235,3 |
| Input power | kW | 21,9 | 24,2 | 27,3 | 32,5 | 37,3 | 42,4 | 48,9 | 53,8 | 55,5 | 60,7 | 57,2 | 68,1 | 64,8 | 81,0 | 75,7 |
| Cooling total input current | Α | 39,0 | 44,0 | 51,0 | 60,0 | 64,0 | 72,0 | 81,0 | 92,0 | 93,0 | 104,0 | 94,0 | 110,0 | 111,0 | 128,0 | 128,0 |
| EER | W/W | 3,18 | 3,27 | 3,37 | 3,25 | 3,17 | 3,02 | 3,02 | 2,73 | 2,82 | 2,82 | 3,44 | 3,22 | 3,24 | 2,93 | 3,11 |
| Water flow rate system side | I/h | 12041 | 13740 | 15960 | 18270 | 20427 | 22163 | 25508 | 25376 | 27064 | 29542 | 34006 | 37824 | 36327 | 41017 | 40668 |
| Pressure drop system side | kPa | 59 | 77 | 63 | 83 | 59 | 69 | 61 | 70 | 68 | 73 | 86 | 103 | 112 | 120 | 101 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 58,9 | 66,7 | 77,1 | 86,8 | 98,8 | 107,2 | 127,4 | 132,8 | 139,6 | 146,7 | 163,5 | 182,9 | 176,8 | 201,7 | 192,4 |
| Input power | kW | 13,9 | 16,5 | 18,4 | 21,5 | 25,4 | 27,7 | 31,8 | 34,3 | 35,5 | 38,4 | 42,0 | 47,3 | 46,5 | 53,2 | 50,4 |
| Heating total input current | Α | 25,0 | 30,0 | 34,0 | 40,0 | 46,0 | 49,0 | 56,0 | 61,0 | 62,0 | 70,0 | 72,0 | 80,0 | 84,0 | 88,0 | 90,0 |
| COP | W/W | 4,25 | 4,06 | 4,19 | 4,03 | 3,89 | 3,87 | 4,01 | 3,87 | 3,93 | 3,82 | 3,90 | 3,87 | 3,80 | 3,79 | 3,82 |
| Water flow rate system side | l/h | 10168 | 11516 | 13317 | 14972 | 17058 | 18508 | 21998 | 22936 | 24118 | 25357 | 28248 | 31616 | 30551 | 34851 | 33261 |
| Pressure drop system side | kPa | 42 | 54 | 44 | 56 | 41 | 48 | 45 | 57 | 54 | 54 | 59 | 72 | 79 | 86 | 68 |
| · | | | | | | | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C / 35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

NRB HA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 131,3 | 143,6 | 166,5 | 170,4 | 178,7 | 198,2 | 222,3 | 241,2 | 231,6 | 268,1 | 261,3 |
| Input power | kW | - | - | - | - | 34,9 | 39,4 | 42,9 | 47,2 | 49,0 | 50,3 | 54,8 | 62,4 | 59,6 | 73,6 | 68,8 |
| Cooling total input current | Α | - | - | - | - | 61,0 | 66,0 | 74,0 | 79,0 | 80,0 | 82,0 | 91,0 | 101,0 | 105,0 | 112,0 | 115,0 |
| EER | W/W | - | - | - | - | 3,77 | 3,65 | 3,88 | 3,61 | 3,65 | 3,94 | 4,06 | 3,86 | 3,88 | 3,65 | 3,80 |
| Water flow rate system side | l/h | - | - | - | - | 22699 | 24821 | 28771 | 29452 | 30874 | 34255 | 38412 | 41683 | 40019 | 46336 | 45163 |
| Pressure drop system side | kPa | - | - | - | - | 48 | 57 | 59 | 73 | 68 | 98 | 81 | 97 | 96 | 102 | 103 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 104,2 | 114,6 | 128,1 | 133,6 | 141,8 | 154,4 | 169,0 | 184,0 | 177,3 | 203,5 | 193,6 |
| Input power | kW | - | - | - | - | 25,2 | 27,6 | 30,9 | 32,6 | 34,4 | 38,0 | 41,2 | 45,8 | 44,1 | 50,7 | 48,5 |
| Heating total input current | Α | - | - | - | - | 46,0 | 49,0 | 54,0 | 59,0 | 60,0 | 69,0 | 71,0 | 78,0 | 80,0 | 85,0 | 87,0 |
| COP | W/W | - | - | - | - | 4,14 | 4,16 | 4,15 | 4,10 | 4,12 | 4,07 | 4,10 | 4,02 | 4,02 | 4,01 | 3,99 |
| Water flow rate system side | l/h | - | - | - | - | 18004 | 19795 | 22128 | 23077 | 24492 | 26674 | 29206 | 31801 | 30649 | 35173 | 33469 |
| Pressure drop system side | kPa | - | - | - | - | 30 | 36 | 35 | 45 | 43 | 60 | 47 | 56 | 56 | 58 | 57 |

NRB HE

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 76,4 | 85,7 | 96,8 | 111,4 | 126,2 | 137,5 | 158,5 | 160,4 | 168,9 | 191,5 | 214,3 | 230,5 | 221,2 | 253,2 | 247,4 |
| Input power | kW | 20,4 | 23,1 | 25,7 | 31,2 | 35,9 | 41,0 | 45,2 | 49,8 | 52,2 | 51,4 | 56,4 | 65,1 | 62,1 | 78,2 | 72,6 |
| Cooling total input current | Α | 35,0 | 40,0 | 45,0 | 51,0 | 61,0 | 67,0 | 75,0 | 81,0 | 82,0 | 81,0 | 90,0 | 102,0 | 106,0 | 114,0 | 117,0 |
| EER | W/W | 3,74 | 3,72 | 3,77 | 3,57 | 3,51 | 3,36 | 3,51 | 3,22 | 3,24 | 3,72 | 3,80 | 3,54 | 3,56 | 3,24 | 3,41 |
| Water flow rate system side | l/h | 13219 | 14836 | 16740 | 19268 | 21829 | 23767 | 27392 | 27721 | 29185 | 33098 | 37025 | 39827 | 38232 | 43759 | 42750 |
| Pressure drop system side | kPa | 43 | 55 | 50 | 66 | 44 | 52 | 53 | 64 | 60 | 92 | 75 | 88 | 88 | 91 | 92 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 60,5 | 70,2 | 78,9 | 90,4 | 104,2 | 114,6 | 128,1 | 133,6 | 141,8 | 154,4 | 169,0 | 184,0 | 177,3 | 203,5 | 193,6 |
| Input power | kW | 13,8 | 16,1 | 18,2 | 21,1 | 25,2 | 27,6 | 30,9 | 32,6 | 34,4 | 38,0 | 41,2 | 45,8 | 44,1 | 50,7 | 48,5 |
| Heating total input current | Α | 26,0 | 30,0 | 35,0 | 40,0 | 46,0 | 49,0 | 54,0 | 59,0 | 60,0 | 69,0 | 71,0 | 78,0 | 80,0 | 85,0 | 87,0 |
| COP | W/W | 4,38 | 4,36 | 4,34 | 4,28 | 4,14 | 4,16 | 4,15 | 4,10 | 4,12 | 4,07 | 4,10 | 4,02 | 4,02 | 4,01 | 3,99 |
| Water flow rate system side | l/h | 10456 | 12125 | 13636 | 15617 | 18004 | 19795 | 22128 | 23077 | 24492 | 26674 | 29206 | 31801 | 30649 | 35173 | 33469 |
| Pressure drop system side | kPa | 27 | 37 | 33 | 43 | 30 | 36 | 35 | 45 | 43 | 60 | 47 | 56 | 56 | 58 | 57 |

ENERGY DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|--|-----------------|-------------|-------------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving wate | r temp (UE n° 2 | 2016/2281) | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 3,92 | 3,83 | 3,99 | 3,70 | 3,91 | 3,67 | 4,14 | 3,97 | 3,73 | 3,88 | 3,76 |
| | A | W/W | - | - | - | - | 4,21 | 4,14 | 4,39 | 3,93 | 4,20 | 3,92 | 4,38 | 4,27 | 3,99 | 4,24 | 4,06 |
| SEER | E | W/W | 4,28 | 4,32 | 4,22 | 4,24 | 4,17 | 4,10 | 4,33 | 3,86 | 4,12 | 3,93 | 4,35 | 4,21 | 3,98 | 4,16 | 3,92 |
| | L | W/W | 4,10 | 4,11 | 4,11 | 4,00 | 3,88 | 3,83 | 3,93 | 3,68 | 3,89 | 3,64 | 4,08 | 3,89 | 3,70 | 3,81 | 3,71 |
| | 0 | % | - | - | - | - | 154,00 | 150,00 | 157,00 | 145,00 | 153,00 | 144,00 | 163,00 | 156,00 | 146,00 | 152,00 | 147,00 |
| | A | % | - | - | - | - | 165,00 | 163,00 | 173,00 | 154,00 | 165,00 | 154,00 | 172,00 | 168,00 | 157,00 | 167,00 | 160,00 |
| ηςς | E | % | 168,00 | 170,00 | 166,00 | 167,00 | 164,00 | 161,00 | 170,00 | 151,00 | 162,00 | 154,00 | 171,00 | 165,00 | 156,00 | 163,00 | 154,00 |
| | L | % | 161,00 | 161,00 | 161,00 | 157,00 | 152,00 | 150,00 | 154,00 | 144,00 | 153,00 | 143,00 | 160,00 | 153,00 | 145,00 | 149,00 | 145,00 |
| UE 813/2013 performance in average ar | nbient conditi | ions (avera | ge) - 35 °C | - Pdesign | h ≤ 400 k | W (1) | | | | | | | | | | | |
| - | 0 | kW | - | - | - | - | 88,80 | 97,30 | 112,20 | 116,80 | 124,50 | 129,90 | 144,90 | 162,80 | 157,50 | 182,70 | 172,10 |
| Dalarianh | A | kW | - | - | - | - | 90,20 | 99,60 | 112,20 | 116,80 | 125,80 | 135,00 | 149,00 | 164,10 | 157,00 | 183,30 | 173,60 |
| Pdesignh | E | kW | 53,46 | 53,46 | 53,46 | 78,80 | 90,20 | 99,60 | 112,20 | 116,80 | 125,80 | 135,00 | 149,00 | 164,10 | 157,00 | 183,30 | 173,60 |
| | L | kW | 52,20 | 60,22 | 68,44 | 78,20 | 88,80 | 97,30 | 112,20 | 116,80 | 124,50 | 129,90 | 144,90 | 162,80 | 157,50 | 182,70 | 172,10 |
| | 0 | % | - | - | - | - | 135,90 | 139,50 | 140,40 | 130,40 | 140,30 | 129,50 | 134,00 | 137,30 | 126,30 | 138,40 | 128,50 |
| | A | % | - | - | - | - | 138,00 | 142,80 | 143,20 | 133,00 | 143,10 | 132,10 | 139,80 | 141,30 | 128,00 | 142,00 | 133,00 |
| ηsh | E | % | 158,26 | 158,26 | 158,26 | 152,70 | 138,50 | 142,80 | 143,20 | 133,00 | 143,10 | 132,10 | 139,80 | 141,30 | 128,40 | 142,00 | 133,00 |
| | L | % | 156,16 | 152,79 | 152,22 | 150,00 | 135,90 | 139,50 | 140,40 | 130,50 | 140,30 | 129,50 | 134,00 | 137,30 | 126,30 | 138,40 | 128,50 |
| | 0 | W/W | - | - | - | - | 3,47 | 3,56 | 3,58 | 3,34 | 3,58 | 3,31 | 3,43 | 3,51 | 3,23 | 3,54 | 3,29 |
| SCOP | A | W/W | - | - | - | - | 3,53 | 3,65 | 3,66 | 3,40 | 3,65 | 3,38 | 3,57 | 3,61 | 3,29 | 3,63 | 3,40 |
| CUL | Е | W/W | 4,03 | 4,04 | 4,03 | 3,89 | 3,54 | 3,65 | 3,65 | 3,40 | 3,66 | 3,38 | 3,57 | 3,61 | 3,29 | 3,62 | 3,40 |
| | L | W/W | 3,98 | 3,89 | 3,88 | 3,83 | 3,47 | 3,56 | 3,59 | 3,34 | 3,58 | 3,31 | 3,43 | 3,51 | 3,23 | 3,54 | 3,29 |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | | | |
| | 0 | Α | - | - | - | - | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 113,5 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| Maximum current (FLA) | A | Α | - | - | - | - | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 117,7 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| Maximum current (FLA) | E | Α | 42,6 | 49,2 | 56,9 | 65,3 | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 117,7 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| | L | Α | 41,5 | 49,2 | 55,8 | 65,3 | 74,3 | 79,2 | 88,1 | 100,3 | 97,0 | 113,5 | 115,9 | 130,5 | 134,6 | 147,2 | 144,4 |
| | 0 | Α | - | - | - | - | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 227,2 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| Deals surrent (LDA) | A | Α | - | - | - | - | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 231,5 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| Peak current (LRA) | E | Α | 148,0 | 163,0 | 170,6 | 208,9 | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 231,5 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |
| | L | A | 146,9 | 163,0 | 169,5 | 208,9 | 279,8 | 284,7 | 331,4 | 214,1 | 340,3 | 227,2 | 367,0 | 381,6 | 278,1 | 479,6 | 349,8 |

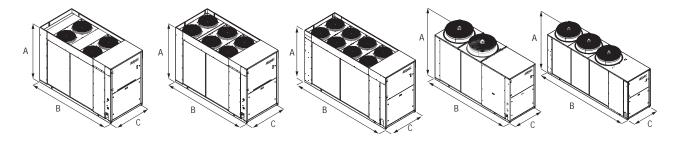
GENERAL TECHNICAL DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | Scroll | | | | | | | |
| Compressor regulation | °,A,E,L | Туре | | | | | | | | 0n-0ff | | | | | | | |
| Number - | °,A | no. | - | - | - | - | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| Nulliber | E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 |
| Circuits - | °,A | no. | - | - | - | - | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| Circuits | E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |
| Refrigerant | °,A,E,L | type | | | | | | | | R410A | | | | | | | |
| _ | 0 | kg | - | - | - | - | 12,2 | 12,2 | 16,8 | 17,6 | 16,8 | 20,0 | 24,5 | 24,5 | 23,0 | 24,5 | 23,0 |
| Refrigerant charge (1) | Α | kg | - | - | - | - | 15,9 | 15,8 | 17,8 | 19,8 | 18,4 | 21,6 | 28,6 | 28,6 | 27,0 | 28,6 | 27,0 |
| Keirigerant Charge (1) | E | kg | 9,1 | 10,7 | 11,1 | 12,5 | 15,9 | 15,8 | 17,8 | 19,8 | 18,4 | 21,6 | 28,6 | 28,6 | 27,0 | 28,6 | 27,0 |
| | L | kg | 8,8 | 9,4 | 10,3 | 11,0 | 12,2 | 12,2 | 16,8 | 17,6 | 16,8 | 20,0 | 24,5 | 24,5 | 23,0 | 24,5 | 23,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | Brazed plat | e | | | | | | |
| Number - | °,A | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nullibel | E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L | Туре | | | | | | | G | rooved joir | nts | | | | | | |
| Sizes (in/out) | °,A,E,L | Ø | | | | | | | | 2"1/2 | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | Axial | | | | | | | |
| _ | 0 | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Number - | Α | no. | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| Nullibei | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | L | no. | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| _ | 0 | m³/h | - | - | - | - | 42785 | 42785 | 41094 | 41065 | 41094 | 39542 | 62015 | 61936 | 61936 | 61936 | 61936 |
| Air flow rate | A | m³/h | - | - | - | - | 41080 | 41080 | 39461 | 39461 | 59701 | 59684 | 59684 | 39461 | 61963 | 59684 | 59684 |
| All flow face | E | m³/h | 21230 | 22746 | 28176 | 25787 | 31149 | 31149 | 29855 | 29855 | 29855 | 47085 | 45202 | 45187 | 45187 | 45187 | 45187 |
| | L | m³/h | 15574 | 21226 | 22732 | 28156 | 32650 | 32650 | 31613 | 31169 | 31161 | 29823 | 47087 | 47125 | 47125 | 47125 | 47125 |
| Sound data calculated in cooling mode (2) | | | | | | | | | | | | | | | | | |
| _ | 0 | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 86,5 | 87,3 | 86,5 | 88,8 | 88,9 | 88,2 | 89,4 | 89,5 |
| Sound power level - | Α | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 86,5 | 87,3 | 88,2 | 88,8 | 88,9 | 88,2 | 89,4 | 89,5 |
| Soulid power level | E | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | 82,2 | 82,9 | 83,3 | 76,7 | 83,7 | 77,8 | 84,9 | 85,0 | 78,0 | 86,1 | 84,0 |
| | L | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | 82,2 | 82,9 | 83,3 | 76,7 | 83,7 | 77,1 | 84,9 | 85,0 | 78,0 | 86,1 | 84,0 |
| _ | 0 | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 54,6 | 55,4 | 54,6 | 56,8 | 56,9 | 56,2 | 57,4 | 57,5 |
| Sound pressure level (10 m) | Α | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 54,6 | 55,4 | 56,2 | 56,8 | 56,9 | 56,2 | 57,4 | 57,5 |
| Journa pressure rever (10 m) | E | dB(A) | 41,3 | 41,7 | 42,5 | 42,7 | 50,3 | 51,0 | 51,4 | 44,8 | 51,8 | 45,8 | 52,9 | 53,1 | 46,0 | 54,1 | 52,0 |
| _ | L | dB(A) | 40,7 | 41,7 | 42,1 | 42,7 | 50,3 | 51,0 | 51,4 | 44,8 | 51,8 | 45,3 | 52,9 | 53,1 | 46,0 | 54,1 | 52,0 |

L db(A) 40,7 41,7 42,1 42,7 50,3 51,0 51,4 44,8 51,8 45,3 52,9 53,1 46,0 54,1 52,0

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| Α. | °,A | mm | - | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| A | E,L | mm | 1680 | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | 0 | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| В | A | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 4010 |
| D | E | mm | 2450 | 2950 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 | 4010 |
| | L | mm | 2450 | 2450 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 4010 | 4010 |
| (| °,A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | E,L | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |





















NRG 0282-0804

Air-water chiller

Cooling capacity 55,8 ÷ 224,6 kW



- · High efficiency also at partial loads
- · Reduced amount of refrigerant
- Compact dimensions





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas (A2L).

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to $\,50^{\circ}\text{C}\,$ external air temperature. Unit can produce chilled water up to -10 $^{\circ}\text{C}.$

For more information refer to the selection program and to to the dedicated documentation.

Units mono or dual-circuit

The units are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

■ The leak detector is supplied as per standard.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

 VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption and to guarantee operation of the unit even in critical conditions.

CONTRO

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

VT: Antivibration supports

GP: Anti-intrusion grid.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AER485P1 | E,N | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AER403PT | L | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | E,N | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERDACE | L | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| | °,A | | | | | • | | • | • | | | | | • | • | | | • | |
| AERNET | E,N | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| ACRINCI | L | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | U | | | | | • | | • | • | • | | | | • | • | | | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICULUED EVO | E,N | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DCD1 | E,N | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | U | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

Condensation control temperature

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fans: ° | | | | | | | | | |
| E,L | DCPX145 | DCPX145 | DCPX145 | DCPX145 | - | - | - | - | - |
| N | DCPX145 | DCPX145 | DCPX145 | - | - | - | - | - | - |
| Fans: M | | | | | | | | | |
| °,A | - | - | - | - | DCPX146 | DCPX146 | DCPX147 | DCPX146 | DCPX147 |
| E,L | - | - | - | - | As standard |
| N | - | - | - | As standard |
| U | - | - | - | DCPX146 | DCPX146 | DCPX146 | DCPX147 | DCPX147 | DCPX147 |
| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Fans: M | | | | | | | | | |
| °,A | DCPX146 | DCPX147 |
| E | As standard |
| L | As standard | - | - |
| N | As standard | As standard | As standard | - | - | - | - | - | - |
| U | DCPX147 | DCPX147 | DCPX147 | - | - | - | - | - | - |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--|----------------|-----------|------------|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I1, I2, I3, | 14, P1, P2, P | 3, P4 | | | | | | | | | | | | | | | | |
| ٥ | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| E | VT17 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| L | VT17 | VT17 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | - | - |
| N | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |
| U | - | - | - | VT11 | VT11 | VT11 | VT22 |
| Integrated hydronic kit: 01, 02, 03, 04 | 4, 05, 06, 07, | 08, K1, K | 2, K3, K4, | W1, W2, | W3, W4 | | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| L | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 | VT22 | VT22 | - | - |
| | | | | | | | | | | | | | | | | | | |

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| N | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |
| U | - | - | - | VT11 | VT11 | VT11 | VT22 |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|-----|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|
| °,A | - | - | - | - | GP2 x 2 (1) |
| E,L | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) |
| N | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) |
| U | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) | GP2 x 3 (1) |

(1) $\,x_{-}$ indicates the quantity to buy The accessory cannot be fitted on the configurations indicated with -

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |
| A,E | GP2 x 2 (1) | GP2 x 3 (1) |
| L | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) | - | - |
| N,U | GP2 x 3 (1) |

(1) x _ indicates the quantity to buy

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 |
|-------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A | - | - | DRENRG332N | - | DRENRG502 | DRENRG552 | DRENRG554 | DRENRG602 | DRENRG604 | DRENRG652 |
| E,L,N | DRENRG282 | DRENRG302 | DRENRG332N | DRENRG352 | DRENRG502 | DRENRG552 | DRENRG554 | DRENRG602 | DRENRG604 | DRENRG652 |
| U | - | _ | DRFNRG332N | DRFNRG352 | DRFNRG502 | DRFNRG552 | DRFNRG554 | DRFNRG602 | DRFNRG604 | DRFNRG652 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A,E,N,U | DRENRG654N | DRENRG682 | DRENRG702 | DRENRG704 | DRENRG752 | DRENRG754 | DRENRG802 | DRENRG804 |
| | DRFNRG654N | DRFNRG682 | DRFNRG702 | DRFNRG704 | DRFNRG752 | DRFNRG754 | _ | - |

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 |
|-------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A | - | - | RIFNRG332N | - | RIFNRG502 | RIFNRG552 | RIFNRG554 | RIFNRG602 | RIFNRG604 | RIFNRG652 |
| E,L,N | RIFNRG282 | RIFNRG302 | RIFNRG332N | RIFNRG352 | RIFNRG502 | RIFNRG552 | RIFNRG554 | RIFNRG602 | RIFNRG604 | RIFNRG652 |
| U | - | - | RIFNRG332N | RIFNRG352 | RIFNRG502 | RIFNRG552 | RIFNRG554 | RIFNRG602 | RIFNRG604 | RIFNRG652 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A,E,N,U | RIFNRG654N | RIFNRG682 | RIFNRG702 | RIFNRG704 | RIFNRG752 | RIFNRG754 | RIFNRG802 | RIFNRG804 |
| L | RIFNRG654N | RIFNRG682 | RIFNRG702 | RIFNRG704 | RIFNRG752 | RIFNRG754 | - | - |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Double safety valves

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| °,A,E,N,U | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 |
| L | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | - | - |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

424 NRG-0282-0804-CO_Y_CE50_09 www.aermec.com

CONFIGURATOR

| Field | Description |
|--------------------|--|
| 1,2,3 | NRG |
| 4,5,6,7 | Size |
| | 0282, 0302, 0332, 0352, 0502, 0552, 0554, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754, 0802, 0804 |
| 8 | Operating field (C) |
| X | Electronic thermostatic expansion valve (1) |
| Z | Low temperature electronic thermostatic valve (2) |
| 9 | Model |
| 0 | Cooling only |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery |
| 11 | Version |
| 0 | Standard |
| Α | High efficiency |
| E | Silenced high efficiency (4) |
| L | Standard silenced (4) |
| N | Silenced very high efficiency (4) |
| U | Very high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard (5) |
| J | Inverter (6) |
| M | Oversized (7) |
| 14 | Power supply |
| 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (8) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (8) |
| 07 | Storage tank with holes for heaters and single high head pump (8) |
| 08 | |
| 0 | Storage tank with holes for heaters and pump high head + stand-by pump (8) Double loop |
| 00 | |
| 09 | Double loop |
| n1 | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| | Single low head pump + fixed speed inverter |
| <u> 12</u> | Single low head pump with fixed speed inverter + stand-by pump |
| I3 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter |
| W2 | Double low head pump + Storage tank + variable speed inverter |
| W3 | Single high head pump + Storage tank + variable speed inverter |
| W4 | Double high head pump + Storage tank + variable speed inverter |
| (1) Water produced | |

⁽¹⁾ Water produced from 4 °C ÷ 20 °C (2) Water produced from 8 °C to -10 °C. The option is not compatible with hydronic kits W1-W2-W3-W4. (3) Warning: on the recovery side, a minimum input temperature of 35°C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection program

⁽⁴⁾ The size 0282-0302-0332-0352 only available in low noise versions.

(5) As standard in sizes from 0282 to 0352 versions E - L and in size from 0282 to 0332 version N

(6) As standard in size 0702-0704-0752-0754-0802-0804 in the version U and N.

 ⁽⁷⁾ As standard in sizes from 0502 to 0804 version ° - L - A - E and in sizes from 0352 to 0682 and in sizes from 0554 to 0654 version N - U.
 (8) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRG - °

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 100,8 | 110,6 | 117,6 | 127,1 | 130,0 | 138,5 | 143,5 | 161,9 | 182,0 | 171,7 | 203,9 | 194,0 | 222,4 | 212,3 |
| Input power | kW | - | - | - | - | 33,4 | 37,8 | 37,8 | 39,7 | 44,2 | 45,1 | 50,7 | 52,5 | 59,4 | 57,4 | 69,6 | 66,5 | 80,4 | 74,8 |
| Cooling total input current | A | - | - | - | - | 59,0 | 64,0 | 59,0 | 68,0 | 79,0 | 77,0 | 91,0 | 88,0 | 95,0 | 108,0 | 111,0 | 117,0 | 127,0 | 126,0 |
| EER | W/W | - | - | - | - | 3,02 | 2,92 | 3,11 | 3,20 | 2,94 | 3,07 | 2,83 | 3,08 | 3,06 | 2,99 | 2,93 | 2,92 | 2,77 | 2,84 |
| Water flow rate system side | l/h | - | - | - | - | 17363 | 19059 | 20268 | 21893 | 22383 | 23841 | 24712 | 27874 | 31338 | 29554 | 35100 | 33389 | 38287 | 36547 |
| Pressure drop system side | kPa | - | - | - | - | 40 | 49 | 46 | 44 | 56 | 53 | 50 | 54 | 69 | 71 | 68 | 67 | 81 | 80 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - L

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 |
|-----------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 55,8 | 63,8 | 73,3 | 84,5 | 98,9 | 108,2 | 113,4 | 123,5 | 123,9 | 132,9 | 139,3 | 159,0 | 178,5 | 168,5 | 198,8 | 189,6 |
| Input power | kW | 19,7 | 22,1 | 24,4 | 28,6 | 33,9 | 38,6 | 38,5 | 40,9 | 45,2 | 46,7 | 53,6 | 53,5 | 60,3 | 59,0 | 71,8 | 68,2 |
| Cooling total input current | Α | 32,0 | 41,0 | 45,0 | 55,0 | 58,0 | 63,0 | 59,0 | 68,0 | 79,0 | 77,0 | 92,0 | 88,0 | 96,0 | 107,0 | 112,0 | 117,0 |
| EER | W/W | 2,83 | 2,88 | 3,01 | 2,95 | 2,92 | 2,80 | 2,95 | 3,02 | 2,74 | 2,85 | 2,60 | 2,97 | 2,96 | 2,85 | 2,77 | 2,78 |
| Water flow rate system side | l/h | 9604 | 10989 | 12618 | 14572 | 17043 | 18647 | 19537 | 21269 | 21332 | 22880 | 23984 | 27367 | 30726 | 29004 | 34224 | 32640 |
| Pressure drop system side | kPa | 35 | 46 | 37 | 50 | 39 | 46 | 45 | 43 | 54 | 50 | 47 | 52 | 66 | 69 | 65 | 64 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - A

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 105,3 | 116,3 | 118,7 | 129,7 | 132,2 | 141,2 | 151,3 | 167,9 | 186,4 | 177,0 | 208,8 | 199,2 | 228,6 | 218,5 |
| Input power | kW | - | - | - | - | 31,0 | 34,9 | 37,7 | 40,1 | 43,8 | 45,6 | 47,8 | 51,1 | 57,3 | 56,2 | 67,0 | 64,9 | 77,2 | 73,6 |
| Cooling total input current | A | - | - | - | - | 56,0 | 60,0 | 60,0 | 69,0 | 80,0 | 78,0 | 88,0 | 85,0 | 93,0 | 106,0 | 108,0 | 115,0 | 124,0 | 123,0 |
| EER | W/W | - | - | - | - | 3,39 | 3,33 | 3,14 | 3,23 | 3,02 | 3,09 | 3,16 | 3,29 | 3,25 | 3,15 | 3,12 | 3,07 | 2,96 | 2,97 |
| Water flow rate system side | l/h | - | - | - | - | 18133 | 20029 | 20437 | 22332 | 22778 | 24316 | 26053 | 28900 | 32076 | 30475 | 35940 | 34279 | 39342 | 37605 |
| Pressure drop system side | kPa | - | - | - | - | 30 | 36 | 34 | 34 | 42 | 41 | 56 | 45 | 57 | 56 | 62 | 59 | 74 | 72 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - E

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 58,7 | 64,8 | 74,8 | 88,1 | 101,0 | 112,1 | 115,3 | 124,8 | 126,8 | 134,9 | 147,6 | 161,6 | 180,1 | 171,4 | 201,8 | 191,5 | 216,6 | 208,9 |
| Input power | kW | 18,7 | 21,5 | 23,3 | 27,6 | 31,6 | 35,8 | 38,6 | 40,7 | 45,6 | 46,8 | 49,3 | 52,1 | 59,4 | 58,0 | 70,9 | 67,4 | 81,8 | 77,1 |
| Cooling total input current | Α | 31,0 | 41,0 | 45,0 | 54,0 | 55,0 | 60,0 | 61,0 | 70,0 | 81,0 | 79,0 | 87,0 | 85,0 | 95,0 | 106,0 | 111,0 | 116,0 | 129,0 | 126,0 |
| EER | W/W | 3,14 | 3,02 | 3,21 | 3,19 | 3,20 | 3,13 | 2,98 | 3,07 | 2,78 | 2,88 | 2,99 | 3,10 | 3,03 | 2,96 | 2,85 | 2,84 | 2,65 | 2,71 |
| Water flow rate system side | l/h | 10097 | 11156 | 12874 | 15166 | 17382 | 19311 | 19858 | 21482 | 21840 | 23238 | 25406 | 27822 | 31004 | 29499 | 34739 | 32965 | 37282 | 35953 |
| Pressure drop system side | kPa | 24 | 29 | 28 | 37 | 28 | 34 | 32 | 32 | 38 | 37 | 53 | 43 | 53 | 52 | 57 | 55 | 67 | 65 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - U

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | 94,0 | 105,1 | 116,7 | 122,4 | 134,4 | 135,9 | 148,2 | 154,1 | 170,1 | 192,0 | 179,4 | 215,0 | 203,9 | 236,8 | 224,6 |
| Input power | kW | - | - | - | 26,8 | 30,6 | 34,4 | 36,1 | 38,2 | 41,9 | 42,9 | 46,5 | 49,5 | 57,5 | 56,2 | 66,4 | 63,6 | 75,7 | 72,1 |
| Cooling total input current | Α | - | - | - | 53,0 | 57,0 | 61,0 | 58,0 | 68,0 | 78,0 | 76,0 | 87,0 | 83,0 | 92,0 | 106,0 | 106,0 | 114,0 | 120,0 | 121,0 |
| EER | W/W | - | - | - | 3,51 | 3,43 | 3,39 | 3,39 | 3,52 | 3,24 | 3,45 | 3,32 | 3,44 | 3,34 | 3,19 | 3,24 | 3,20 | 3,13 | 3,11 |
| Water flow rate system side | l/h | - | - | - | 16172 | 18095 | 20096 | 21081 | 23146 | 23408 | 25528 | 26524 | 29288 | 33054 | 30884 | 37012 | 35090 | 40762 | 38655 |
| Pressure drop system side | kPa | - | - | - | 24 | 30 | 28 | 37 | 38 | 46 | 36 | 43 | 47 | 53 | 58 | 66 | 59 | 80 | 72 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - N

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 59,7 | 66,0 | 76,0 | 92,0 | 103,0 | 114,9 | 120,1 | 131,5 | 132,9 | 144,6 | 148,5 | 163,6 | 188,0 | 175,9 | 209,5 | 199,0 | 227,4 | 218,5 |
| Input power | kW | 18,1 | 20,8 | 23,3 | 27,9 | 31,8 | 36,1 | 37,0 | 39,2 | 43,2 | 44,5 | 48,5 | 52,1 | 57,9 | 56,8 | 67,6 | 65,1 | 78,0 | 74,5 |
| Cooling total input current | A | 30,0 | 41,0 | 45,0 | 52,0 | 57,0 | 62,0 | 57,0 | 67,0 | 78,0 | 75,0 | 88,0 | 85,0 | 92,0 | 106,0 | 107,0 | 114,0 | 123,0 | 123,0 |
| EER | W/W | 3,29 | 3,17 | 3,26 | 3,30 | 3,24 | 3,18 | 3,25 | 3,35 | 3,07 | 3,25 | 3,06 | 3,14 | 3,25 | 3,10 | 3,10 | 3,06 | 2,92 | 2,93 |
| Water flow rate system side | l/h | 10270 | 11372 | 13087 | 15837 | 17726 | 19768 | 20680 | 22650 | 22893 | 24895 | 25579 | 28156 | 32351 | 30273 | 36062 | 34256 | 39138 | 37603 |
| Pressure drop system side | kPa | 25 | 31 | 29 | 23 | 28 | 26 | 36 | 36 | 44 | 34 | 41 | 44 | 50 | 56 | 63 | 57 | 75 | 68 |
| | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------------------------|------------|---------------|----------|--------|---------|----------|----------------------|--------|----------------------|----------------------|----------------------|--------|--------------|----------------------|----------------------|----------------------|--------------|--------------|--------------|-------------------|
| Fans: ° | | | | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | | |
| | °,A,U | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEER | E | W/W | 4,52 | 4,35 | 4,51 | 4,43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | L | W/W | 4,25 | 4,17 | 4,39 | 4,28 | - | - | - | - | - | | - | - | | - | - | - | - | - |
| | N N | W/W | 4,69 | 4,62 | 4,65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | °,A,U | % | - 177.70 | 171 11 | 177.50 | - 174.20 | - | - | - | - | - | | - | - | | - | - | - | - | - |
| Seasonal efficiency | E | % | 177,70 | | 177,59 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | L | % | 166,98 | 163,66 | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CEED 22/10/FN1402F-2010\/2\ | N | % | 184,57 | 181,62 | 183,16 | - | - | - | - | - | - | | - | - | - | - | - | - | - | - |
| SEER - 23/18 (EN14825: 2018) (2) | °,A,U | VAL (VAL | | | | | | | | | | | | | | | | | | |
| | ,A,U F | W/W | | - | | | - | | - | | | | - | | - | | - | | | - |
| SEER | | W/W | 5,30 | 5,05 | 5,28 | 5,14 | - | | - | - | - | | | - | | | - | - | - | |
| | L | W/W | 4,85 | 4,73 | 5,05 | 4,94 | | | - | - | - | - | - | - | | | - | - | - | |
| | N O A II | W/W | 5,50 | 5,36 | 5,44 | - | - | | - | - | - | | - | - | - | - | - | - | - | - |
| | °,A,U E | <u>%</u> % | 208,80 | 199,00 | | | | | | | | | | | | | - | | | |
| Seasonal efficiency | | | | 186,10 | | | | | | | | | | | | | | | | |
| | L | % | 190,90 | | | 194,70 | | | | | | | | | | | | | | |
| CFDR - (FN 14825- 2018) /2) | N | % | 417,10 | 211,30 | Z 14,4U | - | - | | - | - | - | | - | - | | - | - | - | - | - |
| SEPR - (EN 14825: 2018) (2) | °,A,U | W/W | | | | | _ | | | | | | | | | | | | | |
| | ,A,U | W/W W/W | 6,66 | 6,39 | 6,59 | 6,52 | - | | | | | | - | | | | | | | |
| SEPR | L | W/W | 6,34 | 6,26 | 6,43 | 6,30 | | | | | | | | | | - | | | | - |
| | L | W/W | 6,87 | 6,70 | 6,81 | - 0,30 | | | | | | | | | <u> </u> | | | | | |
| Fans: J | - 11 | VV/ VV | 0,07 | 0,70 | 0,01 | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | | |
| JEER - 12// (EN 14023, 2010) (1) | 0 | W/W | | | | _ | 4,30 | 4,30 | 4,36 | 4,44 | 4,33 | 4,32 | 4,31 | 4,37 | 4,38 | 4,28 | 4,32 | 4,29 | 4,23 | 4,26 |
| | Α | W/W | | | | _ | 4,50 | 4,55 | 4,43 | 4,61 | 4,38 | 4,55 | 4,35 | 4,60 | 4,56 | 4,42 | 4,53 | 4,37 | 4,34 | 4,27 |
| | E | W/W | 4,56 | 4,40 | 4,56 | 4,48 | 4,54 | 4,46 | 4,44 | 4,53 | 4,40 | 4,33 | 4,37 | 4,55 | 4,38 | 4,40 | 4,37 | 4,39 | 4,25 | 4,27 |
| SEER | | W/W | 4,29 | 4,21 | 4,43 | 4,32 | 4,32 | 4,24 | 4,35 | 4,30 | 4,33 | 4,23 | 4,31 | 4,28 | 4,24 | 4,30 | 4,23 | 4,30 | | 7,21 |
| | N N | W/W | 4,74 | 4,66 | 4,70 | 4,78 | 4,71 | 4,59 | 4,54 | 4,77 | 4,46 | 4,69 | 4,49 | 4,75 | 4,63 | 4,48 | 4,59 | 4,48 | 4,37 | 4,33 |
| | U | W/W | | - | | 4,77 | 4,73 | 4,77 | 4,51 | 4,68 | 4,44 | 4,72 | 4,51 | 4,82 | 4,66 | 4,44 | 4,64 | 4,42 | 4,50 | 4,30 |
| | 0 | % | _ | _ | | - | 169,07 | 169,11 | 171,47 | 174,48 | 170,14 | 169,96 | 169,32 | 171,68 | 172,37 | 168,37 | 169,62 | 168,51 | 166,33 | 167,34 |
| | A | % | | | | | 176,81 | 179,08 | 174,25 | 181,27 | 172,29 | 179,03 | 170,93 | 181,13 | | 173,98 | | 171,94 | 170,64 | 167,83 |
| | E | % | 179,42 | 172,83 | 179,43 | 176,18 | 178,57 | 175,52 | | 178,28 | 173,17 | 170,02 | 171,96 | 179,14 | 172,39 | 172,91 | 171,65 | 172,46 | 166,80 | 167,89 |
| Seasonal efficiency | | % | 168,77 | 165,30 | | 169,95 | 169,78 | 166,72 | | 168,86 | 170,11 | 166,28 | 169,22 | 168,35 | 166,67 | 169,00 | 166,22 | | - | - |
| | N | % | 186,54 | | | | 185,24 | | 178,48 | 187,81 | 175,31 | 184,43 | 176,70 | 186,89 | 182,33 | | | 176,26 | 171,95 | 170,07 |
| | U | % | - | - | - | 187,91 | 186,30 | | | 184,10 | | | | 189,79 | | 174,64 | | 173,97 | 177,05 | |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | ,. | , | , | , | , | , | / | , | , | , | , | , | | , | , |
| | 0 | W/W | - | - | - | - | 4,99 | 4,86 | 5,09 | 5,02 | 5,00 | 4,85 | 5,02 | 4,90 | 4,97 | 4,91 | 4,88 | 4,88 | 4,78 | 4,71 |
| | A | W/W | - | - | - | - | 5,27 | 5,18 | 5,28 | 5,27 | 5,23 | 4,92 | 5,10 | 5,22 | 5,20 | 5,15 | 5,12 | 5,02 | 4,90 | 4,74 |
| | E | W/W | 5,34 | 5,10 | 5,33 | 5,19 | 5,20 | 4,92 | 5,24 | 4,99 | 5,22 | 4,69 | 5,10 | 5,07 | 4,82 | 5,09 | 4,61 | 4,99 | 4,74 | 4,68 |
| SEER | L | W/W | 4,90 | 4,77 | 5,09 | 4,99 | 4,85 | 4,59 | 5,09 | 4,73 | 5,03 | 4,56 | 5,05 | 4,81 | 4,61 | 4,89 | 4,58 | 4,86 | - | - |
| | N | W/W | 5,56 | 5,41 | 5,49 | 5,52 | 5,40 | 5,07 | 5,34 | 5,39 | 5,23 | 5,26 | 5,29 | 5,28 | 5,23 | 5,17 | 5,10 | 5,11 | 4,84 | 4,94 |
| | U | W/W | - | - | - | 5,64 | 5,56 | 5,44 | 5,39 | 5,33 | 5,29 | 5,12 | 5,37 | 5,47 | 5,35 | 5,16 | 5,24 | 5,08 | 5,07 | 4,80 |
| | 0 | % | - | - | - | - | 196,60 | | | | | | | 193,00 | | 193,20 | | | 188,00 | 185,20 |
| | Α | % | - | - | - | - | | | | | | | | | | 202,90 | | 197,80 | 193,10 | 186,50 |
| Cassand officians | E | % | 210,70 | 200,80 | 210,00 | 204,60 | | | 206,70 | | | | | 199,60 | 189,90 | 200,40 | | | | |
| Seasonal efficiency | L | % | 192,90 | | | | | | | | | | | | | 192,50 | | 191,50 | - | - |
| | N | % | 219,30 | 213,20 | 216,50 | | | | 210,60 | | | | | 208,10 | 206,00 | 203,70 | 201,10 | 201,30 | 190,40 | 194,50 |
| | U | % | - | - | - | | | | 212,60 | | | | | | | | | | | |
| SEPR - (EN 14825: 2018) (2) | | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 5,78 | 5,60 | 6,35 | 5,79 | 6,38 | 5,73 | 6,34 | 5,66 | 6,07 | 6,34 | 5,81 | 6,03 | 5,78 | 5,94 |
| | A | W/W | - | - | - | - | 6,23 | 5,98 | 6,61 | 5,93 | 6,60 | 6,14 | 6,51 | 5,98 | 6,27 | 6,54 | 6,05 | 6,08 | 5,90 | 5,90 |
| CEDD | E | W/W | 6,66 | 6,39 | 6,59 | 6,52 | 6,30 | 6,03 | 6,47 | 5,93 | 6,55 | 5,79 | 6,41 | 6,01 | 6,13 | 6,44 | 5,85 | 6,06 | 5,21 | 5,87 |
| SEPR | L | W/W | 6,34 | 6,26 | 6,43 | 6,30 | 5,86 | 5,68 | 6,35 | 5,73 | 6,47 | 5,69 | 6,47 | 5,64 | 5,95 | 6,28 | 5,72 | 5,92 | - | - |
| | N | W/W | 6,87 | 6,70 | 6,81 | 6,88 | 6,47 | 6,14 | 6,58 | 6,20 | 6,54 | 6,21 | 6,57 | 6,17 | 6,54 | 6,56 | 6,25 | 6,19 | 5,93 | 6,35 |
| | U | W/W | - | - | - | 6,73 | 6,43 | 6,14 | 6,73 | 6,18 | 6,68 | 6,51 | 6,73 | 6,26 | 6,34 | 6,68 | 6,18 | 6,30 | 6,10 | 5,99 |
| Fans: M | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | - | _ | - | 4,18 | 4,18 | 4,23 | 4,31 | 4,20 | 4,20 | 4,18 | 4,24 | 4,26 | 4,16 | 4,19 | 4,16 | 4,11 | 4,14 |
| SEER - 12/7 (EN14825: 2018) (1) | 0 | W/W | - | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | W/W W/W | - | - | - | - | 4,36 | 4,42 | 4,30 | 4,47 | 4,26 | 4,42 | 4,22 | 4,47 | 4,43 | 4,30 | 4,40 | 4,25 | 4,22 | 4,15 |
| | | | | | - | - | | | | | | | 4,22 4,25 | | | | 4,40 4,24 | 4,25 4,26 | | |
| SEER - 12/7 (EN14825: 2018) (1) SEER | A | W/W | | | | | 4,36 4,41 4,19 | 4,34 | 4,30 4,31 4,22 | 4,47 4,40 4,17 | 4,26 4,27 4,20 | 4,20 | 4,25 | 4,47 4,42 4,16 | 4,43 4,26 4,12 | 4,30 4,27 4,18 | | | 4,22 4,12 | 4,15 4,15 - |
| | A | W/W W/W | | - | - | | 4,41 | | 4,31 | 4,40 | 4,27 | | | 4,42 | 4,26 | 4,27 | 4,24 | 4,26 | 4,12 | |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|----------------------------------|---|-----|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 0 | % | - | - | - | - | 164,19 | 164,24 | 166,29 | 169,41 | 164,99 | 165,02 | 164,13 | 166,59 | 167,36 | 163,42 | 164,59 | 163,49 | 161,43 | 162,48 |
| | Α | % | - | - | - | - | 171,56 | 173,79 | 169,11 | 175,81 | 167,34 | 173,76 | 166,00 | 175,82 | 174,24 | 168,98 | 173,01 | 166,92 | 165,82 | 162,95 |
| - | E | % | - | - | - | - | 173,34 | 170,47 | 169,31 | 173,05 | 167,98 | 165,00 | 166,82 | 173,83 | 167,44 | 167,75 | 166,62 | 167,42 | 161,90 | 163,00 |
| Seasonal efficiency - | L | % | - | - | - | - | 164,75 | 161,78 | 165,90 | 163,73 | 165,02 | 161,37 | 164,21 | 163,40 | 161,82 | 164,05 | 161,39 | 164,10 | - | - |
| | N | % | - | - | - | 182,41 | 179,82 | 175,17 | 173,00 | 182,25 | 170,09 | 178,97 | 171,51 | 181,37 | - | - | - | - | - | - |
| | U | % | - | - | - | 182,34 | 180,84 | 182,53 | 172,00 | 178,62 | 169,50 | 180,31 | 172,13 | 184,18 | - | - | - | - | - | - |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 4,86 | 4,73 | 4,94 | 4,89 | 4,86 | 4,71 | 4,87 | 4,77 | 4,84 | 4,77 | 4,74 | 4,75 | 4,64 | 4,58 |
| | Α | W/W | - | - | - | - | 5,13 | 5,04 | 5,13 | 5,12 | 5,09 | 4,79 | 4,96 | 5,08 | 5,06 | 5,01 | 4,98 | 4,88 | 4,78 | 4,61 |
| SEER - | E | W/W | - | - | - | - | 5,06 | 4,79 | 5,09 | 4,85 | 5,07 | 4,56 | 4,95 | 4,93 | 4,70 | 4,94 | 4,62 | 4,85 | 4,48 | 4,55 |
| SEER | L | W/W | - | - | - | - | 4,72 | 4,46 | 4,94 | 4,60 | 4,89 | 4,44 | 4,91 | 4,68 | 4,48 | 4,75 | 4,45 | 4,73 | - | - |
| _ | N | W/W | - | - | - | 5,37 | 5,25 | 4,93 | 5,19 | 5,24 | 5,08 | 5,12 | 5,14 | 5,14 | - | - | - | - | - | - |
| | U | W/W | - | - | - | 5,49 | 5,41 | 5,29 | 5,23 | 5,19 | 5,14 | 4,98 | 5,21 | 5,31 | - | - | - | - | - | - |
| | 0 | % | - | - | - | - | 191,30 | 186,20 | 194,50 | 192,40 | 191,20 | 185,50 | 191,70 | 187,60 | 190,40 | 187,70 | 186,60 | 186,80 | 182,70 | 180,00 |
| _ | Α | % | - | - | - | - | 202,10 | 198,50 | 202,20 | 201,70 | 200,40 | 188,50 | 195,30 | 200,00 | 199,40 | 197,20 | 196,30 | 192,20 | 188,00 | 181,20 |
| Seasonal efficiency - | E | % | - | - | - | - | 199,30 | 188,40 | 200,50 | 191,00 | 199,60 | 179,50 | 195,10 | 194,00 | 184,80 | 194,60 | 181,60 | 190,90 | 176,30 | 178,80 |
| Seasonal eniciency | L | % | - | - | - | - | 185,80 | 175,40 | 194,70 | 181,00 | 192,50 | 174,40 | 193,30 | 184,00 | 176,20 | 187,00 | 175,10 | 186,10 | - | - |
| | N | % | - | - | - | 211,70 | 207,10 | 194,20 | 204,40 | 206,50 | 200,30 | 201,60 | 202,70 | 202,40 | - | - | - | - | - | - |
| | U | % | - | - | - | 216,60 | 213,50 | 208,70 | 206,30 | 204,40 | 202,40 | 196,20 | 205,50 | 209,50 | - | - | - | - | - | - |
| SEPR - (EN 14825: 2018) (2) | | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 5,78 | 5,60 | 6,35 | 5,79 | 6,38 | 5,73 | 6,34 | 5,66 | 6,07 | 6,34 | 5,81 | 6,03 | 5,78 | 5,94 |
| | Α | W/W | - | - | - | - | 6,23 | 5,98 | 6,61 | 5,93 | 6,60 | 6,14 | 6,51 | 5,98 | 6,27 | 6,54 | 6,05 | 6,08 | 5,90 | 5,90 |
| CEDD | E | W/W | - | - | - | - | 6,30 | 6,03 | 6,47 | 5,93 | 6,55 | 5,79 | 6,41 | 6,01 | 6,13 | 6,44 | 5,85 | 6,06 | 5,21 | 5,87 |
| SEPR - | L | W/W | - | - | - | - | 5,86 | 5,68 | 6,35 | 5,73 | 6,47 | 5,69 | 6,47 | 5,64 | 5,95 | 6,28 | 5,72 | 5,92 | - | - |
| - | N | W/W | - | - | - | 6,88 | 6,47 | 6,14 | 6,58 | 6,20 | 6,54 | 6,21 | 6,57 | 6,17 | - | - | - | - | - | - |
| - | U | W/W | - | - | - | 6,73 | 6,43 | 6,14 | 6,73 | 6,18 | 6,68 | 6,51 | 6,73 | 6,26 | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Electric data | | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | - | - | - | - | 73,5 | 79,1 | 80,5 | 88,3 | 97,2 | 97,4 | 113,5 | 111,5 | 122,6 | 132,7 | 139,4 | 144,0 | 156,1 | 155,3 |
| | A | Α | - | - | - | - | 73,5 | 79,1 | 80,5 | 88,3 | 97,2 | 97,4 | 111,4 | 111,5 | 122,6 | 132,7 | 139,4 | 144,0 | 156,1 | 155,3 |
| Maximum current (FLA) | E | Α | 41,6 | 49,9 | 51,3 | 67,6 | 73,5 | 79,1 | 80,5 | 88,3 | 97,2 | 97,4 | 111,4 | 111,5 | 122,6 | 132,7 | 139,4 | 144,0 | 156,1 | 155,3 |
| Maximum current (FLA) | L | Α | 40,2 | 49,9 | 53,9 | 67,6 | 73,5 | 79,1 | 80,5 | 88,3 | 97,2 | 97,4 | 113,5 | 111,5 | 122,6 | 132,7 | 139,4 | 144,0 | - | - |
| | N | Α | 41,6 | 49,9 | 51,3 | 67,6 | 73,5 | 79,1 | 83,4 | 91,2 | 100,1 | 100,3 | 111,4 | 111,5 | 125,6 | 135,7 | 142,4 | 147,0 | 159,1 | 158,3 |
| | U | Α | - | - | - | 67,6 | 73,5 | 79,1 | 83,4 | 91,2 | 100,1 | 100,3 | 111,4 | 111,5 | 125,6 | 135,7 | 142,4 | 147,0 | 159,1 | 158,3 |
| | 0 | Α | - | - | - | - | 276,8 | 282,5 | 200,8 | 329,5 | 221,3 | 338,6 | 268,5 | 396,5 | 407,7 | 287,7 | 601,7 | 347,4 | 618,4 | 358,7 |
| | A | Α | - | - | - | - | 276,8 | 282,5 | 200,8 | 329,5 | 221,3 | 338,6 | 226,7 | 396,5 | 407,7 | 287,7 | 601,7 | 347,4 | 618,4 | 358,7 |
| Dook surrent (LDA) | E | Α | 161,9 | 174,0 | 172,3 | 222,6 | 276,8 | 282,5 | 200,8 | 329,5 | 221,3 | 338,6 | 226,7 | 396,5 | 407,7 | 287,7 | 601,7 | 347,4 | 618,4 | 358,7 |
| Peak current (LRA) | L | Α | 160,5 | 174,0 | 213,0 | 222,6 | 276,8 | 282,5 | 200,8 | 329,5 | 221,3 | 338,6 | 268,5 | 396,5 | 407,7 | 287,7 | 601,7 | 347,4 | - | - |
| | N | Α | 161,9 | 174,0 | 172,3 | 222,6 | 276,8 | 282,5 | 203,7 | 332,4 | 224,2 | 341,5 | 226,7 | 396,5 | 410,7 | 290,7 | 604,7 | 350,4 | 621,4 | 361,7 |
| | U | А | - | - | - | 222,6 | 276,8 | 282,5 | 203,7 | 332,4 | 224,2 | 341,5 | 226,7 | 396,5 | 410,7 | 290,7 | 604,7 | 350,4 | 621,4 | 361,7 |

[■] Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

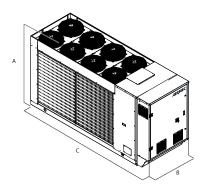
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----------------------------------|-----------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|------|------|
| Compressor | | | | | | | | | | | | | | | | | | | | |
| Tune | °,A,E,N,U | type | | | | | | | | | Sc | roll | | | | | | | | |
| Туре | L | type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | - | - |
| Communication | °,A,E,N,U | Туре | | | | | | | | | 0n | -Off | | | | | | | | |
| Compressor regulation | L | Туре | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff | 0n-0ff | On-Off | - | - |
| Number | °,A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 |
| Number | L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 | - | - |
| Circuita | °,A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| Circuits | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | - | - |
| Defricement | °,A,E,N,U | type | | | | | | | | | R | 32 | | | | | | | | |
| Refrigerant | L | type | R32 | R32 | R32 | R32 | R32 | R32 | R32 | - | - |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | | |
| | °,A,E,N,U | type | | | | | | | | | Braze | d plate | | | | | | | | |
| Туре | | tuno | Brazed | Brazed | Brazed | Brazed | Brazed | Brazed | Brazed | | |
| | L | type | plate | plate | plate | plate | plate | plate | plate | _ | |
| Number | °,A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - |
| System side hydraulic connections | | | | | | | | | | | | | | | | | | | | |
| Cinco (in (out) | °,A,E,N,U | Ø | | | | | | | | | 2" | 1/2 | | | | | | | | |
| Sizes (in/out) | L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | - | - |

Fans

| Fans | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-------------------|---------------|-----------|-------|-------|-----------|-----------|-------|------------|-------|---------|-----------|----------|-------|-----------|-------|----------|---------------|---------|--------------|-------|
| Size | | | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 0 | 754 0802 | 2 080 |
| Fan | | | | | | | | | | | | | | | | | | | | | |
| Type | | _ | °,A,E,N,U | type | | | | | | | | | A | xial | | | | | | | |
| Туре | | | L | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial A | xial - | - |
| | | _ | 0 | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 3 | 3 |
| | | _ | Α | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 3 | 3 |
| Number | | _ | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 3 | 3 |
| Nullibei | | _ | L | no. | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 - | - |
| | | _ | N | no. | 6 | 6 | 8 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 3 | 3 |
| | | | U | no. | - | - | - | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 3 | 3 |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 2 0554 | 060 | 2 (| 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 075 | 2 0754 | 0802 | 080 |
| Fans: ° | | | 0202 | 0302 | 0332 | 0332 | 0302 | 033. | . 0551 | | | ,,,,, | 0032 | 0031 | | 0,02 | 0,01 | 0,5 | - 0,5 | | |
| Fan | | | | | | | | | | | | | | | | | | | | | |
| - Luii | °,A,U | m³/h | | | | | | | | | | _ | | | | | | | | | |
| | E | m³/h | 20469 | 20469 | 27112 | 24667 | | | _ | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| Air flow rate | <u> </u> | m³/h | 15291 | 20474 | 22212 | 27150 | | | | | | _ | | | | | | | | | |
| | N N | m³/h | 22189 | 22189 | 24655 | - | _ | | | | | _ | _ | | | | | _ | | | |
| Sound data calculate | - " | | 22107 | 22107 | 27033 | | | | | | | | | | | | | | | | |
| Journa data carcurate | °,A,U | dB(A) | | | | _ | _ | _ | | | | _ | _ | | | | | | | | |
| • | E E | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | | _ | | | | | _ | _ | | | | | | _ | |
| Sound power level | | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | | | | | | _ | | | | | | | | | |
| | N N | dB(A) | | 73,9 | 74,3 | 74,3 | | | | | | _ | | | | | | | | | |
| (1) Sound power: calc | | . , | 73,0 | | _ | co with H | MI EN ICO | | ac roquiro | | ovent e | ortificat | ion Cour | | ro moscui | | fold (in | - complian | | II EN ISO 27 | |
| • | uiateu oii tiie i | Jasis UI IIIC | | | | | | | | | | | | | | | | | | | |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 2 0554 | 060 |)2 (| 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 075 | 2 0754 | 0802 | 080 |
| Fans: M | | | | | | | | | | | | | | | | | | | | | |
| Without Static press | | | | | | | | | | | | | | | | | | | | | |
| | 0 | m³/h | - | - | - | - | 40400 | 4040 | 0 40400 | 4040 | 00 4 | 0400 | 40400 | 40400 | 60600 | 60600 | 60600 | 6060 | 0 6060 | 0 60600 | 6060 |
| | A | m³/h | - | - | - | - | 40400 | 4040 | 0 40400 | 4040 | 00 4 | 0400 | 40400 | 60600 | 60600 | 60600 | 60600 | 6060 | 0 6060 | 0 60600 | 6060 |
| Air flow rate | E | m³/h | - | - | - | - | 26625 | 2662 | 5 25488 | 2549 | 97 2 | 5488 | 25497 | 40270 | 40267 | 38638 | 38640 | 3863 | 8 3864 | 0 38638 | 3864 |
| All flow fale | L | m³/h | - | - | - | - | 30672 | 3067 | 2 29318 | 293 | 18 2 | 9318 | 29318 | 28069 | 46243 | 44312 | 44307 | 7 4431 | 2 4430 | 7 - | - |
| | N | m³/h | - | - | - | 26623 | 25495 | 2549 | 5 40269 | 402 | 74 4 | 0269 | 40274 | 38640 | 38634 | - | - | - | - | - | - |
| | U | m³/h | - | - | - | 40400 | 40400 | 4040 | 0 60600 | 606 | 00 6 | 0600 | 60600 | 60600 | 60600 | - | - | - | - | - | - |
| | 0 | dB(A) | - | - | - | - | 86,8 | 87,1 | 86,2 | 87, | 3 | 86,6 | 87,5 | 86,7 | 89,0 | 89,1 | 88,3 | 89,6 | 5 89,5 | 91,0 | 90, |
| | A | dB(A) | - | - | - | - | 86,8 | 87,1 | 86,2 | 87, | 3 | 86,6 | 87,5 | 88,3 | 89,0 | 89,1 | 88,3 | 89,6 | 5 89,5 | 91,0 | 90, |
| | E | dB(A) | - | - | - | - | 81,3 | 82,1 | 76,1 | 82, | 7 | 76,7 | 83,1 | 77,8 | 84,2 | 84,4 | 78,0 | 85,6 | 5 83,6 | 87,3 | 86, |
| Sound power level | L | dB(A) | - | - | - | - | 81,3 | 82,1 | 76,1 | 82, | 7 | 76,7 | 83,1 | 77,1 | 84,2 | 84,4 | 78,0 | 85,6 | 5 84,1 | - | - |
| • | N | dB(A) | - | - | - | 80,3 | 81,3 | 82,1 | 76,9 | 83, | 6 | 77,5 | 84,0 | 77,8 | 84,2 | - | - | - | - | - | - |
| | U | dB(A) | - | - | - | 86,5 | 86,8 | 87,1 | | 88, | | 88,3 | 88,9 | 88,3 | 89,0 | - | - | - | - | - | - |
| C: | | | 0202 | 0202 | 0222 | | | 055 | 0.0004 | | | | | | | 0703 | 0704 | 075 | 2 075 | | 000 |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 2 0554 | 060 | 12 (| 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 075 | 2 0754 | 0802 | 080 |
| Fans: J | | | | | | | | | | | | | | | | | | | | | |
| Inverter fan | 0 | 374 | | | | | 26600 | 3660 | 0 25100 | 251 | 00 2 | F100 | 25100 | 22700 | FF200 | F2100 | F210/ | | 0 5310 | | F21/ |
| | | m³/h | - | - | - | - | 36600 | | | | | 5100 | 35100 | 33700 | 55200 | 53100 | | | | | 5310 |
| | A | m³/h | - | - | - | - | 35100 | | | | | 3800 | 33700 | 53100 | 53100 | 51100 | | | | | 511 |
| Air flow rate | E | m³/h | 20700 | 22200 | 27500 | 24800 | 26800 | | | | | 5600 | 25600 | 40500 | 40500 | 38800 | | | | | 388 |
| | L | m³/h | 15200 | 20700 | 22200 | 27500 | 30900 | | | | | 9500 | 29500 | 28300 | 46500 | 44600 | | | | | - |
| | N | m³/h | 22200 | 27500 | 24800 | 26800 | 25600 | | | | | 0500 | 40500 | 38800 | 38800 | 52317 | | | | | 523 |
| | U | m³/h | - | - | - | 35100 | 33700 | 3370 | 0 53100 | 5310 | 00 5 | 3100 | 53100 | 51100 | 51100 | 66361 | 6636 | 6636 | 6636 | 1 66361 | 663 |
| Sound data calculate | ed in cooling | mode (1) | | | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | - | - | - | - | 85,1 | 85,6 | 84,2 | 85, | 9 | 84,8 | 86,1 | 84,9 | 87,5 | 87,6 | 86,5 | 88,3 | 88,1 | 90,1 | 89 |
| | A | dB(A) | - | - | - | | 85,1 | 85,6 | 84,2 | 85, | 9 | 84,8 | 86,1 | 86,5 | 87,5 | 87,6 | 86,5 | 88,3 | 88,1 | 90,1 | 89 |
| Cound nower level | E | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | 81,3 | 82,1 | 76,1 | 82, | 7 | 76,7 | 83,1 | 77,8 | 84,2 | 84,4 | 78,0 | 85,6 | 5 83,6 | 87,3 | 86 |
| Sound power level | L | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | 81,3 | 82,1 | | 82, | | 76,7 | 83,1 | 77,1 | 84,2 | 84,4 | 78,0 | 85,6 | | | - |
| | N | dB(A) | 73,0 | 73,9 | 74,3 | 80,3 | 81,3 | 82,1 | | 83, | | 77,5 | 84,0 | 77,8 | 84,2 | 89,3 | 87,4 | | | | 89, |
| | II. | dR(A) | | | | 84.6 | 85.1 | 85.6 | | | | 26.4 | 87 A | 86.5 | 87.5 | 92.3 | 01 1 | | | | 97 |

U dB(A) - - - 84,6 85,1 85,6 85,8 87,2 86,4 87,4 86,5 87,5 92,3 91,1 92,5 91,7 92,7 92,3 (1) Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | |
| | 0 | mm | - | - | - | - | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| | Α | mm | - | - | - | - | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Α | E | mm | 1652 | 1658 | 1658 | 1658 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| A | L | mm | 1652 | 1652 | 1658 | 1658 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | - | - |
| | N | mm | 1658 | 1658 | 1658 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| | U | mm | - | - | - | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| | °,A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| D. | E,N | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| В - | L | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | - | - |
| | U | mm | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | 0 | mm | - | - | - | - | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| | Α | mm | - | - | - | - | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| | E | mm | 2818 | 3317 | 3317 | 3317 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| | L | mm | 2818 | 2818 | 3317 | 3317 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | - | - |
| | N | mm | 3317 | 3317 | 3317 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| | U | mm | - | - | - | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |

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NRG 0282H-0804H

Reversible air/water heat pump

Cooling capacity 52,5 ÷ 212,0 kW Heating capacity 56,6 ÷ 214,4 kW



- · High efficiency also at partial loads
- · Reduced amount of refrigerant
- Compact dimensions





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -15°C outside air temperature in winter, and up to 48 °C in summer. Hot water production up to 60°C (for more details refer to the technical documentation).

Units mono or dual-circuit

The units are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO_2 values.

■ The leak detector is supplied as per standard.

Use refrigerant fluid R32, whose classification according to ISO 817 is A2L (non-toxic, odourless and slightly flammable refrigerant).

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

■ VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Swing HP and LP controls: available for all models with inverter fan or with DCPX. By continuously modulating the fans, they streamline operation of the unit at any work point both in cooling and heating mode. This results in enhanced energy efficiency of the unit at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

INTEGRATED SOLUTION

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The "integrated solution" concept has been implemented in the system architecture, consisting in an integrated and streamlined control of compressors and electronic valve.

This solution allowed a variety of new features to be introduced, such as:

431

- Low Superheat Control: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions;
- DLT control: Control of electronic valve at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range, especially in heating mode.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 - | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| ACR463PT | E,L | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP - | °,A | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| ACRDACE | E,L | | • | | | | | | | • | | | | | | | | | |
| AERNET - | °,A | | | | | • | • | • | • | • | • | • | • | • | | • | • | • | • |
| ACRINCI | E,L | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER EVO - | °,A | | | | | • | | • | • | • | • | • | • | • | | • | • | • | • |
| MULIICHILLEK_EVO | E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DCD1 | °,A | | | | | | | • | • | • | • | • | • | • | • | • | • | | • |
| PGD1 - | E,L | | • | • | • | • | | • | • | • | • | • | • | • | | • | • | | |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--|----------------|------------|------------|-----------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I1, I2, I3, | 14, P1, P2, P3 | 3, P4 | | | | | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| E | VT17 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| L | VT17 | VT17 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| Integrated hydronic kit: 01, 02, 03, 04 | 4, 05, 06, 07, | 08, K1, K2 | 2, K3, K4, | W1, W2, \ | W3, W4 | | | | | | | | | | | | | |
| 0 | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |
| L | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT11 | VT22 |

Condensation control temperature

| ver | 0202 | 0302 | 0332 | 0332 | 0302 | 0332 | 0334 | 0002 | 0004 |
|--------------|-------------------------|--------------------------|------------|---------|-------------|-------------|-------------|-------------|-------------|
| °,A | - | - | - | - | DCPX146 | DCPX146 | DCPX146 | DCPX146 | DCPX146 |
| E,L | DCPX145 | DCPX145 | DCPX145 | DCPX145 | As standard |
| The accessor | y cannot be fitted on t | he configurations indica | ted with - | | | | | | |
| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | DCPX146 | DCPX146 | DCPX147 |
| Α | DCPX146 | DCPX147 |
| E,L | As standard |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|
| °,A | - | - | - | - | GP2 x 2 (1) |
| E,L | GP3 | GP3 | GP4 | GP4 | GP2 x 2 (1) |

(1) x _ indicates the quantity to buy

The accessory cannot be fitted on the configurations indicated with -

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| °,L | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |
| A,E | GP2 x 2 (1) | GP2 x 3 (1) |

(1) x _ indicates the quantity to buy

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|-----|------|------|------------|------|-----------|-----------|-----------|-----------|-----------|
| °,A | - | - | DRENRG332N | - | DRENRG502 | DRENRG552 | DRENRG554 | DRENRG602 | DRENRG604 |

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|-----|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| E,L | DRENRG282 | DRENRG302 | DRENRG332N | DRENRG352 | DRENRG502 | DRENRG552 | DRENRG554 | DRENRG602 | DRENRG604 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|---------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A,E,L | DRENRG652 | DRENRG654N | DRENRG682 | DRENRG702 | DRENRG704 | DRENRG752 | DRENRG754 | DRENRG802 | DRENRG804 |

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 |
|-----|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A | - | - | RIFNRG332N | - | RIFNRG502 | RIFNRG552 | RIFNRG554 | RIFNRG602 | RIFNRG604 |
| E,L | RIFNRG282 | RIFNRG302 | RIFNRG332N | RIFNRG352 | RIFNRG502 | RIFNRG552 | RIFNRG554 | RIFNRG602 | RIFNRG604 |

The accessory cannot be fitted on the configurations indicated with

A grey background indicates the accessory must be assembled in the factory

| Ver | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|---------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| °,A,E,L | RIFNRG652 | RIFNRG654N | RIFNRG682 | RIFNRG702 | RIFNRG704 | RIFNRG752 | RIFNRG754 | RIFNRG802 | RIFNRG804 |

A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| °,A,E,L | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 | T6NRG1 | T6NRG2 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fiel | d | Description |
|------|-----|--|
| 1,2, | .3 | NRG |
| 4,5, | 6,7 | Size 0282, 0302, 0332, 0352, 0502, 0552, 0554, 0602, 0604, 0652, 0654, 0682, 0702, 0704, 0752, 0754, 0802, 0804 |
| 8 | | Operating field |
| | Χ | Electronic thermostatic expansion valve (1) |
| | Z | Low temperature electronic thermostatic valve (2) |
| 9 | | Model |
| | Н | Heat pump |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (3) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | Ε | Silenced high efficiency (4) |
| | L | Standard silenced (4) |
| 12 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | 0 | Standard |
| | J | Inverter |
| 14 | | Power supply |
| | 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,1 | 16 | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with storage tank and pump/s |
| | 01 | Storage tank with low head pump |
| | 02 | Storage tank with low head pump + stand-by pump |
| | 03 | Storage tank with high head pump |
| | 04 | Storage tank with high head pump + stand-by pump |
| | | |

| Field | Description |
|-------|--|
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (5) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (5) |
| 07 | Storage tank with holes for heaters and single high head pump (5) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (5) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| I1 | Single low head pump + fixed speed inverter |
| 12 | Single low head pump with fixed speed inverter + stand-by pump |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter (6) |
| W2 | Double low head pump + Storage tank + variable speed inverter (6) |
| W3 | Single high head pump + Storage tank + variable speed inverter (6) |
| W4 | Double high head pump + Storage tank + variable speed inverter (6) |

(1) Water produced from 4 °C ÷ 20 °C
(2) Water produced from 18 °C to -10 °C. The option is not compatible with hydronic kits W1-W2-W3-W4. Not available with desuperheater.
(3) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(4) The size 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"

(4) The SIZE UZZZ-UZZZ-UZZ-Zare Only advalable in the Sizenced versions. THE/TIE.
(5) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.
(6) Not available with Low temperature electronic thermostatic valve "Z"

PERFORMANCE SPECIFICATIONS

NRG H°

| mon | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 93,7 | 103,4 | 114,4 | 117,5 | 127,3 | 127,8 | 141,4 | 156,4 | 175,2 | 169,8 | 196,0 | 190,4 | 215,2 | 209,1 |
| Input power | kW | - | - | - | - | 34,7 | 39,1 | 37,8 | 43,0 | 43,9 | 48,9 | 50,8 | 51,6 | 59,6 | 58,0 | 69,0 | 66,0 | 79,1 | 74,5 |
| Cooling total input current | A | - | - | - | - | 62,0 | 66,0 | 60,0 | 73,0 | 80,0 | 82,0 | 91,0 | 87,0 | 97,0 | 109,0 | 111,0 | 117,0 | 126,0 | 126,0 |
| EER | W/W | - | - | - | - | 2,70 | 2,65 | 3,03 | 2,73 | 2,90 | 2,61 | 2,78 | 3,03 | 2,94 | 2,93 | 2,84 | 2,89 | 2,72 | 2,81 |
| Water flow rate system side | l/h | - | - | - | - | 16141 | 17808 | 19683 | 20225 | 21912 | 22017 | 24335 | 26922 | 30168 | 29239 | 33727 | 32773 | 37044 | 35991 |
| Pressure drop system side | kPa | - | - | - | - | 31 | 38 | 20 | 34 | 24 | 40 | 25 | 48 | 60 | 36 | 60 | 40 | 72 | 49 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 99,6 | 108,8 | 118,2 | 125,6 | 132,1 | 137,6 | 146,9 | 162,6 | 183,1 | 176,7 | 203,0 | 195,8 | 222,4 | 214,4 |
| Input power | kW | - | - | - | - | 31,5 | 34,4 | 35,9 | 38,0 | 40,7 | 42,2 | 45,2 | 50,3 | 57,4 | 54,5 | 62,7 | 59,0 | 69,8 | 64,1 |
| Heating total input current | А | - | - | - | - | 59,0 | 62,0 | 59,0 | 68,0 | 79,0 | 75,0 | 88,0 | 87,0 | 96,0 | 109,0 | 105,0 | 112,0 | 117,0 | 116,0 |
| COP | W/W | - | - | - | - | 3,16 | 3,17 | 3,30 | 3,31 | 3,24 | 3,26 | 3,25 | 3,23 | 3,19 | 3,24 | 3,24 | 3,32 | 3,19 | 3,35 |
| Water flow rate system side | l/h | - | - | - | - | 17265 | 18855 | 20522 | 21779 | 22925 | 23855 | 25482 | 28203 | 31767 | 30659 | 35221 | 33974 | 38576 | 37206 |
| Pressure drop system side | kPa | - | - | - | - | 36 | 43 | 22 | 40 | 27 | 48 | 28 | 54 | 67 | 41 | 67 | 45 | 80 | 53 |

NRG HL

| MIGHE | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 52,5 | 60,5 | 69,3 | 80,7 | 91,0 | 100,0 | 110,8 | 113,2 | 122,9 | 122,4 | 135,2 | 152,6 | 170,4 | 165,0 | 189,1 | 184,2 | 205,8 | 202,2 |
| Input power | kW | 20,2 | 23,0 | 25,4 | 30,1 | 35,2 | 39,6 | 38,4 | 44,3 | 45,0 | 50,9 | 53,2 | 52,2 | 61,2 | 59,1 | 71,5 | 67,9 | 82,7 | 77,3 |
| Cooling total input current | Α | 33,0 | 42,0 | 47,0 | 57,0 | 60,0 | 65,0 | 59,0 | 72,0 | 79,0 | 82,0 | 92,0 | 84,0 | 95,0 | 107,0 | 111,0 | 116,0 | 128,0 | 126,0 |
| EER | W/W | 2,60 | 2,63 | 2,73 | 2,68 | 2,59 | 2,53 | 2,88 | 2,55 | 2,73 | 2,40 | 2,54 | 2,92 | 2,79 | 2,79 | 2,64 | 2,71 | 2,49 | 2,62 |
| Water flow rate system side | l/h | 9048 | 10428 | 11932 | 13896 | 15671 | 17215 | 19059 | 19485 | 21152 | 21086 | 23262 | 26277 | 29331 | 28417 | 32540 | 31692 | 35428 | 34793 |
| Pressure drop system side | kPa | 30 | 41 | 31 | 43 | 30 | 36 | 19 | 32 | 23 | 37 | 23 | 46 | 56 | 34 | 56 | 37 | 66 | 45 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 56,6 | 65,4 | 74,6 | 87,5 | 99,6 | 108,8 | 118,2 | 125,6 | 132,1 | 137,6 | 146,9 | 162,6 | 183,1 | 176,7 | 203,0 | 195,8 | 222,4 | 214,4 |
| Input power | kW | 17,4 | 20,2 | 22,3 | 26,5 | 31,5 | 34,4 | 35,9 | 38,0 | 40,7 | 42,2 | 45,2 | 50,3 | 57,4 | 54,5 | 62,7 | 59,0 | 69,8 | 64,1 |
| Heating total input current | Α | 29,0 | 40,0 | 44,0 | 54,0 | 59,0 | 62,0 | 59,0 | 68,0 | 79,0 | 75,0 | 88,0 | 87,0 | 96,0 | 109,0 | 105,0 | 112,0 | 117,0 | 116,0 |
| COP | W/W | 3,26 | 3,24 | 3,35 | 3,30 | 3,16 | 3,17 | 3,30 | 3,31 | 3,24 | 3,26 | 3,25 | 3,23 | 3,19 | 3,24 | 3,24 | 3,32 | 3,19 | 3,35 |
| Water flow rate system side | l/h | 9816 | 11328 | 12928 | 15158 | 17265 | 18855 | 20522 | 21779 | 22925 | 23855 | 25482 | 28203 | 31767 | 30659 | 35221 | 33974 | 38576 | 37206 |
| Pressure drop system side | kPa | 37 | 48 | 38 | 51 | 36 | 43 | 22 | 40 | 27 | 48 | 28 | 54 | 67 | 41 | 67 | 45 | 80 | 53 |

NRG HA

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|---------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 96,4 | 106,6 | 115,8 | 122,0 | 128,8 | 133,3 | 146,8 | 160,1 | 178,0 | 170,7 | 199,5 | 191,8 | 219,8 | 212,0 |
| Input power | kW | - | - | - | - | 32,6 | 36,6 | 37,2 | 39,7 | 43,3 | 45,5 | 48,6 | 49,8 | 57,4 | 56,7 | 66,3 | 64,4 | 75,9 | 72,5 |
| Cooling total input current | Α | - | - | - | - | 60,0 | 64,0 | 60,0 | 70,0 | 80,0 | 78,0 | 90,0 | 85,0 | 94,0 | 108,0 | 108,0 | 116,0 | 123,0 | 124,0 |
| EER | W/W | - | - | - | - | 2,95 | 2,91 | 3,11 | 3,07 | 2,97 | 2,93 | 3,02 | 3,21 | 3,10 | 3,01 | 3,01 | 2,98 | 2,90 | 2,93 |
| Water flow rate system side | l/h | - | - | - | - | 16583 | 18342 | 19918 | 21002 | 22155 | 22958 | 25273 | 27557 | 30631 | 29392 | 34336 | 33010 | 37829 | 36487 |
| Pressure drop system side | kPa | - | - | - | - | 23 | 28 | 17 | 29 | 21 | 35 | 28 | 40 | 49 | 33 | 54 | 39 | 66 | 48 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | 103,0 | 113,7 | 119,7 | 126,6 | 133,9 | 138,9 | 155,5 | 162,3 | 181,1 | 175,3 | 200,6 | 195,0 | 219,9 | 213,7 |
| Input power | kW | - | - | - | - | 31,0 | 33,8 | 35,6 | 37,4 | 40,4 | 41,5 | 47,0 | 49,1 | 55,3 | 53,3 | 60,9 | 57,8 | 67,5 | 62,7 |
| Heating total input current | A | - | - | - | - | 59,0 | 61,0 | 58,0 | 68,0 | 79,0 | 75,0 | 91,0 | 86,0 | 93,0 | 107,0 | 103,0 | 110,0 | 114,0 | 114,0 |
| COP | W/W | - | - | - | - | 3,32 | 3,36 | 3,36 | 3,39 | 3,31 | 3,35 | 3,31 | 3,30 | 3,27 | 3,29 | 3,29 | 3,37 | 3,26 | 3,41 |
| Water flow rate system side | l/h | - | - | - | - | 17866 | 19723 | 20784 | 21964 | 23234 | 24088 | 26976 | 28153 | 31410 | 30409 | 34811 | 33832 | 38148 | 37079 |
| Pressure drop system side | kPa | - | - | - | - | 27 | 32 | 19 | 32 | 23 | 39 | 31 | 42 | 52 | 35 | 57 | 41 | 68 | 49 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRG HE

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 55,1 | 61,1 | 71,0 | 82,7 | 93,8 | 103,3 | 111,9 | 118,0 | 124,0 | 128,3 | 144,2 | 154,7 | 173,0 | 166,6 | 192,6 | 186,2 | 210,5 | 202,8 |
| Input power | kW | 19,3 | 22,3 | 24,4 | 28,6 | 33,0 | 37,4 | 38,2 | 40,8 | 44,9 | 46,7 | 48,9 | 50,9 | 58,9 | 57,3 | 68,8 | 65,7 | 79,3 | 75,4 |
| Cooling total input current | Α | 32,0 | 42,0 | 47,0 | 56,0 | 58,0 | 62,0 | 60,0 | 69,0 | 80,0 | 78,0 | 87,0 | 82,0 | 93,0 | 106,0 | 109,0 | 114,0 | 125,0 | 123,0 |
| EER | W/W | 2,85 | 2,75 | 2,91 | 2,89 | 2,84 | 2,76 | 2,93 | 2,89 | 2,76 | 2,75 | 2,95 | 3,04 | 2,94 | 2,91 | 2,80 | 2,83 | 2,65 | 2,69 |
| Water flow rate system side | l/h | 9484 | 10522 | 12223 | 14246 | 16136 | 17773 | 19250 | 20314 | 21332 | 22097 | 24814 | 26647 | 29783 | 28680 | 33149 | 32040 | 36227 | 34901 |
| Pressure drop system side | kPa | 20 | 24 | 24 | 33 | 22 | 26 | 16 | 27 | 19 | 32 | 26 | 38 | 47 | 31 | 51 | 36 | 60 | 44 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 58,8 | 65,4 | 76,6 | 88,8 | 103,0 | 113,7 | 119,7 | 126,6 | 133,9 | 138,9 | 155,5 | 162,3 | 181,1 | 175,3 | 200,6 | 195,0 | 219,9 | 213,7 |
| Input power | kW | 17,2 | 19,7 | 22,5 | 26,5 | 31,0 | 33,8 | 35,6 | 37,4 | 40,4 | 41,5 | 47,0 | 49,1 | 55,3 | 53,3 | 60,9 | 57,8 | 67,5 | 62,7 |
| Heating total input current | Α | 30,0 | 39,0 | 45,0 | 54,0 | 59,0 | 61,0 | 58,0 | 68,0 | 79,0 | 75,0 | 91,0 | 86,0 | 93,0 | 107,0 | 103,0 | 110,0 | 114,0 | 114,0 |
| COP | W/W | 3,42 | 3,32 | 3,40 | 3,35 | 3,32 | 3,36 | 3,36 | 3,39 | 3,31 | 3,35 | 3,31 | 3,30 | 3,27 | 3,29 | 3,29 | 3,37 | 3,26 | 3,41 |
| Water flow rate system side | l/h | 10207 | 11335 | 13280 | 15399 | 17866 | 19723 | 20784 | 21964 | 23234 | 24088 | 26976 | 28153 | 31410 | 30409 | 34811 | 33832 | 38148 | 37079 |
| Pressure drop system side | kPa | 23 | 28 | 29 | 39 | 27 | 32 | 19 | 32 | 23 | 39 | 31 | 42 | 52 | 35 | 57 | 41 | 68 | 49 |

ENERGY DATA - STANDARD/INVERTER FANS

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--|--------------------|--------------------------|----------------|----------------|----------------|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Fans: ° | | | | | | | | | | | | | | | | | | | | |
| Cooling capacity with low leaving water | temp (UE n° | 2016/2281 | l) | | | | | | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | 3,92 | 3,84 | 3,97 | 4,00 | 3,83 | 3,94 | 3,88 | 4,17 | 4,06 | 3,87 | 3,95 | 3,92 | 3,82 | 3,80 |
| SEER | Α | W/W | - | - | - | - | 4,21 | 4,14 | 4,07 | 4,34 | 4,01 | 4,24 | 4,10 | 4,40 | 4,32 | 4,14 | 4,31 | 4,17 | 4,12 | 4,04 |
| SECK | E | W/W | 4,40 | 4,32 | 4,37 | 4,33 | 4,26 | 4,13 | 4,03 | 4,29 | 3,97 | 4,10 | 4,06 | 4,36 | 4,21 | 4,10 | 4,20 | 4,13 | 4,07 | 4,00 |
| | L | W/W | 4,14 | 4,03 | 4,22 | 4,07 | 3,98 | 3,89 | 3,94 | 4,01 | 3,80 | 3,89 | 3,84 | 4,12 | 4,00 | 3,84 | 3,91 | 3,88 | 3,77 | 3,77 |
| | 0 | % | - | - | - | - | 154% | 151% | 156% | 157% | 150% | 155% | 152% | 164% | 160% | 152% | 155% | 154% | 150% | 149% |
| nce | Α | % | - | - | - | - | 165% | 163% | 160% | 171% | 157% | 167% | 161% | 173% | 170% | 162% | 169% | 164% | 162% | 159% |
| ηςς | E | % | 173% | 170% | 172% | 170% | 167% | 162% | 158% | 169% | 156% | 161% | 160% | 172% | 166% | 161% | 165% | 162% | 160% | 157% |
| | L | % | 163% | 158% | 166% | 160% | 156% | 153% | 155% | 157% | 149% | 153% | 151% | 162% | 157% | 150% | 153% | 152% | 148% | 148% |
| | | | | | | | | | | | | | | | | | | | | |
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Size Fans: J | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| | temp (UE n° | 2016/2281 | | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Fans: J | temp (UE n°. | 2016/2281 W/W | | 0302 | 0332 | 0352 | 0502 4,04 | 0552 3,96 | 0554 4,10 | 0602 4,12 | 3,96 | 0652 4,06 | 0654 4,00 | 0682 4,30 | 0702 4,19 | 3,99 | 0752 4,07 | 0754 4,04 | 3,94 | 3,91 |
| Fans: J Cooling capacity with low leaving water | temp (UE n° | | | | 0332 | | | | | | | | | | | | | | | |
| Fans: J | temp (UE n° . A E | W/W | | - - 4,36 | - - 4,41 | - - 4,37 | 4,04 | 3,96 | 4,10 | 4,12 | 3,96 | 4,06 | 4,00 | 4,30 | 4,19 | 3,99 | 4,07 | 4,04 | 3,94 | 3,91 |
| Fans: J Cooling capacity with low leaving water | temp (UE n°. A E | W/W W/W | - | - | - | - | 4,04 | 3,96 4,26 | 4,10 4,20 | 4,12 4,47 | 3,96 4,13 | 4,06 4,37 | 4,00 4,23 | 4,30 4,54 | 4,19 4,45 | 3,99 4,26 | 4,07 4,43 | 4,04 4,29 | 3,94 4,25 | 3,91 4,17 |
| Fans: J Cooling capacity with low leaving water | temp (UE n°. A E L | W/W W/W W/W | - - 4,45 | - - 4,36 | - - 4,41 | - - 4,37 | 4,04 4,33 4,38 | 3,96 4,26 4,25 | 4,10 4,20 4,16 | 4,12 4,47 4,42 | 3,96 4,13 4,09 | 4,06 4,37 4,22 | 4,00 4,23 4,19 | 4,30 4,54 4,49 | 4,19 4,45 4,34 | 3,99 4,26 4,22 | 4,07 4,43 4,33 | 4,04 4,29 4,25 | 3,94 4,25 4,20 | 3,91 4,17 4,13 |
| Fans: J Cooling capacity with low leaving water SEER | A E L | W/W W/W W/W | - - 4,45 | - - 4,36 | - - 4,41 | - - 4,37 4,10 | 4,04 4,33 4,38 4,10 | 3,96 4,26 4,25 4,01 | 4,10 4,20 4,16 4,06 | 4,12 4,47 4,42 4,12 | 3,96 4,13 4,09 3,92 | 4,06 4,37 4,22 4,01 | 4,00 4,23 4,19 3,96 | 4,30 4,54 4,49 4,25 | 4,19 4,45 4,34 4,13 | 3,99 4,26 4,22 3,95 | 4,07 4,43 4,33 4,03 | 4,04 4,29 4,25 4,00 | 3,94 4,25 4,20 3,89 | 3,91 4,17 4,13 3,88 |
| Fans: J Cooling capacity with low leaving water | A E L | W/W W/W W/W W/W | - - 4,45 | - - 4,36 | - - 4,41 | - - 4,37 4,10 | 4,04 4,33 4,38 4,10 159% | 3,96 4,26 4,25 4,01 155% | 4,10 4,20 4,16 4,06 161% | 4,12 4,47 4,42 4,12 162% | 3,96 4,13 4,09 3,92 155% | 4,06 4,37 4,22 4,01 159% | 4,00 4,23 4,19 3,96 157% | 4,30 4,54 4,49 4,25 169% | 4,19 4,45 4,34 4,13 164% | 3,99 4,26 4,22 3,95 157% | 4,07 4,43 4,33 4,03 160% | 4,04 4,29 4,25 4,00 158% | 3,94 4,25 4,20 3,89 155% | 3,91 4,17 4,13 3,88 154% |

⁽¹⁾ Data EN 14511:2022; Beat exchanger water (services side) 12°C / 1°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ENERGY DATA - STANDARD/INVERTER FANS (35°C)

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--|--------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Fans: ° | | | | | | | | | | | | | | | | | | | | |
| Performance in average ambient condition | ons (average |) - 35 °C (1 |) | | | | | | | | | | | | | | | | | |
| | 0 | kW | - | - | - | - | 88 | 97 | 103 | 109 | 115 | 119 | 128 | 141 | 159 | 154 | 178 | 171 | 193 | 188 |
| Pdesignh | Α | kW | - | - | - | - | 91 | 101 | 105 | 110 | 117 | 121 | 136 | 141 | 158 | 153 | 176 | 170 | 191 | 187 |
| ruesigiiii | E | kW | 52 | 58 | 68 | 78 | 91 | 101 | 105 | 110 | 117 | 121 | 136 | 141 | 158 | 153 | 176 | 170 | 191 | 187 |
| | L | kW | 50 | 58 | 66 | 77 | 88 | 97 | 103 | 109 | 115 | 119 | 128 | 141 | 159 | 154 | 178 | 171 | 193 | 188 |
| | 0 | W/W | - | - | | - | 3,50 | 3,55 | 3,36 | 3,55 | 3,33 | 3,61 | 3,32 | 3,47 | 3,57 | 3,23 | 3,54 | 3,32 | 3,41 | 3,36 |
| SCOP | Α | W/W | - | - | - | - | 3,59 | 3,69 | 3,43 | 3,69 | 3,42 | 3,70 | 3,38 | 3,59 | 3,65 | 3,33 | 3,66 | 3,42 | 3,56 | 3,44 |
| SCOF | E | W/W | 4,06 | 4,00 | 4,02 | 3,91 | 3,59 | 3,69 | 3,43 | 3,69 | 3,42 | 3,70 | 3,38 | 3,59 | 3,65 | 3,33 | 3,66 | 3,42 | 3,56 | 3,44 |
| | L | W/W | 3,91 | 3,86 | 3,87 | 3,83 | 3,50 | 3,55 | 3,36 | 3,55 | 3,33 | 3,61 | 3,32 | 3,47 | 3,57 | 3,23 | 3,54 | 3,32 | 3,41 | 3,36 |
| | 0 | % | - | - | - | - | 135% | 139% | 131% | 139% | 130% | 141% | 130% | 135% | 139% | 126% | 139% | 130% | 134% | 131% |
| nch | A | % | - | - | | - | 141% | 145% | 134% | 145% | 134% | 145% | 132% | 141% | 143% | 130% | 143% | 134% | 140% | 134% |
| ηsh | E | % | 159% | 157% | 158% | 154% | 141% | 145% | 134% | 145% | 134% | 145% | 132% | 141% | 143% | 130% | 143% | 134% | 140% | 134% |
| | L | % | 153% | 151% | 152% | 150% | 135% | 139% | 131% | 139% | 130% | 141% | 130% | 135% | 139% | 126% | 139% | 130% | 134% | 131% |
| Efficiency energy class | °,A | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Efficiency energy class | E,L | | A+ | A+ | A+ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fans: J | | | | | | | | | | | | | | | | | | | | |
| Performance in average ambient condition | ons (average |) - 35 °C (1 |) | | | | | | | | | | | | | | | | | |
| | 0 | kW | - | - | - | - | 88 | 97 | 103 | 109 | 115 | 119 | 128 | 141 | 159 | 154 | 178 | 171 | 193 | 188 |
| Pdesignh | A | kW | - | - | | - | 91 | 101 | 105 | 110 | 117 | 121 | 136 | 141 | 158 | 153 | 176 | 170 | 191 | 187 |
| ruesigiiii | E | kW | 52 | 58 | 68 | 78 | 91 | 101 | 105 | 110 | 117 | 121 | 136 | 141 | 158 | 153 | 176 | 170 | 191 | 187 |
| | L | kW | 50 | 58 | 66 | 77 | 88 | 97 | 103 | 109 | 115 | 119 | 128 | 141 | 159 | 154 | 178 | 171 | 193 | 188 |
| | | W/W | - | - | - | - | 3,61 | 3,66 | 3,53 | 3,66 | 3,49 | 3,71 | 3,49 | 3,57 | 3,68 | 3,42 | 3,65 | 3,52 | 3,52 | 3,56 |
| SCOP | Α | W/W | - | - | - | - | 3,70 | 3,80 | 3,60 | 3,80 | 3,59 | 3,81 | 3,59 | 3,70 | 3,76 | 3,53 | 3,77 | 3,63 | 3,67 | 3,64 |
| Stor | E | W/W | 4,10 | 4,04 | 4,06 | 3,99 | 3,70 | 3,80 | 3,60 | 3,80 | 3,59 | 3,81 | 3,59 | 3,70 | 3,76 | 3,53 | 3,77 | 3,63 | 3,67 | 3,64 |
| | L | W/W | 3,95 | 3,90 | 3,91 | 3,91 | 3,61 | 3,66 | 3,53 | 3,66 | 3,49 | 3,71 | 3,49 | 3,57 | 3,68 | 3,42 | 3,65 | 3,52 | 3,52 | 3,56 |
| | 0 | % | - | - | - | - | 141% | 143% | 138% | 143% | 137% | 146% | 136% | 140% | 144% | 134% | 143% | 138% | 138% | 139% |
| nch | A | % | - | - | - | - | 145% | 149% | 141% | 149% | 141% | 149% | 141% | 145% | 147% | 138% | 148% | 142% | 144% | 143% |
| ηsh | E | % | 161% | 159% | 159% | 157% | 145% | 149% | 141% | 149% | 141% | 149% | 141% | 145% | 147% | 138% | 148% | 142% | 144% | 143% |
| | L | % | 155% | 153% | 153% | 153% | 141% | 143% | 138% | 143% | 137% | 146% | 136% | 140% | 144% | 134% | 143% | 138% | 138% | 139% |
| Efficiency energy class | °,A | | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| chiclency energy class | E,L | | A+ | A+ | A+ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ENERGY DATA - STANDARD/INVERTER FANS (55°C)

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0802 |
|-----------------------------------|---------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Fans: ° | | | | | | | | | | | | | | |
| Performance in average ambient co | onditions (average) | - 55 °C (1) | | | | | | | | | | | | |
| | 0 | kW | - | - | - | - | 88 | 98 | 109 | 120 | 139 | 155 | 178 | - |
| Distant | A | kW | - | - | - | - | 91 | 103 | 110 | 122 | 139 | 154 | 175 | 187 |
| Pdesignh | E | kW | 52 | 58 | 68 | 78 | 91 | 103 | 110 | 122 | 139 | 154 | 175 | 187 |
| | L | kW | 50 | 57 | 65 | 77 | 88 | 98 | 109 | 120 | 139 | 155 | 178 | - |
| | 0 | W/W | - | - | - | - | 2,84 | 2,94 | 2,93 | 3,00 | 2,84 | 2,84 | 2,84 | - |
| CCOD | A | W/W | - | - | - | - | 2,91 | 3,05 | 3,03 | 3,04 | 2,93 | 2,89 | 2,92 | 2,84 |
| SCOP | E | W/W | 3,13 | 3,10 | 3,11 | 3,06 | 2,91 | 3,05 | 3,03 | 3,04 | 2,93 | 2,89 | 2,92 | 2,84 |
| | L | W/W | 3,05 | 3,03 | 3,03 | 3,01 | 2,84 | 2,94 | 2,93 | 3,00 | 2,84 | 2,84 | 2,84 | - |
| | 0 | % | - | - | - | - | 111% | 115% | 114% | 117% | 111% | 111% | 111% | - |
| 1 | A | % | - | - | - | - | 113% | 119% | 118% | 119% | 114% | 113% | 114% | 110% |
| ηsh | E | % | 122% | 121% | 122% | 119% | 113% | 119% | 118% | 119% | 114% | 113% | 114% | 110% |
| | L | % | 119% | 118% | 118% | 117% | 111% | 115% | 114% | 117% | 111% | 111% | 111% | - |
| F## | °,A | | - | - | - | - | - | - | - | - | - | - | - | - |
| Efficiency energy class | E,L | | A++ | A++ | A++ | - | - | - | - | - | - | - | - | - |
| Fans: J | | | | | | | | | | | | | | |
| Performance in average ambient co | onditions (average) | - 55 °C (1) | | | | | | | | | | | | |
| | 0 | kW | - | - | - | - | 88 | 98 | 109 | 120 | 139 | 155 | 178 | - |
| Distant | A | kW | - | - | - | - | 91 | 103 | 110 | 122 | 139 | 154 | 175 | 187 |
| Pdesignh | E | kW | 52 | 58 | 68 | 78 | 91 | 103 | 110 | 122 | 139 | 154 | 175 | 187 |
| | L | kW | 50 | 57 | 65 | 77 | 88 | 98 | 109 | 120 | 139 | 155 | 178 | - |
| | 0 | W/W | - | - | - | - | 2,92 | 3,02 | 3,02 | 3,09 | 2,93 | 2,93 | 2,93 | - |
| ccon | A | W/W | - | - | - | - | 2,99 | 3,13 | 3,12 | 3,13 | 3,02 | 2,98 | 3,01 | 2,92 |
| SCOP | E | W/W | 3,16 | 3,12 | 3,14 | 3,12 | 2,99 | 3,13 | 3,12 | 3,13 | 3,02 | 2,98 | 3,01 | 2,92 |
| | L | W/W | 3,08 | 3,06 | 3,06 | 3,07 | 2,92 | 3,02 | 3,02 | 3,09 | 2,93 | 2,93 | 2,93 | - |
| | ۰ | % | - | - | - | - | 114% | 118% | 118% | 120% | 114% | 114% | 114% | - |
| 1 | A | % | - | - | - | - | 117% | 122% | 122% | 122% | 118% | 116% | 117% | 114% |
| ηsh | E | % | 123% | 122% | 123% | 122% | 117% | 122% | 122% | 122% | 118% | 116% | 117% | 114% |
| | L | % | 120% | 119% | 119% | 120% | 114% | 118% | 118% | 120% | 114% | 114% | 114% | - |
| F | °,A | | - | - | - | - | - | - | - | - | - | - | - | - |
| Efficiency energy class | E,L | | A++ | A++ | A++ | | | | | | | | | |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
| Electric data | | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | - | - | - | - | 73,5 | 79,1 | 88,3 | 97,4 | 111,5 | 122,6 | 139,4 | 156,1 | 80,5 | 97,2 | 113,5 | 132,7 | 144,0 | 155,3 |
| Maximum current (FLA) | A | Α | - | - | - | - | 73,5 | 79,1 | 88,3 | 97,4 | 111,5 | 122,6 | 139,4 | 156,1 | 80,5 | 97,2 | 111,4 | 132,7 | 144,0 | 155,3 |
| Maximum current (FLA) | E | Α | 41,6 | 49,9 | 56,9 | 67,6 | 73,5 | 79,1 | 88,3 | 97,4 | 111,5 | 122,6 | 139,4 | 156,1 | 80,5 | 97,2 | 111,4 | 132,7 | 144,0 | 155,3 |
| | L | Α | 40,2 | 49,9 | 58,1 | 67,6 | 73,5 | 79,1 | 88,3 | 97,4 | 111,5 | 122,6 | 139,4 | 156,1 | 80,5 | 97,2 | 113,5 | 132,7 | 144,0 | 155,3 |
| | 0 | Α | - | - | - | - | 276,8 | 282,5 | 329,5 | 338,6 | 396,5 | 407,7 | 601,7 | 618,4 | 200,8 | 221,3 | 268,5 | 287,7 | 347,4 | 358,7 |
| Dook surrent (LDA) | A | Α | - | - | - | - | 276,8 | 282,5 | 329,5 | 338,6 | 396,5 | 407,7 | 601,7 | 618,4 | 200,8 | 221,3 | 226,7 | 287,7 | 347,4 | 358,7 |
| Peak current (LRA) | E | Α | 161,9 | 174,0 | 172,3 | 222,6 | 276,8 | 282,5 | 329,5 | 338,6 | 396,5 | 407,7 | 601,7 | 618,4 | 200,8 | 221,3 | 226,7 | 287,7 | 347,4 | 358,7 |
| | L | А | 160,5 | 174,0 | 213,0 | 222,6 | 276,8 | 282,5 | 329,5 | 338,6 | 396,5 | 407,7 | 601,7 | 618,4 | 200,8 | 221,3 | 268,5 | 287,7 | 347,4 | 358,7 |

Data calculated without hydronic kit and accessories.

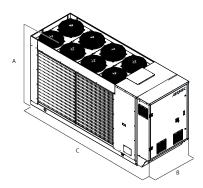
GENERAL TECHNICAL DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Sc | roll | | | | | | | | |
| Compressor regulation | °,A,E,L | Туре | | | | | | | | | 0n | -Off | | | | | | | | |
| Number | °,A,E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 4 |
| Circuits | °,A,E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| Refrigerant | °,A,E,L | type | | | | | | | | | R | 32 | | | | | | | | |
| | 0 | kg | - | - | - | - | 9,5 | 9,5 | 6,8 | 12,2 | 7,1 | 12,2 | 7,1 | 17,7 | 17,7 | 8,1 | 17,7 | 9,0 | 17,7 | 9,0 |
| - | А | kg | - | - | - | - | 12,8 | 13,3 | 7,4 | 13,3 | 7,7 | 13,3 | 8,7 | 18,2 | 18,2 | 8,3 | 18,4 | 10,0 | 18,4 | 9,5 |
| Refrigerant load circuit 1 (1) | E | kg | 6,8 | 8,3 | 11,2 | 11,1 | 12,8 | 13,3 | 7,4 | 13,3 | 7,7 | 13,3 | 8,7 | 18,2 | 18,2 | 8,3 | 18,4 | 10,0 | 18,4 | 9,5 |
| _ | L | kg | 6,5 | 6,8 | 7,4 | 7,4 | 9,5 | 9,5 | 6,8 | 12,2 | 7,1 | 12,2 | 7,1 | 17,7 | 17,7 | 8,1 | 17,7 | 9,0 | 17,7 | 9,0 |
| D.C: (1.1: 12.70) | °,L | kg | - | - | - | - | - | - | 6,8 | - | 7,1 | - | 7,1 | - | - | 8,1 | - | 9,0 | - | 9,0 |
| Refrigerant load circuit 2 (1) | A,E | kg | - | - | - | - | - | - | 7,4 | - | 7,7 | - | 8,7 | - | - | 8,3 | - | 10,0 | - | 9,5 |
| Potential global heating | °,A,E,L | GWP | | | | | | | | | 675kc | cO,eq | | | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Braze | d plate | | | | | | | | |
| Number | °,A,E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fan | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | A | cial | | | | | | | | |
| | 0 | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Al | А | no. | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number - | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| _ | L | no. | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | m³/h | - | - | - | - | 42831 | 42819 | 40170 | 41067 | 40170 | 41067 | 38299 | 62024 | 62022 | 60681 | 62022 | 60681 | 62022 | 60681 |
| A:- G | Α | m³/h | - | - | - | - | 41097 | 41097 | 38299 | 39483 | 38299 | 39483 | 60681 | 59734 | 59721 | 57995 | 59721 | 57995 | 59721 | 57995 |
| Air flow rate - | E | m³/h | 21224 | 21224 | 28177 | 25805 | 31035 | 31035 | 28870 | 29848 | 28870 | 29848 | 45978 | 45211 | 45211 | 43804 | 45211 | 43804 | 45211 | 43804 |
| _ | L | m³/h | 15552 | 21229 | 22716 | 28186 | 32592 | 32592 | 30388 | 31000 | 30388 | 31000 | 28869 | 47029 | 47029 | 45980 | 47029 | 45980 | 47029 | 45980 |
| Sound data calculated in cooling mode (2 |) | | | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | - | - | - | - | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 87,1 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |
| - | Α | dB(A) | - | - | - | - | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 88,8 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |
| Sound power level – | E | dB(A) | 73,6 | 74,1 | 74,9 | 75,1 | 82,8 | 83,5 | 76,6 | 83,9 | 77,3 | 84,3 | 78,4 | 85,5 | 85,6 | 78,6 | 86,7 | 84,6 | 87,3 | 86,2 |
| _ | L | dB(A) | 73,0 | 74,1 | 74,5 | 75,1 | 82,8 | 83,5 | 76,6 | 83,9 | 77,3 | 84,3 | 77,7 | 85,5 | 85,6 | 78,6 | 86,7 | 84,6 | 87,3 | 86,2 |
| Sound data calculated in heating mode (2 | 2) | | | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | - | - | - | - | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 87,1 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |
| | А | dB(A) | - | - | - | - | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 88,8 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |
| Sound power level - | E | dB(A) | 73,6 | 74,1 | 74,9 | 75,1 | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 88,8 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |
| - | | dB(A) | 73,0 | 74,1 | 74,5 | 75,1 | 87,2 | 87,5 | 86,5 | 87,7 | 87,1 | 87,9 | 87.1 | 89,4 | 89,5 | 88,8 | 90,0 | 90,1 | 90,1 | 90,0 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0602 | 0604 | 0652 | 0654 | 0682 | 0702 | 0704 | 0752 | 0754 | 0802 | 0804 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | |
| | ٥ | mm | - | - | - | - | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| A | А | mm | - | - | - | - | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| A | E | mm | 1652 | 1658 | 1658 | 1658 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| | L | mm | 1652 | 1652 | 1658 | 1658 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| D | °,A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| В | E,L | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | 0 | mm | - | - | - | - | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| • | A | mm | - | - | - | - | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| C | E | mm | 2818 | 3317 | 3317 | 3317 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |
| | L | mm | 2818 | 2818 | 3317 | 3317 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 3567 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 | 4368 |





















NRGI 151-602

Air-water chiller

Cooling capacity 31.0 ÷ 132.2 kW



- · High efficiency also at partial loads
- High modulation capacity
- Continuous modulation of the cooling capacity
- Compressors and fans with Inverter
- Reduced amount of refrigerant
- Stable temperature control of the outlet water





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas.

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger and **standard electronic expansion valve.**

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 50°C external air temperature. Unit can produce chilled water up to -10 $^{\circ}\text{C}$.

For more information refer to the selection program and to to the dedicated documentation.

High efficiency

These are flexible and reliable units which adapt to the most diverse load conditions thanks to the precise design and **the use of steady speed compressors together with inverter-controlled variable speed compressors** guaranteeing a high energy efficiency level both at full and partial load.

Inverter compressor + On-Off

They can be configured with a single variable speed compressor or two in tandem configuration, one steady and one variable speed. This pair guarantees high efficiency both with partial and full loads.

Sizes 151-281 have a single variable speed compressor. Sizes 302-602 have two compressors in tandem configuration.

This solution gets the best value out of the particularities and advantages of each compressor, enhancing the efficiency of each load condition and allowing for

— High seasonal efficiency

- steady and precise modulation of the chilling demand
- The stability of the outlet water temperature.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

■ The leak detector is supplied as per standard.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

Single-compressor units have a standard electronic expansion valve, while units with tandem compressors have two.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Fans

www.aermec.com

Inverter: standard from size 151 to size 352, available as an optional for the other sizes.

Boosted, asynchronous with phase cutting: standard from size 382 to size 602.

Both types of fan permit:

- Steady air flow rate adjustment
- Low consumption and reduced sound level at partial loads
- Operation with low outdoor air temperatures
- Precise condensation control for an extended operating range.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

439

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: this function can be activated in all the units, to optimise unit operation at any point by continuously modulating the fan speed. In addition, the use of inverter fans allows increased energy efficiency with partial loads.
- **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

INTEGRATED SOLUTION

The "integrated solution" concept has been implemented in the system architecture, consisting in an integrated and streamlined control of compressors and electronic valves.

This solution allowed a variety of new features to be introduced, such

- **Low Superheat Control**: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions;
- **DLT control**: Control of electronic valves at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER485P1 | A,E | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E | • | • | • | • | | • | | • | • | • |
| PGD1 | A,E | | | | | | | | • | • | • |

Antivibration

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|--|-----------------------|-------------------|---------------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I1, I2, I3, | 14, P1, P2, P3, P4 | | | | | | | | | |
| A,E | VT17 | VT13 | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |
| Integrated hydronic kit: 01, 02, 03, 04 | , 05, 06, 07, 08, 09, | K1, K2, K3, K4, W | 1, W2, W3, W4 | | | | | | | |
| A,E | VT13 | VT13 | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |

Anti-intrusion arid

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|
| A,E | GP3 | GP4 | GP4 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |

⁽¹⁾ x _ indicates the quantity to buy

Device for peak current reduction

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|-----|-----|-----|------------|------------|------------|------------|------------|------------|------------|
| A.F | - | - | - | DRFNRGI302 | DRFNRGI332 | DRFNRGI352 | DRFNRGI382 | DRFNRGI502 | DRFNRGI552 | DRFNRGI602 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E | T6NRG1 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| | | GUNATUR |
|-------|-----|---|
| Field | _ | Description |
| 1,2,3 | 3,4 | NRGI |
| 5,6,7 | 7 | Size |
| | | 151, 201, 281, 302, 332, 352, 382, 502, 552, 602 |
| 8 | | Operating field (1) |
| | X | Electronic thermostatic expansion valve |
| 9 | | Model |
| | 0 | Cooling only |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (2) |
| 11 | | Version |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| 12 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | J | Inverter |
| | М | Boosted with phase cutting (3) |
| 14 | | Power supply |
| | 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,1 | 6 | Integrated hydronic kit |
| | | Without hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with storage tank and pump/s |
| | 01 | Storage tank with low head pump |
| | 02 | Storage tank with low head pump + stand-by pump |
| | 03 | Storage tank with high head pump |
| | 04 | Storage tank with high head pump + stand-by pump |
| | | Kit with pump/s and storage tank with holes for heaters |

| Field | Description |
|-------|--|
| 05 | Storage tank with holes for heaters and single low head pump (4) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (4) |
| 07 | Storage tank with holes for heaters and single high head pump (4) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (4) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| I1 | Single low head pump + fixed speed inverter |
| 12 | Single low head pump with fixed speed inverter + stand-by pump |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter |
| W2 | Double low head pump + Storage tank + variable speed inverter |
| W3 | Single high head pump + Storage tank + variable speed inverter |
| W4 | Double high head pump + Storage tank + variable speed inverter |

- (1) Water produced from -10 °C ÷ 20 °C. Double electronic thermostatic valve from size 302 to 602.

 (2) Warning: on the recovery side, a minimum input temperature of 35°C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection program

 (3) Only for 382 − 502 − 552 − 602 sizes

 (4) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRGI - A

| mior /i | | | | | | | | | | | |
|--------------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 39,2 | 52,6 | 58,2 | 69,4 | 77,7 | 83,2 | 93,2 | 103,3 | 114,0 | 132,2 |
| Input power | kW | 11,8 | 15,2 | 17,5 | 20,8 | 23,3 | 25,6 | 27,6 | 31,4 | 35,1 | 39,1 |
| Cooling total input current | A | 18,0 | 23,0 | 26,0 | 37,0 | 41,0 | 46,0 | 43,0 | 49,0 | 53,0 | 60,0 |
| EER | W/W | 3,31 | 3,47 | 3,32 | 3,33 | 3,34 | 3,25 | 3,37 | 3,29 | 3,24 | 3,38 |
| Water flow rate system side | l/h | 6746 | 9067 | 10028 | 11960 | 13388 | 14335 | 16031 | 17775 | 19616 | 22750 |
| Pressure drop system side | kPa | 18 | 33 | 40 | 35 | 44 | 50 | 24 | 23 | 28 | 29 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRGI - E

| Size | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|--------------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 31,0 | 40,1 | 46,4 | 61,7 | 70,1 | 75,6 | 84,9 | 91,3 | 101,8 | 119,6 |
| Input power | kW | 8,9 | 11,0 | 13,1 | 17,9 | 20,2 | 22,5 | 24,6 | 26,9 | 30,8 | 34,2 |
| Cooling total input current | A | 13,0 | 17,0 | 19,0 | 32,0 | 36,0 | 41,0 | 39,0 | 43,0 | 47,0 | 53,0 |
| EER | W/W | 3,49 | 3,63 | 3,55 | 3,45 | 3,46 | 3,36 | 3,45 | 3,39 | 3,31 | 3,50 |
| Water flow rate system side | l/h | 5326 | 6900 | 7994 | 10624 | 12066 | 13021 | 14607 | 15705 | 17509 | 20576 |
| Pressure drop system side | kPa | 11 | 19 | 25 | 27 | 35 | 41 | 20 | 18 | 22 | 24 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|----------------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fans: J | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | |
| SEER | Α | W/W | 5,19 | 5,32 | 5,37 | 5,04 | 5,07 | 5,22 | 5,33 | 5,36 | 5,18 | 5,33 |
| SEER | E | W/W | 5,23 | 5,36 | 5,42 | 5,08 | 5,11 | 5,26 | 5,37 | 5,40 | 5,23 | 5,37 |
| Caranal officiana | Α | % | 204,40 | 209,80 | 211,90 | 198,40 | 199,70 | 205,70 | 210,00 | 211,40 | 204,30 | 210,00 |
| Seasonal efficiency | E | % | 206,00 | 211,50 | 213,60 | 200,00 | 201,30 | 207,30 | 211,80 | 213,10 | 206,00 | 211,70 |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | |
| SEER | Α | W/W | 6,35 | 6,45 | 6,33 | 5,81 | 5,79 | 5,89 | 6,21 | 6,21 | 5,94 | 6,11 |
| DEEK | E | W/W | 6,52 | 6,75 | 6,58 | 5,93 | 5,84 | 5,91 | 6,31 | 6,32 | 6,00 | 6,21 |
| | А | % | 250,90 | 254,90 | 250,20 | 229,50 | 228,40 | 232,40 | 245,20 | 245,30 | 234,60 | 241,50 |
| Seasonal efficiency | E | % | 257,90 | 266,80 | 260,30 | 234,20 | 230,40 | 233,40 | 249,40 | 249,80 | 237,10 | 245,40 |
| SEPR - (EN 14825: 2018) (2) | | | | | | | | | | | | |
| SEPR | А | W/W | 7,10 | 7,60 | 7,50 | 7,10 | 7,30 | 7,40 | 7,10 | 7,10 | 6,50 | 6,50 |
| SERK | E | W/W | 7,10 | 7,50 | 7,40 | 7,20 | 7,40 | 7,40 | 7,10 | 7,20 | 6,60 | 6,60 |
| Fans: M | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | |
| CLED | A | W/W | - | - | - | - | - | - | 5,33 | 5,36 | 5,18 | 5,33 |
| SEER | E | W/W | - | - | - | - | - | - | 5,37 | 5,40 | 5,23 | 5,37 |
| | А | % | - | - | - | - | - | - | 210,00 | 211,40 | 204,30 | 210,00 |
| Seasonal efficiency | E | % | - | - | - | - | - | - | 211,80 | 213,10 | 206,00 | 211,70 |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | |
| CEED | A | W/W | - | - | - | - | - | - | 6,21 | 6,21 | 5,94 | 6,11 |
| SEER | E | W/W | - | - | - | - | - | - | 6,31 | 6,32 | 6,00 | 6,21 |
| Constant of the constant | А | % | - | - | - | - | - | - | 245,20 | 245,30 | 234,60 | 241,50 |
| Seasonal efficiency | E | % | - | - | - | - | - | - | 249,40 | 249,80 | 237,10 | 245,40 |
| SEPR - (EN 14825: 2018) (2) | | | | | | | | | | | | |
| CEDD | А | W/W | - | - | - | - | - | - | 7,10 | 7,10 | 6,50 | 6,50 |
| SEPR | E | W/W | - | - | - | - | - | - | 7,10 | 7,20 | 6,60 | 6,60 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------|-----|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 23,8 | 31,6 | 34,9 | 47,6 | 52,8 | 58,1 | 60,1 | 68,8 | 74,4 | 87,5 |
| Peak current (LRA) | A,E | A | 30,3 | 43,0 | 43,0 | 142,8 | 167,1 | 201,1 | 174,4 | 211,8 | 278,6 | 329,2 |

[■] Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

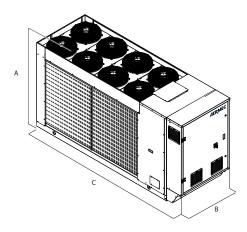
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|------------------------|-------|------|-----|-----|-----|-----|-------|---------|-----|-----|-----|-----|
| Compressor | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Sc | roll | | | | |
| Compressor regulation | A,E | Туре | | | 1 | 1+I | 1+I | 1+I | 1+1 | 1+1 | 1+l | 1+1 |
| Number | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | A,E | type | | | | | R | 32 | | | | |
| System side heat excha | anger | | | | | | | | | | | |
| Туре | A,E | type | | | | | Braze | d plate | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

FANS DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|---|----------------------|-----------------------------|-----------------|-----------------|-------------------|------------------|-----------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Fans: J | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | |
| Туре | A,E | type | | | | | A | rial | | | | |
| Fan motor | A,E | type | | | | | Inve | erter | | | | |
| Number | A,E | no. | 4 | 6 | 6 | 8 | 8 | 8 | 2 | 2 | 2 | 3 |
| Air flow rate | A | m³/h | 16669 | 24469 | 24476 | 30793 | 28649 | 28662 | 36174 | 36174 | 36149 | 54601 |
| Air now rate | E | m³/h | 14488 | 21255 | 21255 | 26704 | 24966 | 24966 | 26850 | 26850 | 26781 | 40488 |
| Sound data calculated in cooling mod | e (1) | | | | | | | | | | | |
| S | A | dB(A) | 81,8 | 84,6 | 85,9 | 82,2 | 85,0 | 85,1 | 85,4 | 86,5 | 87,7 | 88,1 |
| Sound power level | E | dB(A) | 79,3 | 82,8 | 83,3 | 80,9 | 81,3 | 81,7 | 82,8 | 83,0 | 85,4 | 85,5 |
| C | A | dB(A) | 50,0 | 52,7 | 54,1 | 50,3 | 53,2 | 53,3 | 53,5 | 54,5 | 55,8 | 56,0 |
| Sound pressure level (10 m) | E | dB(A) | 47,5 | 51,0 | 51,4 | 49,0 | 49,5 | 49,8 | 50,8 | 51,1 | 53,5 | 53,5 |
| (1) Sound power: calculated on the basis | of measurements | made in accord | ance with UNI E | N ISO 9614-2, a | as required for E | urovent certific | ation. Sound p | ressure measur | ed in free field | (in compliance | with UNI EN IS | 3744). |
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
| Fans: M | | | | | | | | | | | | |
| Increased fan | | | | | | | | | | | | |
| iller cube a ruit | | | | | | | | | | | | |
| Туре | A,E | type | | | | | A | rial | | | | |
| | A,E A,E | type type | | | | | | cial with phase cut | | | | |
| Туре | | | - | - | - | - | | | 2 | 2 | 2 | 3 |
| Type Fan motor Number | A,E | type | - | - - | - | - | Asynchronous | | 2 36174 | 2 36174 | 2 36149 | 3 54601 |
| Type Fan motor | A,E A,E | type no. | - - - | - - | | - - - | Asynchronous - | | | | | |
| Type Fan motor Number | A,E A,E A E | type no. m³/h | - | - - - | | | Asynchronous - - | with phase cut - - | 36174 | 36174 | 36149 | 54601 |
| Type Fan motor Number Air flow rate Sound data calculated in cooling mod | A,E A,E A E | type no. m³/h | - | | | | Asynchronous - - | with phase cut - - | 36174 | 36174 | 36149 | 54601 |
| Type Fan motor Number Air flow rate | A,E A,E A E | type no. m³/h m³/h | - | | - | - | Asynchronous - - - | with phase cut - - | 36174 26850 | 36174 26850 | 36149 26781 | 54601 40488 |
| Type Fan motor Number Air flow rate Sound data calculated in cooling mod | A,E A,E A E | type no. m³/h m³/h | - | - | - | - | Asynchronous | with phase cut - - - - | 36174 26850 85,4 | 36174 26850 86,5 | 36149 26781 87,7 | 54601 40488 88,1 |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | |
| A | A,E | mm | 1652 | 1652 | 1652 | 1652 | 1652 | 1652 | 1907 | 1907 | 1907 | 1900 |
| В | A,E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| C | A,E | mm | 2873 | 3372 | 3372 | 3372 | 3372 | 3372 | 3623 | 3623 | 3623 | 4373 |
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| Weight empty + packaging | A,E | kg | 826 | 899 | 899 | 986 | 1027 | 1028 | 1093 | 1101 | 1123 | 1313 |
| Weight functioning | A,E | kg | 795 | 867 | 867 | 955 | 996 | 997 | 1062 | 1072 | 1094 | 1284 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRGI 151H-602H

Reversible air/water heat pump

Cooling capacity 28.9 ÷ 123.7 kW Heating capacity 31.6 ÷ 133.9 kW



- · High efficiency also at partial loads
- High modulation capacity
- Continuous modulation of the cooling capacity
- Compressors and fans with Inverter
- · Reduced amount of refrigerant
- Stable temperature control of the outlet water





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas.

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger and **standard electronic expansion valve.**

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency **E** Silenced high efficiency

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 49 °C in summer. Hot water production up to 60 °C

For more information refer to the selection program and to to the dedicated documentation.

High efficiency

These are flexible and reliable units which adapt to the most diverse load conditions thanks to the precise design and **the use of steady speed compressors together with inverter-controlled variable speed compressors** guaranteeing a high energy efficiency level both at full and partial load.

Inverter compressor + On-Off

They can be configured with a single variable speed compressor or two in tandem configuration, one steady and one variable speed. This pair guarantees high efficiency both with partial and full loads.

Sizes 151-281 have a single variable speed compressor. Sizes 302-602 have two compressors in tandem configuration.

This solution gets the best value out of the particularities and advantages of each compressor, enhancing the efficiency of each load condition and allowing for

- High seasonal efficiency
- steady and precise modulation of the chilling demand
- The stability of the outlet water temperature.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

The leak detector is supplied as per standard.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

Single-compressor units have a standard electronic expansion valve, while units with tandem compressors have two.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Inverter fans

All of the units are equipped as per standard with high-efficiency inverter-controlled axial fans which provide:

- Steady air flow rate adjustment
- Low consumption and reduced sound level at partial loads
- Operation with low outdoor air temperatures
- Precise condensation control for an extended operating range.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed or variable pumps also inverter.

■ VARIABLE FLOW RATE: Correctly adjust the speed of the inverter-controlled pumps according to the load demand of the system, in order to reduce power consumption.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Swing HP and LP controls: available for all models. By continuously modulating the fans, they streamline operation of the unit at any work point both in cooling and heating mode. This results in enhanced energy efficiency of the unit at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

INTEGRATED SOLUTION

The "integrated solution" concept has been implemented in the system architecture, consisting in an integrated and streamlined control of compressors and electronic valves.

This solution allowed a variety of new features to be introduced, such as:

 Low Superheat Control: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions; DLT control: Control of electronic valves at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range, especially in heating mode.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

GP: Anti-intrusion grid. **VT:** Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER485P1 | A,E | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E | • | • | | • | • | • | • | • | • | • |
| PGD1 | ΔF | | | | | | | | | | |

Antivibration

| 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------|--|---|---|---|--|--|---|---|---|
| 4, P1, P2, P3, P4 | | | | | | | | | |
| VT17 | VT13 | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |
| 05, 06, 07, 08, 09, 1 | K1, K2, K3, K4, W | 1, W2, W3, W4 | | | | | | | |
| VT13 | VT13 | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT22 |
| | 4, P1, P2, P3, P4 VT17 05, 06, 07, 08, 09, | 4, P1, P2, P3, P4 VT17 VT13 05, 06, 07, 08, 09, K1, K2, K3, K4, W | 4, P1, P2, P3, P4 VT17 VT13 VT13 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 VT13 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 VT13 VT13 VT13 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 VT13 VT11 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 VT13 VT11 VT11 05, 06, 07, 08, 09, K1, K2, K3, K4, W1, W2, W3, W 4 | 4, P1, P2, P3, P4 VT17 VT13 VT13 VT13 VT13 VT13 VT11 VT11 VT11 |

Anti-intrusion grid

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|
| A,E | GP3 | GP4 | GP4 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |

⁽¹⁾ x_i indicates the quantity to buy

Device for peak current reduction

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|-----|-----|-----|------------|------------|------------|------------|------------|------------|------------|
| A.E | - | - | - | DRENRGI302 | DRENRGI332 | DRENRGI352 | DRENRGI382 | DRENRGI502 | DRENRGI552 | DRENRGI602 |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E | T6NRG1 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

CONFIGURATOR

| | | GUNATUR |
|------|-----|---|
| Fiel | d | Description |
| 1,2, | 3,4 | NRGI |
| 5,6, | 7 | Size 151, 201, 281, 302, 332, 352, 382, 502, 552, 602 |
| 8 | | Operating field (1) |
| | Χ | Electronic thermostatic expansion valve |
| 9 | | Model |
| | Н | Heat pump |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (2) |
| 11 | | Version |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| 12 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | 0 | Standard with phase cut |
| | J | Inverter |
| 14 | | Power supply |
| | 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,1 | 16 | Integrated hydronic kit |
| | | Without hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with storage tank and pump/s |
| | 01 | Storage tank with low head pump |
| | 02 | Storage tank with low head pump + stand-by pump |
| | 03 | Storage tank with high head pump |
| | 04 | Storage tank with high head pump + stand-by pump |

| ield | Description |
|------|--|
| | Kit with pump/s and storage tank with holes for heaters |
| 05 | Storage tank with holes for heaters and single low head pump (3) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (3) |
| 07 | Storage tank with holes for heaters and single high head pump (3) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (3) |
| | Double loop |
| 09 | Double loop |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| Р3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| l1 | Single low head pump + fixed speed inverter |
| 12 | Single low head pump with fixed speed inverter + stand-by pump |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K1 | Single low head pump + storage tank + fixed speed inverter |
| K2 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and variable speed inverter pump/s |
| W1 | Single low head pump + Storage tank + variable speed inverter |
| W2 | Double low head pump + Storage tank + variable speed inverter |
| W3 | Single high head pump + Storage tank + variable speed inverter |
| W4 | Double high head pump + Storage tank + variable speed inverter |

- (1) Water produced from -10 °C ÷ 20 °C. Double electronic thermostatic valve from size 302 to 602.
 (2) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 (3) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRGI - HA

| Size | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C | | | | | | | | | | | |
| Cooling capacity | kW | 36,5 | 48,9 | 54,2 | 64,1 | 72,1 | 77,3 | 87,0 | 95,7 | 106,0 | 123,7 |
| Input power | kW | 12,1 | 15,6 | 18,1 | 21,5 | 23,9 | 26,3 | 28,4 | 32,3 | 36,1 | 39,1 |
| Cooling total input current | A | 18,0 | 24,0 | 27,0 | 38,0 | 42,0 | 47,0 | 44,0 | 51,0 | 55,0 | 60,0 |
| EER | W/W | 3,00 | 3,13 | 3,00 | 2,98 | 3,02 | 2,94 | 3,06 | 2,96 | 2,93 | 3,16 |
| Water flow rate system side | l/h | 6280 | 8416 | 9328 | 11028 | 12414 | 13315 | 14969 | 16471 | 18246 | 21290 |
| Pressure drop system side | kPa | 15 | 28 | 34 | 28 | 35 | 41 | 19 | 18 | 23 | 25 |
| Heating performance 40 °C / 45 °C | | | | | | | | | | | |
| Heating capacity | kW | 39,6 | 53,4 | 59,0 | 69,9 | 78,1 | 84,1 | 94,7 | 104,8 | 115,7 | 133,9 |
| Input power | kW | 11,6 | 15,4 | 17,3 | 20,3 | 23,0 | 24,9 | 29,4 | 32,2 | 34,6 | 40,6 |
| Heating total input current | A | 18,0 | 24,0 | 27,0 | 38,0 | 42,0 | 46,0 | 46,0 | 52,0 | 54,0 | 64,0 |
| COP | W/W | 3,42 | 3,46 | 3,42 | 3,45 | 3,40 | 3,37 | 3,22 | 3,25 | 3,34 | 3,30 |
| Water flow rate system side | l/h | 6869 | 9260 | 10228 | 12113 | 13544 | 14563 | 16431 | 18188 | 20074 | 23220 |
| Pressure drop system side | kPa | 18 | 33 | 40 | 34 | 42 | 49 | 23 | 22 | 27 | 29 |

NRGI - HE

| Size | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|---------------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 28,9 | 37,0 | 42,6 | 56,7 | 64,9 | 70,1 | 78,8 | 84,0 | 94,0 | 111,3 |
| Input power | kW | 9,1 | 11,4 | 13,5 | 18,4 | 20,8 | 23,2 | 25,3 | 27,6 | 31,6 | 34,1 |
| Cooling total input current | A | 13,0 | 17,0 | 20,0 | 33,0 | 36,0 | 41,0 | 39,0 | 44,0 | 49,0 | 53,0 |
| EER | W/W | 3,17 | 3,25 | 3,15 | 3,07 | 3,12 | 3,03 | 3,12 | 3,04 | 2,97 | 3,26 |
| Water flow rate system side | l/h | 4974 | 6363 | 7326 | 9764 | 11165 | 12069 | 13554 | 14451 | 16179 | 19152 |
| Pressure drop system side | kPa | 10 | 16 | 21 | 22 | 29 | 33 | 16 | 14 | 18 | 20 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 31,6 | 41,2 | 47,5 | 62,3 | 70,4 | 76,5 | 87,0 | 93,3 | 104,4 | 122,0 |
| Input power | kW | 9,1 | 11,8 | 13,6 | 18,0 | 20,3 | 22,2 | 27,0 | 28,5 | 31,2 | 36,8 |
| Heating total input current | А | 15,0 | 20,0 | 22,0 | 35,0 | 38,0 | 43,0 | 43,0 | 47,0 | 50,0 | 59,0 |
| COP | W/W | 3,49 | 3,49 | 3,49 | 3,47 | 3,47 | 3,44 | 3,23 | 3,27 | 3,35 | 3,32 |
| Water flow rate system side | l/h | 5484 | 7151 | 8247 | 10814 | 12215 | 13253 | 15103 | 16186 | 18126 | 21177 |
| Pressure drop system side | kPa | 12 | 20 | 26 | 27 | 34 | 40 | 20 | 18 | 22 | 24 |

ENERGY DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|---|---------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fans: ° | | | 151 | 201 | 201 | 302 | 332 | 332 | 302 | 502 | 332 | |
| Performance in average ambient conc | ditions (average) | - 35 °C (1) | | | | | | | | | | |
| | A | . , | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Efficiency energy class | E | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - |
| Ddarianh | A | kW | 34 | 46 | 51 | 61 | 67 | 73 | 82 | 91 | 100 | 116 |
| Pdesignh | E | kW | 27 | 35 | 41 | 54 | 61 | 66 | 75 | 81 | 90 | 105 |
| SCOP | A | W/W | 4,10 | 4,20 | 4,13 | 4,28 | 4,15 | 4,22 | 4,14 | 4,13 | 4,01 | 3,90 |
| SCOP | E | W/W | 4,15 | 4,20 | 4,15 | 4,30 | 4,18 | 4,25 | 4,17 | 4,16 | 4,04 | 3,93 |
| nch | A | % | 161,00 | 165,00 | 162,00 | 168,00 | 163,00 | 165,73 | 162,63 | 162,06 | 157,32 | 152,89 |
| ηsh | E | % | 163,00 | 165,00 | 163,00 | 169,00 | 164,00 | 167,00 | 163,96 | 163,38 | 158,60 | 154,14 |
| Performance in average ambient conc | ditions (average) | - 55 °C (2) | | | | | | | | | | |
| Efficiency energy class | A | | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Efficiency energy class | E | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - |
| Pdesignh | A | kW | 35 | 48 | 53 | 62 | 69 | 73 | 83 | 92 | 102 | 117 |
| - uesigiiii | E | kW | 28 | 37 | 43 | 55 | 62 | 67 | 76 | 82 | 92 | 106 |
| SCOP | A | W/W | 3,20 | 3,30 | 3,28 | 3,28 | 3,30 | 3,38 | 3,18 | 3,30 | 3,25 | 3,17 |
| | E | W/W | 3,23 | 3,30 | 3,28 | 3,28 | 3,30 | 3,38 | 3,29 | 3,27 | 3,26 | 3,18 |
| nch | A | % | 125,00 | 129,00 | 128,00 | 128,00 | 129,00 | 132,30 | 124,20 | 128,80 | 126,90 | 123,80 |
| ηsh | E | % | 126,00 | 129,00 | 128,00 | 128,00 | 129,00 | 132,00 | 128,40 | 127,70 | 127,20 | 124,10 |
| Fans: J | | | | | | | | | | | | |
| Performance in average ambient conc | ditions (average) | - 35 °C (1) | | | | | | | | | | |
| Efficiency energy class | A | | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Efficiency energy class | E | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - |
| Pdesignh | A | kW | 34 | 46 | 51 | 61 | 67 | 73 | 82 | 91 | 100 | 116 |
| | E | kW | 27 | 35 | 41 | 54 | 61 | 66 | 75 | 81 | 90 | 105 |
| SCOP | A | W/W | 4,25 | 4,33 | 4,25 | 4,40 | 4,29 | 4,35 | 4,27 | 4,25 | 4,13 | 4,02 |
| | E | W/W | 4,28 | 4,35 | 4,28 | 4,43 | 4,33 | 4,38 | 4,30 | 4,29 | 4,17 | 4,05 |
| ηsh | A | % | 167,00 | 170,00 | 167,10 | 173,00 | 168,40 | 170,95 | 167,75 | 167,17 | 162,28 | 157,71 |
| 1311 | E | % | 168,00 | 171,00 | 168,00 | 174,00 | 170,00 | 172,00 | 169,12 | 168,53 | 163,60 | 159,00 |
| Performance in average ambient conc | ditions (average) | - 55 °C (2) | | | | | | | | | | |
| Efficiency energy class | A | | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Linciency energy class | E | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - |
| Pdesignh | A | kW | 35 | 48 | 53 | 62 | 69 | 73 | 83 | 92 | 102 | 117 |
| | E | kW | 28 | 37 | 43 | 55 | 62 | 67 | 76 | 82 | 92 | 106 |
| SCOP | A | W/W | 3,31 | 3,40 | 3,38 | 3,38 | 3,43 | 3,49 | 3,28 | 3,35 | 3,35 | 3,27 |
| | E | W/W | 3,33 | 3,40 | 3,38 | 3,38 | 3,40 | 3,48 | 3,39 | 3,37 | 3,36 | 3,28 |
| ηsh | A | % | 129,40 | 133,00 | 132,10 | 132,00 | 134,00 | 136,50 | 128,10 | 130,80 | 130,90 | 127,70 |
| | E | % | 130,00 | 133,00 | 132,00 | 132,00 | 133,00 | 136,00 | 132,50 | 131,80 | 131,20 | 128,00 |
| (1) Efficiencies for low temperature application(2) Efficiencies for average temperature a | |) | | | | | | | | | | |
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
| SEER - (EN14825:2018) 12/7 with inver | rter fans (1) | | | | | | | | | | | |
| SEER | A | W/W | 4,67 | 4,96 | 4,89 | 4,62 | 4,74 | 4,68 | 4,79 | 4,84 | 4,90 | 5,09 |
| JEEN | E | W/W | 4,71 | 5,00 | 4,93 | 4,66 | 4,78 | 4,72 | 4,83 | 4,88 | 4,94 | 5,13 |
| Concornal officioness | A | % | 183,90 | 195,27 | 192,49 | 181,84 | 186,68 | 184,20 | 188,75 | 190,52 | 192,91 | 200,54 |
| Seasonal efficiency | E | % | 185,40 | 196,86 | 194,06 | 183,31 | 188,19 | 185,69 | 190,29 | 192,07 | 194,48 | 202,17 |
| SEER - 12/7 (EN14825:2018) with stand | dard fans (1) | | | | | | | | | | | |
| CEED | A | W/W | 4,49 | 4,76 | 4,69 | 4,44 | 4,55 | 4,49 | 4,60 | 4,64 | 4,70 | 4,88 |
| SEER | E | W/W | 4,52 | 4,80 | 4,73 | 4,47 | 4,59 | 4,53 | 4,64 | 4,68 | 4,74 | 4,92 |
| (1) Calculation performed with FIXED was | ter flow rate and \ | /ΔRIΔRI F outlet | | | | | | | | | | |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|---------------------|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cassanal officianas | Α | % | 176,43 | 187,34 | 184,67 | 174,44 | 179,09 | 176,71 | 181,08 | 182,78 | 185,08 | 192,40 |
| Seasonal efficiency | E | % | 177,86 | 188,86 | 186,17 | 175,86 | 180,55 | 178,15 | 182,56 | 184,26 | 186,58 | 193,96 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

ELECTRIC DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------|-----|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | A | 23,8 | 31,6 | 34,9 | 47,6 | 52,8 | 58,1 | 60,1 | 68,8 | 74,4 | 87,5 |
| Deals surrent (LDA) | А | А | 30,3 | 43,0 | 43,0 | 142,8 | 167,1 | 201,1 | 174,4 | 211,8 | 278,6 | 329,2 |
| Peak current (LRA) | F | A | 30.3 | 43.0 | 43.0 | 136.2 | 160.5 | 194.5 | 166.6 | 204.0 | 270.8 | 317.5 |

Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

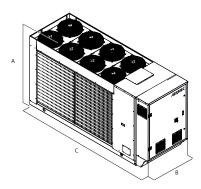
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|------------------------|--------------|----------|----------|----------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Compressor | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Sc | roll | | | | |
| Compressor regulation | A,E | Туре | Inverter | Inverter | Inverter | Inverter+0n/0ff |
| Number | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | A,E | type | | | | | R | 32 | | | | |
| System side heat excha | anger | | | | | | | | | | | |
| Туре | A,E | type | | | | | Braze | d plate | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sound data calculated | in cooling n | node (1) | | | | | | | | | | |
| Cound navier level | A | dB(A) | 81,8 | 84,6 | 86,0 | 82,2 | 85,0 | 85,1 | 85,4 | 86,5 | 87,8 | 88,1 |
| Sound power level — | E | dB(A) | 79,3 | 82,8 | 83,3 | 80,9 | 81,3 | 81,7 | 82,8 | 83,0 | 85,4 | 85,6 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

FANS DATA

| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|---------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fans: J | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | |
| Туре | A,E | type | | | | | A | rial | | | | |
| Fan motor | A,E | type | | | | | Inve | erter | | | | |
| Number | A,E | no. | 4 | 6 | 6 | 8 | 8 | 8 | 2 | 2 | 2 | 3 |
| A:- 0 | A | m³/h | 16896 | 24887 | 24891 | 31613 | 29660 | 29659 | 36859 | 36859 | 36859 | 55733 |
| Air flow rate | E | m³/h | 14667 | 21591 | 21591 | 27379 | 25774 | 25774 | 27308 | 27308 | 27307 | 41430 |

DIMENSIONS



| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | |
| A | A,E | mm | 1652 | 1652 | 1652 | 1652 | 1652 | 1652 | 1907 | 1907 | 1907 | 1900 |
| В | A,E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| C | A,E | mm | 2873 | 3372 | 3372 | 3372 | 3372 | 3372 | 3623 | 3623 | 3623 | 4373 |
| Size | | | 151 | 201 | 281 | 302 | 332 | 352 | 382 | 502 | 552 | 602 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| Weight empty + packaging | A,E | kg | 856 | 929 | 929 | 1019 | 1063 | 1064 | 1131 | 1137 | 1159 | 1365 |
| Weight functioning | A,E | kg | 825 | 897 | 897 | 988 | 1032 | 1033 | 1099 | 1108 | 1130 | 1336 |





















NRG 0800-2400

Air-water chiller

Cooling capacity 225,7 ÷ 725,0 kW



- · High efficiency also at partial loads
- · Reduced amount of refrigerant
- Night mode





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas axial fan, microchannel batteries and plate exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 49°C external air temperature. Unit can produce chilled water up to -10 °C in some versions.

For more information refer to the selection program and to to the dedicated documentation.

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

■ The leak detector is supplied as per standard.

Use refrigerant fluid R32, whose classification according to ISO 817 is A2L (non-toxic, odourless and slightly flammable refrigerant).

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It's available in various configurations, with storage tank or pumps.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

| Fiel | d | Description |
|------|---------------|--|
| 1,2, | | NRG |
| | | Size |
| 4,5, | 6,/ | 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400 |
| 8 | | Operating field |
| | Χ | Electronic thermostatic expansion valve (1) |
| | Z | Low temperature electronic thermostatic valve (2) |
| 9 | | Model |
| | 0 | Cooling only |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (3) |
| | T | With total recovery (4) |
| 11 | | Version |
| | • | Standard |
| | A | High efficiency |
| | E | Silenced high efficiency |
| | L | Standard silenced |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | 0 | Coils |
| | | Aluminium microchannel |
| | <u> </u> | Copper-aluminium Costed aluminium microchannel |
| | 0 D | Coated aluminium microchannel |
| | R | Copper-copper Tipped copper |
| | <u>S</u> V | Tinned copper Copper-painted alumimium |
| 13 | V | Fans |
| 13 | J | Inverter |
| | M | Oversized |
| 14 | IVI | Power supply |
| 14 | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,1 | 16 | Integrated hydronic kit |
| 15, | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (5) |
| | | Pump n° 1 pump + stand-by pump |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| | DF | Pump F + stand-by pump |
| | DG | Pump G + stand-by pump |
| | DH | Pump H + stand-by pump |
| | DI | Pump I + stand-by pump |
| | DJ | Pump J + stand-by pump (5) |
| | | Kit with storage tank and n° 1 pump |
| | AA | Storage tank and pump A |
| | AB | Storage tank and pump B |
| | AC | Storage tank and pump C |
| | AD | Storage tank and pump D |
| | AE | Storage tank and pump E |
| | AF | Storage tank and pump F |
| | AG | Storage tank and pump G |
| | AH | Storage tank and pump H |
| | Al | Storage tank and pump I |
| | AJ | Storage tank and pump J (5) |
| | F.1 | Kit with storage tank and n° 1 pump + stand-by pump |
| | BA | Storage tank with pump A + stand-by pump |
| | BB | Storage tank with pump B + stand-by pump |
| | BC | Storage tank with pump C + stand-by pump |
| | | |

| Field | Description |
|-------|--|
| BD | Storage tank with pump D + stand-by pump |
| BE | Storage tank with pump E + stand-by pump |
| BF | Storage tank with pump F + stand-by pump |
| BG | Storage tank with pump G + stand-by pump |
| BH | Storage tank with pump H + stand-by pump |
| BI | Storage tank with pump I + stand-by pump |
| BJ | Storage tank with pump J + stand-by pump (5) |
| נט | Kit with n° 1 inverter pump to fixed speed |
| IA | Pump A equipped with inverter device to work at fixed speed |
| IB | Pump B equipped with inverter device to work at fixed speed |
| IC | Pump C equipped with inverter device to work at fixed speedr |
| ID | Pump D equipped with inverter device to work at fixed speed |
| IE | Pump E equipped with inverter device to work at fixed speed |
| IF | Pump F equipped with inverter device to work at fixed speed (6) |
| IG | Pump G equipped with inverter device to work at fixed speed (6) |
| IH | Pump H equipped with inverter device to work at fixed speed (6) |
| II. | Pump I equipped with inverter device to work at fixed speed (6) |
| IJ | Pump J equipped with inverter device to work at fixed speed (7) |
| | Kit with n° 1 inverter pump + stand-by pump to fixed speed |
| JA | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| JB | Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| JC | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| JD | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| JE | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| JF | Pump F+stand-by pump, both equipped with inverter to work at fixed speed (6) |
| JG | Pump G+stand-by pump, both equipped with inverter to work at fixed speed (6) |
| JH | Pump H+stand-by pump, both equipped with inverter to work at fixed speed (6) |
| JI | Pump I+stand-by pump, both equipped with inverter to work at fixed speed (6) |
| JJ | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (7) |
| | Kit with storage tank and n° 1 inverter pump to fixed speed |
| CA | Buffer tank + pump A, equipped with inverter to work at fixed speed |
| СВ | Buffer tank + pump B, equipped with inverter to work at fixed speed |
| CC | Buffer tank + pump C, equipped with inverter to work at fixed speed |
| CD | Buffer tank + pump D, equipped with inverter to work at fixed speed |
| EC | Buffer tank + pump E, equipped with inverter to work at fixed speed |
| CF | Buffer tank + pump F, equipped with inverter to work at fixed speed (6) |
| CG | Buffer tank + pump G, equipped with inverter to work at fixed speed (6) |
| CH | Buffer tank + pump H, equipped with inverter to work at fixed speed (6) |
| Cl | Buffer tank + pump I, equipped with inverter to work at fixed speed (6) |
| CJ | Buffer tank + pump J, equipped with inverter to work at fixed speed (6) |
| | Kit with storage tank and n° 1 pump + stand-by pump to fixed speed |
| KA | Buffer tank+pump A+stand-by pump, both with inverter to work at fixed speed |
| KB | Buffer tank+pump B+stand-by pump, both with inverter to work at fixed speed |
| KC | Buffer tank+pump C+stand-by pump, both with inverter to work at fixed speed |
| KD | Buffer tank+pump D+stand-by pump, both with inverter to work at fixed speed |
| KE | Buffer tank+pump E+stand-by pump, both with inverter to work at fixed speed |
| KF | Buffer tank+pump F+stand-by pump, both with inverter to work at fixed speed (6) |
| KG | Buffer tank+pump G+stand-by pump, both with inverter to work at fixed speed (6) |
| КН | Buffer tank+pump H+stand-by pump, both with inverter to work at fixed speed (6) |
| KI | Buffer $tank+pump\ l+stand-by\ pump,\ both\ with\ inverter\ to\ work\ at\ fixed\ speed\ (6)$ |
| KJ | Buffer tank+pump J+stand-by pump, both with inverter to work at fixed speed (7) |

⁽¹⁾ Water produced from 4 °C ÷ 20 °C
(2) Water produced from 8 °C ÷ -10 °C
(3) Warning: on the recovery side, a minimum input temperature of 35°C must always be guaranteed on the heat exchanger. For more information about the unit operating range, refer to the Magellano selection

heat exchanger. For more information about the unit operating range, refer to the magenano selection program

(4) None of the hydronic kits (from PA to KJ) are compatible with the following sizes and with versions with heat recovery T. 0800 - 0900 - 1100 version *, 0800 - 0900 version A; 0800 - 0900 version L. None of the hydronic kits with pump(s) and storage tank (AA - AJ, BA-BJ, CA-CJ, KA-KJ) are compatible with all the sizes and with versions with heat recovery T

(5) For all configurations including pump J please contact the factory.

(6) Hydronic kit not available with sizes 0800 version */L/A, 0900 version */L/A, 1000 version *, 1100 version */L/A, 1000 version */L/A, 10

⁽⁷⁾ For all possible configurations which include the "J" pump please be in touch with Aermec. Hydronic kit is not available with sizes 0800 version °/L/A, 0900 version °/L/A, 1000 version °, 1100 version °.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L,N,U | | • | • | • | • | | • | • | • | • | |
| FL | °,A,E,L,N,U | | | | • | • | | • | • | • | | • |
| MULTICHILLER_EVO | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E,L,N,U | | | • | | • | • | • | | • | | • |

Antivibration

| Americación | | | | | | | | | | | |
|-----------------------------|------------------------|-------------------|----------------------|-----------------------|----------------------|----------------------|-------------------|-------------------|------------|---------|---------|
| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| Integrated hydronic kit: 00 |) | | | | | | | | | | |
| 0 | AVX1125 | AVX1125 | AVX1125 | AVX1125 | AVX1127 | AVX1127 | AVX1127 | AVX1129 | AVX1130 | AVX1130 | AVX1138 |
| A,L | AVX1125 | AVX1125 | AVX1127 | AVX1127 | AVX1127 | AVX1143 | AVX1143 | AVX1138 | AVX1138 | AVX1150 | AVX1150 |
| E,U | AVX1127 | AVX1127 | AVX1127 | AVX1143 | AVX1143 | AVX1148 | AVX1148 | AVX1136 | AVX1139 | AVX1139 | AVX1141 |
| N | AVX1143 | AVX1143 | AVX1143 | AVX1148 | AVX1148 | AVX1148 | AVX1136 | AVX1139 | AVX1141 | AVX1141 | AVX1145 |
| Integrated hydronic kit: A | A, AB, AC, AD, AE, AF, | AG, AH, AI, AJ, B | A, BB, BC, BD, BI | E, BF, BG, BH, BI, | BJ, CA, CB, CC, C | D, CE, CF, CG, CH, | CI, CJ, KA, KB, K | , KD, KE, KF, KG, | KH, KI, KJ | | |
| 0 | AVX1126 | AVX1126 | AVX1126 | AVX1126 | AVX1128 | AVX1128 | AVX1128 | AVX1131 | AVX1131 | AVX1131 | AVX1135 |
| A,L | AVX1126 | AVX1126 | AVX1128 | AVX1128 | AVX1128 | AVX1147 | AVX1147 | AVX1135 | AVX1135 | AVX1137 | AVX1137 |
| E,U | AVX1128 | AVX1128 | AVX1128 | AVX1147 | AVX1147 | AVX1135 | AVX1135 | AVX1137 | AVX1140 | AVX1140 | AVX1142 |
| N | AVX1147 | AVX1147 | AVX1147 | AVX1135 | AVX1135 | AVX1135 | AVX1137 | AVX1140 | AVX1142 | AVX1142 | AVX1146 |
| Integrated hydronic kit: D/ | A, DB, DC, DD, DE, DF, | DG, DH, DI, DJ, I | A, IB, IC, ID, IE, I | F, IG, IH, II, IJ, JA | , JB, JC, JD, JE, JF | , JG, JH, JI, JJ, PA | , PB, PC, PD, PE, | PF, PG, PH, PI, P | J | | |
| 0 | AVX1125 | AVX1125 | AVX1125 | AVX1125 | AVX1126 | AVX1126 | AVX1126 | AVX1132 | AVX1132 | AVX1132 | AVX1133 |
| A,L | AVX1125 | AVX1125 | AVX1126 | AVX1126 | AVX1126 | AVX1144 | AVX1144 | AVX1134 | AVX1138 | AVX1150 | AVX1150 |
| E,U | AVX1126 | AVX1126 | AVX1126 | AVX1144 | AVX1144 | AVX1149 | AVX1149 | AVX1136 | AVX1139 | AVX1139 | AVX1141 |
| N | AVX1144 | AVX1144 | AVX1144 | AVX1149 | AVX1149 | AVX1149 | AVX1136 | AVX1139 | AVX1141 | AVX1141 | AVX1145 |

Condensation control temperature

| Comacin | sation contro | rtemperature | • | | | | | | | | |
|---------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| Fans: M | | | | | | | | | | | |
| 0 | DCPX160 | DCPX160 | DCPX161 | DCPX161 | DCPX163 | DCPX163 | DCPX163 | DCPX165 | DCPX165 | DCPX165 | DCPX167 |
| Α | DCPX161 | DCPX161 | DCPX162 | DCPX162 | DCPX162 | DCPX164 | DCPX164 | DCPX166 | DCPX166 | DCPX168 | DCPX168 |
| E,L,N | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard |
| U | DCPX162 | DCPX162 | DCPX162 | DCPX164 | DCPX164 | DCPX166 | DCPX166 | DCPX168 | DCPX170 | DCPX170 | DCPX172 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| °,A,E,L,N,U | DRENRG0800 | DRENRG0900 | DRENRG1000 | DRENRG1100 | DRENRG1200 | DRENRG1400 | DRENRG1600 | DRENRG1800 | DRENRG2000 | DRENRG2200 | DRENRG2400 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| °,A,E,L,N,U | RIFNRG0800 | RIFNRG0900 | RIFNRG1000 | RIFNRG1100 | RIFNRG1200 | RIFNRG1400 | RIFNRG1600 | RIFNRG1800 | RIFNRG2000 | RIFNRG2200 | RIFNRG2400 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 0 | GP2VN | GP2VN | GP2VN | GP2VN | GP3G | GP3G | GP3G | GP4G | GP4G | GP4G | GP5G |
| A,L | GP2VN | GP2VN | GP3G | GP3G | GP3G | GP4GM | GP4GM | GP5G | GP5G | GP6G | GP6G |
| E,U | GP3G | GP3G | GP3G | GP4GM | GP4GM | GP5GM | GP5GM | GP6G | GP7G | GP7G | GP8G |
| N | GP4GM | GP4GM | GP4GM | GP5GM | GP5GM | GP5GM | GP6G | GP7G | GP8G | GP8G | GP9G |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

■ GP2VN becomes GP2VNA if configured with a type A or B hydronic kit

Double safety valves

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| °,A,E,L,N,U | T6NRGLS1 | T6NRGLS2 | T6NRGLS3 | T6NRGLS3 | T6NRGLS3 |

A grey background indicates the accessory must be assembled in the factory

PERFORMANCE SPECIFICATIONS

NRG - °

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | kW | 229,0 | 251,4 | 278,2 | 314,5 | 372,4 | 399,7 | 459,4 | 532,8 | 593,5 | 635,8 | 698,1 |
| Input power | kW | 70,6 | 80,3 | 90,1 | 107,8 | 118,6 | 129,5 | 152,5 | 170,8 | 197,3 | 212,9 | 226,5 |
| Cooling total input current | Α | 122,0 | 138,0 | 156,0 | 182,0 | 198,0 | 222,0 | 248,0 | 282,0 | 325,0 | 353,0 | 366,0 |
| EER | W/W | 3,24 | 3,13 | 3,09 | 2,92 | 3,14 | 3,09 | 3,01 | 3,12 | 3,01 | 2,99 | 3,08 |
| Water flow rate system side | l/h | 39392 | 43247 | 47863 | 54104 | 64061 | 68767 | 79015 | 91640 | 102081 | 109354 | 120062 |
| Pressure drop system side | kPa | 36 | 44 | 54 | 51 | 60 | 62 | 42 | 57 | 62 | 62 | 64 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - L

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 225,7 | 247,6 | 279,0 | 317,6 | 360,5 | 410,2 | 451,3 | 526,9 | 590,3 | 640,5 | 679,3 |
| Input power | kW | 70,6 | 80,3 | 88,3 | 106,0 | 121,5 | 133,0 | 151,3 | 171,3 | 200,0 | 209,3 | 224,5 |
| Cooling total input current | А | 121,0 | 138,0 | 148,0 | 174,0 | 201,0 | 216,0 | 243,0 | 277,0 | 323,0 | 337,0 | 364,0 |
| EER | W/W | 3,20 | 3,09 | 3,16 | 3,00 | 2,97 | 3,08 | 2,98 | 3,08 | 2,95 | 3,06 | 3,03 |
| Water flow rate system side | l/h | 38832 | 42603 | 47996 | 54644 | 62004 | 70568 | 77616 | 90617 | 101513 | 110161 | 116806 |
| Pressure drop system side | kPa | 36 | 43 | 42 | 48 | 47 | 53 | 41 | 49 | 53 | 62 | 39 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - A

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 230,4 | 253,6 | 287,0 | 328,9 | 374,1 | 424,3 | 468,8 | 542,9 | 608,8 | 663,3 | 702,9 |
| Input power | kW | 69,3 | 78,3 | 86,3 | 100,7 | 116,2 | 127,9 | 144,7 | 163,4 | 187,9 | 202,4 | 217,9 |
| Cooling total input current | A | 123,0 | 139,0 | 151,0 | 174,0 | 197,0 | 215,0 | 238,0 | 275,0 | 317,0 | 334,0 | 358,0 |
| EER | W/W | 3,33 | 3,24 | 3,33 | 3,27 | 3,22 | 3,32 | 3,24 | 3,32 | 3,24 | 3,28 | 3,23 |
| Water flow rate system side | l/h | 39642 | 43624 | 49381 | 56584 | 64350 | 72980 | 80631 | 93379 | 104697 | 114081 | 120866 |
| Pressure drop system side | kPa | 37 | 45 | 44 | 52 | 52 | 56 | 44 | 53 | 58 | 67 | 42 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - E

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 229,7 | 256,5 | 280,7 | 330,9 | 378,2 | 424,6 | 466,3 | 542,7 | 617,8 | 652,1 | 705,8 |
| Input power | kW | 68,3 | 77,4 | 86,8 | 100,0 | 116,7 | 128,4 | 144,7 | 165,0 | 186,7 | 203,2 | 214,1 |
| Cooling total input current | A | 116,0 | 132,0 | 149,0 | 167,0 | 191,0 | 208,0 | 231,0 | 268,0 | 302,0 | 327,0 | 343,0 |
| EER | W/W | 3,37 | 3,32 | 3,24 | 3,31 | 3,24 | 3,31 | 3,22 | 3,29 | 3,31 | 3,21 | 3,30 |
| Water flow rate system side | l/h | 39530 | 44119 | 48278 | 56919 | 65043 | 73027 | 80200 | 93338 | 106248 | 112132 | 121358 |
| Pressure drop system side | kPa | 38 | 35 | 38 | 48 | 39 | 38 | 44 | 47 | 59 | 45 | 37 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - U

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 234,8 | 263,0 | 288,8 | 339,2 | 389,3 | 435,6 | 479,7 | 558,1 | 634,0 | 671,3 | 725,0 |
| Input power | kW | 68,2 | 76,5 | 85,2 | 99,1 | 114,3 | 126,8 | 142,5 | 163,7 | 185,1 | 200,1 | 212,0 |
| Cooling total input current | A | 121,0 | 135,0 | 151,0 | 171,0 | 193,0 | 212,0 | 233,0 | 272,0 | 308,0 | 330,0 | 349,0 |
| EER | W/W | 3,44 | 3,44 | 3,39 | 3,42 | 3,41 | 3,44 | 3,37 | 3,41 | 3,43 | 3,35 | 3,42 |
| Water flow rate system side | l/h | 40397 | 45241 | 49677 | 58351 | 66957 | 74921 | 82502 | 95984 | 109036 | 115443 | 124657 |
| Pressure drop system side | kPa | 40 | 36 | 41 | 50 | 40 | 39 | 47 | 49 | 62 | 48 | 39 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRG - N

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 235,0 | 262,1 | 290,7 | 339,2 | 389,2 | 430,7 | 481,8 | 556,2 | 627,9 | 670,3 | 719,8 |
| Input power | kW | 67,2 | 76,1 | 85,1 | 98,7 | 113,4 | 126,5 | 141,8 | 163,9 | 184,6 | 198,3 | 212,1 |
| Cooling total input current | A | 115,0 | 129,0 | 145,0 | 164,0 | 185,0 | 208,0 | 225,0 | 262,0 | 297,0 | 320,0 | 338,0 |
| EER | W/W | 3,50 | 3,44 | 3,42 | 3,44 | 3,43 | 3,40 | 3,40 | 3,39 | 3,40 | 3,38 | 3,39 |
| Water flow rate system side | l/h | 40430 | 45090 | 50006 | 58350 | 66941 | 74070 | 82857 | 95663 | 107988 | 115265 | 123768 |
| Pressure drop system side | kPa | 41 | 38 | 41 | 50 | 41 | 38 | 42 | 49 | 61 | 47 | 39 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--|--------|-----------|-----------|--------|-----------|--------|---------|-----------|-----------|---------|----------|---------|--------|
| Fans: J | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | |
| | 0 | W/W | 4,46 | 4,43 | 4,34 | 4,36 | 4,47 | 4,40 | 4,62 | 4,62 | 4,56 | 4,58 | 4,59 |
| | A | W/W | 4,66 | 4,67 | 4,66 | 4,64 | 4,66 | 4,64 | 4,72 | 4,77 | 4,77 | 4,76 | 4,77 |
| CEED | E | W/W | 4,76 | 4,82 | 4,75 | 4,76 | 4,79 | 4,89 | 4,87 | 4,98 | 4,95 | 4,89 | 4,88 |
| SEER | L | W/W | 4,60 | 4,58 | 4,65 | 4,62 | 4,61 | 4,77 | 4,69 | 4,81 | 4,83 | 4,78 | 4,81 |
| | N | W/W | 4,83 | 4,86 | 4,88 | 4,87 | 4,88 | 5,00 | 4,97 | 5,05 | 5,01 | 4,95 | 4,93 |
| | U | W/W | 4,72 | 4,74 | 4,75 | 4,75 | 4,76 | 4,73 | 4,78 | 4,85 | 4,82 | 4,83 | 4,82 |
| | 0 | % | 175.5% | 174.3% | 170.5% | 171.3% | 175.9% | 173.0% | 161.6% | 181.8% | 179.5% | 180.0% | 180.6% |
| | A | % | 183.4% | 183.8% | 183.2% | 182.7% | 183.2% | 182.4% | 185.7% | 187.8% | 187.7% | 187.5% | 187.6% |
| Concernal officiency | E | % | 187.5% | 189.6% | 187.0% | 187.4% | 188.5% | 192.6% | 191.6% | 196.3% | 195.0% | 192.7% | 192.0% |
| Seasonal efficiency | L | % | 180.8% | 180.1% | 183.0% | 181.6% | 181.2% | 187.9% | 184.6% | 189.2% | 190.3% | 188.0% | 189.5% |
| | N | % | 190.1% | 191.2% | 192.2% | 191.8% | 192.1% | 196.9% | 195.9% | 198.8% | 197.3% | 194.8% | 194.3% |
| | U | % | 185.8% | 186.7% | 187.1% | 186.8% | 187.4% | 186.2% | 188.3% | 191.0% | 189.7% | 190.1% | 189.6% |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | | |
| | 0 | W/W | 5,09 | 4,99 | 4,86 | 4,89 | 5,02 | 4,91 | 5,16 | 5,17 | 5,09 | 5,06 | 5,08 |
| | A | W/W | 5,35 | 5,28 | 5,31 | 5,23 | 5,19 | 5,17 | 5,28 | 5,34 | 5,32 | 5,25 | 5,39 |
| CLLD | E | W/W | 5,43 | 5,48 | 5,38 | 5,36 | 5,38 | 5,54 | 5,44 | 5,56 | 5,44 | 5,45 | 5,48 |
| SEER | L | W/W | 5,29 | 5,19 | 5,26 | 5,17 | 5,11 | 5,29 | 5,25 | 5,32 | 5,32 | 5,24 | 5,37 |
| | N | W/W | 5,54 | 5,57 | 5,55 | 5,50 | 5,52 | 5,63 | 5,59 | 5,63 | 5,52 | 5,55 | 5,59 |
| | U | W/W | 5,46 | 5,48 | 5,43 | 5,39 | 5,41 | 5,37 | 5,38 | 5,46 | 5,38 | 5,45 | 5,51 |
| | 0 | % | 200,7% | 196,5% | 191,5% | 192,4% | 197,6% | 193,2% | 203,5% | 203,7% | 200,4% | 199,2% | 200,4% |
| | Α | % | 211,0% | 208,4% | 209,3% | 206,1% | 204,6% | 203,7% | 208,1% | 210,5% | 209,8% | 207,1% | 212,7% |
| | E | % | 214,2% | 216,2% | 212,0% | 211,4% | 212,1% | 218,6% | 214,4% | 219,3% | 214,5% | 215,2% | 216,4% |
| Seasonal efficiency | L | % | 208,6% | 204,8% | 207,2% | 203,8% | 201,5% | 208,6% | 206,9% | 209,8% | 209,9% | 206,5% | 211,9% |
| | N | % | 218,4% | 219,8% | 219,1% | 217,2% | 217,7% | 222,3% | 220,4% | 222,3% | 217,9% | 218,9% | 220,5% |
| | U | % | 215,4% | 216,2% | 214,2% | 212,5% | 213,5% | 211,9% | 212,2% | 215,5% | 212,2% | 214,9% | 217,4% |
| Fans: M | | | ., | ., | , | , | | , | , | | , | , | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | |
| | 0 | W/W | 4,35 | 4,33 | 4,25 | 4,29 | 4,15 | 4,22 | - (3) | - (3) | - (3) | - (3) | - (3) |
| | Α | W/W | 4,43 | 4,45 | 4,45 | 4,45 | 4,47 | 4,60 | 4,63 | 4,63 | 4,63 | 4,57 | 4,58 |
| cern. | E | W/W | 4,51 | 4,58 | 4,56 | 4,57 | 4,59 | 4,66 | 4,67 | 4,70 | 4,68 | 4,65 | 4,66 |
| SEER | L | W/W | 4,39 | 4,39 | 4,47 | 4,44 | 4,43 | 4,61 | 4,60 | 4,62 | 4,62 | 4,57 | 4,59 |
| | N | W/W | 4,57 | 4,62 | 4,69 | 4,67 | 4,68 | 4,76 | 4,78 | 4,75 | 4,72 | 4,70 | 4,72 |
| | U | W/W | 4,48 | 4,52 | 4,54 | 4,56 | 4,58 | 4,69 | 4,70 | 4,71 | 4,68 | 4,64 | 4,64 |
| | 0 | % | 171.1% | 170.0% | 167.1% | 168.5% | 163.1% | 165.8% | - (3) | - (3) | - (3) | - (3) | - (3) |
| | A | % | 174.0% | 174.8% | 174.8% | 175.1% | 175.9% | 180.8% | 182.2% | 182.3% | 182.1% | 179.6% | 180.2% |
| | E | % | 177.5% | 180.1% | 179.4% | 179.6% | 180.6% | 183.4% | 183.9% | 184.8% | 184.0% | 182.8% | 183.4% |
| Seasonal efficiency | | % | 172.6% | 172.4% | 175.7% | 174.6% | 174.2% | 181.3% | 181.0% | 181.8% | 181.8% | 179.9% | 180.7% |
| | N | % | 179.9% | 181.7% | 184.4% | 183.7% | 184.0% | 187.5% | 188.0% | 187.0% | 185.9% | 184.8% | 185.6% |
| | U | % | 176.3% | 177.7% | 178.5% | 179.2% | 180.1% | 184.7% | 184.8% | 185.5% | 184.2% | 182.4% | 182.4% |
| SEER - 23/18 (EN14825: 2018) (2) | | 70 | 17 015 70 | | 17 013 70 | , | 1001170 | 10 117 70 | 10 110 70 | 1031370 | 10 112/0 | 1021170 | |
| | 0 | W/W | 4,97 | 4,87 | 4,77 | 4,81 | 4,65 | 4,71 | 4,85 | 4,98 | 4,90 | 4,89 | 4,86 |
| | A | W/W | 5,08 | 5,04 | 5,07 | 5,02 | 4,98 | 5,13 | 5,18 | 5,20 | 5,17 | 5,06 | 5,12 |
| | E | W/W | 5,18 | 5,22 | 5,17 | 5,15 | 5,14 | 5,29 | 5,23 | 5,26 | 5,15 | 5,20 | 5,26 |
| SEER | | W/W | 5,06 | 4,98 | 5,05 | 4,97 | 4,92 | 5,12 | 5,15 | 5,13 | 5,10 | 5,03 | 5,15 |
| | N N | W/W | 5,25 | 5,30 | 5,33 | 5,28 | 5,28 | 5,38 | 5,37 | 5,33 | 5,24 | 5,29 | 5,36 |
| | U | W/W | 5,19 | 5,23 | 5,19 | 5,17 | 5,20 | 5,33 | 5,28 | 5,32 | 5,24 | 5,26 | 5,32 |
| | 0 | % | 195,9% | 191,9% | 187,8% | 189,3% | 183,1% | 185,6% | 191,2% | 196,2% | 192,8% | 192,7% | 191,3% |
| | A | % | 200,4% | 198,5% | 199,9% | 197,9% | 196,0% | 202,0% | 204,3% | 204,9% | 203,7% | 199,5% | 201,8% |
| | A | | 200,4% | 206,0% | 203,6% | 202,9% | 202,7% | 202,0% | 204,3% | 204,9% | 203,7% | 205,0% | 207,4% |
| Seasonal efficiency | L | | 199,3% | 196,3% | 199,1% | 196,0% | 193,8% | 200,5% | 203,0% | 202,3% | 200,9% | 198,2% | 207,4% |
| | L N | | 207,1% | 209,1% | | | | 212,1% | | 210,3% | 200,9% | 208,7% | |
| | NU | | | | 210,4% | 208,2% | 208,4% | | 211,8% | | | | 211,4% |
| (1) Calandation marks and with FIVED water | | /ADIADI F | 204,7% | 206,1% | 204,6% | 204,0% | 205,0% | 210,2% | 208,4% | 209,8% | 206,4% | 207,4% | 209,8% |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|
| Fans: J | | | | | | | | | | | | | |
| SEPR - (EN 14825: 2018) (1) | | | | | | | | | | | | | |
| | 0 | W/W | 5,84 | 5,73 | 5,82 | 5,67 | 5,95 | 6,14 | 6,27 | 6,31 | 6,09 | 6,12 | 6,30 |
| | A | W/W | 6,12 | 6,09 | 6,21 | 6,13 | 6,12 | 6,35 | 6,41 | 6,46 | 6,38 | 6,45 | 6,48 |
| CEDD | E | W/W | 6,24 | 6,26 | 6,28 | 6,23 | 6,14 | 6,72 | 6,72 | 6,78 | 6,73 | 6,64 | 6,62 |
| SEPR | L | W/W | 6,10 | 6,05 | 6,16 | 6,08 | 5,87 | 6,54 | 6,44 | 6,56 | 6,54 | 6,50 | 6,43 |
| | N | W/W | 6,36 | 6,35 | 6,37 | 6,38 | 6,43 | 6,82 | 6,80 | 6,93 | 6,85 | 6,78 | 6,71 |
| | U | W/W | 6,38 | 6,36 | 6,36 | 6,25 | 6,30 | 6,55 | 6,63 | 6,55 | 6,50 | 6,59 | 6,64 |
| Fans: M | | | | | | | | | | | | | |
| SEPR - (EN 14825: 2018) (1) | | | | | | | | | | | | | |
| | 0 | W/W | 5,68 | 5,58 | 5,70 | 5,58 | 5,60 | 5,96 | 5,95 | 6,10 | 5,92 | 5,97 | 6,07 |
| | A | W/W | 5,79 | 5,78 | 5,93 | 5,95 | 5,87 | 6,34 | 6,27 | 6,33 | 6,32 | 6,30 | 6,31 |
| CEDD | E | W/W | 5,94 | 5,94 | 6,04 | 6,00 | 5,89 | 6,41 | 6,41 | 6,47 | 6,44 | 6,36 | 6,42 |
| SEPR | L | W/W | 5,85 | 5,77 | 5,93 | 5,84 | 5,63 | 6,29 | 6,29 | 6,35 | 6,28 | 6,26 | 6,21 |
| | N | W/W | 6,03 | 6,02 | 6,12 | 6,13 | 6,17 | 6,49 | 6,50 | 6,60 | 6,52 | 6,50 | 6,49 |
| | U | W/W | 6,04 | 6,05 | 6,04 | 6,02 | 6,07 | 6,49 | 6,50 | 6,41 | 6,37 | 6,42 | 6,46 |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----------------------|-------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | |
| | 0 | Α | 158,2 | 176,5 | 198,8 | 226,7 | 262,4 | 290,3 | 318,1 | 371,7 | 417,5 | 445,4 | 481,1 |
| Maximum aumant (FLA) | A,L | Α | 162,2 | 180,5 | 200,6 | 228,5 | 256,4 | 290,1 | 317,9 | 369,5 | 415,3 | 449,0 | 476,9 |
| Maximum current (FLA) | E,U | Α | 164,0 | 182,3 | 200,6 | 234,3 | 262,2 | 295,9 | 323,7 | 375,3 | 426,9 | 454,8 | 488,5 |
| | N | Α | 169,8 | 188,1 | 206,4 | 240,1 | 268,0 | 295,9 | 329,5 | 381,1 | 432,7 | 460,6 | 494,3 |
| Peak current (LRA) | °,A,E,L,N,U | Α | 350,0 | 406,1 | 424,4 | 673,4 | 701,3 | 729,2 | 757,0 | 802,9 | 848,7 | 876,5 | 904,4 |

[■] Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

Compressors

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|--------------------------------|-------------|------|------|------|------|------|------|-------------------------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | Scroll | | | | | |
| Compressor regulation | °,A,E,L,N,U | Туре | | | | | | 0n/0ff | | | | | |
| Number | °,A,E,L,N,U | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | | R32 | | | | | |
| | 0 | kg | 10,5 | 10,9 | 11,3 | 12,0 | 15,4 | 15,8 | 15,8 | 20,6 | 20,6 | 20,6 | 24,4 |
| D. C | A,L | kg | 11,3 | 12,0 | 15,0 | 16,5 | 15,8 | 16,9 | 18,4 | 20,6 | 24,0 | 24,4 | 26,3 |
| Refrigerant load circuit 1 (1) | E,U | kg | 15,4 | 15,0 | 16,1 | 19,9 | 19,9 | 19,9 | 23,3 | 25,9 | 28,1 | 33,8 | 30,8 |
| | N | kg | 19,5 | 19,5 | 20,3 | 22,1 | 26,3 | 26,3 | 30,8 | 30,0 | 37,5 | 34,1 | 34,1 |
| | 0 | kg | 10,5 | 10,9 | 11,3 | 12,0 | 15,4 | 15,8 | 15,8 | 20,6 | 20,6 | 20,6 | 24,4 |
| D. C | A,L | kg | 11,3 | 12,0 | 15,0 | 16,5 | 15,8 | 16,9 | 18,4 | 20,6 | 24,0 | 24,4 | 26,3 |
| Refrigerant load circuit 2 (1) | E,U | kg | 15,4 | 15,0 | 16,1 | 19,9 | 19,9 | 19,9 | 23,3 | 25,9 | 28,1 | 33,8 | 30,8 |
| | N | kg | 19,5 | 19,5 | 20,3 | 22,1 | 26,3 | 26,3 | 30,8 | 30,0 | 37,5 | 34,1 | 34,1 |
| Potential global heating | °,A,E,L,N,U | GWP | | | • | | | 675kgCO ₂ eq | | • | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

System side heat exchanger

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----------------------------|-------------|------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|
| System side heat exchanger | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | Brazed plate | Brazed plate | Brazed plate | Brazed plate | Brazed plate | Brazed plate |
| Number | °,A,E,L,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L,N,U | Туре | | | | | | Grooved joints | ; | | | | |
| | ٥ | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" |
| Sizes (in/out) | A,L | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 5" | 5" |
| | E,N,U | Ø | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" |

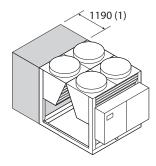
In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

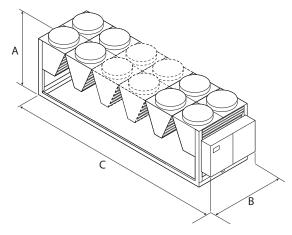
Fans

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|---|--|---|---|---|--|--|---|--|--|--|--|--|--|
| Fans: M | | | | | | | | | | | | | |
| Increased fan | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | axials | | | | | |
| Fan motor | °,A,U | type | | | | | | Asynchronous | | | | | |
| rali illotoi | E,L,N | type | | | | | Asynchi | ronous with ph | ase cut | | | | |
| | | no. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 |
| Number | A,L | no. | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 |
| Nulliper | E,U | no. | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 16 |
| | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 16 | 16 | 18 |
| Without Static pressure | | | | | | | | | | | | | |
| | • | m³/h | 76740 | 76740 | 76744 | 76744 | 115121 | 115121 | 115121 | 153480 | 153480 | 153480 | 191819 |
| | A | m³/h | 76743 | 76743 | 115110 | 115110 | 115110 | 153480 | 153480 | 191850 | 191850 | 230220 | 230220 |
| Air flow rate | E | m³/h | 74973 | 74973 | 74973 | 99978 | 99978 | 124970 | 124970 | 149950 | 174934 | 174934 | 199932 |
| All How late | L | m³/h | 62605 | 62605 | 74978 | 74978 | 74978 | 99996 | 99996 | 124953 | 124953 | 149882 | 149882 |
| | N | m³/h | 99973 | 99973 | 99973 | 124966 | 124966 | 124966 | 149960 | 174953 | 199946 | 199946 | 224939 |
| | U | m³/h | 115110 | 115110 | 115110 | 153480 | 153480 | 191850 | 191850 | 230220 | 268590 | 268590 | 306960 |
| | | dB(A) | 89,2 | 89,2 | 90,5 | 90,6 | 92,4 | 92,5 | 92,6 | 93,7 | 93,8 | 93,8 | 94,8 |
| | A | dB(A) | 90,5 | 90,5 | 90,5 | 90,8 | 91,1 | 92,0 | 92,3 | 93,1 | 93,4 | 94,2 | 94,3 |
| Sound power level | E | dB(A) | 84,4 | 84,5 | 84,5 | 85,8 | 86,5 | 87,6 | 88,1 | 88,6 | 89,0 | 89,7 | 90,2 |
| Soulid power level | L | dB(A) | 85,1 | 85,1 | 84,5 | 85,1 | 85,4 | 86,6 | 87,2 | 87,7 | 88,4 | 89,1 | 89,5 |
| | N | dB(A) | 85,3 | 85,4 | 85,4 | 86,9 | 87,5 | 88,1 | 89,0 | 89,4 | 89,8 | 90,5 | 91,0 |
| | U | dB(A) | 90,8 | 90,8 | 90,8 | 92,2 | 92,4 | 93,5 | 93,6 | 94,3 | 94,9 | 95,0 | 95,6 |
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| Fans: J | | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | | |
| Туре | CAFLMIII | | | | | | | | | | | | |
| | °,A,E,L,N,U | type | | | | | | Axial | | | | | |
| Fan motor | °,A,E,L,N,U °,A,E,L,N,U | type type | | | | | | Axial Inverter | | | | | |
| Fan motor | | | 4 | 4 | 4 | 4 | 6 | | 6 | 8 | 8 | 8 | 10 |
| | °,A,E,L,N,U | type | 4 | 4 4 | 4 6 | 4 6 | 6 | Inverter | 6 8 | 8 10 | 8 10 | 8 12 | 10 12 |
| | °,A,E,L,N,U | type no. | | | | | | Inverter 6 | | | | | |
| | °,A,E,L,N,U ° A,L E,U N | type no. no. no. | 4 | 4 | 6 | 6 | 6 | Inverter 6 8 | 8 | 10 | 10 | 12 | 12 |
| | °,A,E,L,N,U | type no. no. no. no. mo. mo. | 4 6 | 4 6 | 6 | 6 8 | 6 8 | Inverter 6 8 10 | 8 10 | 10 12 | 10 14 | 12 14 | 12 16 |
| | °,A,E,L,N,U ° A,L E,U N | type no. no. no. no. m³/h m³/h | 4 6 8 | 4 6 8 | 6 6 8 | 6 8 10 | 6 8 10 | 6 8 10 10 | 8 10 12 | 10 12 14 | 10 14 16 | 12 14 16 | 12 16 18 |
| Number | °,A,E,L,N,U ° A,L E,U N ° | type no. no. no. no. m³/h m³/h | 4 6 8 65555 | 4 6 8 65555 | 6 6 8 76744 | 6 8 10 76744 | 6 8 10 115121 | Inverter 6 8 10 10 115121 131111 124970 | 8 10 12 115121 | 10 12 14 153480 | 10 14 16 153480 | 12 14 16 153480 196572 174934 | 12 16 18 191819 |
| Number | °,A,E,L,N,U ° A,L E,U N ° | type no. no. no. no. m³/h m³/h m³/h m³/h | 4 6 8 65555 76743 | 4 6 8 65555 76743 | 6 6 8 76744 98321 | 6 8 10 76744 98321 | 6 8 10 115121 98321 | 10 10 115121 131111 | 8 10 12 115121 131087 | 10 12 14 153480 163789 | 10 14 16 153480 163789 | 12 14 16 153480 196572 | 12 16 18 191819 196572 |
| Number | A,L E,U N A E L | type no. no. no. mo. m³/h m³/h m³/h m³/h | 4 6 8 65555 76743 74973 | 4 6 8 65555 76743 74973 | 6 8 76744 98321 74973 | 6 8 10 76744 98321 99978 | 6 8 10 115121 98321 99978 | Inverter 6 8 10 10 115121 131111 124970 | 8 10 12 115121 131087 124970 | 10 12 14 153480 163789 149950 | 10 14 16 153480 163789 174934 | 12 14 16 153480 196572 174934 | 12 16 18 191819 196572 199932 |
| Number | *,A,E,L,N,U A,L E,U N A E | type no. no. no. no. m³/h m³/h m³/h m³/h | 4 6 8 65555 76743 74973 62605 | 4 6 8 65555 76743 74973 62605 | 6 8 76744 98321 74973 74978 | 6 8 10 76744 98321 99978 74978 | 6 8 10 115121 98321 99978 74978 | 10 10 115121 131111 124970 99996 | 8 10 12 115121 131087 124970 99996 | 10 12 14 153480 163789 149950 124953 | 10 14 16 153480 163789 174934 124953 | 12 14 16 153480 196572 174934 149882 | 12 16 18 191819 196572 199932 149882 |
| Number Air flow rate | *A,E,L,N,U A,L E,U N A E U | type no. no. no. no. m³/h m³/h m³/h m³/h m³/h | 4 6 8 65555 76743 74973 62605 99973 | 4 6 8 65555 76743 74973 62605 99973 | 6 8 76744 98321 74973 74978 99973 | 6 8 10 76744 98321 99978 74978 124966 131139 | 6 8 10 115121 98321 99978 74978 124966 | 10 10 115121 131111 124970 99996 124966 | 8 10 12 115121 131087 124970 99996 149960 | 10 12 14 153480 163789 149950 124953 174953 | 10 14 16 153480 163789 174934 124953 199946 | 12 14 16 153480 196572 174934 149882 199946 | 12 16 18 191819 196572 199932 149882 224939 262164 |
| Number Air flow rate | *A,E,L,N,U A,L E,U N A E L N U | type no. no. no. mo. m³/h m³/h m³/h m³/h | 4 6 8 65555 76743 74973 62605 99973 | 4 6 8 65555 76743 74973 62605 99973 | 6 8 76744 98321 74973 74978 99973 | 6 8 10 76744 98321 99978 74978 124966 | 6 8 10 115121 98321 99978 74978 124966 | 10 10 115121 131111 124970 99996 124966 | 8 10 12 115121 131087 124970 99996 149960 | 10 12 14 153480 163789 149950 124953 174953 | 10 14 16 153480 163789 174934 124953 199946 | 12 14 16 153480 196572 174934 149882 199946 | 12 16 18 191819 196572 199932 149882 224939 |
| Number Air flow rate | *A,E,L,N,U A,L E,U N A E U | type no. no. no. no. m³/h m³/h m³/h m³/h m³/h dB(A) | 4 6 8 65555 76743 74973 62605 99973 98320 | 4 6 8 65555 76743 74973 62605 99973 98320 87,1 91,7 | 6 8 76744 98321 74973 74978 99973 98320 | 6 8 10 76744 98321 99978 74978 124966 131139 | 6 8 10 115121 98321 99978 74978 124966 131139 | Inverter 6 8 10 10 115121 131111 124970 99996 124966 163815 | 8 10 12 115121 131087 124970 99996 149960 163815 | 10 12 14 153480 163789 149950 124953 174953 196680 | 10 14 16 153480 163789 174934 124953 199946 229462 | 12 14 16 153480 196572 174934 149882 199946 229462 | 12 16 18 191819 196572 199932 149882 224939 262164 |
| Fan motor Number Air flow rate Sound data calculated in cooling mode | *A,E,L,N,U A,L E,U N A E U (1) | type no. no. no. no. m³/h m³/h m³/h m³/h dB(A) | 4 6 8 65555 76743 74973 62605 99973 98320 | 4 6 8 65555 76743 74973 62605 99973 98320 | 6 8 76744 98321 74973 74978 99973 98320 | 6 8 10 76744 98321 99978 74978 124966 131139 | 6 8 10 115121 98321 99978 74978 124966 131139 | Inverter 6 8 10 10 115121 131111 124970 99996 124966 163815 | 8 10 12 115121 131087 124970 99996 149960 163815 | 10 12 14 153480 163789 149950 124953 174953 196680 | 10 14 16 153480 163789 174934 124953 199946 229462 | 12 14 16 153480 196572 174934 149882 199946 229462 | 12 16 18 191819 196572 199932 149882 224939 262164 95,9 92,5 90,2 |
| Number Air flow rate | *A,E,L,N,U A,L E,U N A E U (1) | type no. no. no. no. m³/h m³/h m³/h m³/h m³/h dB(A) | 4 6 8 65555 76743 74973 62605 99973 98320 87,1 91,7 | 4 6 8 65555 76743 74973 62605 99973 98320 87,1 91,7 | 6 8 76744 98321 74973 74978 99973 98320 | 6 8 10 76744 98321 99978 74978 124966 131139 91,8 88,7 | 6 8 10 115121 98321 99978 74978 124966 131139 | Inverter 6 8 10 10 115121 131111 124970 99996 124966 163815 | 8 10 12 115121 131087 124970 99996 149960 163815 | 10 12 14 153480 163789 149950 124953 174953 196680 | 10 14 16 153480 163789 174934 124953 199946 229462 | 12 14 16 153480 196572 174934 149882 199946 229462 | 12 16 18 191819 196572 199932 149882 224939 262164 |
| Number Air flow rate Sound data calculated in cooling mode | *A,E,L,N,U A,L E,U N A E U (1) | type no. no. no. no. m³/h m³/h m³/h m³/h m³/h dB(A) dB(A) | 4 6 8 65555 76743 74973 62605 99973 98320 87,1 91,7 | 4 6 8 65555 76743 74973 62605 99973 98320 87,1 91,7 84,5 | 6 8 76744 98321 74973 74978 99973 98320 91,7 88,1 84,5 | 6 8 10 76744 98321 99978 74978 124966 131139 91,8 88,7 85,8 | 6 8 10 115121 98321 99978 74978 124966 131139 93,6 89,2 86,5 | Inverter 6 8 10 10 115121 131111 124970 99996 124966 163815 93,7 89,9 87,6 | 8 10 12 115121 131087 124970 99996 149960 163815 93,8 90,2 88,1 | 10 12 14 153480 163789 149950 124953 174953 196680 94,9 90,9 88,6 | 10 14 16 153480 163789 174934 124953 199946 229462 94,9 91,5 | 12 14 16 153480 196572 174934 149882 199946 229462 95,0 92,3 89,7 | 12 16 18 191819 196572 199932 149882 224939 262164 95,9 92,5 90,2 |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS





(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes: NRG 0800°, 0900°, 1000°, 1100° NRG 0800L, 0900L NRG 0800A, 0900A

| Ci | | | 0000 | 0000 | 1000 | 1100 | 1200 | 1400 | 1/00 | 1000 | 2000 | 2200 | 2400 |
|--------------------------|-------------|----|------|------|------|------|------|------|------|------|------|------|-------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| Integrated hydronic kit: | 00 | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | |
| A | °,A,E,L,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | ٥ | mm | 2780 | 2780 | 2780 | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 |
| (| A,L | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 6350 | 6350 | 7540 | 7540 |
| · · | E,U | mm | 3970 | 3970 | 3970 | 5160 | 5160 | 6350 | 6350 | 7540 | 8730 | 8730 | 9920 |
| | N | mm | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7540 | 8730 | 9920 | 9920 | 11110 |

■ The units 0800°, 0900°, 1000°, 1100°; 0800L, 0900L; and 0800A, 0900A with the "storage tank" option, are 3970mm long.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | |
| | 0 | kg | 2140 | 2140 | 2150 | 2150 | 2850 | 2960 | 3180 | 3830 | 4030 | 4210 | 4740 |
| - - | A,L | kg | 2160 | 2160 | 2580 | 2730 | 2870 | 3440 | 3650 | 4250 | 4460 | 4960 | 5070 |
| Empty weight - | E,U | kg | 2580 | 2590 | 2600 | 3220 | 3430 | 3930 | 4070 | 4660 | 4960 | 5400 | 5990 |
| | N | kg | 3050 | 3070 | 3080 | 3630 | 3850 | 3990 | 4470 | 5110 | 5750 | 5880 | 6370 |



















NRG 0800H-3600H

Reversible air/water heat pump

Cooling capacity 194,9 ÷ 962,3 kW Heating capacity 209,6 ÷ 991,9 kW



- · High efficiency also at partial loads
- · Reduced amount of refrigerant
- Night mode





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -15 $^{\circ}$ C outside air temperature in winter, and up to 49 $^{\circ}$ C in summer. Hot water production up to 60 $^{\circ}$ C (for more details refer to the technical documentation).

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO_2 values.

■ The leak detector is supplied as per standard.

Use refrigerant fluid R32, whose classification according to ISO 817 is A2L (non-toxic, odourless and slightly flammable refrigerant).

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed pumps also inverter.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with an inverter fan or DCPX. Thanks to continuous fan modulation, unit operation is optimised in every working position in cooling mode. The result is enhanced machine energy efficiency with partial loads.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

INTEGRATED SOLUTION

The "integrated solution" concept has been implemented in the system architecture, consisting in an integrated and streamlined control of compressors and electronic valve.

This solution allowed a variety of new features to be introduced, such as:

 Low Superheat Control: Progressive superheating reduction in conditions of stability. This allows to increase energy performance: both in modulation and in full load conditions; DLT control: Control of electronic valve at discharge temperature in certain operating conditions. This is demonstrated in an enhanced reliability of the control and a considerable expansion of the machine's operating range, especially in heating mode.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E,L | • | • | • | • | | • | | | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E,L | • | • | | | | • | | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L | • | • | | | | | | • | • | • | • | • | • | • | • | • | • |
| FL | °,A,E,L | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,A,E,L | • | • | | | | • | | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E,L | • | | | | | | | • | • | • | • | • | • | • | | | • |

Condensation control temperature

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | DCPX161 | DCPX161 | DCPX161 | DCPX163 | DCPX163 | DCPX163 | DCPX163 | DCPX165 | DCPX167 | DCPX167 | DCPX167 | DCPX174 | DCPX174 | DCPX175 | DCPX175 | DCPX175 | DCPX175 |
| A | DCPX161 | DCPX163 | DCPX163 | DCPX163 | DCPX165 | DCPX165 | DCPX165 | DCPX167 | DCPX167 | DCPX169 | DCPX169 | DCPX174 | DCPX175 | DCPX175 | DCPX175 | DCPX176 | DCPX176 |
| E1 | As |
| E,L | standard |

Antivibration

| 7 III CI TI CI CI CI CI | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------|--------------|---------------|---------------|---------------|-----------------|---------------|---------------|----------------|---------------|--------------|--------------|------------|---------|---------|---------|---------|
| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | AVX1151 | AVX1151 | AVX1151 | AVX1153 | AVX1153 | AVX1153 | AVX1153 | AVX1154 | AVX1163 | AVX1163 | AVX1163 | AVX1167 | AVX1167 | AVX1171 | AVX1171 | AVX1171 | AVX1171 |
| A,L | AVX1151 | AVX1153 | AVX1153 | AVX1153 | AVX1154 | AVX1154 | AVX1154 | AVX1156 | AVX1156 | AVX1159 | AVX1159 | AVX1167 | AVX1171 | AVX1171 | AVX1171 | AVX1169 | AVX1169 |
| E | AVX1153 | AVX1154 | AVX1154 | AVX1154 | AVX1156 | AVX1156 | AVX1159 | AVX1161 | AVX1161 | AVX1165 | AVX1165 | AVX1169 | AVX1173 | AVX1173 | AVX1173 | AVX1175 | AVX1175 |
| Integrated hydronic kit: AA, A | B, AC, AD, A | E, AF, AG, I | AH, AI, AJ, I | BA, BB, BC, | BD, BE, BI | , BG, BH, E | SI, BJ, CA, C | B, CC, CD, (| CE, CF, CG, C | CH, CI, CJ, K | A, KB, KC, | KD, KE, KF, | KG, KH, KI | , KJ | | | |
| 0 | AVX1152 | AVX1152 | AVX1152 | AVX1152 | AVX1152 | AVX1152 | AVX1152 | AVX1155 | AVX1157 | AVX1157 | AVX1157 | AVX1168 | AVX1168 | AVX1172 | AVX1172 | AVX1172 | AVX1172 |
| A,L | AVX1152 | AVX1152 | AVX1152 | AVX1152 | AVX1155 | AVX1155 | AVX1155 | AVX1157 | AVX1157 | AVX1160 | AVX1160 | AVX1168 | AVX1172 | AVX1172 | AVX1172 | AVX1170 | AVX1170 |
| E | AVX1152 | AVX1155 | AVX1155 | AVX1155 | AVX1157 | AVX1157 | AVX1160 | AVX1162 | AVX1162 | AVX1166 | AVX1166 | AVX1170 | AVX1174 | AVX1174 | AVX1174 | AVX1176 | AVX1176 |
| Integrated hydronic kit: DA, D | B, DC, DD, [| DE, DF, DG, | DH, DI, DJ, | IA, IB, IC, I | D, IE, IF, IG | , IH, II, IJ, . | JA, JB, JC, J | D, JE, JF, JG | i, JH, JI, JJ, | PA, PB, PC | , PD, PE, PI | F, PG, PH, F | PI, PJ | | | | |
| 0 | AVX1151 | AVX1151 | AVX1151 | AVX1153 | AVX1153 | AVX1153 | AVX1153 | AVX1154 | AVX1163 | AVX1163 | AVX1163 | AVX1167 | AVX1167 | AVX1171 | AVX1171 | AVX1171 | AVX1171 |
| A,L | AVX1151 | AVX1153 | AVX1153 | AVX1153 | AVX1154 | AVX1154 | AVX1158 | AVX1156 | AVX1156 | AVX1164 | AVX1164 | AVX1167 | AVX1171 | AVX1171 | AVX1171 | AVX1169 | AVX1169 |
| E | AVX1153 | AVX1154 | AVX1154 | AVX1154 | AVX1156 | AVX1156 | AVX1159 | AVX1161 | AVX1161 | AVX1165 | AVX1165 | AVX1169 | AVX1173 | AVX1173 | AVX1173 | AVX1175 | AVX1175 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| °,A,E,L | DRENRG0800 | DRENRG0900 | DRENRG1000 | DRENRG1100 | DRENRG1200 | DRENRG1400 | DRENRG1600 | DRENRG1800 | DRENRG2000 |
| A grey background indicates the accessory | / must be assembled in t | ne factory | | | | | | | |
| Ver | 2200 | 2400 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |
| °,A,E,L | DRENRG2200 | DRENRG2400 | DRENRG2600 | D DRENRG2 | 800 DRE | NRG3000 | DRENRG3200 | DRENRG3400 | DRENRG3600 |

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1000 | 1800 | 2000 |
|---|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| °,A,E,L | RIFNRG0800 | RIFNRG0900 | RIFNRG1000 | RIFNRG1100 | RIFNRG1200 | RIFNRG1400 | RIFNRG1600 | RIFNRG1800 | RIFNRG2000 |
| A grey background indicates the accessory n | nust be assembled in 1 | he factory | | | | | | | |
| Ver | 2200 | 2400 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |

 Ver
 2200
 2400
 2600
 2800
 3000
 3200
 3400
 3600

 °;A,E,L
 RIFNRG200
 RIFNRG2400
 RIFNRG2600
 RIFNRG3000
 RIFNRG3200
 RIFNRG3400
 RIFNRG3600

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 0 | GP2VN | GP2VN | GP2VN | GP3G | GP3G | GP3G | GP3G | GP4G | GP5G | GP5G | GP5G | GP11G | GP10G | GP12G | GP12G | GP12G | GP12G |
| A,L | GP2VN | GP3G | GP3G | GP3G | GP4GM | GP4GM | GP4GM | GP5G | GP5G | GP6G | GP6G | GP11G | GP12G | GP12G | GP12G | GP13G | GP13G |
| E | GP3G | GP4GM | GP4GM | GP4GM | GP5GM | GP5GM | GP6G | GP7G | GP7G | GP8G | GP8G | GP13G | GP14G | GP14G | GP14G | GP15G | GP15G |

A grey background indicates the accessory must be assembled in the factory $\,$

■ GP2VN becomes GP2VNA if configured with a type A or B hydronic kit

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|------------|----------|-----------|----------|-------------|------------|-----------|-----------|-----------|
| °AFI | TANRGI S1 | T6NRGI S1 | TANRGI S1 | TANRGI S1 | T6NRGI S1 | T6NRGI S1 | TANRGI S1 | TANRGI S | 2 TANRGI S | TANRGI S | TANRGI S3 | TANRGI S | R TANRGI SA | 4 TANRGI S | TANRGI SS | TANRGI SS | TANRGI SS |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

CONFIGURATOR

| Fiel | d | Description |
|------|----------|--|
| 1,2, | 3 | NRG |
| | | Size |
| 4,5, | 6,7 | 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800 3000, 3200, 3400, 3600 |
| 8 | | Operating field |
| | Х | Electronic thermostatic expansion valve (1) |
| | Z | Low temperature electronic thermostatic valve (2) |
| 9 | | Model |
| | Н | Heat pump |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (3) |
| 11 | 0 | Version |
| | | Standard |
| | Α | High efficiency |
| | <u>E</u> | Silenced high efficiency |
| | L | Standard silenced |
| 12 | | Coils |
| | 0 | Copper-aluminium - |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | V | Copper pieps-Coated aluminium fins |
| 13 | 0 | Fans |
| | | Standard |
| | J | Inverter |
| 14 | 0 | Power supply |
| | | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,1 | | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (4) |
| | | Pump n° 1 pump + stand-by pump |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| | DF | Pump F + stand-by pump |
| | DG | Pump G + stand-by pump |
| | DH | Pump H + stand-by pump |
| | DI | Pump I + stand-by pump |
| | DJ | Pump J + stand-by pump (4) |
| | ۸۸ | Kit with storage tank and n° 1 pump Storage tank and pump A |
| | AA AR | |
| | AB | Storage tank and pump 6 |
| | AC | Storage tank and pump C |
| | AD | Storage tank and pump D |
| | AΕ | Storage tank and pump E |
| | AF | Storage tank and pump F |
| | AG | Storage tank and pump G |
| | | |
| | АН | Storage tank and pump H |
| | AH Al | Storage tank and pump I |
| | АН | |

| Field | Description |
|-------|---|
| BB | Storage tank with pump B + stand-by pump |
| ВС | Storage tank with pump C + stand-by pump |
| BD | Storage tank with pump D + stand-by pump |
| BE | Storage tank with pump E + stand-by pump |
| BF | Storage tank with pump F + stand-by pump |
| BG | Storage tank with pump G + stand-by pump |
| BH | Storage tank with pump H + stand-by pump |
| BI | Storage tank with pump I + stand-by pump |
| BJ | Storage tank with pump J + stand-by pump (4) |
| | Kit with n° 1 inverter pump to fixed speed |
| IA | Pump A equipped with inverter device to work at fixed speed |
| IB | Pump B equipped with inverter device to work at fixed speed |
| IC | Pump C equipped with inverter device to work at fixed speedr |
| ID ID | Pump D equipped with inverter device to work at fixed speed |
| IE | Pump E equipped with inverter device to work at fixed speed |
| IF. | Pump F equipped with inverter device to work at fixed speed (5) |
| IG | Pump G equipped with inverter device to work at fixed speed (5) |
| — IH | Pump H equipped with inverter device to work at fixed speed (5) |
| | Pump I equipped with inverter device to work at fixed speed (5) |
| | Pump J equipped with inverter device to work at fixed speed (6) |
| | Kit with n° 1 inverter pump + stand-by pump to fixed speed |
| JA | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| JB | Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| JC | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| JD | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| JE | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| JE | Pump F+stand-by pump, both equipped with inverter to work at fixed speed (5) |
| JG | Pump G+stand-by pump, both equipped with inverter to work at fixed speed (5) |
| JH | Pump H+stand-by pump, both equipped with inverter to work at fixed speed (5) |
| | Pump I+stand-by pump, both equipped with inverter to work at fixed speed (5) |
| | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (6) |
| | Kit with storage tank and n° 1 inverter pump to fixed speed |
| CA | Buffer tank + pump A, equipped with inverter to work at fixed speed |
| СВ | Buffer tank + pump B, equipped with inverter to work at fixed speed |
| СС | Buffer tank + pump C, equipped with inverter to work at fixed speed |
| CD | Buffer tank + pump D, equipped with inverter to work at fixed speed |
| EC | Buffer tank + pump E, equipped with inverter to work at fixed speed |
| CF | Buffer tank + pump F, equipped with inverter to work at fixed speed (5) |
| CG | Buffer tank + pump G, equipped with inverter to work at fixed speed (5) |
| CH | Buffer tank + pump H, equipped with inverter to work at fixed speed (5) |
| CI | Buffer tank + pump I, equipped with inverter to work at fixed speed (5) |
| CJ | Buffer tank + pump J, equipped with inverter to work at fixed speed (6) |
| | Kit with storage tank and n° 1 pump + stand-by pump to fixed speed |
| KA | Buffer tank+pump A+stand-by pump, both with inverter to work at fixed speed |
| KB | Buffer tank+pump B+stand-by pump, both with inverter to work at fixed speed |
| KC | Buffer tank+pump C+stand-by pump, both with inverter to work at fixed speed |
| KD | Buffer tank+pump D+stand-by pump, both with inverter to work at fixed speed |
| KE | Buffer tank+pump E+stand-by pump, both with inverter to work at fixed speed |
| KF | Buffer tank+pump F+stand-by pump, both with inverter to work at fixed speed (5) |
| KG | Buffer tank+pump G+stand-by pump, both with inverter to work at fixed speed (5) |
| KH | Buffer tank+pump H+stand-by pump, both with inverter to work at fixed speed (5) |
| KI | Buffer tank+pump I+stand-by pump, both with inverter to work at fixed speed (5) |
| KJ | Buffer tank+pump J+stand-by pump, both with inverter to work at fixed speed (6) |
| | |

- (1) Water produced from 4 °C ÷ 20 °C
 (2) Water produced from 8 °C ÷ -10 °C
 (3) This option is not available with the Z operating field. The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 (4) For all configurations including pump J please contact the factory.
 (5) Hydronic kit not available with sizes 0800 version °/L/A, 0900 version °, 1000 version °, 1800 version °.
 (6) For all possible configurations which include the "J" pump please be in touch with Aermec. Hydronic kit is not available with sizes 0800 version °/L/A, 0900 version °, 1000 version °, 1800 version °.

PERFORMANCE SPECIFICATIONS

NRG H°

| | 0800 | 0900 | 4000 | | | | | | | | | | | | | | |
|-----|----------------------------------|---|--|---|---|--|---|--|--|---|---|---|---|---|--|---|---|
| | 0000 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| | | | | | | | | | | | | | | | | | |
| kW | 200,5 | 220,2 | 238,5 | 292,2 | 325,7 | 353,6 | 381,6 | 456,8 | 531,9 | 561,5 | 591,1 | 705,6 | 749,2 | 824,6 | 859,3 | 895,1 | 925,3 |
| kW | 72,8 | 83,7 | 95,6 | 107,5 | 123,5 | 144,5 | 160,8 | 179,5 | 199,4 | 219,3 | 239,1 | 249,8 | 277,9 | 299,4 | 317,7 | 334,1 | 354,4 |
| Α | 127,0 | 144,0 | 163,0 | 182,0 | 207,0 | 238,0 | 268,0 | 300,0 | 333,0 | 362,0 | 391,0 | 424,0 | 485,0 | 506,0 | 527,0 | 567,0 | 597,0 |
| W/W | 2,75 | 2,63 | 2,49 | 2,72 | 2,64 | 2,45 | 2,37 | 2,55 | 2,67 | 2,56 | 2,47 | 2,83 | 2,70 | 2,75 | 2,70 | 2,68 | 2,61 |
| l/h | 34503 | 37880 | 41031 | 50268 | 56029 | 60821 | 65615 | 78560 | 91483 | 96570 | 101650 | 121347 | 128839 | 141815 | 147773 | 153929 | 159128 |
| kPa | 25 | 30 | 35 | 45 | 45 | 47 | 29 | 42 | 50 | 49 | 47 | 53 | 60 | 69 | 73 | 75 | 79 |
| | | | | | | | | | | | | | | | | | |
| kW | 212,2 | 235,2 | 256,2 | 310,2 | 348,1 | 384,0 | 416,2 | 492,2 | 568,3 | 603,5 | 638,4 | 729,6 | 782,6 | 858,4 | 896,3 | 931,7 | 966,8 |
| kW | 66,1 | 73,5 | 80,8 | 98,1 | 109,5 | 123,5 | 129,7 | 153,3 | 175,5 | 186,3 | 198,1 | 232,9 | 252,2 | 275,3 | 288,2 | 299,7 | 312,5 |
| Α | 120,0 | 133,0 | 145,0 | 173,0 | 190,0 | 210,0 | 221,0 | 263,0 | 303,0 | 319,0 | 337,0 | 395,0 | 430,0 | 471,0 | 490,0 | 506,0 | 524,0 |
| W/W | 3,21 | 3,20 | 3,17 | 3,16 | 3,18 | 3,11 | 3,21 | 3,21 | 3,24 | 3,24 | 3,22 | 3,13 | 3,10 | 3,12 | 3,11 | 3,11 | 3,09 |
| l/h | 36823 | 40823 | 44470 | 53838 | 60421 | 66654 | 72264 | 85444 | 98663 | 104778 | 110847 | 126695 | 135884 | 149044 | 155628 | 161773 | 167874 |
| kPa | 29 | 36 | 42 | 53 | 54 | 58 | 37 | 52 | 60 | 60 | 58 | 58 | 66 | 76 | 81 | 83 | 88 |
| | kW A W/W I/h kPa kW kW A W/W I/h | kW 72,8 A 127,0 W/W 2,75 I/h 34503 kPa 25 kW 212,2 kW 66,1 A 120,0 W/W 3,21 I/h 36823 | kW 72,8 83,7 A 127,0 144,0 W/W 2,75 2,63 I/h 34503 37880 kPa 25 30 kW 212,2 235,2 kW 66,1 73,5 A 120,0 133,0 W/W 3,21 3,20 I/h 36823 40823 | kW 72,8 83,7 95,6 A 127,0 144,0 163,0 W/W 2,75 2,63 2,49 I/h 34503 37880 41031 kPa 25 30 35 kW 212,2 235,2 256,2 kW 66,1 73,5 80,8 A 120,0 133,0 145,0 W/W 3,21 3,20 3,17 I/h 36823 40823 44470 | kW 72,8 83,7 95,6 107,5 A 127,0 144,0 163,0 182,0 W/W 2,75 2,63 2,49 2,72 I/h 34503 37880 41031 50268 kPa 25 30 35 45 kW 212,2 235,2 256,2 310,2 kW 66,1 73,5 80,8 98,1 A 120,0 133,0 145,0 173,0 W/W 3,21 3,20 3,17 3,16 I/h 36823 40823 44470 53838 | kW 72,8 83,7 95,6 107,5 123,5 A 127,0 144,0 163,0 182,0 207,0 W/W 2,75 2,63 2,49 2,72 2,64 I/h 34503 37880 41031 50268 56029 kPa 25 30 35 45 45 kW 212,2 235,2 256,2 310,2 348,1 kW 66,1 73,5 80,8 98,1 109,5 A 120,0 133,0 145,0 173,0 190,0 W/W 3,21 3,20 3,17 3,16 3,18 I/h 36823 40823 44470 53838 60421 | kW 72,8 83,7 95,6 107,5 123,5 144,5 A 127,0 144,0 163,0 182,0 207,0 238,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 I/h 34503 37880 41031 50268 56029 60821 kPa 25 30 35 45 45 47 kW 212,2 235,2 256,2 310,2 348,1 384,0 kW 66,1 73,5 80,8 98,1 109,5 123,5 A 120,0 133,0 145,0 173,0 190,0 210,0 W/W 3,21 3,20 3,17 3,16 3,18 3,11 I/h 36823 40823 44470 53838 60421 66654 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 I/h 34503 37880 41031 50268 56029 60821 65615 kPa 25 30 35 45 45 47 29 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 A 120,0 133,0 145,0 173,0 190,0 210,0 221,0 W/W 3,21 3,20 3,17 3,16 3,18 3,11 3,21 I/h 36823 40823 44470 53838 60421 66654 72264 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 I/h 34503 37880 41031 50268 56029 60821 65615 78560 kPa 25 30 35 45 45 47 29 42 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,3 A 120,0 133,0 145,0 173,0 190,0 210,0 221,0 263,0 W/W 3,21 3,20 3,17 3,16 3,18 3,11 3,21 3,21 I/h 36823 40823 44470 53838 60421 66654 72264 85444 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 I/h 34503 37880 41031 50268 56029 60821 65615 78560 91483 kPa 25 30 35 45 45 47 29 42 50 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,3 175,5 A 120,0 133,0 145,0 173,0 190,0 210,0 221,0 263,0 303,0 W/W 3,21 3,20 3,17 3,16 3,18 3,11 3,21 3,21 3,24 I/h 36823 40823 44470 53838 | kW 72,8 83,7 95,6 107,5 123,5 144,5 16,8 179,5 199,4 219,3 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 30,0 333,0 362,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 I/h 34503 37880 41031 50268 56029 60821 65615 78560 91483 96570 kPa 25 30 35 45 45 47 29 42 50 49 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,3 175,5 186,3 A 120,0 133,0 145,0 173,0 190,0 210,0 221,0 263,0 </td <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 16,8 179,5 199,4 219,3 239,1 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 30,0 333,0 362,0 391,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 kPa 25 30 35 45 45 47 29 42 50 49 47 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,3 175,5 186,3 198,1 A 120,0</td> <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 A 177,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91433 96570 101650 121347 kPa 25 30 35 45 45 47 29 42 50 49 47 53 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,</td> <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 27,9 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 128839 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 782,6 kW 66,1 73,5<</td> <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 69 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4</td> <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 317,7 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 527,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 2,70 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 147773 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 69 73 kW 212,2 235,2 256,2 310,2 348,1 384,0 416</td> <td>kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 317,7 34,1 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 527,0 567,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 2,68 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 147773 153929 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 782,6 858,4 896,3 931,7 kW 66,1<</td> | kW 72,8 83,7 95,6 107,5 123,5 144,5 16,8 179,5 199,4 219,3 239,1 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 30,0 333,0 362,0 391,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 kPa 25 30 35 45 45 47 29 42 50 49 47 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153,3 175,5 186,3 198,1 A 120,0 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 A 177,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91433 96570 101650 121347 kPa 25 30 35 45 45 47 29 42 50 49 47 53 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 kW 66,1 73,5 80,8 98,1 109,5 123,5 129,7 153, | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 27,9 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 128839 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 782,6 kW 66,1 73,5< | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 69 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 317,7 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 527,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 2,70 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 147773 kPa 25 30 35 45 45 47 29 42 50 49 47 53 60 69 73 kW 212,2 235,2 256,2 310,2 348,1 384,0 416 | kW 72,8 83,7 95,6 107,5 123,5 144,5 160,8 179,5 199,4 219,3 239,1 249,8 277,9 299,4 317,7 34,1 A 127,0 144,0 163,0 182,0 207,0 238,0 268,0 300,0 333,0 362,0 391,0 424,0 485,0 506,0 527,0 567,0 W/W 2,75 2,63 2,49 2,72 2,64 2,45 2,37 2,55 2,67 2,56 2,47 2,83 2,70 2,75 2,68 I/h 34503 3780 41031 50268 56029 60821 65615 78560 91483 96570 101650 121347 12839 141815 147773 153929 kW 212,2 235,2 256,2 310,2 348,1 384,0 416,2 492,2 568,3 603,5 638,4 729,6 782,6 858,4 896,3 931,7 kW 66,1< |

NRG HL

| MIGHE | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 194,9 | 231,4 | 252,7 | 283,9 | 335,9 | 367,7 | 399,5 | 467,1 | 515,0 | 568,3 | 599,3 | 684,6 | 752,3 | 804,8 | 836,8 | 889,9 | 919,8 |
| Input power | kW | 73,7 | 78,6 | 88,8 | 107,7 | 118,0 | 136,6 | 154,7 | 175,4 | 203,9 | 213,7 | 232,1 | 255,0 | 275,5 | 305,5 | 325,1 | 334,6 | 353,5 |
| Cooling total input current | Α | 125,0 | 136,0 | 153,0 | 179,0 | 196,0 | 222,0 | 249,0 | 285,0 | 331,0 | 346,0 | 374,0 | 420,0 | 457,0 | 506,0 | 528,0 | 540,0 | 568,0 |
| EER | W/W | 2,65 | 2,94 | 2,85 | 2,64 | 2,85 | 2,69 | 2,58 | 2,66 | 2,53 | 2,66 | 2,58 | 2,69 | 2,73 | 2,63 | 2,57 | 2,66 | 2,60 |
| Water flow rate system side | l/h | 33540 | 39819 | 43473 | 48838 | 57788 | 63245 | 68702 | 80332 | 88566 | 97728 | 103054 | 117728 | 129370 | 138391 | 143907 | 153027 | 158170 |
| Pressure drop system side | kPa | 23 | 33 | 34 | 39 | 45 | 47 | 33 | 39 | 41 | 49 | 35 | 51 | 59 | 64 | 67 | 75 | 70 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 209,6 | 244,9 | 268,8 | 305,3 | 357,3 | 394,2 | 431,7 | 502,3 | 558,0 | 611,4 | 647,2 | 717,8 | 788,1 | 844,0 | 880,6 | 933,5 | 969,8 |
| Input power | kW | 64,6 | 76,2 | 83,3 | 95,6 | 111,1 | 123,9 | 131,4 | 152,8 | 170,0 | 186,9 | 199,5 | 227,5 | 249,8 | 267,9 | 280,7 | 297,4 | 310,8 |
| Heating total input current | Α | 115,0 | 134,0 | 147,0 | 165,0 | 188,0 | 207,0 | 219,0 | 257,0 | 288,0 | 313,0 | 333,0 | 378,0 | 416,0 | 447,0 | 466,0 | 491,0 | 512,0 |
| COP | W/W | 3,24 | 3,22 | 3,23 | 3,19 | 3,22 | 3,18 | 3,29 | 3,29 | 3,28 | 3,27 | 3,24 | 3,15 | 3,16 | 3,15 | 3,14 | 3,14 | 3,12 |
| Water flow rate system side | l/h | 36369 | 42513 | 46657 | 52988 | 62021 | 68420 | 74962 | 87217 | 96884 | 106143 | 112386 | 124645 | 136849 | 146552 | 152908 | 162100 | 168406 |
| Pressure drop system side | kPa | 28 | 39 | 40 | 47 | 53 | 56 | 40 | 47 | 51 | 60 | 42 | 57 | 66 | 71 | 75 | 84 | 80 |

NRG HA

| 111101111 | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 200,5 | 236,4 | 258,7 | 292,2 | 344,0 | 378,0 | 412,2 | 480,7 | 532,0 | 584,8 | 618,3 | 700,8 | 768,8 | 824,7 | 859,0 | 911,3 | 943,6 |
| Input power | kW | 71,4 | 78,5 | 88,2 | 105,8 | 117,2 | 134,5 | 151,4 | 172,4 | 196,2 | 210,0 | 227,1 | 245,1 | 271,0 | 296,0 | 314,1 | 327,9 | 345,4 |
| Cooling total input current | А | 127,0 | 141,0 | 157,0 | 182,0 | 201,0 | 226,0 | 251,0 | 289,0 | 333,0 | 351,0 | 377,0 | 424,0 | 462,0 | 509,0 | 529,0 | 545,0 | 571,0 |
| EER | W/W | 2,81 | 3,01 | 2,93 | 2,76 | 2,94 | 2,81 | 2,72 | 2,79 | 2,71 | 2,78 | 2,72 | 2,86 | 2,84 | 2,79 | 2,73 | 2,78 | 2,73 |
| Water flow rate system side | l/h | 34505 | 40669 | 44506 | 50268 | 59178 | 65028 | 70879 | 82668 | 91485 | 100578 | 106317 | 120517 | 132216 | 141823 | 147725 | 156722 | 162264 |
| Pressure drop system side | kPa | 24 | 33 | 34 | 39 | 45 | 47 | 33 | 39 | 42 | 50 | 35 | 53 | 61 | 67 | 70 | 79 | 74 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 214,2 | 249,2 | 273,9 | 311,8 | 364,1 | 404,2 | 439,5 | 510,6 | 568,3 | 624,2 | 661,5 | 726,3 | 796,9 | 854,6 | 892,3 | 944,8 | 982,2 |
| Input power | kW | 65,5 | 76,7 | 84,1 | 96,3 | 111,6 | 125,5 | 132,9 | 153,9 | 171,9 | 189,2 | 201,7 | 229,0 | 250,4 | 268,2 | 280,9 | 299,3 | 312,3 |
| Heating total input current | Α | 119,0 | 139,0 | 152,0 | 170,0 | 195,0 | 215,0 | 227,0 | 265,0 | 298,0 | 325,0 | 344,0 | 389,0 | 428,0 | 458,0 | 477,0 | 506,0 | 526,0 |
| COP | W/W | 3,27 | 3,25 | 3,25 | 3,24 | 3,26 | 3,22 | 3,31 | 3,32 | 3,31 | 3,30 | 3,28 | 3,17 | 3,18 | 3,19 | 3,18 | 3,16 | 3,15 |
| Water flow rate system side | l/h | 37179 | 43255 | 47538 | 54127 | 63192 | 70158 | 76308 | 88642 | 98663 | 108366 | 114875 | 126116 | 138372 | 148390 | 154943 | 164062 | 170550 |
| Pressure drop system side | kPa | 29 | 40 | 41 | 49 | 55 | 58 | 41 | 49 | 53 | 62 | 44 | 58 | 67 | 73 | 77 | 86 | 82 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C /7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C /7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRG HE

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 210,2 | 241,4 | 265,0 | 301,3 | 349,5 | 385,3 | 433,9 | 499,0 | 555,3 | 602,8 | 639,1 | 718,4 | 790,6 | 846,2 | 879,4 | 924,9 | 962,3 |
| Input power | kW | 68,8 | 76,7 | 85,7 | 101,9 | 115,0 | 130,8 | 142,8 | 165,0 | 189,0 | 202,2 | 217,7 | 241,7 | 264,6 | 289,3 | 308,3 | 320,7 | 337,3 |
| Cooling total input current | Α | 120,0 | 135,0 | 150,0 | 173,0 | 192,0 | 215,0 | 234,0 | 272,0 | 312,0 | 332,0 | 355,0 | 390,0 | 433,0 | 474,0 | 493,0 | 512,0 | 536,0 |
| EER | W/W | 3,05 | 3,15 | 3,09 | 2,96 | 3,04 | 2,94 | 3,04 | 3,02 | 2,94 | 2,98 | 2,94 | 2,97 | 2,99 | 2,93 | 2,85 | 2,88 | 2,85 |
| Water flow rate system side | l/h | 36167 | 41535 | 45585 | 51820 | 60126 | 66279 | 74616 | 85811 | 95491 | 103665 | 109890 | 123535 | 135965 | 145529 | 151221 | 159049 | 165476 |
| Pressure drop system side | kPa | 24 | 33 | 34 | 40 | 45 | 47 | 33 | 40 | 42 | 50 | 35 | 56 | 62 | 70 | 74 | 71 | 74 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 220,6 | 251,8 | 277,3 | 320,3 | 367,5 | 407,1 | 456,1 | 525,1 | 586,9 | 634,6 | 674,7 | 737,8 | 806,3 | 867,9 | 904,3 | 951,9 | 991,9 |
| Input power | kW | 67,2 | 77,5 | 84,8 | 98,3 | 110,5 | 122,3 | 137,5 | 158,0 | 176,7 | 191,9 | 204,0 | 230,9 | 251,4 | 270,6 | 283,3 | 299,9 | 313,6 |
| Heating total input current | Α | 119,0 | 137,0 | 150,0 | 170,0 | 189,0 | 207,0 | 229,0 | 266,0 | 299,0 | 321,0 | 340,0 | 384,0 | 419,0 | 452,0 | 470,0 | 497,0 | 516,0 |
| COP | W/W | 3,28 | 3,25 | 3,27 | 3,26 | 3,33 | 3,33 | 3,32 | 3,32 | 3,32 | 3,31 | 3,31 | 3,20 | 3,21 | 3,21 | 3,19 | 3,17 | 3,16 |
| Water flow rate system side | l/h | 38284 | 43702 | 48137 | 55596 | 63813 | 70679 | 79187 | 91172 | 101894 | 110186 | 117170 | 128108 | 140013 | 150692 | 157019 | 165295 | 172243 |
| Pressure drop system side | kPa | 31 | 35 | 39 | 45 | 36 | 35 | 44 | 45 | 55 | 47 | 39 | 60 | 65 | 75 | 79 | 77 | 81 |

ENERGY INDEX

| ENERGY INDEX | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Fans: ° | | | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | |
| | | W/W | 3,82 | 3,93 | 3,69 | 3,95 | 3,76 | 3,66 | 3,63 | 3,77 | 3,94 | - | - | - | - | - | - | - | - |
| SEER | A | W/W | 3,92 | 4,26 | 4,03 | 4,04 | 4,31 | 4,05 | 4,14 | 4,16 | 4,14 | - | - | - | - | - | - | - | - |
| JLLIN | E | W/W | 4,24 | 4,47 | 4,46 | 4,30 | 4,49 | 4,23 | 4,54 | 4,48 | 4,30 | - | - | - | - | - | - | - | - |
| | L | W/W | 3,89 | 4,20 | 4,14 | 4,07 | 4,32 | 4,14 | 4,09 | 4,16 | 4,05 | - | - | - | - | - | - | - | - |
| | • | % | 149,69 | 154,31 | 144,66 | 154,85 | 147,58 | 143,34 | 142,18 | 147,82 | 154,74 | - | - | - | - | - | - | - | - |
| Seasonal efficiency | A | % | 153,94 | 167,22 | 158,24 | 158,70 | 169,32 | 159,16 | 162,42 | 163,51 | 162,60 | - | - | - | - | - | - | - | - |
| ocasonal efficiency | E | % | 166,62 | 175,64 | 175,43 | 169,12 | 176,71 | 166,29 | 178,62 | 176,32 | 169,05 | - | | | | | | - | - |
| | L | % | 152,78 | 164,88 | 162,52 | 159,98 | 169,62 | 162,45 | 160,44 | 163,31 | 158,98 | - | - | - | - | - | - | - | - |
| SEER - 23/18 (EN14825: 2018) (2) | | | | | | | | | | | | | | | | | | | |
| | | W/W | 4,42 | 4,52 | 4,23 | 4,46 | 4,31 | 4,17 | 4,16 | 4,25 | 4,43 | 4,56 | 4,55 | 4,84 | 4,69 | 4,70 | 4,61 | 4,69 | 4,57 |
| SEER | A | W/W | 4,58 | 4,90 | 4,67 | 4,63 | 4,86 | 4,60 | 4,69 | 4,68 | 4,62 | 4,60 | 4,67 | 4,94 | 4,94 | 4,95 | 4,95 | 4,95 | 4,95 |
| SEEN | E | W/W | 4,95 | 5,13 | 5,09 | 4,90 | 5,03 | 4,78 | 5,13 | 5,04 | 4,80 | 4,95 | 5,00 | 5,15 | 5,16 | 5,15 | 5,07 | 5,09 | 5,03 |
| | L | W/W | 4,65 | 4,84 | 4,73 | 4,62 | 4,81 | 4,64 | 4,62 | 4,66 | 4,56 | 4,64 | 4,67 | 4,81 | 4,84 | 4,80 | 4,79 | 4,81 | 4,79 |
| | | % | 173,96 | 177,67 | 166,01 | 175,30 | 169,38 | 163,98 | 163,39 | 167,16 | 174,39 | 179,50 | 179,00 | 190,59 | 184,41 | 185,05 | 181,49 | 184,72 | 179,79 |
| Seasonal efficiency | A | % | 180,39 | 193,01 | 183,69 | 182,32 | 191,25 | 180,93 | 184,52 | 184,13 | 181,81 | 180,84 | 183,73 | 194,77 | 194,67 | 194,96 | 194,98 | 195,10 | 194,96 |
| Seasonal efficiency | E | % | 194,99 | 202,37 | 200,52 | 193,16 | 198,13 | 188,06 | 202,21 | 198,68 | 189,12 | 194,99 | 196,98 | 203,18 | 203,49 | 202,94 | 199,98 | 200,57 | 198,18 |
| | L | % | 182,93 | 190,46 | 186,38 | 181,81 | 189,53 | 182,80 | 181,68 | 183,24 | 179,38 | 182,56 | 183,91 | 189,59 | 190,78 | 188,98 | 188,76 | 189,33 | 188,66 |
| UE 813/2013 performance in average a | | ions (aver | | | | | | | | | | | | | | | | | |
| | | kW | 185 | 206 | 225 | 271 | 306 | 341 | 372 | 346 | 394 | 533 | 566 | 645 | 691 | 757 | 791 | 822 | 859 |
| Pdesignh | A | kW | 186 | 215 | 237 | 273 | 317 | 354 | 387 | 352 | 394 | 547 | 583 | 637 | 698 | 748 | 781 | 827 | 866 |
| . 465.9 | E | kW | 190 | 216 | 239 | 278 | 318 | 355 | 397 | 355 | 398 | 553 | 591 | 643 | 702 | 755 | 787 | 829 | 870 |
| | L | kW | 182 | 212 | 233 | 267 | 312 | 347 | 381 | 349 | 391 | 537 | 572 | 631 | 693 | 742 | 773 | 819 | 852 |
| | | W/W | 3,70 | 3,66 | 3,70 | 3,62 | 3,63 | 3,64 | 3,78 | 3,78 | 3,84 | 3,84 | 3,87 | 3,78 | 3,72 | 3,72 | 3,70 | 3,71 | 3,68 |
| SCOP | A | W/W | 3,86 | 3,75 | 3,80 | 3,83 | 3,80 | 3,84 | 3,96 | 3,92 | 4,00 | 3,97 | 4,03 | 3,93 | 3,92 | 3,90 | 3,87 | 3,86 | 3,82 |
| | E | W/W | 3,82 | 3,74 | 3,79 | 3,80 | 3,78 | 3,86 | 3,96 | 3,93 | 3,99 | 3,96 | 4,02 | 3,90 | 3,88 | 3,86 | 3,82 | 3,81 | 3,79 |
| | L | W/W | 3,75 | 3,71 | 3,77 | 3,73 | 3,72 | 3,81 | 3,90 | 3,89 | 3,95 | 3,88 | 3,95 | 3,83 | 3,82 | 3,81 | 3,79 | 3,78 | 3,76 |
| | | % | 144,95 | 143,51 | 145,03 | 141,70 | 142,39 | 142,72 | 148,37 | 148,22 | 150,74 | 150,57 | 151,99 | 148,07 | 145,75 | 145,71 | 145,18 | 145,33 | 144,35 |
| ηsh | A | % | 151,26 | 147,10 | 148,95 | 150,09 | 148,92 | 150,73 | 155,38 | 153,74 | 157,11 | 156,00 | 158,37 | 154,40 | 153,86 | 153,03 | 151,98 | 151,25 | 149,80 |
| • | E | % | 149,60 | 146,63 | 148,74 | 148,95 | 148,14 | 151,30 | 155,26 | 154,27 | 156,73 | 155,51 | 157,88 | 152,82 | 152,24 | 151,22 | 149,93 | 149,22 | 148,54 |
| UF 042 /2042 | L | . , | 146,96 | 145,41 | 147,82 | | 145,93 | 149,25 | 152,96 | 152,42 | 155,05 | 152,28 | 154,95 | 150,34 | 149,82 | 149,41 | 148,61 | 148,12 | 147,48 |
| UE 813/2013 performance in average a | mbient condit | | | | - | | | 244 | 275 | 246 | 204 | 52.4 | F.CO. | | 603 | 760 | 704 | 025 | 054 |
| | | kW | 185 | 207 | 228 | 272 | 308 | 344 | 375 | 346 | 394 | 534 | 569 | 646 | 693 | 760 | 794 | 825 | 856 |
| Pdesignh | A | kW | 187 | 214 | 237 | 273 | 316 | 354 | 386 | 352 | 394 | 545 | 581 | 634 | 696 | 746 | 779 | 825 | 857 |
| - | E | kW | 189 | 215 | 238 | 277 | 316 | 352 | 393 | 355 | 398 | 548 | 585 | 637 | 697 | 750 | 781 | 822 | 857 |
| | L | kW | 183 | 212 | 234 | 269 | 311 | 347 | 382 | 349 | 391 | 537 | 573 | 631 | 693 | 742 | 774 | 820 | 852 |
| | | W/W | 3,08 | 3,05 | 3,08 | 3,05 | 3,03 | 3,00 | 3,03 | 3,06 | 3,21 | 3,18 | 3,18 | 3,12 | 3,09 | 3,11 | 3,11 | 3,11 | 3,06 |
| SCOP | A | W/W | 3,18 | 3,15 | 3,17 | 3,19 | 3,16 | 3,16 | 3,17 | 3,17 | 3,29 | 3,27 | 3,25 | 3,23 | 3,24 | 3,24 | 3,23 | 3,23 | 3,14 |
| | E | W/W | 3,19 | 3,14 | 3,17 | 3,17 | 3,13 | 3,15 | 3,20 | 3,19 | 3,32 | 3,26 | 3,26 | 3,24 | 3,24 | 3,24 | 3,22 | 3,20 | 3,14 |
| | L | W/W | 3,09 | 3,10 | 3,14 | 3,10 | 3,08 | 3,12 | 3,11 | 3,13 | 3,23 | 3,18 | 3,17 | 3,14 | 3,14 | 3,15 | 3,14 | 3,15 | 3,12 |
| | | % | 120,10 | 119,16 | 120,24 | 118,86 | 118,20 | 117,16 | 118,26 | 119,46 | 125,22 | 124,15 | 124,36 | 121,80 | 120,53 | 121,33 | 121,20 | 121,49 | 119,23 |
| ηsh | A | % | 124,31 | 122,92 | 123,79 | 124,47 | 123,37 | 123,50 | 123,70 | 123,68 | 128,55 | 127,96 | 127,17 | 126,29 | 126,72 | 126,55 | 126,01 | 126,19 | 122,60 |
| .de.: | E | % | 124,44 | 122,64 | 123,96 | 123,61 | 122,14 | 122,87 | 125,09 | 124,79 | 129,60 | 127,34 | 127,57 | 126,53 | 126,49 | 126,53 | 125,75 | 124,86 | 122,72 |
| | L | % | 120,43 | 121,14 | 122,52 | 120,80 | 120,36 | 121,82 | 121,38 | 122,19 | 126,39 | 124,30 | 123,94 | 122,40 | 122,78 | 122,90 | 122,56 | 122,90 | 121,88 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Efficiencies for low temperature applications (35 °C)
(4) Efficiencies for average temperature applications (55 °C)

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| Seasonal efficiency IRA % 18,98 20,258 12,029 19,029 19,029 18,039 18,039 18,039 18,039 18,039 19, | 3400 | 3400 | J400 | J700 | J700 | J401 | | J200 | 2000 | 4000 | 4000 | 4700 | 4400 | 2000 | 1000 | 1000 | 1700 | 1400 | 1100 | IVUU | U 7 U U | UUUU | | | |
|--|--------|--------|--------|--------|--------|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------|-----------|------------|-----------|--------------|---------------------------------------|
| Separa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Series | 5,51 | 5 51 | 5 51 | 5 51 | 5 51 | 5 51 | _ | 5 51 | 5 52 | 5 52 | 5 51 | 5 11 | 5 27 | 5 20 | 5 11 | 5.00 | 5 11 | 5.01 | 5 11 | 1 22 | 5.03 | V 03 | W/W | 0 | LFR - (LN 14023. 2010) (2) |
| Family F | 5,53 | | | | | | | | | | | | | | | | | | | | | | | Δ | - |
| Terms : 1 Fig. 12 (NIM 2) 19 1 | 5,56 | | | | | | | | | | | | | | | | | | | | | | | | EPR - |
| Section Parish | 5,51 | | | | | | | | | | | | | | | | | | | | | | | | _ |
| SEER 1.7 (RIN4825: 2018) (1) *** 10 | 3,31 | 3,31 | 3,31 | 7,51 | ١٥١٦ | ا درد | | | | JJZ | 3,31 | 3,30 | 3,03 | 3,777 | 3,03 | 3,33 | 3,01 | 3,10 | 3,31 | 3,11 | 3,10 | 3,17 | 11/11 | | ans: I |
| SEER 14 10 11 11 11 11 11 11 11 11 11 11 11 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fig. 1 (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | - | | _ | - | _ | _ | | | | - | | | | 4.10 | 3.92 | 3.72 | 3.74 | 3.91 | 4.01 | 3.76 | 4.03 | 3.91 | W/W | 0 | 12,7 (2111102512010) (1) |
| Fig. 1 (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2 | 4,55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | | 4.55 | 4.56 | 4.55 | 4.56 | 4.58 | | | | | | | | | | | | A | |
| No. 1.0 | 4,69 | | | | | | | | | | | | | | | | | | | | | | | | EER - |
| Part | 4,57 | | | | | | | | _ | | | | | | | | | | | | | | | | - |
| Part | - | - | - | - | - | - | | -, | -, | - | - | - | - | | | | | | | | | | | 0 | |
| Part | 179,12 | 179,12 | 179.12 | 179,12 | 179.12 | 179,1 | 1 1 | 179,11 | 179.25 | 179.05 | 179.30 | 180.02 | 179,84 | | | | | | | | | | | A | - |
| Part | 184,64 | | | | | | | | | | | | | | | | | | | | | | | E | easonal efficiency – |
| SEER-35/18 (EN14825: 2018) (2) *** No. *** No | 179,67 | | | | | _ | | | | | | | | | | | | | | | | | | | - |
| SEER R | , | , | , | , | , | ,- | | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | | | EER - 23/18 (EN14825: 2018) (2) |
| SEER A W/W 4,82 5,14 4,88 4,83 5,05 4,68 4,77 4,78 4,70 4,71 5,12 5,22 5,23 5,23 5,23 5,20 5,11 5,20 5,20 5,10 5,20 5,10 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,00 1,0 | 5,04 | 5.04 | 5.04 | 5.04 | 5.04 | 5.04 | | 4,95 | 5.05 | 5.04 | 5.20 | 4.67 | 4.68 | 4,53 | 4.36 | 4.26 | 4.26 | 4,48 | 4,53 | 4,30 | 4.62 | 4,53 | W/W | 0 | |
| Fig. 1 (1) (1) (2) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | 5,33 | | | | | | | | | | | | _ | | | | | | | | | | | A | |
| Part | 5,40 | | | _ | - | | | | | | | | | | | | | | | | 5,39 | 5,22 | W/W | Е | EER - |
| Seam of the fine part | 5,10 | 5,10 | 5,10 | 5,10 | 5,10 | 5,10 | - 1 | | | | | | _ | | | | | | | 4,92 | | 4,86 | W/W | L | - |
| Seasonalefficiency IRA 8 18/8 18/8 18/2 19/2 | 198,65 | 198,65 | 198,6 | 198,65 | 198,65 | 198,6 |) 1 | 195,09 | 198,95 | 198,46 | 205,12 | 183,60 | 184,08 | 178,15 | 171,54 | 167,32 | 167,49 | 176,17 | 178,03 | 169,18 | 181,99 | 178,23 | % | 0 | |
| Part See | | 210,33 | 210,3 | 210,33 | 210,33 | 210,3 |) 2 | 210,50 | | 209,61 | | 189,27 | | | | 187,89 | | 199,05 | | 192,30 | | 189,87 | % | А | - |
| Part | | 213,20 | | | | | | 212,50 | | | | | | | _ | | | | | | | | | Е | easonal efficiency – |
| Peteign Peteiggn Peteign Peteign Peteign Peteign Peteign Peteign Peteign Pet | 201,14 | 201,14 | 201,14 | 201,14 | 201,14 | 201,1 | 3 20 | 200,73 | 201,03 | 203,21 | 201,98 | 190,57 | 189,25 | 185,81 | 189,15 | 185,11 | | 196,81 | 188,82 | 193,92 | 198,67 | 191,27 | % | L | _ |
| Presign | | | | | | | | | | , | | | | | | | | | | | C - Pdesi | ge) - 35 ° | ns (avera | ient conditi | E 813/2013 performance in average amb |
| Feedstand Feed | 822 | 822 | 822 | 822 | 822 | 822 | | 791 | 757 | 691 | 645 | 566 | 533 | 394 | 346 | 372 | 341 | 306 | 271 | 225 | 206 | 185 | kW | 0 | |
| Fig. Ref | 827 | 827 | 827 | 827 | 827 | 827 | | 781 | 748 | 698 | 637 | 584 | 547 | 394 | 352 | 387 | 354 | 317 | 273 | 237 | 215 | 186 | kW | Α | - |
| Scope **** ****** | 829 | 829 | 829 | 829 | 829 | 829 | | 787 | 755 | 702 | 643 | 591 | 553 | 398 | 355 | 397 | 355 | 318 | 278 | 239 | 216 | 190 | kW | Е | designn – |
| SCOP A WW 3,75 3,72 3,74 3,05 3,82 3,89 3,80 | 819 | 819 | 819 | 819 | 819 | 819 | | 773 | 742 | 693 | 631 | 573 | 538 | 391 | 349 | 381 | 347 | 312 | 267 | 233 | 212 | 182 | kW | L | _ |
| Storp | 3,78 | 3,78 | 3,78 | 3,78 | 3,78 | 3,78 | - 7 | 3,78 | 3,79 | 3,79 | 3,85 | 3,98 | 3,92 | 3,90 | 3,87 | 3,84 | 3,69 | 3,72 | 3,65 | 3,74 | 3,72 | 3,75 | W/W | 0 | |
| F W/W 3,94 3,86 3,89 3,90 3,88 4,00 4,05 4,08 4,09 4,09 4,13 3,91 3,96 3,93 3,90 3,89 3,90 3,88 4,00 4,05 4,08 4,09 4,09 4,13 3,91 3,90 3,90 3,90 3,89 3,89 3,89 3,80 | 3,93 | 3,93 | 3,93 | 3,93 | 3,93 | 3,93 | - | 3,95 | 3,98 | 4,00 | 4,01 | 4,13 | 4,08 | 4,08 | 4,03 | 4,04 | 3,93 | 3,89 | 3,92 | 3,91 | 3,87 | 3,98 | W/W | А | - COD |
| Probability of the probability | 3,88 | 3,88 | 3,88 | 3,88 | 3,88 | 3,88 | | 3,90 | 3,93 | 3,96 | 3,97 | 4,13 | 4,09 | 4,09 | 4,08 | 4,05 | 4,00 | 3,88 | 3,90 | 3,89 | 3,86 | 3,94 | W/W | Е | LUP - |
| Height Probability (17.10) (17 | 3,85 | 3,85 | 3,85 | 3,85 | 3,85 | 3,85 | - : | 3,87 | 3,89 | 3,90 | 3,91 | 4,06 | 3,99 | 4,02 | 3,98 | 3,94 | 3,87 | 3,85 | 3,82 | 3,86 | 3,81 | 3,85 | W/W | L | _ |
| F % 154,67 51,25 52,53 52,86 152,0 | 148,30 | 148,30 | 148,30 | 148,30 | 148,30 | 148,3 | 1 1/ | 148,14 | 148,69 | 148,73 | 151,09 | 156,25 | 153,82 | 152,83 | 151,86 | 150,61 | 144,64 | 145,88 | 143,12 | 146,78 | 145,69 | 147,19 | % | 0 | |
| F 50 151,15 152,25 152,26 | 154,33 | 154,33 | 154,33 | 154,33 | 154,33 | 154,3 | 7 1/ | 155,07 | 156,15 | 157,00 | 157,54 | 162,27 | 160,11 | 160,03 | 158,12 | 158,78 | 154,02 | 152,61 | 153,96 | 153,29 | 151,63 | 156,18 | % | А | |
| UE 813/2013 performance in average ambient conditions (average) - 55 °C - Polesignh ≤ VR 185 207 225 272 306 341 372 346 394 535 566 645 691 757 791 Pdesignh R kW 187 215 237 273 317 354 387 352 397 355 398 553 591 643 702 755 787 E kW 190 216 239 278 318 355 397 355 398 355 397 355 398 553 591 643 702 755 787 L kW 183 212 233 267 312 347 382 349 391 538 573 631 693 742 773 MW 3,13 3,11 3,12 3,08 3,11 3,12 3,08 3,11 3,05 3,08 3,15 3,26 3,26 3,26 3,28 3,27 3,17 3,17 SCOP A W/W 3,31 3,25 3,27 3,26 3,28 3,28 3,29 3,38 3,29 3,38 3,37 3,30 3,30 3,30 3,30 3,28 3,2 | 152,26 | 152,26 | 152,20 | 152,26 | 152,26 | 152,2 | 1: | 152,99 | 154,31 | 155,35 | 155,93 | 162,33 | 160,54 | 160,74 | 160,06 | 159,16 | 156,84 | 152,04 | 152,86 | 152,53 | 151,25 | 154,67 | % | E | sn – |
| Pdesignh A kW 185 207 225 272 306 341 372 346 394 535 566 645 691 757 791 | 151,15 | 151,15 | 151,15 | 151,15 | 151,15 | 151,1 | 5 1. | 151,65 | 152,46 | 152,88 | 153,41 | 159,42 | 156,44 | 157,80 | 156,17 | 154,77 | 151,92 | 151,00 | 149,80 | 151,53 | 149,30 | 151,15 | % | L | _ |
| Pdesignh A kW 187 215 237 273 317 354 387 352 394 547 582 637 698 748 781 E kW 190 216 239 278 318 355 397 355 398 553 591 643 702 755 787 L kW 183 212 233 267 312 347 382 349 391 538 573 631 693 742 773 M WW 3,13 3,11 3,12 3,08 3,11 3,05 3,08 3,15 3,26 3,29 3,18 3,17 3,17 3,17 A W/W 3,30 3,26 3,28 3,25 3,24 3,24 3,26 3,26 3,29 3,31 3,25 3,21 3,26 3,22 3,28 3,29 3,31 3,20 3,28 3,22 3,28 3,22 | | | | | | | | | | | | | | | | | | .) | 00 kW (4 | gnh ≤ 4 | C - Pdesi | ge) - 55 ° | ns (avera | ient conditi | E 813/2013 performance in average amb |
| Result Include the least of th | 822 | 822 | 822 | 822 | 822 | 822 | | 791 | 757 | 691 | 645 | 566 | 535 | 394 | 346 | 372 | 341 | 306 | 272 | 225 | 207 | 185 | kW | 0 | _ |
| KW 190 216 239 2/8 318 355 391 355 391 643 7/02 755 78/ L kW 183 212 233 267 312 347 382 349 391 538 573 631 693 742 773 SCOP A W/W 3,13 3,11 3,12 3,08 3,11 3,05 3,08 3,15 3,26 3,29 3,18 3,15 3,17 3,17 SCOP A W/W 3,30 3,26 3,28 3,28 3,24 3,24 3,26 3,26 3,29 3,18 3,15 3,17 3,17 SCOP E W/W 3,31 3,25 3,27 3,26 3,22 3,28 3,29 3,33 3,42 3,8 3,37 3,30 3,30 3,30 3,28 L W/W 3,19 3,20 3,28 3,20 3,19 3,15 <td>827</td> <td>827</td> <td>827</td> <td>827</td> <td>827</td> <td>827</td> <td></td> <td>781</td> <td>748</td> <td>698</td> <td>637</td> <td>582</td> <td>547</td> <td>394</td> <td>352</td> <td>387</td> <td>354</td> <td>317</td> <td>273</td> <td>237</td> <td>215</td> <td>187</td> <td>kW</td> <td>Α</td> <td>docianh</td> | 827 | 827 | 827 | 827 | 827 | 827 | | 781 | 748 | 698 | 637 | 582 | 547 | 394 | 352 | 387 | 354 | 317 | 273 | 237 | 215 | 187 | kW | Α | docianh |
| SCOP W/W 3,13 3,11 3,12 3,08 3,11 3,05 3,08 3,15 3,26 3,26 3,29 3,18 3,15 3,17 3,17 SCOP A W/W 3,30 3,26 3,28 3,28 3,25 3,24 3,24 3,26 3,36 3,37 3,35 3,30 3,31 3,30 3,29 E W/W 3,31 3,25 3,27 3,26 3,22 3,28 3,29 3,33 3,42 3,8 3,37 3,30 3,30 3,30 3,28 L W/W 3,19 3,20 3,23 3,18 3,20 3,19 3,15 3,22 3,31 3,28 3,28 3,20 3,21 3,20 | 829 | 829 | 829 | 829 | 829 | 829 | | 787 | 755 | 702 | 643 | 591 | 553 | 398 | 355 | 397 | 355 | 318 | 278 | 239 | 216 | 190 | kW | E | aesignin |
| SCOP M/W 3,13 3,11 3,12 3,08 3,11 3,12 3,08 3,11 3,05 3,08 3,15 3,26 3,26 3,26 3,27 3,26 3,27 3,26 3,27 3,26 3,27 3,26 3,27 3,26 3,27 3, | 819 | 819 | 819 | 819 | 819 | 819 | | 773 | 742 | 693 | 631 | 573 | 538 | 391 | 349 | 382 | 347 | 312 | 267 | 233 | 212 | 183 | kW | L | |
| E W/W 3,31 3,25 3,27 3,26 3,22 3,28 3,29 3,33 3,42 3,38 3,37 3,30 3,30 3,30 3,28 L W/W 3,19 3,20 3,23 3,18 3,20 3,19 3,15 3,22 3,31 3,28 3,28 3,20 3,21 3,21 3,20 | 3,17 | 3,17 | 3,17 | 3,17 | 3,17 | 3,17 | | 3,17 | 3,17 | 3,15 | 3,18 | 3,29 | 3,26 | 3,26 | 3,15 | 3,08 | 3,05 | 3,11 | 3,08 | 3,12 | 3,11 | 3,13 | W/W | 0 | _ |
| E W/W 3,31 3,25 3,27 3,26 3,22 3,28 3,29 3,33 3,42 3,38 3,37 3,30 3,30 3,30 3,30 3,28 L W/W 3,19 3,20 3,23 3,18 3,20 3,19 3,15 3,22 3,31 3,28 3,28 3,20 3,21 3,21 3,20 | 3,29 | 3,29 | 3,29 | 3,29 | 3,29 | 3,29 | | 3,29 | 3,30 | 3,31 | 3,30 | 3,35 | 3,37 | 3,36 | 3,26 | 3,24 | 3,24 | 3,25 | 3,28 | 3,28 | 3,26 | 3,30 | W/W | Α | COD - |
| | 3,26 | 3,26 | 3,26 | 3,26 | 3,26 | 3,26 | | 3,28 | 3,30 | 3,30 | 3,30 | 3,37 | 3,38 | 3,42 | 3,33 | 3,29 | 3,28 | 3,22 | 3,26 | 3,27 | 3,25 | 3,31 | W/W | E | COP = |
| 0 0/ 433 77 434 30 434 00 430 27 430 04 430 37 433 00 437 47 43 03 43 43 43 43 43 43 43 43 43 43 43 43 43 | 3,21 | 3,21 | 3,21 | 3,21 | 3,21 | 3,21 | | | | 3,21 | 3,20 | 3,28 | 3,28 | 3,31 | 3,22 | 3,15 | 3,19 | 3,20 | 3,18 | 3,23 | 3,20 | 3,19 | W/W | | |
| <u> </u> | 123,98 | 123,98 | 123,98 | 123,98 | 123,98 | 123,9 | 1. | 123,69 | 123,82 | 123,00 | 124,30 | 128,67 | 127,29 | 127,46 | 122,90 | 120,35 | 119,01 | 121,59 | 120,26 | 121,95 | 121,29 | 122,27 | % | 0 | |
| nch A % 129,05 127,35 128,02 128,24 126,95 126,45 126,66 127,60 131,34 131,91 130,84 128,88 129,31 129,14 128,59 | 128,77 | 128,77 | 128,7 | 128,77 | 128,77 | 128,7 | 1. | 128,59 | 129,14 | 129,31 | 128,88 | 130,84 | 131,91 | 131,34 | 127,60 | 126,66 | 126,45 | 126,95 | 128,24 | 128,02 | 127,35 | 129,05 | % | Α | ch - |
| ηsh E % 129,38 127,17 127,67 127,41 125,90 128,13 128,78 130,27 133,70 132,16 131,79 129,12 129,08 129,12 128,32 | 127,41 | 127,41 | 127,4 | 127,41 | 127,41 | 127,4 | 1. | 128,32 | 129,12 | 129,08 | 129,12 | 131,79 | 132,16 | 133,70 | 130,27 | 128,78 | 128,13 | 125,90 | 127,41 | 127,67 | 127,17 | 129,38 | % | E | JII |
| L % 124,44 124,94 126,12 124,20 125,05 124,58 123,06 125,71 129,24 128,27 128,14 124,91 125,29 125,42 125,07 | 125,42 | 125,42 | 125,42 | 125,42 | 125,42 | 125,4 | 1. | 125,07 | 125,42 | 125,29 | 124,91 | 128,14 | 128,27 | 129,24 | 125,71 | 123,06 | 124,58 | 125,05 | 124,20 | 126,12 | 124,94 | 124,44 | % | L | |
| SEPR - (EN 14825: 2018) (2) | | | | | | | | | | | | | | | | | | | | | | | | | EPR - (EN 14825: 2018) (2) |
| ° W/W 5,05 5,15 4,98 5,20 5,21 5,23 5,12 5,31 5,49 5,45 5,37 5,51 5,52 5,52 5,51 | 5,51 | 5,51 | 5,51 | 5,51 | 5,51 | 5,51 | ! | 5,51 | 5,52 | 5,52 | 5,51 | 5,37 | 5,45 | 5,49 | 5,31 | 5,12 | 5,23 | 5,21 | 5,20 | 4,98 | 5,15 | 5,05 | W/W | 0 | |
| SEPR A W/W 5,34 5,76 5,59 5,54 5,85 5,69 5,67 5,79 5,66 5,85 5,87 5,52 5,53 5,53 5,53 | 5,53 | 5,53 | 5,53 | 5,53 | 5,53 | 5,53 | | 5,53 | 5,53 | 5,53 | 5,52 | 5,87 | 5,85 | 5,66 | 5,79 | 5,67 | 5,69 | 5,85 | 5,54 | 5,59 | 5,76 | 5,34 | W/W | A | - |
| E W/W 5,91 6,15 6,16 5,82 6,03 6,22 6,44 6,48 6,24 6,31 6,25 5,56 5,57 5,57 5,56 | 5,56 | 5,56 | 5,56 | 5,56 | 5,56 | 5,56 | | 5,56 | 5,57 | 5,57 | 5,56 | | 6,31 | 6,24 | 6,48 | 6,44 | 6,22 | 6,03 | 5,82 | 6,16 | 6,15 | 5,91 | W/W | E | LITN = |
| L W/W 5,38 5,72 5,70 5,51 5,69 5,87 5,66 5,85 5,69 5,96 5,88 5,51 5,52 5,52 5,51 | 5,51 | | | | | | | | | | | | | | | | | | | | | | W/W | L | _ |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Efficiencies for low temperature applications (35 °C)
(4) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| LLLC I KIC DAIA | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Electric data | | | | | | | | | | | | | | | | | | | |
| | 0 | А | 162,2 | 180,5 | 198,8 | 234,5 | 262,4 | 290,3 | 318,1 | 371,7 | 425,3 | 453,2 | 481,1 | 542,5 | 588,3 | 641,9 | 669,8 | 697,7 | 725,5 |
| Maximum current (FLA) | A,L | А | 162,2 | 188,3 | 206,6 | 234,5 | 270,2 | 298,1 | 325,9 | 379,5 | 425,3 | 461,0 | 488,9 | 542,5 | 596,1 | 641,9 | 669,8 | 705,5 | 733,3 |
| | E | Α | 170,0 | 196,1 | 214,4 | 242,3 | 278,0 | 305,9 | 341,5 | 395,1 | 440,9 | 476,6 | 504,5 | 558,1 | 611,7 | 657,5 | 685,4 | 721,1 | 748,9 |
| | ٥ | А | 350,0 | 406,1 | 424,4 | 673,4 | 701,3 | 729,2 | 757,0 | 802,9 | 848,7 | 876,5 | 904,4 | 1004,8 | 1050,6 | 1104,2 | 1132,1 | 1160,0 | 1187,8 |
| Peak current (LRA) | A,L | Α | 350,0 | 406,1 | 424,4 | 673,4 | 701,3 | 729,2 | 757,0 | 802,9 | 848,7 | 876,5 | 904,4 | 1004,8 | 1058,4 | 1104,2 | 1132,1 | 1167,8 | 1195,6 |
| | E | А | 350,0 | 406,1 | 424,4 | 673,4 | 701,3 | 729,2 | 757,0 | 802,9 | 848,7 | 876,5 | 904,4 | 1020,4 | 1074,0 | 1119,8 | 1147,7 | 1183,4 | 1211,2 |

Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

Compressors

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------------------------|---------|------|------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | °,A,E,L | Туре | | | | | | | | | 0n-0ff | | | | | | | | |
| Number | °,A,E,L | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 9 |
| Circuits | °,A,E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Refrigerant | °,A,E,L | type | | | | | | | | | R32 | | | | | | | | |
| | ٥ | kg | 16,5 | 16,5 | 22,5 | 20,0 | 23,3 | 22,5 | 22,5 | 30,4 | 30,8 | 36,0 | 36,0 | 34,4 | 35,1 | 35,4 | 35,4 | 38,9 | 38,9 |
| Deficiency at least singuist 1 (1) | A | kg | 13,0 | 22,0 | 24,0 | 20,0 | 24,8 | 28,0 | 29,3 | 37,1 | 43,9 | 43,9 | 44,6 | 34,4 | 39,6 | 44,1 | 44,1 | 44,1 | 44,6 |
| Refrigerant load circuit 1 (1) | E | kg | 21,8 | 28,5 | 29,3 | 28,5 | 29,3 | 34,9 | 42,0 | 51,0 | 53,6 | 56,3 | 51,8 | 48,9 | 48,9 | 50,6 | 50,6 | 52,4 | 53,4 |
| | L | kg | 16,5 | 22,0 | 24,0 | 20,0 | 28,0 | 28,0 | 29,3 | 37,1 | 43,9 | 43,9 | 44,6 | 34,4 | 39,6 | 44,1 | 44,1 | 44,1 | 44,6 |
| | 0 | kg | 16,5 | 16,5 | 22,5 | 20,0 | 23,3 | 22,5 | 22,5 | 30,4 | 30,8 | 36,0 | 36,0 | 34,4 | 35,1 | 35,4 | 35,4 | 38,9 | 38,9 |
| Deficiency at least singuist 2 (1) | A | kg | 13,0 | 22,0 | 24,0 | 20,0 | 24,8 | 28,0 | 29,3 | 37,1 | 43,9 | 43,9 | 44,6 | 34,4 | 39,6 | 44,1 | 44,1 | 44,1 | 44,6 |
| Refrigerant load circuit 2 (1) | E | kg | 21,8 | 28,5 | 29,3 | 28,5 | 29,3 | 34,9 | 42,0 | 51,0 | 53,6 | 56,3 | 51,8 | 48,9 | 48,9 | 50,6 | 50,6 | 52,4 | 53,4 |
| | L | kg | 16,5 | 22,0 | 24,0 | 20,0 | 28,0 | 28,0 | 29,3 | 37,1 | 43,9 | 43,9 | 44,6 | 34,4 | 39,6 | 44,1 | 44,1 | 44,1 | 44,6 |
| Potential global heating | °,A,E,L | GWP | | | | | | | | 6 | 75kgCO ₂ e | :q | | | | | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

System side heat exchanger

| System side nedt exchanger | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|------|------|------|------|------|------|------|------|------|------------|------|------|------|------|------|------|------|------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | В | Brazed pla | te | | | | | | | |
| Number | °,A,E,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L | Туре | | | | | | | | Gı | rooved joi | nts | | | | | | | |
| | 0 | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Sizes (in/out) | A,L | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| - | E | Ø | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |

| Fans | | | | | | | | | | | | | | | | | | | |
|---------------|---------|------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------|----------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Fans: ° | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Axial | | | | | | | | |
| | 0 | no. | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 10 | 10 | 10 | 14 | 14 | 16 | 16 | 16 | 16 |
| Number | A,L | no. | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 16 | 16 | 16 | 18 | 18 |
| | E | no. | 6 | 8 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 | 22 | 22 |
| Fan | °,A | type | | | | | | | | As | synchrono | us | | | | | | | |
| Fan motor | E,L | type | | | | | | | | Asynchroi | nous with | phase cu | t | | | | | | |
| | 0 | m³/h | 82398 | 82398 | 82424 | 123596 | 123596 | 123561 | 123561 | 164866 | 205969 | 205969 | 205969 | 288399 | 288399 | 329594 | 329594 | 329598 | 329598 |
| A: | A | m³/h | 82403 | 123609 | 123609 | 123605 | 164779 | 164779 | 164779 | 205996 | 205998 | 247152 | 247152 | 288414 | 329556 | 329556 | 329556 | 370819 | 370819 |
| Air flow rate | E | m³/h | 102378 | 136491 | 136491 | 136491 | 170613 | 170613 | 204757 | 238871 | 238871 | 272982 | 272982 | 315634 | 349835 | 349835 | 349835 | 383943 | 383943 |
| | | | | | | | | | | | | | | | | | | | |

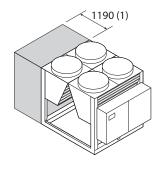
Sound data

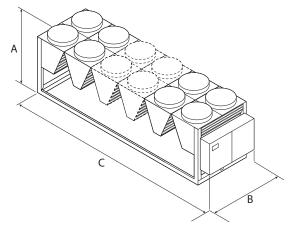
| Journa data | | | | | | | | | | | | | | | | | | | |
|--|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Sound data calculated in cooling mode (1 |) | | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | 90,5 | 90,5 | 90,5 | 92,3 | 92,4 | 92,5 | 92,6 | 93,8 | 94,7 | 94,7 | 94,8 | 96,5 | 96,6 | 97,1 | 97,1 | 97,2 | 97,3 |
| Carrad marrian larval | А | dB(A) | 90,5 | 92,2 | 92,2 | 92,3 | 93,6 | 93,6 | 93,7 | 94,6 | 94,7 | 95,4 | 95,5 | 96,5 | 97,1 | 97,1 | 97,1 | 97,6 | 97,7 |
| Sound power level | E | dB(A) | 85,2 | 86,2 | 86,2 | 87,0 | 88,3 | 88,8 | 89,7 | 90,1 | 90,2 | 90,9 | 91,2 | 92,2 | 92,5 | 92,6 | 92,8 | 93,3 | 93,5 |
| | L | dB(A) | 83,5 | 84,7 | 84,8 | 85,8 | 87,2 | 87,8 | 88,3 | 88,9 | 89,0 | 89,8 | 90,1 | 91,0 | 91,3 | 91,4 | 91,7 | 92,2 | 92,4 |
| | 0 | dB(A) | 58,4 | 58,4 | 58,4 | 60,0 | 60,1 | 60,2 | 60,4 | 61,3 | 62,1 | 62,2 | 62,2 | 63,7 | 63,7 | 64,1 | 64,2 | 64,3 | 64,3 |
| Sound procesure lovel (10 m) | Α | dB(A) | 58,4 | 59,9 | 59,9 | 60,0 | 61,2 | 61,2 | 61,3 | 62,1 | 62,1 | 62,8 | 62,8 | 63,7 | 64,1 | 64,1 | 64,2 | 64,6 | 64,6 |
| Sound pressure level (10 m) | E | dB(A) | 52,9 | 53,8 | 53,8 | 54,6 | 55,7 | 56,3 | 57,0 | 57,3 | 57,4 | 57,9 | 58,2 | 59,1 | 59,3 | 59,4 | 59,7 | 60,0 | 60,2 |
| | L | dB(A) | 51,4 | 52,5 | 52,5 | 53,5 | 54,8 | 55,4 | 55,9 | 56,4 | 56,5 | 57,1 | 57,4 | 58,2 | 58,4 | 58,5 | 58,8 | 59,1 | 59,4 |

m³/h 68237 102348 102348 102356 136528 136528 136528 170617 170614 204825 204825 238801 273004 273004 273004 307010 307010

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS





(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes: NRG 0800H°, 0900H°, 1000H° NRG 0800HL NRG 0800HA

| Cina | | | 0000 | 0000 | 1000 | 1100 | 1200 | 1400 | 1/00 | 1000 | 2000 | 2200 | 2400 | 2600 | 2000 | 2000 | 2200 | 2400 | 3600 |
|---|---|---------|---------|--------|--------|---------|--------|---------|--------|---------|---------|--------|--------|--------|---|--------|-------|----------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 0 | 00 | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | 0 A F I | | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | °,A,E,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| (| | mm | 2780 | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 5160 | 6350 | 6350 | 6350 | 8730 | 8730 | 9920 | 9920 | 9920 | 9920 |
| (| A,L | mm | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 7540 | 8730 | 9920 | 9920 | 9920 | 11110 | 11110 |
| w · | E | mm | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 8730 | 8730 | 9920 | 9920 | 11110 | 12300 | 12300 | 12300 | 13490 | 13490 |
| Weights | 0 | | | | | | | | | | | | | | | | | | |
| | | kg | 2350 | 2385 | 2385 | 3040 | 3185 | 3335 | 3585 | 4425 | 5200 | 5430 | 5540 | 7035 | 7310 | 8070 | 8185 | 8410 | 8520 |
| Empty weight | A,L | kg | 2350 | 2850 | 2860 | 3045 | 3770 | 3930 | 4170 | 4905 | 5230 | 5850 | 5880 | 7035 | 7800 | 8105 | 8220 | 8840 | 8930 |
| | E | kg | 2835 | 3460 | 3465 | 3650 | 4405 | 4405 | 4995 | 5800 | 6100 | 6795 | 6915 | 7980 | 8810 | 9090 | 9200 | 9845 | 9970 |
| Integrated hydronic kit: A | | ID, AE, | AF, AG | G, AH, | AI, AJ | , BA, I | BB, BC | , BD, I | BE, BF | , BG, B | SH, BI, | BJ, C | А, СВ, | CC, CD |), CE, C | F, CG, | CH, C | I, CJ, I | (A, |
| KB, KC, KD, KE, KF, KG, KH Dimensions and weights | , KI, KJ | | | | | | | | | | | | | | | | | | |
| Δ Millensions and weights | °,A,E,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| R | °,A,E,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| <u>D</u> | ,,,,,,, | mm | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 3970 | 5160 | 6350 | 6350 | 6350 | 8730 | 8730 | 9920 | 9920 | 9920 | 9920 |
| C | A,L | mm | 3970 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 7540 | 8730 | 9920 | 9920 | 9920 | 11110 | 11110 |
| | F | mm | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 8730 | 8730 | 9920 | 9920 | 11110 | 12300 | 12300 | 12300 | 13490 | 13490 |
| Weights | L | 111111 | 3710 | 3100 | 3100 | 3100 | 0330 | 0330 | 7370 | 0730 | 0730 | 7720 | 7720 | 11110 | 12300 | 12300 | 12300 | טלדנו | וועדכו |
| reigno | 0 | ka | 3350 | 3380 | 3380 | 3770 | 3915 | 4065 | 4315 | 5185 | 6000 | 6230 | 6345 | 7725 | 8005 | 8760 | 8875 | 9100 | 9210 |
| Empty weight | A,L | kg | 3330 | 3585 | 3595 | 3780 | 4530 | 4685 | 4925 | 5710 | 6035 | 6810 | 6840 | 7725 | 8005 | 8760 | 8875 | 9100 | 9210 |
| | F | ka | 3570 | 4215 | 4225 | 4180 | 5165 | 5165 | 5955 | 6765 | 7110 | 7680 | 7800 | 8875 | 9705 | 9985 | 10100 | 10745 | 10865 |
| Integrated hydronic kit: [| DA. DB. DC. I | | | | | | | | | | | | | | | | | | |
| PE, PF, PG, PH, PI, PJ | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,,,,, | , , , , | ٠, ٥ | ,, . | ,, . | ,, | ,, | ,, | ,, | , | ,,,,,, | -, , . | -, 5., | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , | , , . | ٥, ١ ٩, | , |
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | °,A,E,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 2780 | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 5160 | 6350 | 6350 | 6350 | 8730 | 8730 | 9920 | 9920 | 9920 | 9920 |
| C | A,L | mm | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 7540 | 8730 | 9920 | 9920 | 9920 | 11110 | 11110 |
| | E | mm | 3970 | 5160 | 5160 | 5160 | 6350 | 6350 | 7540 | 8730 | 8730 | 9920 | 9920 | 11110 | 12300 | 12300 | 12300 | 13490 | 13490 |
| Weights | | | | | | | | | | | | | | | | | | | |
| | 0 | kg | 2780 | 2810 | 2810 | 3465 | 3610 | 3760 | 4010 | 4790 | 5560 | 5795 | 5905 | 7420 | 7695 | 8450 | 8565 | 8790 | 8900 |
| Empty weight | A,L | kg | 2780 | 3280 | 3285 | 3475 | 4135 | 4290 | 4535 | 5270 | 5595 | 6210 | 6245 | 7420 | 8185 | 8485 | 8600 | 9220 | 9310 |
| | E | ka | 3200 | 3825 | 3830 | 4015 | 4770 | 4770 | 5360 | 6165 | 6465 | 7160 | 7280 | 8360 | 9190 | 9470 | 9585 | 10230 | 10350 |
| | | , | | | | | | | | | | | | | | | | | |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRB 0800-3600

Air-water chiller

Cooling capacity 217 ÷ 1049 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- HP floating: ESEER +7% with inverter fans





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

They are outdoor units with axial fan scroll compressors, microchannel batteries and plate exchangers.

In the unit with desuperheater, it is also possible to produce free-hot

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 51° C external air temperature. Unit can produce chilled water (up to -10° C of water produced in some versions).

Dual-circuit unit

Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

It is standard in all sizes from 1805 to 3600.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads. ESEER up to +7% with inverter fans.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

466 www.aermec.com NRB-0800-3600-CO_Y_CE50_11

CONFIGURATOR

Configuration options

| Cor | ıfigu | ration options |
|------|----------|---|
| Fiel | d | Description |
| 1,2, | .3 | NRB |
| 4,5, | 6,7 | Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800 3000, 3200, 3400, 3600 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve (1) |
| | X | Electronic thermostatic expansion valve (1) |
| | Υ | Low temperature mechanic thermostatic valve (2) |
| | Z | Low temperature electronic thermostatic valve (2) |
| 9 | | Model |
| | 0 | Cooling only |
| | C | Motocondensing unit (3) |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (4) |
| | T | With total recovery (5) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| | L | Standard silenced |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | 0 | Coils |
| | | Aluminium microchannel |
| | <u> </u> | Copper-aluminium |
| | 0 | Coated aluminium microchannel |
| | R | Copper-copper |
| _ | S | Tinned copper |
| | V | Copper-painted alumimium |
| 13 | | Fans |
| | J | Inverter |
| | М | Oversized |
| 14 | 0 | Power supply |
| | | 400V ~ 3 50Hz with magnet circuit breakers |
| 15, | 16 | Integrated hydronic kit |
| | | Without hydronic kit |
| | 00 | Without hydronic kit |
| _ | DA | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| _ | PD | Pump D |
| _ | PE | Pump E |
| | PF | Pump F |
| _ | PG | Pump G |
| | | |

| Field | Description |
|-------|---|
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (6) |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump (7) |
| DB | Pump B + stand-by pump (7) |
| DC | Pump C + stand-by pump (7) |
| DD | Pump D + stand-by pump (7) |
| DE | Pump E + stand-by pump (7) |
| DF | Pump F + stand-by pump (7) |
| DG | Pump G + stand-by pump (7) |
| DH | Pump H + stand-by pump (7) |
| DI | Pump I + stand-by pump (7) |
| DJ | Pump J + stand-by pump (8) |
| | Kit with storage tank and n° 1 pump |
| AA | Storage tank and pump A |
| AB | Storage tank and pump B |
| AC | Storage tank and pump C |
| AD | Storage tank and pump D |
| AE | Storage tank and pump E |
| AF | Storage tank and pump F |
| AG | Storage tank and pump G |
| AH | Storage tank and pump H |
| AI | Storage tank and pump l |
| AJ | Storage tank and pump J (6) |
| | Kit with storage tank and n° 1 pump + stand-by pump |
| BA | Storage tank with pump A + stand-by pump (7) |
| BB | Storage tank with pump B + stand-by pump (7) |
| BC | Storage tank with pump C + stand-by pump (7) |
| BD | Storage tank with pump D + stand-by pump (7) |
| BE | Storage tank with pump E + stand-by pump (7) |
| BF | Storage tank with pump F + stand-by pump (7) |
| BG | Storage tank with pump G + stand-by pump (7) |
| ВН | Storage tank with pump H + stand-by pump (7) |
| BI | Storage tank with pump I + stand-by pump (7) |
| BJ | Storage tank with pump J + stand-by pump (8) |

- (1) Water produced from 4 °C ÷ 18 °C (2) Processed water from 4°C to -8°C for the °-L versions, and from 4°C to -10°C for A E U N versions (3) Condensing units "C" are not compatible with the Y,X/Z/T/D option (4) The temperature of the water in the heat exchanger inlet must never drop below 35°C. (5) None of the hydronic kits (from PA to BJ) are compatible with the following sizes and with versions with heat recovery T: 0800 0900 1000 1100 version °; 0800 0900 version A; 0800 0900 version L. None of the hydronic kits with pump(s) and storage tank (from AA to BJ) are compatible with all the sizes and with versions with heat recovery T (6) For all configurations including pump J please contact the factory. (7) None of the hydronic kits with twin pump (from DA to DJ and from BA to BJ) are compatible for the following sizes and versions with desuperheater D: 1805 versions °-L-A, 2006-2206 version °. (8) For all combinations with pump J, please contact our head office. None of the hydronic kits with twin pump (from DA to DJ and from BA to BJ) are compatible for the following sizes and versions with desuperheater D: 1805 versions °-L-A, 2006-2206 version °.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the $\label{eq:AERAPP} \begin{tabular}{ll} AERAPP application is available both for Android and iOS systems. \end{tabular}$

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

XLA: The Kit, which consists of resistances for the electric power board and "J" inverter fans, allows the outdoor air temperature operating range to be extended from -10° C to -20° C outdoor air.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E,L,N,U | • | • | | | • | | | • | • | • | • | • | • | • | • | • | • |
| AERLINK | °,A,E,L,N,U | • | | | | | | | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L,N,U | • | • | | | • | | | • | • | • | • | • | • | • | • | • | • |
| FL | °,A,E,L,N,U | • | • | • | • | | | | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,A,E,L,N,U | • | • | | | • | | | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E,L,N,U | • | • | • | • | | | | • | • | • | • | • | • | • | • | • | • |

Condensation control temperature

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fans: M | | | | | | | | | |
| 0 | DCPX130 | DCPX130 | DCPX130 | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX155 | DCPX155 |
| A | DCPX130 | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX131 | DCPX132 | DCPX155 | DCPX156 |
| E,L,N | As standard |
| U | DCPX131 | DCPX131 | DCPX131 | DCPX132 | DCPX132 | DCPX132 | DCPX133 | DCPX134 | DCPX134 |
| Ver | 2206 | 2406 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |
| Fans: M | | | | | | | | | |
| 0 | DCPX155 | DCPX156 | DCPX133 | DCPX134 | 1 [| CPX134 | DCPX134 | DCPX135 | DCPX135 |
| A | DCPX156 | DCPX134 | DCPX135 | DCPX135 | 5 [|)CPX135 | DCPX136 | DCPX136 | DCPX136 |
| E,L,N | As standard | As standard | As standard | As standar | rd As | standard | As standard | As standard | As standard |
| U | DCPX135 | DCPX135 | DCPX136 | DCPX136 | i | OCPX137 | DCPX138 | DCPX138 | DCPX138 |

| Antivibration | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------------|-------------|-----------|------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | AVX805 | AVX805 | AVX805 | AVX805 | AVX808 | AVX808 | AVX808 | AVX810 | AVX810 | AVX810 | AVX809 | AVX815 | AVX819 | AVX819 | AVX819 | AVX818 | AVX818 |
| A,L | AVX805 | AVX805 | AVX806 | AVX808 | AVX808 | AVX808 | AVX810 | AVX810 | AVX809 | AVX809 | AVX863 | AVX813 | AVX818 | AVX818 | AVX816 | AVX816 | AVX816 |
| E,U | AVX806 | AVX806 | AVX808 | AVX807 | AVX807 | AVX810 | AVX809 | AVX863 | AVX863 | AVX813 | AVX813 | AVX816 | AVX816 | AVX817 | AVX820 | AVX820 | AVX820 |
| N | AVX807 | AVX807 | AVX807 | AVX809 | AVX809 | AVX809 | AVX863 | AVX812 | AVX812 | AVX814 | AVX814 | AVX817 | AVX817 | AVX820 | AVX821 | AVX821 | AVX821 |
| Integrated hydronic kit: AA, AB, AC, | AD, AE, AF, AG, | AH, AI, AJ, | BA, BB, B | C, BD, BE, | BF, BG, BI | 1 | | | | | | | | | | | |
| 0 | AVX844 | AVX844 | AVX844 | AVX844 | AVX844 | AVX848 | AVX848 | AVX845 | AVX845 | AVX845 | AVX847 | AVX853 | AVX857 | AVX859 | AVX859 | AVX858 | AVX858 |
| A,L | AVX844 | AVX844 | AVX844 | AVX844 | AVX844 | AVX848 | AVX845 | AVX845 | AVX847 | AVX847 | AVX849 | AVX854 | AVX858 | AVX858 | AVX861 | AVX861 | AVX861 |
| E,U | AVX844 | AVX844 | AVX844 | AVX845 | AVX845 | AVX845 | AVX847 | AVX849 | AVX849 | AVX851 | AVX851 | AVX855 | AVX855 | AVX856 | AVX860 | AVX860 | AVX860 |
| N | AVX845 | AVX845 | AVX845 | AVX847 | AVX847 | AVX847 | AVX849 | AVX850 | AVX851 | AVX852 | AVX852 | AVX856 | AVX856 | AVX860 | AVX862 | AVX862 | AVX862 |
| Integrated hydronic kit: BI, BJ | | | | | | | | | | | | | | | | | |
| 0 | AVX844 | AVX844 | AVX844 | AVX844 | AVX846 | AVX848 | AVX848 | AVX845 | AVX845 | AVX845 | AVX847 | AVX853 | AVX857 | AVX859 | AVX859 | AVX858 | AVX858 |
| A,L | AVX844 | AVX844 | AVX846 | AVX846 | AVX846 | AVX848 | AVX845 | AVX845 | AVX847 | AVX847 | AVX849 | AVX854 | AVX858 | AVX858 | AVX861 | AVX861 | AVX861 |
| E,U | AVX844 | AVX844 | AVX846 | AVX845 | AVX845 | AVX845 | AVX847 | AVX849 | AVX849 | AVX851 | AVX851 | AVX855 | AVX855 | AVX856 | AVX860 | AVX860 | AVX860 |
| N | AVX845 | AVX845 | AVX845 | AVX847 | AVX847 | AVX847 | AVX849 | AVX850 | AVX851 | AVX852 | AVX852 | AVX856 | AVX856 | AVX860 | AVX862 | AVX862 | AVX862 |
| Integrated hydronic kit: DA, DB, DC, | , PA, PB, PC, PD, | PE, PF, PC | i, PH | | | | | | | | | | | | | | |
| 0 | AVX822 | AVX822 | AVX822 | AVX822 | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX826 | AVX828 | AVX834 | AVX839 | AVX839 | AVX839 | AVX840 | AVX840 |
| A,L | AVX822 | AVX822 | AVX825 | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX828 | AVX828 | AVX830 | AVX835 | AVX840 | AVX840 | AVX842 | AVX842 | AVX842 |
| E,U | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX826 | AVX828 | AVX830 | AVX830 | AVX832 | AVX832 | AVX836 | AVX836 | AVX837 | AVX841 | AVX841 | AVX841 |
| N | AVX826 | AVX826 | AVX826 | AVX828 | AVX828 | AVX828 | AVX830 | AVX831 | AVX831 | AVX833 | AVX833 | AVX837 | AVX837 | AVX841 | AVX843 | AVX843 | AVX843 |
| Integrated hydronic kit: DD, DE, DF, | DG, DH, PI, PJ | | | | | | | | | | | | | | | | |
| 0 | AVX823 | AVX823 | AVX823 | AVX823 | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX826 | AVX829 | AVX834 | AVX839 | AVX839 | AVX839 | AVX840 | AVX840 |
| A,L | AVX823 | AVX823 | AVX825 | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX829 | AVX829 | AVX830 | AVX835 | AVX840 | AVX840 | AVX842 | AVX842 | AVX842 |
| E,U | AVX825 | AVX825 | AVX825 | AVX826 | AVX826 | AVX826 | AVX829 | AVX830 | AVX830 | AVX832 | AVX832 | AVX836 | AVX836 | AVX838 | AVX841 | AVX841 | AVX841 |
| N | AVX826 | AVX826 | AVX826 | AVX829 | AVX829 | AVX829 | AVX830 | AVX831 | AVX831 | AVX833 | AVX833 | AVX838 | AVX838 | AVX841 | AVX843 | AVX843 | AVX843 |

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydronic kit: DI, DJ | | | | | | | | | | | | | | | | | |
| 0 | AVX864 | AVX864 | AVX829 | AVX864 | AVX825 | AVX825 | AVX827 | AVX827 | AVX827 | AVX827 | AVX829 | AVX834 | AVX839 | AVX839 | AVX839 | AVX840 | AVX840 |
| A,L | AVX864 | AVX864 | AVX825 | AVX825 | AVX825 | AVX825 | AVX827 | AVX827 | AVX829 | AVX829 | AVX830 | AVX835 | AVX840 | AVX840 | AVX842 | AVX842 | AVX842 |
| E,U | AVX825 | AVX825 | AVX825 | AVX827 | AVX827 | AVX827 | AVX829 | AVX830 | AVX830 | AVX832 | AVX832 | AVX836 | AVX836 | AVX838 | AVX841 | AVX841 | AVX841 |
| N | AVX827 | AVX827 | AVX827 | AVX829 | AVX829 | AVX829 | AVX830 | AVX831 | AVX831 | AVX833 | AVX833 | AVX838 | AVX838 | AVX841 | AVX843 | AVX843 | AVX843 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °.A.E.L.N.U | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) | DRENRB2006 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------------|----------------|----------------|------|------|------|------|------|------|
| °,A,E,L,N,U | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - | - |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ٥ | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1600 | RIFNRB1805 | RIFNRB2006 |
| A,L | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1601 | RIFNRB1805 | RIFNRB2006 |
| E,U | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |
| N | RIFNRB0801 | RIFNRB0901 | RIFNRB1001 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | RIFNRB2206 | RIFNRB2406 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| A,L | RIFNRB2206 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| E,N,U | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 0 | GP2VN | GP2VN | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP4G | GP4G | GP4G | GP5G | GP5VN | GP6V | GP6V | GP6V | GP7V | GP7V |
| A,L | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4G | GP5G | GP5G | GP6V | GP7V | GP7V | GP7V | GP8V | GP8V | GP8V |
| E,U | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP10V | GP10V | GP10V |
| N | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP11V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

■ GP2VN becomes GP2VNA if configured with a type A or B hydronic

Double safety valves

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| o | T6NRB13 | T6NRB13 | T6NRB13 | T6NRB13 | T6NRB15 |
| A,L | T6NRB13 | T6NRB13 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB16 |
| E,U | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB17 | T6NRB16 | T6NRB19 | T6NRB19 |
| N | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB18 | T6NRB19 | T6NRB19 | T6NRB20 | T6NRB20 |

A grey background indicates the accessory must be assembled in the factory

Kit for low temperature

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0 | - | - | - | - | - | - | - | XLA (1) |
| A,L | - | - | - | - | - | - | XLA (1) |
| E,U | - | - | - | XLA (1) |
| N | XLA (1) |

(1) With the accessory XLA do not use the DCPX. The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

PERFORMANCE SPECIFICATIONS

NRB - °

| 4 | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 221,5 | 244,5 | 270,3 | 299,7 | 353,1 | 404,9 | 439,0 | 511,2 | 560,9 | 598,2 | 675,8 | 721,6 | 786,8 | 830,6 | 880,2 | 945,8 | 998,2 |
| Input power | kW | 73,3 | 83,1 | 94,1 | 110,3 | 117,5 | 135,4 | 155,1 | 175,7 | 194,0 | 216,6 | 236,5 | 256,0 | 270,3 | 292,6 | 314,7 | 329,4 | 355,2 |
| Cooling total input current | А | 128,3 | 143,1 | 160,0 | 185,5 | 201,6 | 229,9 | 260,8 | 299,7 | 329,8 | 366,5 | 404,6 | 434,0 | 459,4 | 498,2 | 534,6 | 562,9 | 606,0 |
| EER | W/W | 3,02 | 2,94 | 2,87 | 2,72 | 3,00 | 2,99 | 2,83 | 2,91 | 2,89 | 2,76 | 2,86 | 2,82 | 2,91 | 2,84 | 2,80 | 2,87 | 2,81 |
| Water flow rate system side | l/h | 38117 | 42077 | 46498 | 51565 | 60733 | 69640 | 75512 | 87913 | 96469 | 102883 | 116222 | 124100 | 135305 | 142813 | 151332 | 162608 | 171611 |
| Pressure drop system side | kPa | 46 | 55 | 38 | 45 | 44 | 39 | 46 | 40 | 47 | 53 | 52 | 58 | 60 | 36 | 39 | 46 | 43 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - L

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 216,9 | 237,7 | 272,7 | 307,7 | 343,9 | 391,0 | 438,4 | 498,2 | 555,4 | 608,2 | 666,2 | 727,2 | 770,0 | 834,2 | 886,6 | 952,6 | 1004,1 |
| Input power | kW | 73,0 | 85,9 | 92,0 | 107,4 | 122,7 | 139,0 | 151,9 | 173,3 | 191,6 | 213,6 | 233,8 | 246,8 | 270,1 | 284,5 | 307,5 | 323,1 | 347,9 |
| Cooling total input current | Α | 122,8 | 142,3 | 154,5 | 179,0 | 203,4 | 231,8 | 250,8 | 289,7 | 318,6 | 359,2 | 390,2 | 412,6 | 448,8 | 478,6 | 512,6 | 544,6 | 585,4 |
| EER | W/W | 2,97 | 2,77 | 2,97 | 2,87 | 2,80 | 2,81 | 2,89 | 2,87 | 2,90 | 2,85 | 2,85 | 2,95 | 2,85 | 2,93 | 2,88 | 2,95 | 2,89 |
| Water flow rate system side | l/h | 37323 | 40891 | 46905 | 52926 | 59137 | 67243 | 75381 | 85669 | 95498 | 104586 | 114564 | 125029 | 132382 | 143408 | 152424 | 163777 | 172632 |
| Pressure drop system side | kPa | 25 | 20 | 27 | 24 | 29 | 23 | 30 | 28 | 37 | 36 | 44 | 28 | 31 | 30 | 34 | 39 | 43 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - A

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 224,1 | 252,2 | 283,7 | 326,1 | 361,2 | 411,7 | 462,2 | 519,2 | 576,0 | 633,3 | 697,6 | 757,5 | 805,8 | 867,0 | 928,7 | 980,8 | 1026,8 |
| Input power | kW | 70,6 | 80,9 | 90,2 | 104,7 | 115,3 | 131,8 | 147,6 | 166,3 | 183,5 | 203,1 | 223,3 | 240,5 | 256,5 | 277,0 | 297,0 | 314,4 | 330,3 |
| Cooling total input current | A | 123,9 | 139,9 | 158,8 | 181,8 | 198,2 | 224,1 | 252,4 | 283,8 | 316,2 | 348,7 | 386,3 | 417,6 | 441,6 | 475,9 | 513,3 | 541,6 | 567,7 |
| EER | W/W | 3,17 | 3,12 | 3,15 | 3,12 | 3,13 | 3,12 | 3,13 | 3,12 | 3,14 | 3,12 | 3,12 | 3,15 | 3,14 | 3,13 | 3,13 | 3,12 | 3,11 |
| Water flow rate system side | l/h | 38561 | 43394 | 48802 | 56076 | 62118 | 70789 | 79487 | 89271 | 99048 | 108894 | 119965 | 130236 | 138537 | 149048 | 159671 | 168622 | 176531 |
| Pressure drop system side | kPa | 27 | 22 | 30 | 27 | 32 | 25 | 34 | 30 | 39 | 39 | 48 | 30 | 34 | 32 | 38 | 41 | 45 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - E

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 219,2 | 248,3 | 275,0 | 321,4 | 358,7 | 403,2 | 455,0 | 514,5 | 569,0 | 637,2 | 688,3 | 741,1 | 794,3 | 857,9 | 911,7 | 965,1 | 1019,4 |
| Input power | kW | 69,6 | 79,4 | 88,5 | 102,2 | 114,9 | 129,8 | 144,5 | 164,7 | 183,0 | 203,4 | 221,4 | 236,5 | 255,5 | 274,7 | 290,6 | 310,5 | 327,8 |
| Cooling total input current | Α | 119,5 | 134,7 | 148,8 | 172,1 | 192,6 | 215,7 | 240,1 | 275,1 | 306,1 | 342,6 | 372,8 | 397,0 | 425,9 | 459,5 | 487,5 | 520,6 | 549,0 |
| EER | W/W | 3,15 | 3,13 | 3,11 | 3,15 | 3,12 | 3,11 | 3,15 | 3,12 | 3,11 | 3,13 | 3,11 | 3,13 | 3,11 | 3,12 | 3,14 | 3,11 | 3,11 |
| Water flow rate system side | l/h | 37710 | 42726 | 47303 | 55271 | 61679 | 69338 | 78240 | 88465 | 97841 | 109550 | 118323 | 127417 | 136570 | 147496 | 156744 | 165934 | 175268 |
| Pressure drop system side | kPa | 19 | 23 | 20 | 27 | 21 | 27 | 26 | 33 | 33 | 22 | 25 | 30 | 34 | 33 | 38 | 41 | 46 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - U

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,6 | 257,6 | 286,5 | 329,6 | 369,8 | 414,6 | 466,9 | 529,2 | 594,0 | 655,1 | 716,9 | 765,5 | 815,3 | 879,0 | 940,9 | 999,7 | 1049,5 |
| Input power | kW | 68,8 | 77,7 | 86,8 | 99,5 | 111,7 | 126,1 | 140,9 | 159,5 | 179,0 | 197,8 | 215,3 | 229,4 | 248,9 | 265,7 | 282,3 | 302,5 | 319,5 |
| Cooling total input current | Α | 124,3 | 138,5 | 152,9 | 176,0 | 195,6 | 218,0 | 244,0 | 278,3 | 311,7 | 347,7 | 377,4 | 401,2 | 431,5 | 463,1 | 493,9 | 527,9 | 556,4 |
| EER | W/W | 3,30 | 3,31 | 3,30 | 3,31 | 3,31 | 3,28 | 3,31 | 3,32 | 3,32 | 3,31 | 3,33 | 3,34 | 3,28 | 3,31 | 3,33 | 3,30 | 3,28 |
| Water flow rate system side | l/h | 39151 | 44308 | 49294 | 56689 | 63596 | 71302 | 80286 | 91003 | 102137 | 112618 | 123250 | 131616 | 140179 | 151126 | 161768 | 171875 | 180443 |
| Pressure drop system side | kPa | 20 | 25 | 21 | 29 | 23 | 28 | 27 | 35 | 36 | 23 | 27 | 32 | 36 | 35 | 40 | 44 | 49 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - N

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,7 | 260,4 | 284,7 | 327,7 | 367,7 | 412,3 | 466,1 | 521,6 | 579,1 | 645,7 | 702,6 | 749,4 | 804,7 | 866,4 | 926,7 | 973,5 | 1029,9 |
| Input power | kW | 68,5 | 78,9 | 86,4 | 98,5 | 111,9 | 125,4 | 140,4 | 157,8 | 176,0 | 194,6 | 212,9 | 229,0 | 246,7 | 263,5 | 282,7 | 301,1 | 319,3 |
| Cooling total input current | Α | 118,2 | 135,1 | 146,9 | 166,9 | 188,6 | 209,4 | 234,0 | 264,2 | 295,4 | 328,9 | 360,0 | 385,3 | 412,5 | 442,0 | 475,2 | 506,2 | 536,4 |
| EER | W/W | 3,32 | 3,30 | 3,30 | 3,33 | 3,29 | 3,29 | 3,32 | 3,31 | 3,29 | 3,32 | 3,30 | 3,27 | 3,26 | 3,29 | 3,28 | 3,23 | 3,23 |
| Water flow rate system side | l/h | 39166 | 44792 | 48972 | 56365 | 63234 | 70905 | 80151 | 89691 | 99569 | 111009 | 120789 | 128849 | 138355 | 148961 | 159328 | 167377 | 177077 |
| Pressure drop system side | kPa | 20 | 25 | 21 | 28 | 23 | 28 | 27 | 34 | 34 | 23 | 26 | 30 | 35 | 34 | 39 | 42 | 47 |
| | | | | | | | | | | | | | | | | | | |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size ENERGY INDICES (REG. | | 81 EU | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|--------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Fans: J | | | | | | | 00 | | | .505 | | | | | | | | 2.00 | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 4,44 | 4,33 | 4,27 | 4,25 | 4,39 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | W/W | 4,65 | 4,55 | 4,66 | 4,70 | 4,69 | 4,73 | 4,76 | 4,64 | 4,64 | 4,62 | 4,61 | 4,68 | 4,66 | 4,66 | 4,68 | 4,64 | 4,63 |
| SEER | E | W/W | 4,75 | 4,67 | 4,63 | 4,81 | 4,82 | 4,76 | 4,88 | 4,73 | 4,67 | 4,70 | 4,74 | 4,69 | 4,71 | 4,74 | 4,80 | 4,72 | 4,73 |
| JEH | L | W/W | 4,56 | 4,42 | 4,50 | 4,51 | 4,58 | 4,59 | 4,67 | 4,56 | 4,56 | 4,58 | 4,57 | 4,61 | 4,56 | 4,57 | 4,58 | 4,62 | 4,56 |
| | N | W/W | 4,85 | 4,79 | 4,83 | 4,96 | 4,93 | 4,97 | 5,03 | 4,93 | 4,82 | 4,89 | 4,83 | 4,89 | 4,80 | 4,84 | 4,83 | 4,73 | 4,73 |
| | U | W/W | 4,76 | 4,75 | 4,71 | 4,89 | 4,85 | 4,86 | 4,91 | 4,84 | 4,77 | 4,82 | 4,78 | 4,87 | 4,81 | 4,85 | 4,92 | 4,83 | 4,81 |
| | | % | 174,60 | 170,10 | 167,60 | 167,10 | 172,70 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A E | % | 182,80 | 179,10 | 183,40 | 185,00 | 184,70 | 186,20 | 187,30 | 182,70 | 182,40 | 181,70 | 181,50 | 184,20 | 183,50 | 183,30 | 184,00 | 182,70 | 182,00 |
| Seasonal efficiency | | <u>%</u> % | 187,00 179,20 | 183,70 173,80 | 182,00 177,00 | 189,30 177,50 | 189,60 180,10 | 187,50 180,40 | 192,30 183,90 | 186,20 179,50 | 183,90 179,40 | 184,80 180,10 | 186,40 179,60 | 184,70 181,30 | 185,30 179,40 | 186,40 179,90 | 189,10 180,30 | 185,80 181,60 | 186,10 179,30 |
| | L | | 191,10 | 188,40 | 190,30 | 195,40 | 194,20 | 195,90 | 198,10 | 194,10 | 189,90 | 192,40 | 190,00 | 192,70 | 189,10 | 190,60 | 190,20 | 186,30 | 186,20 |
| | U | % | 187,40 | 187,10 | 185,20 | 192,50 | 191,00 | 191,30 | 193,30 | 190,70 | 187,70 | 189,60 | 188,10 | 191,90 | 189,40 | 191,10 | 193,80 | 190,00 | 189,40 |
| SEER - 23/18 (EN14825: 2018) (3) | | /0 | 107,10 | 107,10 | 103,20 | 172,30 | 171,00 | 171,30 | 173,30 | 170,70 | 107,70 | 107,00 | 100,10 | 171,70 | 102,10 | 171,10 | 173,00 | 170,00 | 102,10 |
| 2211 25, 10 (2111 10251 2010) (5) | 0 | W/W | 5,28 | 5,16 | 5,07 | 4,96 | 5,40 | 5,44 | 5,18 | 5,07 | 5,13 | 4,77 | 5,07 | 5,09 | 5,09 | 4,98 | 4,92 | 5,09 | 5,01 |
| | A | W/W | 5,50 | 5,35 | 5,50 | 5,51 | 5,55 | 5,55 | 5,63 | 5,34 | 5,44 | 5,30 | 5,42 | 5,41 | 5,43 | 5,38 | 5,43 | 5,36 | 5,40 |
| crep. | E | W/W | 5,62 | 5,53 | 5,46 | 5,70 | 5,69 | 5,63 | 5,77 | 5,50 | 5,52 | 5,48 | 5,59 | 5,47 | 5,41 | 5,47 | 5,77 | 5,50 | 5,51 |
| SEER | L | W/W | 5,34 | 5,14 | 5,35 | 5,33 | 5,37 | 5,34 | 5,47 | 5,26 | 5,32 | 5,20 | 5,26 | 5,35 | 5,20 | 5,25 | 5,21 | 5,32 | 5,23 |
| | N | W/W | 5,92 | 5,71 | 5,76 | 5,91 | 5,88 | 5,91 | 5,99 | 5,75 | 5,74 | 5,71 | 5,75 | 5,74 | 5,55 | 5,62 | 5,64 | 5,54 | 5,54 |
| | U | W/W | 5,65 | 5,67 | 5,59 | 5,82 | 5,76 | 5,80 | 5,83 | 5,67 | 5,69 | 5,61 | 5,68 | 5,77 | 5,59 | 5,66 | 5,85 | 5,70 | 5,69 |
| | • | % | 208,10 | 203,40 | 199,80 | 195,40 | 212,90 | 214,50 | 204,10 | 199,90 | 202,10 | 187,80 | 199,60 | 200,40 | 200,40 | 196,10 | 193,90 | 200,40 | 197,40 |
| | A | % | 217,00 | 210,90 | 217,00 | 217,50 | 219,10 | 219,10 | 222,10 | 210,50 | 214,60 | 209,10 | 213,60 | 213,40 | 214,20 | 212,00 | 214,30 | 211,50 | 213,00 |
| Seasonal efficiency | E | % | 221,90 | 218,30 | 215,30 | 224,90 | 224,50 | 222,20 | 227,70 | 216,80 | 217,70 | 216,00 | 220,60 | 215,70 | 213,40 | 215,60 | 227,90 | 216,80 | |
| seasonal emelency | L | % | 210,40 | 202,70 | 211,00 | 210,20 | 211,60 | 210,40 | 215,80 | 207,40 | 209,70 | 205,10 | 207,50 | 211,00 | 204,80 | 206,90 | 205,40 | 209,90 | 206,20 |
| | N | % | 229,90 | 225,30 | 227,50 | 233,50 | 232,10 | 233,40 | 236,40 | 226,80 | 226,40 | 225,50 | 227,10 | 226,40 | 219,10 | 221,60 | 222,40 | 218,40 | 218,50 |
| 4000 (0044000 0040)(0) | U | % | 222,80 | 223,70 | 220,70 | 229,90 | 227,50 | 228,80 | 230,20 | 223,80 | 224,50 | 221,50 | 224,00 | 227,80 | 220,60 | 223,40 | 231,00 | 225,00 | 224,40 |
| SEPR - (EN 14825: 2018) (3) | 0 | 141.041 | F 20 | 5.22 | F 47 | 5.03 | 5.24 | F F4 | F F2 | | 5.53 | F F4 | | F F2 | 5.53 | | | F F4 | |
| | | W/W | 5,39 | 5,22 | 5,17 | 5,03 | 5,36 | 5,51 | 5,52 | 5,58 | 5,52 | 5,51 | 5,51 | 5,52 | 5,53 | 5,54 | 5,55 | 5,51 | 5,53 |
| | A | W/W | 5,64 | 5,29 | 5,58 | 5,30 | 5,55 | 5,52 | 5,56 | 5,56 | 5,57 | 5,55 | 5,55 | 5,54 | 5,59 | 5,55 | 5,59 | 5,56 | 5,56 |
| SEPR | E | W/W | 5,56 | 5,22 | 5,47 | 5,25 | 5,52 | 5,56 | 5,58 | 5,54 | 5,53 | 5,55 | 5,55 | 5,56 | 5,53 | 5,55 | 5,53 | 5,51 | 5,55 |
| | L | W/W | 5,32 | 5,05 | 5,31 | 5,04 | 5,18 | 5,05 | 5,53 | 5,53 | 5,53 | 5,52 | 5,54 | 5,54 | 5,54 | 5,52 | 5,54 | 5,52 | 5,53 |
| | N | W/W W/W | 5,69 5,67 | 5,55 5,54 | 5,67 5,66 | 5,60 5,54 | 5,64 | 5,62 5,59 | 5,66 | 5,57 5,55 | 5,67 5,55 | 5,60 5,58 | 5,64 | 5,61 5,74 | 5,51 5,60 | 5,63 5,70 | 5,69 | 5,51 5,71 | 5,63 5,58 |
| Fans: M | | VV / VV | 3,07 | J,J4 | 3,00 | 3,34 | 3,00 | 3,37 | 3,03 | رد,د | 3,33 | 3,30 | 3,12 | 3,/4 | 3,00 | 3,70 | 3,07 | J,/ I | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | |
| JEER 12/7 (ER14023: 2010) (1) | 0 | W/W | 4,23 | 4,13 | 4,10 | 4,11 | 4,19 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | W/W | 4,41 | 4,34 | 4,39 | 4,45 | 4,48 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | E | W/W | 4,47 | 4,40 | 4,40 | 4,54 | 4,54 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| SEER | L | W/W | 4,31 | 4,17 | 4,25 | 4,27 | 4,31 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | N | W/W | 4,61 | 4,56 | 4,58 | 4,72 | 4,68 | 4,72 | 4,78 | 4,66 | 4,58 | 4,61 | 4,62 | 4,64 | 4,59 | 4,62 | 4,60 | 4,59 | 4,62 |
| | U | W/W | 4,51 | 4,51 | 4,51 | 4,63 | 4,64 | 4,65 | 4,70 | 4,61 | 4,56 | 4,57 | 4,59 | 4,58 | 4,56 | 4,59 | 4,57 | 4,56 | 4,56 |
| | | % | 166,00 | 162,30 | 161,00 | 161,20 | 164,70 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | % | 173,50 | 170,60 | 172,40 | 174,90 | 176,00 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| Seasonal efficiency | E | % | 175,60 | 173,10 | 173,10 | 178,70 | 178,50 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| Scasonar emelency | L | % | 169,40 | 163,60 | 166,80 | 167,60 | 169,20 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | N | % | | 179,30 | 180,00 | 185,70 | | 185,90 | 188,20 | 183,40 | 180,30 | 181,50 | 181,60 | 182,70 | 180,60 | 181,70 | | 180,60 | |
| 4000 pp (40 (0)) 4 (0) | U | % | 177,20 | 177,40 | 177,20 | 182,10 | 182,50 | 183,10 | 184,80 | 181,40 | 179,20 | 179,90 | 180,50 | 180,30 | 179,30 | 180,60 | 179,70 | 179,50 | 179,30 |
| SEER - 23/18 (EN14825: 2018) (3) | 0 | 111011 | | | | | | | | | | | | | | | | | |
| | | W/W | 5,08 | 4,98 | 4,92 | 4,82 | 5,20 | 5,26 | 5,03 | 4,91 | 4,97 | 4,63 | 4,91 | 4,84 | 4,86 | 4,77 | 4,73 | 4,85 | 4,81 |
| | A | W/W | 5,29 | 5,15 | 5,25 | 5,28 | 5,35 | 5,37 | 5,42 | 5,15 | 5,22 | 5,09 | 5,22 | 5,30 | 5,18 | 5,15 | 5,17 | 5,13 | 5,13 |
| SEER | E | W/W | 5,36 | 5,24 | 5,28 | 5,40 | 5,43 | 5,37 | 5,54 | 5,21 | 5,22 | 5,21 | 5,30 | 5,33 | 5,14 | 5,17 | 5,22 | 5,17 | 5,21 |
| | L | W/W | 5,06 | 4,87 | 5,07 | 5,08 | 5,05 | 5,10 | 5,19 | 5,02 | 5,02 | 4,92 | 4,99 | 5,21 | 4,94 | 5,03 | 4,99 | 5,06 | 5,07 |
| | N | W/W | 5,57 | 5,47 | 5,50 | 5,66 | 5,61 | 5,65 | 5,73 | 5,48 | 5,48 | 5,44 | 5,54 | 5,48 | 5,32 | 5,37 | 5,37 | 5,29 | 5,32 |
| | U | W/W 06 | 5,41 | 5,44 | 5,41 | 5,58 | 5,56 | 5,60 207,30 | 5,63 | 5,46 | 5,49 | 5,39 | 5,50 | 5,57 | 5,29 | 5,35 | 5,48 | 5,36 | 5,38 |
| | | % | 200,10 | 196,00 | 193,60 | 189,90 | 205,10 211,10 | | 198,30 | 193,30 | 195,70 | 182,00 | 193,50 | 190,60 | 191,50 | 187,90 | 186,00 | 191,00 | |
| | A E | % | 208,40 | 203,00 | 206,80 | | | | | 203,10 | | 200,60 | 205,60 | | 204,00 | 203,00 | | 202,10 | |
| Seasonal efficiency | t | <u>%</u> % | 211,40 199,40 | | 208,30 199,70 | 213,00 | 199,10 | 211,80 | | 197,70 | 205,70 197,60 | 205,30 193,90 | 208,90 196,40 | 210,30 205,20 | 202,40 194,50 | 203,90 198,00 | 205,90 196,40 | 203,70 199,50 | |
| | N N | | | 215,80 | | | | | | 216,00 | | | 218,40 | | | 211,60 | | 208,50 | |
| | N | | | | | | | | | | 216,40 | | | | | 211,00 | | 211,40 | |
| (1) Calculation performed with FIXED water | | | | _ | ۷۱۵٫۵۷ | 220,00 | Z 17,JU | 441,00 | 222,20 | 213,30 | 410,40 | £ 12,JU | 210,70 | 417,10 | 200,70 | 411,10 | 210,10 | 411,40 | 212,00 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C/7°C
(3) Calculation performed with FIXED water flow rate.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,39 | 5,22 | 5,17 | 5,03 | 5,36 | 5,51 | 5,52 | 5,58 | 5,52 | 5,51 | 5,51 | 5,52 | 5,53 | 5,54 | 5,55 | 5,51 | 5,53 |
| | A | W/W | 5,64 | 5,29 | 5,58 | 5,30 | 5,55 | 5,52 | 5,56 | 5,56 | 5,57 | 5,55 | 5,55 | 5,54 | 5,59 | 5,55 | 5,59 | 5,56 | 5,56 |
| SEPR | E | W/W | 5,56 | 5,22 | 5,47 | 5,25 | 5,52 | 5,56 | 5,58 | 5,54 | 5,53 | 5,55 | 5,55 | 5,56 | 5,53 | 5,55 | 5,53 | 5,51 | 5,55 |
| SERK | L | W/W | 5,32 | 5,05 | 5,31 | 5,04 | 5,18 | 5,05 | 5,53 | 5,53 | 5,53 | 5,52 | 5,54 | 5,54 | 5,54 | 5,52 | 5,54 | 5,52 | 5,53 |
| | N | W/W | 5,69 | 5,55 | 5,67 | 5,60 | 5,64 | 5,62 | 5,66 | 5,57 | 5,63 | 5,60 | 5,64 | 5,61 | 5,51 | 5,63 | 5,69 | 5,51 | 5,63 |
| | U | W/W | 5,67 | 5,54 | 5,66 | 5,54 | 5,68 | 5,59 | 5,69 | 5,55 | 5,55 | 5,58 | 5,72 | 5,74 | 5,60 | 5,70 | 5,67 | 5,71 | 5,58 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | 164,3 | 180,7 | 197,0 | 226,4 | 262,1 | 291,1 | 320,1 | 371,3 | 416,0 | 445,0 | 480,4 | 529,4 | 568,6 | 609,5 | 650,4 | 697,7 | 738,6 |
| Maximum surrent (FLA) | A,L | Α | 177,1 | 193,4 | 222,5 | 251,8 | 281,2 | 310,2 | 351,9 | 396,7 | 454,2 | 483,2 | 530,8 | 592,5 | 625,4 | 666,3 | 719,9 | 760,8 | 801,8 |
| Maximum current (FLA) | E,U | Α | 189,8 | 206,1 | 222,5 | 264,5 | 293,9 | 322,9 | 364,6 | 428,0 | 472,8 | 514,5 | 543,5 | 605,2 | 638,1 | 691,7 | 745,4 | 786,3 | 827,2 |
| | N | Α | 202,5 | 218,8 | 235,2 | 277,3 | 306,6 | 335,6 | 383,2 | 440,7 | 485,5 | 527,2 | 556,2 | 617,9 | 650,8 | 704,4 | 758,1 | 799,0 | 839,9 |
| | 0 | Α | 352,9 | 408,1 | 424,4 | 477,1 | 512,8 | 625,3 | 654,3 | 705,5 | 750,3 | 779,3 | 814,6 | 798,7 | 837,9 | 878,8 | 919,7 | 967,0 | 1007,9 |
| Dook surrent (LDA) | A,L | Α | 365,6 | 420,8 | 449,9 | 502,5 | 531,9 | 644,4 | 686,1 | 730,9 | 788,4 | 817,4 | 865,0 | 861,8 | 894,6 | 935,6 | 989,2 | 1030,1 | 1071,0 |
| Peak current (LRA) | E,U | Α | 378,3 | 433,5 | 449,9 | 515,3 | 544,6 | 657,1 | 698,8 | 762,2 | 807,0 | 848,7 | 877,7 | 874,5 | 907,4 | 961,0 | 1014,6 | 1055,6 | 1096,5 |
| | N | Α | 391,1 | 446,2 | 462,6 | 528,0 | 557,3 | 669,8 | 717,4 | 774,9 | 819,7 | 861,4 | 890,4 | 887,2 | 920,1 | 973,7 | 1027,4 | 1068,3 | 1109,2 |

GENERAL TECHNICAL DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|---------------|-----------|------|------|------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | °,A,E,L,N,U | Туре | | | | | | | | A | synchrono | us | | | | | | | |
| Number | °,A,E,L,N,U | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | | | | | R410A | | | | | | | | |
| | 0 | kg | 14,0 | 14,5 | 15,0 | 16,0 | 20,5 | 21,0 | 21,0 | 26,0 | 26,0 | 26,0 | 31,0 | 30,0 | 41,0 | 45,0 | 41,0 | 48,0 | 48,0 |
| Refrigerant load | A,L | kg | 15,0 | 16,0 | 20,0 | 22,0 | 21,0 | 22,5 | 23,5 | 25,0 | 30,0 | 31,0 | 32,5 | 42,0 | 49,0 | 59,0 | 65,0 | 56,0 | 52,0 |
| circuit 1 (1) | E,U | kg | 20,5 | 20,0 | 21,5 | 26,0 | 25,0 | 26,0 | 30,0 | 32,0 | 36,0 | 44,5 | 56,0 | 62,0 | 53,0 | 70,0 | 78,0 | 78,0 | 78,0 |
| | N | kg | 25,0 | 26,5 | 26,5 | 29,0 | 28,0 | 35,0 | 42,0 | 38,0 | 43,0 | 62,0 | 42,0 | 67,0 | 55,0 | 76,0 | 84,0 | 84,0 | 84,0 |
| | 0 | kg | 14,0 | 14,5 | 15,0 | 16,0 | 20,5 | 21,0 | 21,0 | 29,0 | 29,0 | 29,0 | 34,0 | 40,0 | 48,0 | 50,0 | 41,0 | 55,0 | 55,0 |
| Refrigerant load | A,L | kg | 15,0 | 16,0 | 20,0 | 22,0 | 21,0 | 22,5 | 25,5 | 30,0 | 34,0 | 34,0 | 37,5 | 54,0 | 55,0 | 59,0 | 65,0 | 66,0 | 64,0 |
| circuit 2 (1) | E,U | kg | 20,5 | 20,0 | 21,5 | 27,0 | 28,0 | 27,0 | 32,0 | 37,0 | 39,0 | 45,5 | 56,0 | 62,0 | 63,0 | 70,0 | 78,0 | 78,0 | 78,0 |
| · | N | kg | 25,0 | 26,5 | 26,5 | 30,0 | 31,0 | 35,0 | 42,0 | 42,0 | 47,0 | 62,0 | 49,0 | 67,0 | 67,0 | 76,0 | 84,0 | 84,0 | 84,0 |
| Potential global | 0.4.5.1.11.11 | CIVID | | | | | | | | | 20001 60 | | | | | | | | |
| heating | °,A,E,L,N,U | GWP | | | | | | | | 4 | 2088kgCO₂e | eq. | | | | | | | |
| System side heat exc | hanger | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | - | Brazed plat | e | | | | | | | |
| Number | °,A,E,L,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connection | ıs | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L,N,U | Туре | | | | | | | | G | rooved join | nts | | | | | | | |
| Hydraulic connection | s without hyd | ronic kit | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | °,A,E,L,N,U | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Hydraulic connection | s with hydron | ic kit | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | °,A,E,L,N,U | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| (2) = 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

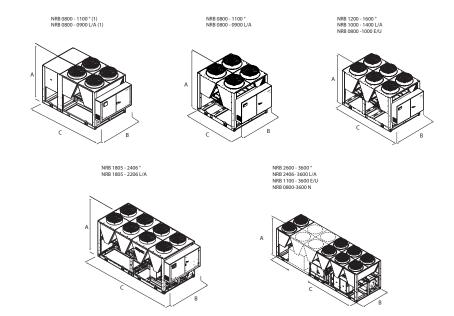
In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

Fans

| From From 1962 | Fans | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|
| From the property of the prope | Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Part | Fans: M | | | | | | | | | | | | | | | | | | | |
| Marche 1.0 1 | <u>Fan</u> | | | | | | | | | | | | | | | | | | | |
| Marke | Туре | | type | | | | | | | | | Axial | | | | | | | | |
| Hanks (1.14 1. | Fan motor | | type | | | | | | | | | | | | | | | | | |
| Markato (| | | type | | | | | | | | Asynchror | | phase cu | | | | | | | |
| Ministripension Ref | | | no. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | | 12 | 12 | 14 | 14 |
| With time series and the series of the serie | Number | | no. | | | | 6 | | | | | | 10 | | | | 14 | 16 | 16 | 16 |
| With time should be should | Hullibel | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| Part | | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| Ar have also in the series of | With static pressure | | | | | | | | | | | | | | | | | | | |
| Fig. 16 19 19 19 19 19 19 19 | | | | | | | | | | | | 128000 | | | 160000 | 192000 | 192000 | 192000 | | |
| The section | | | | 64000 | 64000 | 96000 | 96000 | 96000 | 96000 | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 256000 | 288000 |
| Part | Air flow rate | E | | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| Part | All How face | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 208000 |
| Maria plane | | N | | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| Window Part | | U | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 320000 |
| Without Static pressure | High static procesure | °,A,U | Pa | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Part | nigh static pressure | E,L,N | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Part | Without Static pressure | | | | | | | | | | | | | | | | | | | |
| Arthorials and the properties of the properties | | 0 | m³/h | 72000 | 72000 | 72000 | 72000 | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 180000 | 180000 | 216000 | 216000 | 216000 | 252000 | 252000 |
| Friendly Reference (1 1 1971) 1970 1970 1970 1970 1970 1970 1970 1970 | | A | m³/h | 72000 | 72000 | 108000 | 108000 | 108000 | 108000 | 144000 | 144000 | 180000 | 180000 | 216000 | 252000 | 252000 | 252000 | 288000 | 288000 | 288000 |
| Mary | Air flauurata | E | m³/h | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| Millestiatic pressure 1 | All HOW fale | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 184000 |
| Ministrik pressure | | N | m³/h | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| With statiopersions of the state of the stat | | U | m³/h | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 180000 | 216000 | 216000 | 252000 | 252000 | 288000 | 288000 | 324000 | 360000 | 360000 | 360000 |
| With statiopersions of the state of the stat | High static pressure | °,A,E,L,N,U | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Section Part | | | | | | | | | | | | | | | | | | | | |
| Mathematical Health | · | 0 | dB(A) | 87.8 | 87.8 | 87.8 | 87.8 | 90.0 | 90.0 | 90.0 | 92.0 | 92.5 | 93.0 | 94.7 | 94.7 | 95.6 | 95.6 | 95.6 | 96.5 | 96.5 |
| Fig. | | Α | . , | | | | | | | | | | | | | | | | | |
| Mathematic Mat | | | . , | | | | | | | | | | | | | | | | | |
| Minimary | Sound power level | <u> </u> | | | | | | | | | | | | | | | | | | |
| Without Static pressure 1 | | N | . , | | | | | | | | | | | | | | | | | |
| Without Static pressure *** of Ikila** 87 | | | . , | | | | | | | | | | | | | | | | | |
| Mathematical Part | Without Static pressure | | uD(/1) | 70,0 | 70,0 | 70,0 | 7175 | 71,5 | 71,5 | 72,1 | 71,2 | 71,1 | 70,0 | 70,5 |)1 ,L | 71,12 | 71,0 | 70,1 | 70,1 | 70,1 |
| Sund power level Rei | Without Static pressure | 0 | dR(A) | 80 7 | 20 7 | 20 7 | 20 7 | 91 7 | 91 7 | 91 7 | 03.4 | 03.7 | 03.5 | Q/I Q | 0/10 | 95 g | 95.8 | 05 g | 96.6 | 96.6 |
| Part | | Δ | . , | | | | | | | | | | | | | | | | | |
| Sometimentage | | | | | | | | | | | | | | | | | | | | |
| Name | Sound power level | | . , | | | | | | | | | | | | | | | | | |
| Size | | L | . , | | | | | | | | | | | | | | | | | |
| Signature Sign | | | | | | | | | | | | | | | | | | | | |
| Fam: Fine | | U | ub(A) | 72,3 | 72,3 | 72,3 | 73,0 | 73,0 | 73,0 | 24,0 | 73,1 | 73,3 | 70,3 | 70,0 | נ, ול | נ, ול | 20,0 | 70,5 | 70,5 | 70,3 |
| Page | Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Mariantoria M.E.I.N. Mye 1 | Fans: J | | | | | | | | | | | | | | | | | | | |
| Number Number Name Nam | Fan | | | | | | | | | | | | | | | | | | | |
| Number Nu | Туре | | type | | | | | | | | | Axial | | | | | | | | |
| Number Mail | Fan motor | | type | | | | | | | | | Inverter | | | | | | | | |
| Number Nu | | | no. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | | 12 | 12 | 14 | 14 |
| Interior | Number | A,L | no. | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 16 | 16 |
| Name | Nullibei | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| Part | | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| Air flowrate Ring Water Park R | Inverter fan | | | | | | | | | | | | | | | | | | | |
| Air flowrate Air f | | • | | 64000 | 64000 | 64000 | 64000 | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 160000 | 192000 | 192000 | 192000 | 224000 | 224000 |
| N N N N N N N N N N | | A | m³/h | 64000 | 64000 | 96000 | 96000 | 96000 | 96000 | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 256000 | 288000 |
| N m ² /h down down down down down down down down | Air flour rato | E | m³/h | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| N m³/h 9200 9200 9200 1500 1500 1500 1800 1800 161000 16100 16100 161000 16100 16100 16100 16100 16100 16100 161000 16100 | MII HOW Idle | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 208000 |
| Pa 120 | | N | m³/h | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| Pa 120 | | U | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 320000 |
| High static pressure A Pa 120 120 120 120 120 120 120 120 120 120 | | 0 | | | | | | | | | | | | | | | | | | |
| High static pressure F.N Pa 20 20 20 20 20 20 20 2 | | A | | - | | | | | | | - | | | | | | | | | |
| L Pa 200 200 200 200 200 200 200 200 200 20 | High static pressure | | | | | | | | | | | | | | | | | | | |
| V Pa 120 1 | • 1 | | | | | | | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) **Notation** * | | | | | | | | | | | | | | | | | | | | |
| Sound power level dB(A) 87,8 87,8 87,8 87,8 87,8 90,0 90,0 90,0 92,0 92,5 93,0 94,7 94,7 95,6 95,6 95,6 96,5 97,2 <td>Sound data calculated in cooling mode</td> <td></td> <td></td> <td>120</td> | Sound data calculated in cooling mode | | | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| A dB(A) 87,8 87,8 97,0 90,0 90,0 90,0 91,5 92,0 93,7 94,2 95,6 96,5 96,5 96,5 97,2 97,2 97,2 97,2 97,2 97,2 97,2 97,2 | mout | . , | dR(A) | 87.8 | 87.8 | 87.8 | 87.8 | 90.0 | 90.0 | 90.0 | 92.0 | 92.5 | 93.0 | 94.7 | 94.7 | 95.6 | 95.6 | 95.6 | 96.5 | 96.5 |
| Sound power level E dB(A) 84,8 84,8 84,8 84,8 84,8 86,3 86,3 86,3 87,5 89,0 89,5 90,8 91,3 92,0 92,0 92,6 93,2 93,2 93,2 93,2 93,2 93,2 93,2 93,2 | | Α | | | | | | | | | | | | | | | | | | |
| Sound power level L dB(A) 82,7 82,7 84,8 84,8 84,8 85,6 86,3 87,7 88,5 89,8 90,5 91,3 91,3 92,1 92,0 92,8 92,8 N dB(A) 86,3 86,3 86,3 87,5 87,5 87,5 87,5 88,5 89,8 90,3 91,5 92,0 92,6 92,6 93,2 93,7 93,7 93,7 U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 98,4 | | | | | | | | | | | | | | | | | | | | |
| N dB(A) 86,3 86,3 86,3 87,5 87,5 87,5 87,5 88,5 89,8 90,3 91,5 92,0 92,6 92,6 93,2 93,7 93,7 93,7 U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 | Sound power level | I | | | | | | | | | | | | | | | | | | |
| U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 | | L | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | (1) Carried a conservation of the desired at the des | | | | | | | _ | | | | | | | | - , | | | | |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes: 0800° , 0900° , 1000° , 1100° 0800L, 0900L 0800A, 0900A

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------------|-------------|----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | °,A,E,L,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 2780 | 2780 | 2780 | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 | 5950 | 7140 | 7140 | 7140 | 8330 | 8330 |
| | A,L | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 5160 | 6350 | 6350 | 7140 | 8330 | 8330 | 8330 | 9520 | 9520 | 9520 |
| C | E,U | mm | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 11900 | 11900 | 11900 |
| | N | mm | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 | 13090 |

■ The units 0800°, 0900°, 1000°, 1100°; 0800L, 0900L; and 0800A, 0900A with the "storage tank" option, are 3970mm long.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | | | | |
| | 0 | kg | 2240 | 2280 | 2350 | 2390 | 2880 | 2930 | 2960 | 3660 | 3830 | 3870 | 4360 | 4500 | 5150 | 5390 | 5470 | 6000 | 6150 |
| - - | A,L | kg | 2260 | 2320 | 2800 | 2870 | 2910 | 2970 | 3490 | 3710 | 4280 | 4360 | 4780 | 5510 | 5760 | 5910 | 6390 | 6520 | 6600 |
| Empty weight - | E,U | kg | 2720 | 2760 | 2840 | 3370 | 3440 | 3460 | 3940 | 4490 | 4700 | 5350 | 5390 | 5910 | 6160 | 6700 | 7140 | 7220 | 7300 |
| | N | kg | 3220 | 3270 | 3340 | 3770 | 3840 | 3870 | 4290 | 4940 | 5160 | 5750 | 5790 | 6310 | 6560 | 7010 | 7540 | 7620 | 7700 |

■ The weights are for standard units with plate heat exchangers and no hydronic kit.



















NRB 0800-3600

Air-water chiller with shell and tube heat exchanger

Cooling capacity 217 ÷ 1049 kW



- Microchannel coil
- · Shell and tube heat exchanger
- Night mode
- Operation up to 50 °C outdoor air
- HP floating: ESEER +7% with inverter fans





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

They are outdoor units with axial fan scroll compressors, microchannel coils and Shell and tube exchangers.

In the unit with desuperheater, it is also possible to produce free-hot

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50°C external air temperature. Unit can produce chilled water (up to -10°C of water produced in some versions).

Dual-circuit unit

Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

It is standard in all sizes from 1805 to 3600.

Option integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads. ESEER up to +7% with inverter fans.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

CONFIGURATOR

| Field | Description |
|---------|---|
| 1,2,3 | NRB |
| 4,5,6,7 | Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800, 3000, 3200, 3400, 3600 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Х | Electronic thermostatic expansion valve (1) |
| Υ | Low temperature mechanic thermostatic valve (2) |
| Z | Low temperature electronic thermostatic valve (2) |
| 9 | Model |
| Q | Cooling only with shell and tube heat exchanger |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery (4) |
| 11 | Version |
| 0 | Standard |
| Α | High efficiency |
| E | Silenced high efficiency |
| L | Standard silenced |
| N | Silenced very high efficiency |
| U | Very high efficiency |
| 12 | Coils |
| 0 | Aluminium microchannel |
| - 1 | Copper-aluminium Copper-aluminium |
| 0 | Coated aluminium microchannel |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| J | Inverter |
| М | Oversized |

| Field | Description |
|-------|--|
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit (5) |
| 00 | Without hydronic kit |
| | Kit with n° 1 pump |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump |

- (1) Water produced from 4 °C \div 18 °C
- (2) Processed water from 4°C to -8°C for the °-L versions, and from 4°C to -10°C for A E U N versions (3) The temperature of the water in the heat exchanger inlet must never drop below 35°C.
- (4) For compatibility with total recovery see table below.(5) For compatibility with the hydronic kit, see the table below.

Compatible with total recovery

| Version | | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------------------------------|---|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| standard | 0 | - | - | - | - | - | - | - | - | - | - | • | • | • | • | • | • | • |
| Standard silenced | L | - | - | - | - | - | - | - | - | • | • | • | • | • | • | • | • | • |
| High efficiency | Α | - | - | - | - | - | - | - | - | | | • | • | • | • | • | • | • |
| Silenced high efficiency | E | - | - | - | - | - | - | • | • | | | | • | • | • | • | • | • |
| Very high efficiency | U | - | - | - | - | - | - | • | | • | | | | | • | | | • |
| Silenced very high efficiency | N | - | - | - | • | • | • | • | • | • | • | • | • | • | | • | • | • |

Compatibility of models with hydronic units available with a configurator

| Version | | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------------------------------|---|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| standard | 0 | - | - | - | - | • | - | - | • | • | • | • | • | • | | • | • | • |
| Standard silenced | L | - | - | • | - | - | - | • | • | • | • | • | • | • | • | • | • | • |
| High efficiency | A | - | - | • | - | - | - | • | | | | • | • | • | • | • | • | • |
| Silenced high efficiency | E | • | • | - | • | • | • | • | • | • | • | | | • | • | • | • | • |
| Very high efficiency | U | • | • | - | • | • | • | • | • | • | | | | | • | • | • | • |
| Silenced very high efficiency | N | | | | | | • | | | | • | | | | | | | • |

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • |
| AERBACP | °,A,E,L,N,U | • | • | | | | | | • | • | • | • | • | • | • | • | • | • |
| AERLINK | °,A,E,L,N,U | • | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L,N,U | • | | | | | | | • | • | • | • | • | • | • | • | • | • |
| FL | °,A,E,L,N,U | • | • | | | | | | • | • | • | • | • | • | • | | • | • |
| MULTICHILLER_EVO | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|----------------|---------------------|---------------------|---------------------|---------------------|-------------|-----------------------|---------------------|---------------------|---------------------|
| Fans: M | | | | | | | | | |
| 0 | DCPX130 | DCPX130 | DCPX130 | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX155 | DCPX155 |
| A | DCPX130 | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX131 | DCPX132 | DCPX155 | DCPX156 |
| E,L,N | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard | As standard |
| U | DCPX131 | DCPX131 | DCPX131 | DCPX132 | DCPX132 | DCPX132 | DCPX133 | DCPX134 | DCPX134 |
| | | | | | | | | | |
| Ver | 2206 | 2406 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |
| Ver Fans: M | 2206 | 2406 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |
| | 2206 DCPX155 | 2406 DCPX156 | 2600 DCPX133 | 2800 DCPX134 | . [| 3000 CPX134 | 3200 DCPX134 | 3400 DCPX135 | 3600 DCPX135 |
| Fans: M | | | | | | | | | |
| Fans: M | DCPX155 | DCPX156 | DCPX133 | DCPX134 | | CPX134 | DCPX134 | DCPX135 | DCPX135 |

Antivibration

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|-------------|------------|--------------|-------------|------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | AVX1107 | AVX1107 | AVX1107 | AVX1107 | AVX1108 | AVX1108 | AVX1108 | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1112 | AVX1114 | AVX1114 | AVX1114 | AVX1106 | AVX1106 |
| A,L | AVX1107 | AVX1107 | AVX1108 | AVX1108 | AVX1108 | AVX1108 | AVX1109 | AVX1109 | AVX1110 | AVX1110 | AVX1111 | AVX1105 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1102 |
| E,U | AVX1108 | AVX1108 | AVX1108 | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1111 | AVX1111 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1113 | AVX1103 | AVX1103 | AVX1103 |
| N | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1110 | AVX1110 | AVX1111 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1113 | AVX1113 | AVX1103 | AVX1104 | AVX1104 | AVX1104 |
| Integrated hydronic kit: DA, DB, DC, DD, | DE, DF, DG, | DH, DI, D. | J, PA, PB, F | PC, PD, PE, | PF, PG, PI | l, PI, PJ | | | | | | | | | | | |
| o . | - | - | - | - | AVX1108 | - | - | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1112 | AVX1114 | AVX1114 | AVX1114 | AVX1106 | AVX1106 |
| A,L | - | - | AVX1108 | - | - | - | AVX1109 | AVX1109 | AVX1110 | AVX1110 | AVX1111 | AVX1105 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1102 |
| E,U | AVX1108 | AVX1108 | - | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1111 | AVX1111 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1113 | AVX1103 | AVX1103 | AVX1103 |
| N | AVX1109 | AVX1109 | AVX1109 | AVX1110 | AVX1110 | AVX1110 | AVX1111 | AVX1105 | AVX1105 | AVX1102 | AVX1102 | AVX1113 | AVX1113 | AVX1103 | AVX1104 | AVX1104 | AVX1104 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °,A,E,L,N,U | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) | DRENRB2006 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------------|----------------|----------------|------|------|------|------|------|------|
| °,A,E,L,N,U | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - | - |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

The accessory cannot be fitted on the configurations indicated with -A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1600 | RIFNRB1805 | RIFNRB2006 |
| A,L | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1601 | RIFNRB1805 | RIFNRB2006 |
| E,U | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |
| N | RIFNRB0801 | RIFNRB0901 | RIFNRB1001 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| ٥ | RIFNRB2206 | RIFNRB2406 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| A,L | RIFNRB2206 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| E,N,U | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|----------------|------------|--------------|-------------|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | GP2VN | GP2VN | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP6V | GP7V | GP7V |
| A,L | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP7V | GP7V | GP7V | GP8V | GP8V | GP8V |
| E,U | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP10V | GP10V | GP10V |
| N | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP4VN | GP9VN | GP9VN | GP10V | GP11V | GP11V | GP11V |
| Integrated hydronic kit: DA, DB, DC, D | D, DE, DF, DG, | DH, DI, D. | I, PA, PB, I | PC, PD, PE, | PF, PG, PI | H, PI, PJ | | | | | | | | | | | |
| o | - | - | - | - | GP3VN | - | - | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP6V | GP7V | GP7V |
| A,L | - | - | GP3VN | - | - | - | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP7V | GP7V | GP7V | GP8V | GP8V | GP8V |
| E,U | GP3VN | GP3VN | - | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP10V | GP10V | GP10V |
| N | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP4VN | GP9VN | GP9VN | GP10V | GP11V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

Kit for low temperature

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0 | - | - | - | - | - | - | - | XLA (1) |
| A,L | - | - | - | - | - | - | XLA (1) |
| E,U | - | - | - | XLA (1) |
| N | XLA (1) |

PERFORMANCE SPECIFICATIONS

NRB - °

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 221,5 | 244,5 | 270,3 | 299,7 | 353,1 | 404,9 | 439,0 | 511,2 | 560,9 | 598,2 | 675,8 | 721,6 | 786,8 | 830,6 | 880,2 | 945,8 | 998,2 |
| Input power | kW | 73,3 | 83,1 | 94,1 | 110,3 | 117,5 | 135,4 | 155,1 | 175,7 | 194,0 | 216,6 | 236,5 | 256,0 | 270,3 | 292,6 | 314,7 | 329,4 | 355,2 |
| Cooling total input current | Α | 128,3 | 143,1 | 160,0 | 185,5 | 201,6 | 229,9 | 260,8 | 299,7 | 329,8 | 366,5 | 404,6 | 434,0 | 459,4 | 498,2 | 534,6 | 562,9 | 606,0 |
| EER | W/W | 3,02 | 2,94 | 2,87 | 2,72 | 3,00 | 2,99 | 2,83 | 2,91 | 2,89 | 2,76 | 2,86 | 2,82 | 2,91 | 2,84 | 2,80 | 2,87 | 2,81 |
| Water flow rate system side | l/h | 38117 | 42077 | 46498 | 51565 | 60733 | 69640 | 75512 | 87913 | 96469 | 102883 | 116222 | 124100 | 135305 | 142813 | 151332 | 162608 | 171611 |
| Pressure drop system side | kPa | 46 | 55 | 38 | 45 | 44 | 39 | 46 | 40 | 47 | 53 | 52 | 58 | 60 | 36 | 39 | 46 | 43 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - L

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | 0000 | 0,00 | 1000 | 1100 | 1200 | 1100 | 1000 | 1005 | 2000 | 2200 | 2100 | 2000 | 2000 | 3000 | 3200 | 3100 | 3000 |
| Cooling capacity | kW | 216,9 | 237,7 | 272,7 | 307,7 | 343,9 | 391,0 | 438,4 | 498,2 | 555,4 | 608,2 | 666,2 | 727,2 | 770,0 | 834,2 | 886,6 | 952,6 | 1004,1 |
| Input power | kW | 73,0 | 85,9 | 92,0 | 107,4 | 122,7 | 139,0 | 151,9 | 173,3 | 191,6 | 213,6 | 233,8 | 246,8 | 270,1 | 284,5 | 307,5 | 323,1 | 347,9 |
| Cooling total input current | A | 122,8 | 142,3 | 154,5 | 179,0 | 203,4 | 231,8 | 250,8 | 289,7 | 318,6 | 359,2 | 390,2 | 412,6 | 448,8 | 478,6 | 512,6 | 544,6 | 585,4 |
| EER | W/W | 2,97 | 2,77 | 2,97 | 2,87 | 2,80 | 2,81 | 2,89 | 2,87 | 2,90 | 2,85 | 2,85 | 2,95 | 2,85 | 2,93 | 2,88 | 2,95 | 2,89 |
| Water flow rate system side | l/h | 37323 | 40891 | 46905 | 52926 | 59137 | 67243 | 75381 | 85669 | 95498 | 104586 | 114564 | 125029 | 132382 | 143408 | 152424 | 163777 | 172632 |
| Pressure drop system side | kPa | 25 | 20 | 27 | 24 | 29 | 23 | 30 | 28 | 37 | 36 | 44 | 28 | 31 | 30 | 34 | 39 | 43 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - A

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 224,1 | 252,2 | 283,7 | 326,1 | 361,2 | 411,7 | 462,2 | 519,2 | 576,0 | 633,3 | 697,6 | 757,5 | 805,8 | 867,0 | 928,7 | 980,8 | 1026,8 |
| Input power | kW | 70,6 | 80,9 | 90,2 | 104,7 | 115,3 | 131,8 | 147,6 | 166,3 | 183,5 | 203,1 | 223,3 | 240,5 | 256,5 | 277,0 | 297,0 | 314,4 | 330,3 |
| Cooling total input current | Α | 123,9 | 139,9 | 158,8 | 181,8 | 198,2 | 224,1 | 252,4 | 283,8 | 316,2 | 348,7 | 386,3 | 417,6 | 441,6 | 475,9 | 513,3 | 541,6 | 567,7 |
| EER | W/W | 3,17 | 3,12 | 3,15 | 3,12 | 3,13 | 3,12 | 3,13 | 3,12 | 3,14 | 3,12 | 3,12 | 3,15 | 3,14 | 3,13 | 3,13 | 3,12 | 3,11 |
| Water flow rate system side | l/h | 38561 | 43394 | 48802 | 56076 | 62118 | 70789 | 79487 | 89271 | 99048 | 108894 | 119965 | 130236 | 138537 | 149048 | 159671 | 168622 | 176531 |
| Pressure drop system side | kPa | 27 | 22 | 30 | 27 | 32 | 25 | 34 | 30 | 39 | 39 | 48 | 30 | 34 | 32 | 38 | 41 | 45 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - E

| | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|-----------------------|---|---|---|--|---|--|---|--|---|---|---|--|--|---|--|--|
| | | | | | | | | | | | | | | | | | |
| kW | 219,2 | 248,3 | 275,0 | 321,4 | 358,7 | 403,2 | 455,0 | 514,5 | 569,0 | 637,2 | 688,3 | 741,1 | 794,3 | 857,9 | 911,7 | 965,1 | 1019,4 |
| kW | 69,6 | 79,4 | 88,5 | 102,2 | 114,9 | 129,8 | 144,5 | 164,7 | 183,0 | 203,4 | 221,4 | 236,5 | 255,5 | 274,7 | 290,6 | 310,5 | 327,8 |
| А | 119,5 | 134,7 | 148,8 | 172,1 | 192,6 | 215,7 | 240,1 | 275,1 | 306,1 | 342,6 | 372,8 | 397,0 | 425,9 | 459,5 | 487,5 | 520,6 | 549,0 |
| W/W | 3,15 | 3,13 | 3,11 | 3,15 | 3,12 | 3,11 | 3,15 | 3,12 | 3,11 | 3,13 | 3,11 | 3,13 | 3,11 | 3,12 | 3,14 | 3,11 | 3,11 |
| l/h | 37710 | 42726 | 47303 | 55271 | 61679 | 69338 | 78240 | 88465 | 97841 | 109550 | 118323 | 127417 | 136570 | 147496 | 156744 | 165934 | 175268 |
| kPa | 19 | 23 | 20 | 27 | 21 | 27 | 26 | 33 | 33 | 22 | 25 | 30 | 34 | 33 | 38 | 41 | 46 |
| | kW A W/W I/h | kW 219,2 kW 69,6 A 119,5 W/W 3,15 I/h 37710 | kW 219,2 248,3 kW 69,6 79,4 A 119,5 134,7 W/W 3,15 3,13 I/h 37710 42726 | kW 219,2 248,3 275,0 kW 69,6 79,4 88,5 A 119,5 134,7 148,8 W/W 3,15 3,13 3,11 I/h 37710 42726 47303 | kW 219,2 248,3 275,0 321,4 kW 69,6 79,4 88,5 102,2 A 119,5 134,7 148,8 172,1 W/W 3,15 3,13 3,11 3,15 I/h 37710 42726 47303 55271 | kW 219,2 248,3 275,0 321,4 358,7 kW 69,6 79,4 88,5 102,2 114,9 A 119,5 134,7 148,8 172,1 192,6 W/W 3,15 3,13 3,11 3,15 3,12 I/h 37710 42726 47303 55271 61679 | kW 219,2 248,3 275,0 321,4 358,7 403,2 kW 69,6 79,4 88,5 102,2 114,9 129,8 A 119,5 134,7 148,8 172,1 192,6 215,7 W/W 3,15 3,13 3,11 3,15 3,12 3,11 I/h 37710 42726 47303 55271 61679 69338 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 I/h 37710 42726 47303 55271 61679 69338 78240 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 I/h 37710 42726 47303 55271 61679 69338 78240 88465 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 I/h 37710 42726 47303 55271 61679 69338 78240 88465 97841 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,13 I/h 37710 42726 47303 55271 61679 69338 78240 88465 97841 109550 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 <td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,13 3,11 3,13 I/h 37710 42726 47303 55271 61679 69338 78240 88465 97841 109550 118323 12747</td> <td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,11 3,13 3,11 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,13 3,11 3,13 3,11 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,13 3,</td> <td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 459,5 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 <td< td=""><td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 487,5 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 <</td><td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 965,1 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 310,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 459,5 487,5 520,6 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 3,11 3,13 3,11 3,12 3,14 3,11 3,13 3,11 3,12 3,14 3,11 I/h 3770 42726 47303 55271 61679 69338 78240 88465 97841</td></td<></td> | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,13 3,11 3,13 I/h 37710 42726 47303 55271 61679 69338 78240 88465 97841 109550 118323 12747 | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,11 3,13 3,11 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,13 3,11 3,13 3,11 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,13 3, | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 459,5 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 3,11 3,12 <td< td=""><td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 487,5 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 <</td><td>kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 965,1 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 310,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 459,5 487,5 520,6 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 3,11 3,13 3,11 3,12 3,14 3,11 3,13 3,11 3,12 3,14 3,11 I/h 3770 42726 47303 55271 61679 69338 78240 88465 97841</td></td<> | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 487,5 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 < | kW 219,2 248,3 275,0 321,4 358,7 403,2 455,0 514,5 569,0 637,2 688,3 741,1 794,3 857,9 911,7 965,1 kW 69,6 79,4 88,5 102,2 114,9 129,8 144,5 164,7 183,0 203,4 221,4 236,5 255,5 274,7 290,6 310,5 A 119,5 134,7 148,8 172,1 192,6 215,7 240,1 275,1 306,1 342,6 372,8 397,0 425,9 459,5 487,5 520,6 W/W 3,15 3,13 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,12 3,11 3,15 3,14 3,11 3,13 3,11 3,12 3,14 3,11 3,13 3,11 3,12 3,14 3,11 I/h 3770 42726 47303 55271 61679 69338 78240 88465 97841 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NRB - U

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,6 | 257,6 | 286,5 | 329,6 | 369,8 | 414,6 | 466,9 | 529,2 | 594,0 | 655,1 | 716,9 | 765,5 | 815,3 | 879,0 | 940,9 | 999,7 | 1049,5 |
| Input power | kW | 68,8 | 77,7 | 86,8 | 99,5 | 111,7 | 126,1 | 140,9 | 159,5 | 179,0 | 197,8 | 215,3 | 229,4 | 248,9 | 265,7 | 282,3 | 302,5 | 319,5 |
| Cooling total input current | А | 124,3 | 138,5 | 152,9 | 176,0 | 195,6 | 218,0 | 244,0 | 278,3 | 311,7 | 347,7 | 377,4 | 401,2 | 431,5 | 463,1 | 493,9 | 527,9 | 556,4 |
| EER | W/W | 3,30 | 3,31 | 3,30 | 3,31 | 3,31 | 3,28 | 3,31 | 3,32 | 3,32 | 3,31 | 3,33 | 3,34 | 3,28 | 3,31 | 3,33 | 3,30 | 3,28 |
| Water flow rate system side | l/h | 39151 | 44308 | 49294 | 56689 | 63596 | 71302 | 80286 | 91003 | 102137 | 112618 | 123250 | 131616 | 140179 | 151126 | 161768 | 171875 | 180443 |
| Pressure drop system side | kPa | 20 | 25 | 21 | 29 | 23 | 28 | 27 | 35 | 36 | 23 | 27 | 32 | 36 | 35 | 40 | 44 | 49 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

⁽¹⁾ With the accessory XLA do not use the DCPX.
The accessory cannot be fitted on the configurations indicated with A grey background indicates the accessory must be assembled in the factory

NRB - N

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,7 | 260,4 | 284,7 | 327,7 | 367,7 | 412,3 | 466,1 | 521,6 | 579,1 | 645,7 | 702,6 | 749,4 | 804,7 | 866,4 | 926,7 | 973,5 | 1029,9 |
| Input power | kW | 68,5 | 78,9 | 86,4 | 98,5 | 111,9 | 125,4 | 140,4 | 157,8 | 176,0 | 194,6 | 212,9 | 229,0 | 246,7 | 263,5 | 282,7 | 301,1 | 319,3 |
| Cooling total input current | Α | 118,2 | 135,1 | 146,9 | 166,9 | 188,6 | 209,4 | 234,0 | 264,2 | 295,4 | 328,9 | 360,0 | 385,3 | 412,5 | 442,0 | 475,2 | 506,2 | 536,4 |
| EER | W/W | 3,32 | 3,30 | 3,30 | 3,33 | 3,29 | 3,29 | 3,32 | 3,31 | 3,29 | 3,32 | 3,30 | 3,27 | 3,26 | 3,29 | 3,28 | 3,23 | 3,23 |
| Water flow rate system side | l/h | 39166 | 44792 | 48972 | 56365 | 63234 | 70905 | 80151 | 89691 | 99569 | 111009 | 120789 | 128849 | 138355 | 148961 | 159328 | 167377 | 177077 |
| Pressure drop system side | kPa | 20 | 25 | 21 | 28 | 23 | 28 | 27 | 34 | 34 | 23 | 26 | 30 | 35 | 34 | 39 | 42 | 47 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 FII)

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|------------------|
| Fans: J | | | - 0000 | 0,00 | 1000 | 1100 | 1200 | 1400 | 1000 | 1003 | 2000 | 2200 | 2700 | 2000 | 2000 | 3000 | 3200 | 3400 | 3000 |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 4,44 | 4,33 | 4,27 | 4,25 | 4,39 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | W/W | 4,65 | 4,55 | 4,66 | 4,70 | 4,69 | 4,73 | 4,76 | 4,64 | 4,64 | 4,62 | 4,61 | 4,68 | 4,66 | 4,66 | 4,68 | 4,64 | 4,63 |
| CEED | E | W/W | 4,75 | 4,67 | 4,63 | 4,81 | 4,82 | 4,76 | 4,88 | 4,73 | 4,67 | 4,70 | 4,74 | 4,69 | 4,71 | 4,74 | 4,80 | 4,72 | 4,73 |
| SEER | L | W/W | 4,56 | 4,42 | 4,50 | 4,51 | 4,58 | 4,59 | 4,67 | 4,56 | 4,56 | 4,58 | 4,57 | 4,61 | 4,56 | 4,57 | 4,58 | 4,62 | 4,56 |
| | N | W/W | 4,85 | 4,79 | 4,83 | 4,96 | 4,93 | 4,97 | 5,03 | 4,93 | 4,82 | 4,89 | 4,83 | 4,89 | 4,80 | 4,84 | 4,83 | 4,73 | 4,73 |
| | U | W/W | 4,76 | 4,75 | 4,71 | 4,89 | 4,85 | 4,86 | 4,91 | 4,84 | 4,77 | 4,82 | 4,78 | 4,87 | 4,81 | 4,85 | 4,92 | 4,83 | 4,81 |
| | | % | 174,60 | 170,10 | 167,60 | 167,10 | 172,70 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | % | 182,80 | 179,10 | 183,40 | 185,00 | 184,70 | 186,20 | 187,30 | 182,70 | 182,40 | 181,70 | 181,50 | 184,20 | 183,50 | 183,30 | 184,00 | 182,70 | 182,00 |
| Seasonal efficiency | E | % | 187,00 | 183,70 | 182,00 | 189,30 | 189,60 | 187,50 | 192,30 | 186,20 | 183,90 | 184,80 | 186,40 | 184,70 | 185,30 | 186,40 | 189,10 | 185,80 | 186,10 |
| ocasonal enterency | L | % | 179,20 | 173,80 | 177,00 | 177,50 | 180,10 | 180,40 | 183,90 | 179,50 | 179,40 | 180,10 | 179,60 | 181,30 | 179,40 | 179,90 | 180,30 | 181,60 | 179,30 |
| | N | % | 191,10 | 188,40 | 190,30 | 195,40 | 194,20 | 195,90 | 198,10 | 194,10 | 189,90 | 192,40 | 190,00 | 192,70 | 189,10 | 190,60 | 190,20 | 186,30 | 186,20 |
| | U | % | 187,40 | 187,10 | 185,20 | 192,50 | 191,00 | 191,30 | 193,30 | 190,70 | 187,70 | 189,60 | 188,10 | 191,90 | 189,40 | 191,10 | 193,80 | 190,00 | 189,40 |
| SEER - 23/18 (EN14825: 2018) (3) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,28 | 5,16 | 5,07 | 4,96 | 5,40 | 5,44 | 5,18 | 5,07 | 5,13 | 4,77 | 5,07 | 5,09 | 5,09 | 4,98 | 4,92 | 5,09 | 5,01 |
| | A | W/W | 5,50 | 5,35 | 5,50 | 5,51 | 5,55 | 5,55 | 5,63 | 5,34 | 5,44 | 5,30 | 5,42 | 5,41 | 5,43 | 5,38 | 5,43 | 5,36 | 5,40 |
| SEER | E | W/W | 5,62 | 5,53 | 5,46 | 5,70 | 5,69 | 5,63 | 5,77 | 5,50 | 5,52 | 5,48 | 5,59 | 5,47 | 5,41 | 5,47 | 5,77 | 5,50 | 5,51 |
| | L | W/W | 5,34 | 5,14 | 5,35 | 5,33 | 5,37 | 5,34 | 5,47 | 5,26 | 5,32 | 5,20 | 5,26 | 5,35 | 5,20 | 5,25 | 5,21 | 5,32 | 5,23 |
| | N | W/W | 5,92 | 5,71 | 5,76 | 5,91 | 5,88 | 5,91 | 5,99 | 5,75 | 5,74 | 5,71 | 5,75 | 5,74 | 5,55 | 5,62 | 5,64 | 5,54 | 5,54 |
| | U | W/W | 5,65 | 5,67 | 5,59 | 5,82 | 5,76 | 5,80 | 5,83 | 5,67 | 5,69 | 5,61 | 5,68 | 5,77 | 5,59 | 5,66 | 5,85 | 5,70 | 5,69 |
| | | % | 208,10 | 203,40 | 199,80 | 195,40 | 212,90 | 214,50 | 204,10 | 199,90 | 202,10 | 187,80 | 199,60 | 200,40 | 200,40 | 196,10 | 193,90 | 200,40 | 197,40 |
| | A | % | 217,00 | 210,90 | 217,00 | 217,50 | 219,10 | 219,10 | 222,10 | 210,50 | 214,60 | 209,10 | 213,60 | 213,40 | 214,20 | 212,00 | 214,30 | 211,50 | 213,00 |
| Seasonal efficiency | E | % | 221,90 | 218,30 | 215,30 | 224,90 | 224,50 | 222,20 | 227,70 | 216,80 | 217,70 | 216,00 | 220,60 | 215,70 | 213,40 | 215,60 | 227,90 | 216,80 | 217,20 |
| | L N | % | 210,40 | 202,70 | 211,00 | 210,20 | 211,60 | 210,40 | 215,80 | 207,40 | 209,70 | 205,10 | 207,50 | 211,00 | 204,80 | 206,90 | 205,40 | 209,90 | 206,20 |
| | N | % % | 222,80 | 223,70 | 220,70 | 233,50 | 232,10 | 228,80 | 230,20 | 226,80 | 224,50 | 221,50 | 224,00 | 226,40 227,80 | 220,60 | 223,40 | 231,00 | 218,40 | 218,50 224,40 |
| SEPR - (EN 14825: 2018) (3) | U | 70 | 222,00 | 223,70 | 220,70 | 229,90 | 227,30 | 220,00 | 230,20 | 223,00 | 224,30 | 221,30 | 224,00 | 227,00 | 220,00 | 223,40 | 231,00 | 223,00 | 224,40 |
| 3EI N (EN 14023, 2010) (3) | 0 | W/W | 5,39 | 5,22 | 5,17 | 5,03 | 5,36 | 5,51 | 5,52 | 5,58 | 5,52 | 5,51 | 5,51 | 5,52 | 5,53 | 5,54 | 5,55 | 5,51 | 5,53 |
| | Α | W/W | 5,64 | 5,29 | 5,58 | 5,30 | 5,55 | 5,52 | 5,56 | 5,56 | 5,57 | 5,55 | 5,55 | 5,54 | 5,59 | 5,55 | 5,59 | 5,56 | 5,56 |
| | E | W/W | 5,56 | 5,22 | 5,47 | 5,25 | 5,52 | 5,56 | 5,58 | 5,54 | 5,53 | 5,55 | 5,55 | 5,56 | 5,53 | 5,55 | 5,53 | 5,51 | 5,55 |
| SEPR | | W/W | 5,32 | 5,05 | 5,31 | 5,04 | 5,18 | 5,05 | 5,53 | 5,53 | 5,53 | 5,52 | 5,54 | 5,54 | 5,54 | 5,52 | 5,54 | 5,52 | 5,53 |
| | N | W/W | 5,69 | 5,55 | 5,67 | 5,60 | 5,64 | 5,62 | 5,66 | 5,57 | 5,67 | 5,60 | 5,64 | 5,61 | 5,51 | 5,63 | 5,69 | 5,51 | 5,63 |
| | U | W/W | 5,67 | 5,54 | 5,66 | 5,54 | 5,68 | 5,59 | 5,69 | 5,55 | 5,55 | 5,58 | 5,72 | 5,74 | 5,60 | 5,70 | 5,67 | 5,71 | 5,58 |
| Fans: M | | | , | , | | | , | | | , | | | , | | , | | , | | , |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 4,23 | 4,13 | 4,10 | 4,11 | 4,19 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | W/W | 4,41 | 4,34 | 4,39 | 4,45 | 4,48 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| SEER | E | W/W | 4,47 | 4,40 | 4,40 | 4,54 | 4,54 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| DEEN | L | W/W | 4,31 | 4,17 | 4,25 | 4,27 | 4,31 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | N | W/W | 4,61 | 4,56 | 4,58 | 4,72 | 4,68 | 4,72 | 4,78 | 4,66 | 4,58 | 4,61 | 4,62 | 4,64 | 4,59 | 4,62 | 4,60 | 4,59 | 4,62 |
| | U | W/W | 4,51 | 4,51 | 4,51 | 4,63 | 4,64 | 4,65 | 4,70 | 4,61 | 4,56 | 4,57 | 4,59 | 4,58 | 4,56 | 4,59 | 4,57 | 4,56 | 4,56 |
| | | % | 166,00 | 162,30 | 161,00 | 161,20 | 164,70 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | % | 173,50 | 170,60 | 172,40 | 174,90 | | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| Seasonal efficiency | E | % | 175,60 | | | | | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| ocasonal enterery | L | % | 169,40 | | 166,80 | 167,60 | 169,20 | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | N | % | | | 180,00 | | 184,10 | | 188,20 | 183,40 | 180,30 | 181,50 | 181,60 | 182,70 | 180,60 | 181,70 | | 180,60 | 181,70 |
| | U | % | 177,20 | 177,40 | 177,20 | 182,10 | 182,50 | 183,10 | 184,80 | 181,40 | 179,20 | 179,90 | 180,50 | 180,30 | 179,30 | 180,60 | 179,70 | 179,50 | 179,30 |
| SEER - 23/18 (EN14825: 2018) (3) | | | | | | | | | | | | | | | | | | | |
| | • | W/W | 5,08 | 4,98 | 4,92 | 4,82 | 5,20 | 5,26 | 5,03 | 4,91 | 4,97 | 4,63 | 4,91 | 4,84 | 4,86 | 4,77 | 4,73 | 4,85 | 4,81 |
| | A | W/W | 5,29 | 5,15 | 5,25 | 5,28 | 5,35 | 5,37 | 5,42 | 5,15 | 5,22 | 5,09 | 5,22 | 5,30 | 5,18 | 5,15 | 5,17 | 5,13 | 5,13 |
| SEER | E | W/W | 5,36 | 5,24 | 5,28 | 5,40 | 5,43 | 5,37 | 5,54 | 5,21 | 5,22 | 5,21 | 5,30 | 5,33 | 5,14 | 5,17 | 5,22 | 5,17 | 5,21 |
| | L | W/W | 5,06 | 4,87 | 5,07 | 5,08 | 5,05 | 5,10 | 5,19 | 5,02 | 5,02 | 4,92 | 4,99 | 5,21 | 4,94 | 5,03 | 4,99 | 5,06 | 5,07 |
| | N | W/W | 5,57 | 5,47 | 5,50 | 5,66 | 5,61 | 5,65 | 5,73 | 5,48 | 5,48 | 5,44 | 5,54 | 5,48 | 5,32 | 5,37 | 5,37 | 5,29 | 5,32 |
| | U | W/W | 5,41 | 5,44 | 5,41 | 5,58 | 5,56 | 5,60 | 5,63 | 5,46 | 5,49 | 5,39 | 5,50 | 5,57 | 5,29 | 5,35 | 5,48 | 5,36 | 5,38 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C/7°C
(3) Calculation performed with FIXED water flow rate.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 0 | % | 200,10 | 196,00 | 193,60 | 189,90 | 205,10 | 207,30 | 198,30 | 193,30 | 195,70 | 182,00 | 193,50 | 190,60 | 191,50 | 187,90 | 186,00 | 191,00 | 189,20 |
| | Α | % | 208,40 | 203,00 | 206,80 | 208,00 | 211,10 | 211,60 | 213,60 | 203,10 | 205,70 | 200,60 | 205,60 | 209,10 | 204,00 | 203,00 | 203,60 | 202,10 | 202,10 |
| Consonal officiones | E | % | 211,40 | 206,40 | 208,30 | 213,00 | 214,00 | 211,80 | 218,50 | 205,50 | 205,70 | 205,30 | 208,90 | 210,30 | 202,40 | 203,90 | 205,90 | 203,70 | 205,50 |
| Seasonal efficiency | L | % | 199,40 | 191,90 | 199,70 | 200,10 | 199,10 | 200,80 | 204,40 | 197,70 | 197,60 | 193,90 | 196,40 | 205,20 | 194,50 | 198,00 | 196,40 | 199,50 | 199,80 |
| | N | % | 219,70 | 215,80 | 216,80 | 223,40 | 221,50 | 223,00 | 226,20 | 216,00 | 216,30 | 214,60 | 218,40 | 216,30 | 209,60 | 211,60 | 211,80 | 208,50 | 209,70 |
| | U | % | 213,40 | 214,40 | 213,30 | 220,00 | 219,50 | 221,00 | 222,20 | 215,30 | 216,40 | 212,50 | 216,90 | 219,70 | 208,70 | 211,10 | 216,10 | 211,40 | 212,00 |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,39 | 5,22 | 5,17 | 5,03 | 5,36 | 5,51 | 5,52 | 5,58 | 5,52 | 5,51 | 5,51 | 5,52 | 5,53 | 5,54 | 5,55 | 5,51 | 5,53 |
| | Α | W/W | 5,64 | 5,29 | 5,58 | 5,30 | 5,55 | 5,52 | 5,56 | 5,56 | 5,57 | 5,55 | 5,55 | 5,54 | 5,59 | 5,55 | 5,59 | 5,56 | 5,56 |
| SEPR | E | W/W | 5,56 | 5,22 | 5,47 | 5,25 | 5,52 | 5,56 | 5,58 | 5,54 | 5,53 | 5,55 | 5,55 | 5,56 | 5,53 | 5,55 | 5,53 | 5,51 | 5,55 |
| DELK | L | W/W | 5,32 | 5,05 | 5,31 | 5,04 | 5,18 | 5,05 | 5,53 | 5,53 | 5,53 | 5,52 | 5,54 | 5,54 | 5,54 | 5,52 | 5,54 | 5,52 | 5,53 |
| | N | W/W | 5,69 | 5,55 | 5,67 | 5,60 | 5,64 | 5,62 | 5,66 | 5,57 | 5,63 | 5,60 | 5,64 | 5,61 | 5,51 | 5,63 | 5,69 | 5,51 | 5,63 |
| | U | W/W | 5,67 | 5,54 | 5,66 | 5,54 | 5,68 | 5,59 | 5,69 | 5,55 | 5,55 | 5,58 | 5,72 | 5,74 | 5,60 | 5,70 | 5,67 | 5,71 | 5,58 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C/7°C
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Electric data | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | 164,3 | 180,7 | 197,0 | 226,4 | 262,1 | 291,1 | 320,1 | 371,3 | 416,0 | 445,0 | 480,4 | 529,4 | 568,6 | 609,5 | 650,4 | 697,7 | 738,6 |
| Maximum current (FLA) | A,L | Α | 177,1 | 193,4 | 222,5 | 251,8 | 281,2 | 310,2 | 351,9 | 396,7 | 454,2 | 483,2 | 530,8 | 592,5 | 625,4 | 666,3 | 719,9 | 760,8 | 801,8 |
| Maximum current (FLA) | E,U | Α | 189,8 | 206,1 | 222,5 | 264,5 | 293,9 | 322,9 | 364,6 | 428,0 | 472,8 | 514,5 | 543,5 | 605,2 | 638,1 | 691,7 | 745,4 | 786,3 | 827,2 |
| | N | Α | 202,5 | 218,8 | 235,2 | 277,3 | 306,6 | 335,6 | 383,2 | 440,7 | 485,5 | 527,2 | 556,2 | 617,9 | 650,8 | 704,4 | 758,1 | 799,0 | 839,9 |
| | 0 | Α | 352,9 | 408,1 | 424,4 | 477,1 | 512,8 | 625,3 | 654,3 | 705,5 | 750,3 | 779,3 | 814,6 | 798,7 | 837,9 | 878,8 | 919,7 | 967,0 | 1007,9 |
| Peak current (LRA) | A,L | Α | 365,6 | 420,8 | 449,9 | 502,5 | 531,9 | 644,4 | 686,1 | 730,9 | 788,4 | 817,4 | 865,0 | 861,8 | 894,6 | 935,6 | 989,2 | 1030,1 | 1071,0 |
| reak current (LKA) | E,U | Α | 378,3 | 433,5 | 449,9 | 515,3 | 544,6 | 657,1 | 698,8 | 762,2 | 807,0 | 848,7 | 877,7 | 874,5 | 907,4 | 961,0 | 1014,6 | 1055,6 | 1096,5 |
| | N | Α | 391,1 | 446,2 | 462,6 | 528,0 | 557,3 | 669,8 | 717,4 | 774,9 | 819,7 | 861,4 | 890,4 | 887,2 | 920,1 | 973,7 | 1027,4 | 1068,3 | 1109,2 |

GENERAL TECHNICAL DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|-------------|------|------|------|------|------|------|------|------|------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | °,A,E,L,N,U | Type | | | | | | | | | 0n/0ff | | | | | | | | |
| Number | °,A,E,L,N,U | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Partialisation of the unit with mechanical thermostatic valve | °,A,E,L,N,U | % | 25% | 25% | 25% | 25% | 25% | 25% | 25% | 17% | 17% | 17% | 17% | 20% | 17% | 17% | 17% | 17% | 17% |
| Partialisation of the unit with electronic thermostatic expansion valve | °,A,E,L,N,U | % | 25% | 25% | 25% | 25% | 25% | 25% | 25% | 17% | 17% | 17% | 17% | 20% | 17% | 17% | 17% | 17% | 17% |
| Refrigerant | °,A,E,L,N,U | type | | | | | | | | | R410A | | | | | | | | |
| | 0 | kg | 28,0 | 29,0 | 30,0 | 32,0 | 41,0 | 42,0 | 42,0 | 55,0 | 55,0 | 55,0 | 65,0 | 70,0 | 89,0 | 95,0 | 82,0 | 103,0 | 103,0 |
| D. (: | A,L | kg | 30,0 | 32,0 | 40,0 | 44,0 | 42,0 | 45,0 | 49,0 | 55,0 | 64,0 | 65,0 | 70,0 | 96,0 | 104,0 | 118,0 | 130,0 | 122,0 | 116,0 |
| Refrigerant charge (1) | E,U | kg | 41,0 | 40,0 | 43,0 | 53,0 | 53,0 | 53,0 | 62,0 | 69,0 | 75,0 | 90,0 | 112,0 | 124,0 | 116,0 | 140,0 | 156,0 | 156,0 | 156,0 |
| | N | kg | 50,0 | 53,0 | 53,0 | 59,0 | 59,0 | 70,0 | 84,0 | 80,0 | 90,0 | 124,0 | 91,0 | 134,0 | 122,0 | 152,0 | 168,0 | 168,0 | 168,0 |
| Oil | °,A,E,L,N,U | Туре | | | | | | | | | | | | | | | | | |
| Oil charge circuit 1 | °,A,E,L,N,U | kg | 9,3 | 11,5 | 13,6 | 13,1 | 12,6 | 12,6 | 12,6 | 16,6 | 24,9 | 24,9 | 12,6 | 18,6 | 27,9 | 27,9 | 27,9 | 27,9 | 27,9 |
| Oil charge circuit 2 | °,A,E,L,N,U | kg | 9,3 | 11,5 | 13,6 | 13,1 | 12,6 | 12,6 | 12,6 | 24,9 | 24,9 | 24,9 | 24,9 | 24,9 | 27,9 | 27,9 | 27,9 | 27,9 | 27,9 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | Sh | nell and tu | be | | | | | | | |
| Number | °,A,E,L,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L,N,U | Туре | | | | | | | | Gı | rooved joi | nts | | | | | | | |
| Hydraulic connections without hydronic | : kit | | | | | | | | | | | | | | | | | | |
| | ٥ | Ø | 5" | 5" | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Sizes (in/out) | A,L | Ø | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| | E,N,U | Ø | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Hydraulic connections with hydronic kit | | | | | | | | | | | | | | | | | | | |
| | | Ø | - | - | - | - | 3" | - | - | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Sizes (in/out) | A,L | Ø | - | - | 3" | - | - | - | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Sizes (III/Out) | E,U | Ø | 3" | 3" | - | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| | N | Ø | 3" | 3" | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

Water filter not supplied. Installation is mandatory or the guarantee will void.

Fans

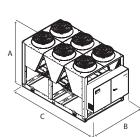
| From From 1962 | Fans | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|
| From the property of the prope | Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Part | Fans: M | | | | | | | | | | | | | | | | | | | |
| Marche 1.0 1 | <u>Fan</u> | | | | | | | | | | | | | | | | | | | |
| Marke | Туре | | type | | | | | | | | | Axial | | | | | | | | |
| Hanks (1.14 1. | Fan motor | | type | | | | | | | | | | | | | | | | | |
| Markato (| | | type | | | | | | | | Asynchror | | phase cu | | | | | | | |
| Ministripension Ref | | | no. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | | 12 | 12 | 14 | 14 |
| With time series and the series of the serie | Number | | no. | | | | 6 | | | | | | 10 | | | | 14 | 16 | 16 | 16 |
| With time should be should | Hullibel | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| Part | | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| Ar have also in the series of | With static pressure | | | | | | | | | | | | | | | | | | | |
| Fig. 16 19 19 19 19 19 19 19 | | | | | | | | | | | | 128000 | | | 160000 | 192000 | 192000 | 192000 | | |
| The section | | | | 64000 | 64000 | 96000 | 96000 | 96000 | 96000 | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 256000 | 288000 |
| Part | Air flow rate | E | | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| Part | All How face | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 208000 |
| Maria plane | | N | | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| Window Part | | U | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 320000 |
| Without Static pressure | High static procesure | °,A,U | Pa | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Part | nigh static pressure | E,L,N | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Part | Without Static pressure | | | | | | | | | | | | | | | | | | | |
| Arthorials and the properties of the properties | | 0 | m³/h | 72000 | 72000 | 72000 | 72000 | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 180000 | 180000 | 216000 | 216000 | 216000 | 252000 | 252000 |
| Friendly Reference (1 1 1971) 1970 1970 1970 1970 1970 1970 1970 1970 | | A | m³/h | 72000 | 72000 | 108000 | 108000 | 108000 | 108000 | 144000 | 144000 | 180000 | 180000 | 216000 | 252000 | 252000 | 252000 | 288000 | 288000 | 288000 |
| Mary | Air flauurata | E | m³/h | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| Millestiatic pressure 1 | All HOW fale | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 184000 |
| Ministrik pressure | | N | m³/h | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| With statiopersions of the state of the stat | | U | m³/h | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 180000 | 216000 | 216000 | 252000 | 252000 | 288000 | 288000 | 324000 | 360000 | 360000 | 360000 |
| With statiopersions of the state of the stat | High static pressure | °,A,E,L,N,U | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Section Part | | | | | | | | | | | | | | | | | | | | |
| Mathematical Health | · | 0 | dB(A) | 87.8 | 87.8 | 87.8 | 87.8 | 90.0 | 90.0 | 90.0 | 92.0 | 92.5 | 93.0 | 94.7 | 94.7 | 95.6 | 95.6 | 95.6 | 96.5 | 96.5 |
| Fig. | | Α | . , | | | | | | | | | | | | | | | | | |
| Mathematic Mat | | | . , | | | | | | | | | | | | | | | | | |
| Minimary | Sound power level | <u> </u> | | | | | | | | | | | | | | | | | | |
| Without Static pressure 1 | | N | . , | | | | | | | | | | | | | | | | | |
| Without Static pressure *** of Ikila** 87 | | | . , | | | | | | | | | | | | | | | | | |
| Mathematical Part | Without Static pressure | | uD(/1) | 70,0 | 70,0 | 70,0 | 7175 | 71,5 | 71,5 | 72,1 | 71,2 | 71,1 | 70,0 | 70,5 |)1 ,L | 71,12 | 71,0 | 70,1 | 70,1 | 70,1 |
| Sund power level Rei | Without Static pressure | 0 | dR(A) | 80 7 | 20 7 | 20 7 | 20 7 | 91 7 | 91 7 | 91 7 | 03.4 | 03.7 | 03.5 | Q/I Q | 0/10 | 95 g | 95.8 | 05 g | 96.6 | 96.6 |
| Part | | Δ | . , | | | | | | | | | | | | | | | | | |
| Sometimentage | | | | | | | | | | | | | | | | | | | | |
| Name | Sound power level | | . , | | | | | | | | | | | | | | | | | |
| Size | | L | . , | | | | | | | | | | | | | | | | | |
| Signature Sign | | | | | | | | | | | | | | | | | | | | |
| Fam: Fine | | U | ub(A) | 72,3 | 72,3 | 72,3 | 73,0 | 73,0 | 73,0 | 24,0 | 73,1 | 73,3 | 70,3 | 70,0 | נ, ול | נ, ול | 20,0 | 70,5 | 70,5 | 70,3 |
| Page | Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Mariantoria M.E.I.N. Mye 1 | Fans: J | | | | | | | | | | | | | | | | | | | |
| Number Number Name Nam | Fan | | | | | | | | | | | | | | | | | | | |
| Number Nu | Туре | | type | | | | | | | | | Axial | | | | | | | | |
| Number Mail | Fan motor | | type | | | | | | | | | Inverter | | | | | | | | |
| Number Nu | | | no. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | | 12 | 12 | 14 | 14 |
| Interior | Number | A,L | no. | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 16 | 16 |
| Name | Nullibei | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| Part | | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| Air flowrate Ring Water Park R | Inverter fan | | | | | | | | | | | | | | | | | | | |
| Air flowrate Air f | | • | | 64000 | 64000 | 64000 | 64000 | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 160000 | 192000 | 192000 | 192000 | 224000 | 224000 |
| N N N N N N N N N N | | A | m³/h | 64000 | 64000 | 96000 | 96000 | 96000 | 96000 | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 256000 | 288000 |
| N m ² /h down down down down down down down down | Air flour rato | E | m³/h | 69000 | 69000 | 69000 | 92000 | 92000 | 92000 | 115000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 230000 |
| N m³/h 9200 9200 9200 1500 1500 1500 1800 1800 161000 16100 16100 161000 16100 16100 16100 16100 16100 16100 161000 16100 | MII HOW Idle | L | m³/h | 46000 | 46000 | 69000 | 69000 | 69000 | 69000 | 92000 | 92000 | 115000 | 115000 | 138000 | 161000 | 161000 | 161000 | 184000 | 184000 | 208000 |
| Pa 120 | | N | m³/h | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 230000 | 253000 | 253000 | 253000 |
| Pa 120 | | U | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 160000 | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 320000 |
| High static pressure A Pa 120 120 120 120 120 120 120 120 120 120 | | 0 | | | | | | | | | | | | | | | | | | |
| High static pressure F.N Pa 20 20 20 20 20 20 20 2 | | A | | - | | | | | | | - | | | | | | | | | |
| L Pa 200 200 200 200 200 200 200 200 200 20 | High static pressure | | | | | | | | | | | | | | | | | | | |
| V Pa 120 1 | • 1 | | | | | | | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) **Notation** * | | | | | | | | | | | | | | | | | | | | |
| Sound power level dB(A) 87,8 87,8 87,8 87,8 87,8 90,0 90,0 90,0 92,0 92,5 93,0 94,7 94,7 95,6 95,6 95,6 96,5 97,2 <td>Sound data calculated in cooling mode</td> <td></td> <td></td> <td>120</td> | Sound data calculated in cooling mode | | | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| A dB(A) 87,8 87,8 97,0 90,0 90,0 90,0 91,5 92,0 93,7 94,2 95,6 96,5 96,5 96,5 97,2 97,2 97,2 97,2 97,2 97,2 97,2 97,2 | mout | . , | dR(A) | 87.8 | 87.8 | 87.8 | 87.8 | 90.0 | 90.0 | 90.0 | 92.0 | 92.5 | 93.0 | 94.7 | 94.7 | 95.6 | 95.6 | 95.6 | 96.5 | 96.5 |
| Sound power level E dB(A) 84,8 84,8 84,8 84,8 84,8 86,3 86,3 86,3 87,5 89,0 89,5 90,8 91,3 92,0 92,0 92,6 93,2 93,2 93,2 93,2 93,2 93,2 93,2 93,2 | | Α | | | | | | | | | | | | | | | | | | |
| Sound power level L dB(A) 82,7 82,7 84,8 84,8 84,8 85,6 86,3 87,7 88,5 89,8 90,5 91,3 91,3 92,1 92,0 92,8 92,8 N dB(A) 86,3 86,3 86,3 87,5 87,5 87,5 87,5 88,5 89,8 90,3 91,5 92,0 92,6 92,6 93,2 93,7 93,7 93,7 U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 98,4 | | | | | | | | | | | | | | | | | | | | |
| N dB(A) 86,3 86,3 86,3 87,5 87,5 87,5 87,5 88,5 89,8 90,3 91,5 92,0 92,6 92,6 93,2 93,7 93,7 93,7 U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 | Sound power level | I | | | | | | | | | | | | | | | | | | |
| U dB(A) 90,0 90,0 90,0 91,5 91,5 91,5 92,7 94,2 94,7 96,0 96,5 97,2 97,2 97,8 98,4 98,4 98,4 | | L | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | (1) Carried a conservation of the desired at the des | | | | | | | _ | | | | | | | | - , | | | | |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

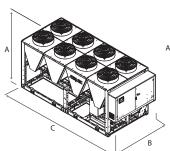
DIMENSIONS

NRB 0800 - 1100 ° NRB 0800 - 0900 L/A

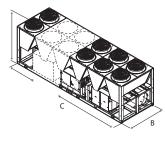
NRB 1200 - 1600 ° NRB 1000 - 1400 L/A NRB 0800 -1000 E/U



NRB 1805 - 2206 ° NRB 1600 - 1805 L/A NRB 1200 - 1400 E/U NRB 0800 - 1000 N



NRB 2406 - 3600 ° NRB 2006- 3600 L/A NRB 1600 - 3600 E/U NRB 1100 -3600 N



| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-------------|----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights without hydron | ic kit | | | | | | | | | | | | | | | | | | |
| A | °,A,E,L,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 2780 | 2780 | 2780 | 2780 | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 6350 | 5950 | 7140 | 7140 | 7140 | 8330 | 8330 |
| | A,L | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 5160 | 6350 | 6350 | 7140 | 8330 | 8330 | 8330 | 9520 | 9520 | 9520 |
| | E,U | mm | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 11900 | 11900 | 11900 |
| | N | mm | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 | 13090 |
| Dimensions and weights with pump/s | | | | | | | | | | | | | | | | | | | |
| | • | mm | - | - | - | - | 2450 | - | - | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| Λ | A,L | mm | - | - | 2450 | - | - | - | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | E,U | mm | 2450 | 2450 | - | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| | | mm | - | - | - | - | 2200 | - | - | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | A,L | mm | - | - | 2200 | - | - | - | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| D | E,U | mm | 2200 | 2200 | - | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | mm | - | - | - | - | 3970 | - | - | 5160 | 5160 | 5160 | 6350 | 5950 | 7140 | 7140 | 7140 | 8330 | 8330 |
| r | A,L | mm | - | - | 3970 | - | - | - | 4760 | 5160 | 6350 | 6350 | 7140 | 8330 | 8330 | 8330 | 9520 | 9520 | 9520 |
| | E,U | mm | 3970 | 3970 | - | 4760 | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 11900 | 11900 | 11900 |
| | N | mm | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 | 13090 |
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | | | | |
| | 0 | kg | 2390 | 2430 | 2500 | 2540 | 3030 | 3080 | 3110 | 3810 | 3980 | 4020 | 4560 | 4700 | 5350 | 5690 | 5770 | 6300 | 6400 |
| Emptywaight | A,L | kg | 2410 | 2470 | 2950 | 3020 | 3060 | 3120 | 3640 | 3910 | 4480 | 4560 | 4980 | 5810 | 6060 | 6160 | 6640 | 6820 | 6900 |
| Empty weight | E,U | kg | 2870 | 2910 | 2990 | 3520 | 3590 | 3610 | 4140 | 4690 | 4900 | 5650 | 5690 | 6210 | 6460 | 6950 | 7440 | 7520 | 7600 |
| | N | kg | 3370 | 3420 | 3490 | 3920 | 3990 | 4020 | 4490 | 5140 | 5360 | 6050 | 6090 | 6610 | 6860 | 7260 | 7840 | 7920 | 8000 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRB 0800H-3600H

Reversible air/water heat pump

Cooling capacity 196 ÷ 971 kW Heating capacity 209 ÷ 1006 kW



- · High efficiency also at partial loads
- Night mode
- HP floating: ESEER +7% with inverter fans
- Also available with Shell and tube heat exchanger





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 50 °C in summer. Hot water production up to 55 °C.

(for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

It is standard in all sizes from 1805 to 3600.

Option integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, with high or low head and storage tank, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of

some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads. ESEER up to +7% with inverter fans.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

ACCESSORIES COMPATIBILITY

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

BRC1: Condensate drip tray. Consider 1 for each V-block.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

| Model | V | er er | 0800 | 0900 | 1000 | 1100 | 1200 14 | 400 160 | 00 1805 | 2006 | 2206 | 2406 | 2600 2 | 800 30 | 00 320 | 3400 | 3600 |
|--|---------------|------------|---------|---------|---------|---------|-----------|-----------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|
| AER485P1 | °,A | l,E,L | • | • | • | • | • | | • | • | • | • | • | | | • | • |
| AERBACP | °,A | ,E,L | • | • | • | • | • | | • | • | • | • | • | | • | • | • |
| AERLINK | °,A | ,E,L | • | • | • | | | | • | • | • | • | • | | | • | • |
| AERNET | °,A | l,E,L | • | • | • | • | | | • | • | • | • | • | | | • | • |
| FL | °,A | I,E,L | • | • | | • | • | | • | • | • | • | • | | | • | • |
| MULTICHILLER_EVO | °,A | ı,E,L | • | • | • | • | • | | • | • | • | • | • | | • | • | • |
| PGD1 | °,A | ,E,L | • | • | • | • | • | | • | • | • | • | • | | • | • | • |
| A -1 11 -11 | | | | | | | | | | | | | | | | | |
| Antivibration | | | | | | | | | | | | | | | | | |
| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | AVX1000 | AVX1000 | AVX1004 | AVX1004 | AVX1004 | | | | | AVX1010 | AVX1010 | AVX1018 | 711711021 | AVX1029 | AVX1049 | AVX1049 | |
| A,L | AVX1000 | AVX1004 | AVX1004 | AVX1004 | AVX1004 | AVX100 | 6 AVX1006 | AVX1010 | AVX1010 | AVX1016 | AVX1016 | AVX1026 | AVX1029 | AVX1036 | AVX1036 | AVX1042 | AVX1042 |
| E | AVX1004 | AVX1006 | AVX1006 | AVX1006 | AVX1006 | AVX101 | AVX1013 | 3 AVX1024 | AVX1024 | AVX1033 | AVX1033 | AVX1039 | AVX1039 | AVX1045 | AVX1045 | AVX1047 | AVX1047 |
| Integrated hydronic kit: AA, AB, AC, AD, | AE, AF, AG, | AH, BA, BE | B, BC | | | | | | | | | | | | | | |
| 0 | AVX1003 | AVX1003 | AVX1005 | AVX1005 | AVX1005 | AVX100 | 5 AVX1005 | AVX1005 | AVX1008 | AVX1012 | AVX1012 | AVX1020 | AVX1023 | AVX1031 | AVX1031 | AVX1031 | AVX1031 |
| A,L | AVX1003 | AVX1005 | AVX1005 | AVX1005 | AVX1005 | AVX100 | 3 AVX1008 | 3 AVX1008 | AVX1012 | AVX1017 | AVX1017 | AVX1028 | AVX1031 | AVX1038 | AVX1038 | AVX1044 | AVX1044 |
| E | AVX1005 | AVX1008 | AVX1008 | AVX1008 | AVX1008 | AVX1012 | 2 AVX1015 | AVX1025 | AVX1025 | AVX1035 | AVX1035 | AVX1041 | AVX1041 | AVX1046 | AVX1046 | AVX1048 | AVX1048 |
| Integrated hydronic kit: AI, AJ, BD, BE, I | BF, BG, BH, I | BI, BJ | | | | | | | | | | | | | | | |
| 0 | AVX1003 | AVX1003 | AVX1005 | AVX1005 | AVX1005 | AVX100 | AVX1005 | AVX1008 | AVX1008 | AVX1012 | AVX1012 | AVX1020 | AVX1023 | AVX1031 | AVX1031 | AVX1031 | AVX1031 |
| A,L | AVX1003 | AVX1005 | AVX1005 | AVX1005 | AVX1005 | AVX100 | 3 AVX1008 | 3 AVX1012 | AVX1012 | AVX1017 | AVX1017 | AVX1028 | AVX1031 | AVX1038 | AVX1038 | AVX1044 | AVX1044 |
| E | AVX1005 | AVX1008 | AVX1008 | AVX1008 | AVX1008 | AVX101. | 2 AVX1015 | AVX1025 | AVX1025 | AVX1035 | AVX1035 | AVX1041 | AVX1041 | AVX1046 | AVX1046 | AVX1048 | AVX1048 |
| Integrated hydronic kit: DA, DB, DC, PA, | PB, PC, PD, | PE, PF, PG | i, PH | | | | | | | | | | | | | | |
| 0 | AVX1001 | AVX1001 | AVX1004 | AVX1004 | AVX1004 | AVX100 | 4 AVX1004 | 4 AVX1009 | AVX1009 | AVX1010 | AVX1010 | AVX1019 | AVX1021 | AVX1030 | AVX1030 | AVX1030 | AVX1032 |
| A,L | AVX1001 | AVX1004 | AVX1004 | AVX1004 | AVX1004 | AVX100 | 9 AVX1009 | AVX1010 | AVX1010 | AVX1016 | AVX1016 | AVX1027 | AVX1030 | AVX1037 | AVX1037 | AVX1043 | AVX1043 |
| E | AVX1004 | AVX1006 | AVX1006 | AVX1006 | AVX1009 | AVX101 | AVX1013 | AVX1024 | AVX1024 | AVX1034 | AVX1034 | AVX1040 | AVX1040 | AVX1045 | AVX1045 | AVX1047 | AVX1047 |
| Integrated hydronic kit: DD, DE, DF, DG, | DH, PI, PJ | | | | | | | | | | | | | | | | |

| Integrated hydronic kit: DI, DJ | | |
|---------------------------------|---|-----------|
| ٥ | X1002 AVX1002 AVX1004 AVX1004 AVX1004 AVX1004 AVX1004 AVX1004 AVX1007 AVX1007 AVX1011 AVX1011 AVX1019 AVX1022 AVX1030 AVX1030 AVX103 | 0 AVX1032 |
| A,L | IX1002 AVX1004 AVX1004 AVX1004 AVX1004 AVX1007 AVX1007 AVX1011 AVX1011 AVX1016 AVX1016 AVX1027 AVX1030 AVX1037 AVX1037 AVX104 | 3 AVX1043 |
| E | X1004 AVX1007 AVX1007 AVX1007 AVX1007 AVX1007 AVX1011 AVX1014 AVX1024 AVX1024 AVX1034 AVX1034 AVX1040 AVX1040 AVX1045 AVX1045 AVX1045 AVX1046 AVX1047 | 7 AVX1047 |

AVX1001 AVX1001 AVX1004 AVX1004 AVX1004 AVX1004 AVX1004 AVX1004 AVX1009 AVX1009 AVX1009 AVX1011 AVX1011 AVX1019 AVX1022 AVX1030 AVX1030 AVX1030 AVX1032 AVX1001 AVX1004 AVX1004 AVX1004 AVX1004 AVX1004 AVX1009 AVX1009 AVX1011 AVX1011 AVX1016 AVX1027 AVX1030 AVX1037 AVX1037 AVX1037 AVX1043 AVX1043

AVX1004 AVX1007 AVX1007 AVX1007 AVX1009 AVX1011 AVX1014 AVX1024 AVX1024 AVX1034 AVX1034 AVX1040 AVX1040 AVX1045 AVX1045 AVX1047 AVX1047 AVX1047

Condensation control temperature

A.I

Ε

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fans: ° | | | | | | | | | |
| 0 | DCPX130 | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX131 | DCPX131 | DCPX155 | DCPX155 |
| Α | DCPX130 | DCPX131 | DCPX131 | DCPX131 | DCPX131 | DCPX132 | DCPX132 | DCPX156 | DCPX156 |
| E,L | As standard |
| Ver | 2206 | 2406 | 2600 | 2800 | | 3000 | 3200 | 3400 | 3600 |
| Fans: ° | | | | | | | | | _ |
| 0 | DCPX156 | DCPX156 | DCPX134 | DCPX134 | [| OCPX135 | DCPX135 | DCPX135 | DCPX135 |
| Α | DCPX134 | DCPX134 | DCPX135 | DCPX135 | [| OCPX136 | DCPX136 | DCPX137 | DCPX137 |
| | | | As standard | As standard | | standard | As standard | As standard | As standard |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °,A,E,L | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 |
|---------|----------------|----------------|----------------|------|------|------|------|------|
| °,A,E,L | DRENRB2006 (1) | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1600 | RIFNRB1805 | RIFNRB2006 |
| A,L | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1401 | RIFNRB1601 | RIFNRB1805 | RIFNRB2006 |
| E | RIFNRB0800 | RIFNRB0900 | RIFNRB1001 | RIFNRB1001 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | RIFNRB2206 | RIFNRB2406 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| A,E,L | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 0 | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4G | GP4G | GP5G | GP5G | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V |
| A,L | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5G | GP5G | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP10V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

The units 0800-0900 $\ensuremath{\mbox{H}^{\circ}}$, 0800 HL/HA with the optional "storage tank" are 3970 mm long, and they must mount the GP2VNA grids.

Condensate drip

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | BRC1x2 (1) | BRC1x2 (1) | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) |
| A,L | BRC1x2 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) | BRC1x5 (1) | BRC1x6 (1) |
| E | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) |

(1) Condensate drip tray. Consider 1 for each V-block.
A grey background indicates the accessory must be assembled in the factory

| Ver | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|------------|------------|------------|-------------|-------------|-------------|-------------|
| 0 | BRC1x5 (1) | BRC1x6 (1) | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x7 (1) |
| A | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) | BRC1x8 (1) | BRC1x9 (1) | BRC1x9 (1) |
| E | BRC1x8 (1) | BRC1x9 (1) | BRC1x9 (1) | BRC1x10 (1) | BRC1x10 (1) | BRC1x11 (1) | BRC1x11 (1) |
| L | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) | BRC1x8 (1) | BRC1x10 (1) | BRC1x10 (1) |

(1) Condensate drip tray. Consider 1 for each V-block.
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fie | ld | Description |
|-----|------|--|
| 1,2 | | NRB |
| 1,4 | ,3 | Size |
| 4,5 | ,6,7 | 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800 3000, 3200, 3400, 3600 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve |
| | Χ | Electronic thermostatic expansion valve (1) |
| 9 | | Model |
| | Н | Heat pump |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (2) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| | L | Standard silenced |
| 12 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | 0 | Standard |
| | J | Inverter |
| 14 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15, | 16 | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (3) |
| | | |

| Field | Description |
|-------|---|
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump (4) |
| DB | Pump B + stand-by pump (4) |
| DC | Pump C + stand-by pump (4) |
| DD | Pump D + stand-by pump (4) |
| DE | Pump E + stand-by pump (4) |
| DF | Pump F + stand-by pump (4) |
| DG | Pump G + stand-by pump (4) |
| DH | Pump H + stand-by pump (4) |
| DI | Pump I + stand-by pump (4) |
| DJ | Pump J + stand-by pump (5) |
| | Kit with storage tank and n° 1 pump |
| AA | Storage tank and pump A |
| AB | Storage tank and pump B |
| AC | Storage tank and pump C |
| AD | Storage tank and pump D |
| AE | Storage tank and pump E |
| AF | Storage tank and pump F |
| AG | Storage tank and pump G |
| AH | Storage tank and pump H |
| Al | Storage tank and pump l |
| AJ | Storage tank and pump J (3) |
| | Kit with storage tank and n° 1 pump + stand-by pump |
| BA | Storage tank with pump A + stand-by pump (4) |
| BB | Storage tank with pump B + stand-by pump (4) |
| BC | Storage tank with pump C + stand-by pump (4) |
| BD | Storage tank with pump D $+$ stand-by pump (4) |
| BE | Storage tank with pump E + stand-by pump (4) |
| BF | Storage tank with pump F + stand-by pump (4) |
| BG | Storage tank with pump G + stand-by pump (4) |
| ВН | Storage tank with pump H + stand-by pump (4) |
| BI | Storage tank with pump I + stand-by pump (4) |
| BJ | Storage tank with pump J + stand-by pump (5) |

- (1) Electronic thermostatic as standard from size 1805÷3600.
 (2) The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 (3) For all configurations including pump J please contact the factory.
 (4) None of the hydronic kits with twin pump (from DA to DJ and from BA to BJ) are compatible for the following sizes and versions with desuperheater D: 1805-2006 version °.
 (5) For all combinations with pump J, please contact our head office. None of the hydronic kits with twin pump (from DA to DJ and from BA to BJ) are compatible for the following sizes and versions with desuperheater D: 1805-2006 version °.

PERFORMANCE SPECIFICATIONS

NRB H°

| MNDII | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 196,4 | 218,0 | 251,8 | 279,2 | 314,2 | 353,8 | 389,0 | 456,7 | 501,9 | 568,7 | 616,1 | 654,4 | 718,3 | 767,3 | 805,3 | 869,8 | 914,8 |
| Input power | kW | 74,1 | 86,1 | 91,7 | 107,9 | 119,5 | 141,6 | 155,6 | 172,6 | 193,2 | 211,2 | 231,1 | 253,0 | 266,2 | 291,4 | 315,7 | 327,9 | 353,4 |
| Cooling total input current | Α | 131,0 | 150,0 | 163,0 | 189,0 | 207,0 | 242,0 | 263,0 | 296,0 | 331,0 | 365,0 | 398,0 | 437,0 | 456,0 | 504,0 | 545,0 | 564,0 | 606,0 |
| EER | W/W | 2,65 | 2,53 | 2,74 | 2,59 | 2,63 | 2,50 | 2,50 | 2,65 | 2,60 | 2,69 | 2,67 | 2,59 | 2,70 | 2,63 | 2,55 | 2,65 | 2,59 |
| Water flow rate system side | l/h | 33794 | 37515 | 43314 | 48020 | 54046 | 60853 | 66910 | 78531 | 86311 | 97783 | 105939 | 112529 | 123524 | 131922 | 138449 | 149552 | 157281 |
| Pressure drop system side | kPa | 34 | 24 | 32 | 26 | 33 | 31 | 37 | 32 | 38 | 37 | 42 | 50 | 48 | 31 | 34 | 37 | 34 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 215,0 | 237,4 | 275,0 | 306,0 | 343,9 | 366,2 | 412,6 | 478,4 | 527,7 | 592,0 | 643,2 | 688,4 | 749,9 | 796,0 | 836,5 | 906,8 | 948,0 |
| Input power | kW | 70,2 | 77,7 | 89,6 | 99,8 | 112,3 | 121,7 | 137,0 | 157,3 | 174,3 | 193,9 | 210,7 | 227,9 | 245,2 | 260,8 | 275,8 | 295,9 | 311,8 |
| Heating total input current | Α | 125,0 | 138,0 | 158,0 | 175,0 | 195,0 | 212,0 | 236,0 | 274,0 | 304,0 | 340,0 | 369,0 | 397,0 | 427,0 | 458,0 | 484,0 | 519,0 | 549,0 |
| COP | W/W | 3,06 | 3,06 | 3,07 | 3,07 | 3,06 | 3,01 | 3,01 | 3,04 | 3,03 | 3,05 | 3,05 | 3,02 | 3,06 | 3,05 | 3,03 | 3,06 | 3,04 |
| Water flow rate system side | l/h | 37311 | 41207 | 47745 | 53116 | 59705 | 63585 | 71640 | 83071 | 91620 | 102803 | 111681 | 119537 | 130226 | 138243 | 145280 | 157484 | 164648 |
| Pressure drop system side | kPa | 42 | 28 | 38 | 32 | 40 | 34 | 42 | 36 | 42 | 40 | 46 | 56 | 53 | 33 | 37 | 40 | 37 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

NRB HL

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 197,9 | 227,9 | 247,7 | 275,2 | 301,1 | 359,1 | 392,2 | 453,8 | 495,0 | 552,5 | 592,9 | 651,2 | 681,3 | 748,5 | 784,2 | 848,0 | 882,7 |
| Input power | kW | 75,3 | 78,6 | 89,8 | 106,2 | 123,2 | 133,0 | 153,4 | 169,0 | 193,9 | 208,9 | 234,1 | 246,2 | 269,6 | 284,8 | 310,0 | 326,5 | 352,4 |
| Cooling total input current | Α | 126,0 | 133,0 | 150,0 | 176,0 | 203,0 | 220,0 | 252,0 | 280,0 | 321,0 | 347,0 | 390,0 | 409,0 | 446,0 | 473,0 | 515,0 | 543,0 | 585,0 |
| EER | W/W | 2,63 | 2,90 | 2,76 | 2,59 | 2,44 | 2,70 | 2,56 | 2,69 | 2,55 | 2,64 | 2,53 | 2,65 | 2,53 | 2,63 | 2,53 | 2,60 | 2,50 |
| Water flow rate system side | l/h | 34040 | 39194 | 42596 | 47339 | 51779 | 61758 | 67431 | 78030 | 85114 | 95003 | 101921 | 111950 | 117122 | 128680 | 134820 | 145791 | 151753 |
| Pressure drop system side | kPa | 14 | 18 | 15 | 19 | 14 | 20 | 18 | 23 | 23 | 29 | 17 | 21 | 23 | 23 | 25 | 29 | 32 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 209,8 | 250,3 | 274,3 | 304,8 | 334,3 | 394,3 | 431,0 | 497,4 | 543,0 | 609,3 | 654,3 | 717,5 | 757,3 | 825,0 | 869,1 | 937,0 | 980,9 |
| Input power | kW | 67,1 | 79,5 | 87,1 | 98,9 | 108,2 | 126,2 | 136,7 | 158,3 | 173,1 | 194,8 | 208,8 | 228,3 | 244,3 | 265,2 | 280,3 | 299,5 | 317,4 |
| Heating total input current | Α | 119,0 | 139,0 | 152,0 | 171,0 | 187,0 | 216,0 | 234,0 | 272,0 | 299,0 | 336,0 | 363,0 | 394,0 | 420,0 | 457,0 | 484,0 | 518,0 | 549,0 |
| COP | W/W | 3,13 | 3,15 | 3,15 | 3,08 | 3,09 | 3,12 | 3,15 | 3,14 | 3,14 | 3,13 | 3,13 | 3,14 | 3,10 | 3,11 | 3,10 | 3,13 | 3,09 |
| Water flow rate system side | l/h | 36429 | 43447 | 47619 | 52924 | 58032 | 68469 | 74854 | 86379 | 94306 | 105817 | 113644 | 124618 | 131534 | 143298 | 150956 | 162747 | 170364 |
| Pressure drop system side | kPa | 15 | 22 | 19 | 23 | 17 | 24 | 21 | 28 | 28 | 35 | 21 | 26 | 29 | 28 | 31 | 36 | 39 |

NRB HA

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 206,2 | 243,8 | 266,9 | 297,0 | 329,2 | 385,5 | 425,3 | 488,4 | 538,3 | 601,4 | 651,3 | 708,6 | 745,3 | 815,1 | 859,0 | 928,0 | 971,4 |
| Input power | kW | 71,8 | 78,2 | 88,1 | 102,2 | 117,2 | 129,2 | 147,2 | 163,7 | 184,8 | 201,3 | 222,3 | 237,4 | 257,9 | 274,4 | 295,7 | 312,0 | 333,6 |
| Cooling total input current | А | 127,0 | 141,0 | 157,0 | 179,0 | 203,0 | 225,0 | 254,0 | 285,0 | 321,0 | 352,0 | 389,0 | 416,0 | 448,0 | 479,0 | 515,0 | 546,0 | 582,0 |
| EER | W/W | 2,87 | 3,12 | 3,03 | 2,91 | 2,81 | 2,98 | 2,89 | 2,98 | 2,91 | 2,99 | 2,93 | 2,99 | 2,89 | 2,97 | 2,91 | 2,97 | 2,91 |
| Water flow rate system side | l/h | 35459 | 41942 | 45909 | 51076 | 56619 | 66291 | 73125 | 83982 | 92547 | 103407 | 111966 | 121819 | 128141 | 140122 | 147682 | 159542 | 167008 |
| Pressure drop system side | kPa | 15 | 21 | 18 | 22 | 17 | 23 | 21 | 27 | 27 | 34 | 21 | 25 | 28 | 28 | 31 | 35 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 214,3 | 254,4 | 279,0 | 310,5 | 341,2 | 400,9 | 438,9 | 506,0 | 553,2 | 620,0 | 666,5 | 730,0 | 771,1 | 840,0 | 885,5 | 954,2 | 999,6 |
| Input power | kW | 66,6 | 79,3 | 86,7 | 97,1 | 106,2 | 124,8 | 137,1 | 157,5 | 171,8 | 193,5 | 207,0 | 226,8 | 240,1 | 260,9 | 275,3 | 297,4 | 311,6 |
| Heating total input current | Α | 120,0 | 142,0 | 155,0 | 172,0 | 187,0 | 219,0 | 240,0 | 277,0 | 303,0 | 342,0 | 368,0 | 401,0 | 421,0 | 460,0 | 485,0 | 526,0 | 550,0 |
| COP | W/W | 3,22 | 3,21 | 3,22 | 3,20 | 3,21 | 3,21 | 3,20 | 3,21 | 3,22 | 3,20 | 3,22 | 3,22 | 3,21 | 3,22 | 3,22 | 3,21 | 3,21 |
| Water flow rate system side | l/h | 37204 | 44148 | 48436 | 53909 | 59226 | 69618 | 76226 | 87877 | 96076 | 107669 | 115772 | 126793 | 133932 | 145898 | 153804 | 165737 | 173613 |
| Pressure drop system side | kPa | 16 | 23 | 20 | 24 | 18 | 25 | 22 | 29 | 29 | 36 | 22 | 26 | 30 | 30 | 33 | 37 | 41 |

NRB HE

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 209,6 | 241,7 | 264,7 | 294,5 | 326,7 | 377,8 | 432,4 | 489,4 | 540,5 | 597,8 | 647,7 | 699,1 | 734,9 | 798,7 | 841,0 | 904,0 | 944,9 |
| Input power | kW | 67,3 | 77,4 | 85,0 | 98,1 | 112,4 | 125,3 | 139,1 | 157,0 | 177,4 | 192,3 | 215,2 | 231,2 | 250,7 | 269,1 | 289,6 | 308,2 | 327,5 |
| Cooling total input current | Α | 115,0 | 132,0 | 144,0 | 164,0 | 187,0 | 208,0 | 230,0 | 261,0 | 296,0 | 322,0 | 362,0 | 387,0 | 417,0 | 449,0 | 483,0 | 515,0 | 547,0 |
| EER | W/W | 3,12 | 3,12 | 3,11 | 3,00 | 2,91 | 3,02 | 3,11 | 3,12 | 3,05 | 3,11 | 3,01 | 3,02 | 2,93 | 2,97 | 2,90 | 2,93 | 2,89 |
| Water flow rate system side | l/h | 36053 | 41586 | 45538 | 50642 | 56185 | 64960 | 74341 | 84155 | 92932 | 102793 | 111352 | 120183 | 126344 | 137316 | 144576 | 155409 | 162455 |
| Pressure drop system side | kPa | 15 | 20 | 18 | 22 | 16 | 22 | 21 | 27 | 27 | 33 | 21 | 24 | 27 | 27 | 29 | 33 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 223,4 | 258,1 | 283,7 | 316,7 | 349,3 | 403,2 | 458,7 | 520,7 | 571,9 | 634,1 | 683,9 | 741,3 | 784,2 | 848,2 | 895,3 | 960,1 | 1006,8 |
| Input power | kW | 69,3 | 80,5 | 87,9 | 98,5 | 109,0 | 126,1 | 143,1 | 162,7 | 177,1 | 198,2 | 211,7 | 230,0 | 244,9 | 264,9 | 279,5 | 299,5 | 315,3 |
| Heating total input current | Α | 122,0 | 140,0 | 153,0 | 170,0 | 188,0 | 216,0 | 244,0 | 278,0 | 305,0 | 341,0 | 367,0 | 396,0 | 420,0 | 456,0 | 482,0 | 517,0 | 544,0 |
| COP | W/W | 3,22 | 3,21 | 3,23 | 3,22 | 3,20 | 3,20 | 3,21 | 3,20 | 3,23 | 3,20 | 3,23 | 3,22 | 3,20 | 3,20 | 3,20 | 3,21 | 3,19 |
| Water flow rate system side | l/h | 38791 | 44787 | 49248 | 54989 | 60660 | 70010 | 79655 | 90422 | 99327 | 110122 | 118791 | 128748 | 136201 | 147319 | 155503 | 166760 | 174868 |
| Pressure drop system side | kPa | 17 | 23 | 20 | 25 | 19 | 25 | 24 | 31 | 31 | 38 | 23 | 27 | 31 | 30 | 33 | 38 | 41 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C/ 17°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C/ 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

ELECTRIC DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | 168,6 | 185,0 | 209,8 | 239,2 | 268,5 | 297,5 | 326,5 | 379,8 | 424,6 | 462,1 | 491,1 | 548,6 | 581,4 | 630,9 | 671,8 | 712,7 | 753,6 |
| Maximum current (FLA) | A,L | Α | 168,6 | 193,5 | 209,8 | 239,2 | 268,5 | 306,0 | 335,0 | 388,3 | 433,1 | 470,6 | 499,6 | 557,1 | 589,9 | 639,4 | 680,3 | 729,7 | 770,6 |
| | E | Α | 177,1 | 202,0 | 218,3 | 247,7 | 277,0 | 314,5 | 352,0 | 405,3 | 450,1 | 487,6 | 516,6 | 574,1 | 606,9 | 656,4 | 697,3 | 752,6 | 793,5 |
| | 0 | Α | 357,2 | 412,4 | 437,2 | 489,9 | 519,2 | 631,7 | 660,7 | 714,0 | 758,8 | 796,3 | 825,3 | 817,9 | 850,7 | 900,2 | 941,1 | 982,0 | 1022,9 |
| Peak current (LRA) | A,L | Α | 357,2 | 420,9 | 437,2 | 489,9 | 519,2 | 640,2 | 669,2 | 722,5 | 767,3 | 804,8 | 833,8 | 826,4 | 859,2 | 908,7 | 949,6 | 999,0 | 1039,9 |
| | E | Α | 365,7 | 429,4 | 445,7 | 498,4 | 527,7 | 648,7 | 686,2 | 739,5 | 784,3 | 821,8 | 850,8 | 843,4 | 876,2 | 925,7 | 966,6 | 1021,9 | 1062,8 |

ENERGY INDICES (REG. 2016/2281 EU)

NRB H°

| MNDII | | | | | | | | | | | | | | | | | | |
|---|---|----------|-----------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| UE 813/2013 performance in average ambient of | onditions | (average | - 35 °C - | Pdesignl | h ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 203 | 224 | 260 | 289 | 325 | 346 | 296 | 343 | 379 | 425 | 462 | 495 | 539 | 571 | 600 | 651 | 680 |
| SCOP | W/W | 3,65 | 3,65 | 3,65 | 3,68 | 3,65 | 3,60 | 3,73 | 3,73 | 3,80 | 3,73 | 3,80 | 3,68 | 3,80 | 3,68 | 3,75 | 3,88 | 3,90 |
| ηsh | % | 143,00 | 143,00 | 143,00 | 144,00 | 143,00 | 141,00 | 146,00 | 143,00 | 149,00 | 146,00 | 149,00 | 144,00 | 149,00 | 144,00 | 147,00 | 152,00 | 153,00 |
| SEER - 12/7 (EN14825:2018) with standard fans | EER - 12/7 (EN14825:2018) with standard fans (2) FR W/W 3.79 3.66 3.88 3.81 3.91 3.80 3.89 3.92 3.80 -(3) -(3) -(3) -(3) -(3) -(3) -(3) -(3) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,79 | 3,66 | 3,88 | 3,81 | 3,91 | 3,80 | 3,89 | 3,92 | 3,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 148,40 | 143,50 | 152,20 | 149,50 | 153,20 | 149,10 | 152,70 | 153,80 | 149,00 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| EER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| ER W/W | | | | | | | | | | | | | | | | | | |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - 23/18 (EN14825: 2018) with standard far | ıs (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,67 | 4,76 | 4,64 | 4,70 | 4,66 | 4,56 | 4,66 | 4,65 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 183,90 | 187,30 | 182,40 | 184,90 | 183,40 | 179,30 | 183,40 | 182,80 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | ; | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,88 | 5,02 | 5,07 | 4,92 | 4,96 | 4,96 | 4,92 | 4,96 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 192,30 | 197,70 | 199,70 | 193,60 | 195,30 | 195,40 | 193,70 | 195,30 |
| SEPR - (EN14825: 2018) High temperature with | inverter fa | ns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,53 | 5,54 | 5,52 | 5,52 | 5,51 | 5,51 | 5,51 | 5,51 |
| SEPR - (EN14825: 2018) High temperature with | standard 1 | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,53 | 5,54 | 5,52 | 5,52 | 5,51 | 5,51 | 5,51 | 5,51 |
| (1) Efficiencies for low temporature applications (2) | ۰۰۲۱ | | | | | | | | | | | | | | | | | |

NRB HL

| INND IIL | | | | | | | | | | | | | | | | | | |
|--|-----------|----------|-------------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| UE 813/2013 performance in average ambient co | nditions | (average |) - 35 °C - | Pdesignl | h ≤ 400 k | (W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 197 | 235 | 258 | 286 | 314 | 370 | 306 | 353 | 385 | 433 | 464 | 509 | 538 | 586 | 617 | 666 | 697 |
| SCOP | W/W | 3,73 | 3,75 | 3,75 | 3,68 | 3,68 | 3,73 | 3,93 | 3,83 | 3,95 | 3,83 | 3,93 | 3,88 | 3,88 | 3,75 | 3,85 | 3,95 | 3,98 |
| ηsh | % | 146,00 | 147,00 | 147,00 | 144,00 | 144,00 | 146,00 | 154,00 | 150,00 | 155,00 | 150,00 | 154,00 | 152,00 | 152,00 | 147,00 | 151,00 | 155,00 | 156,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (| 2) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,83 | 4,01 | 3,92 | 3,90 | 3,82 | 4,05 | 3,99 | 4,04 | 3,87 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 150,30 | 157,20 | 153,90 | 149,60 | 159,00 | 156,40 | 156,60 | 158,60 | 151,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| EER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| EER W/W | | | | | | | | | | | | | | | | | | |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - 23/18 (EN14825: 2018) with standard fans | (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,72 | 4,67 | 4,79 | 4,63 | 4,73 | 4,67 | 4,75 | 4,70 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,70 | 183,60 | 188,70 | 182,30 | 186,30 | 183,60 | 187,00 | 185,00 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 5,08 | 5,11 | 5,10 | 4,95 | 5,04 | 4,96 | 5,09 | 5,02 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 200,30 | 201,20 | 201,10 | 195,00 | 198,40 | 195,20 | 200,40 | 197,70 |
| SEPR - (EN14825: 2018) High temperature with st | tandard f | fans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,51 | 5,51 | 5,53 | 5,51 | 5,52 | 5,52 | 5,51 | 5,51 |
| SEPR - (EN14825: 2018) High temperature with ir | verter fa | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,51 | 5,51 | 5,53 | 5,51 | 5,52 | 5,52 | 5,51 | 5,51 |
| (1) Eff. : | () | | | | | | | | | | | | | | | | | |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

⁽¹⁾ Efficiencies for low temperature applications (35 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

NRB HA

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| UE 813/2013 performance in average ambient cor | ditions | | | | | | | | | | | | | | | | | |
| Pdesignh | kW | 196 | 233 | 255 | 284 | 312 | 367 | 304 | 351 | 384 | 430 | 462 | 506 | 535 | 582 | 614 | 662 | 693 |
| SCOP | W/W | 3,03 | 3,08 | 3,03 | 3,08 | 3,03 | 3,10 | 3,13 | 3,08 | 3,30 | 3,08 | 3,15 | 3,08 | 3,13 | 3,03 | 3,20 | 3,20 | 3,15 |
| ηsh | % | 118,00 | 120,00 | 118,00 | 120,00 | 118,00 | 121,00 | 122,00 | 120,00 | 129,00 | 120,00 | 123,00 | 120,00 | 122,00 | 118,00 | 125,00 | 125,00 | 123,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (2 |) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,96 | 4,13 | 4,09 | 4,09 | 4,07 | 4,23 | 4,22 | 4,22 | 4,10 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 155,40 | 162,10 | 160,40 | 160,60 | 159,70 | 166,10 | 165,60 | 165,80 | 161,0 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| EER (EN14825:2018) 12/7 with inverter fans (2) EER W/W 4.58 4.57 4.60 4.55 4.60 4.56 4.60 4.56 | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,58 | 4,57 | 4,60 | 4,55 | 4,60 | 4,56 | 4,60 | 4,56 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 180,3% | 179,6% | 180,8% | 179,1% | 180,8% | 179,2% | 181,0% | 179,2% |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEER - 23/18 (EN14825: 2018) with standard fans | (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,96 | 5,01 | 5,02 | 4,84 | 4,92 | 4,87 | 4,95 | 4,94 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 195,30 | 197,40 | 197,80 | 190,50 | 193,90 | 191,80 | 195,00 | 194,60 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,58 | 4,57 | 4,60 | 4,55 | 4,60 | 4,54 | 4,60 | 4,56 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 180,30 | 179,60 | 180,80 | 179,10 | 180,80 | 178,40 | 181,00 | 179,20 |
| SEPR - (EN14825: 2018) High temperature with st | andard f | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,52 | 5,51 | 5,55 | 5,52 | 5,51 | 5,51 | 5,52 |
| SEPR - (EN14825: 2018) High temperature with in | verter fa | ns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,52 | 5,51 | 5,55 | 5,52 | 5,51 | 5,51 | 5,52 |

NRB HE

| Size | | 0800 | 0000 | 1000 | 1100 | 1200 | 1400 | 1600 | 1005 | 2006 | 2206 | 2406 | 2600 | 2000 | 2000 | 2200 | 2400 | 2600 |
|--|------------|-----------|-----------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 0900 | 1000 | 1100 | | 1400 | 1600 | 1805 | 2000 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| UE 813/2013 performance in average ambient co | nditions (| [average] | - 55 °C - | Pdesignl | 1 ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 204 | 236 | 259 | 290 | 320 | 369 | 318 | 361 | 397 | 440 | 474 | 514 | 544 | 588 | 621 | 666 | 698 |
| SCOP | W/W | 3,05 | 3,08 | 3,05 | 3,10 | 3,03 | 3,08 | 3,13 | 3,05 | 3,30 | 3,08 | 3,15 | 3,08 | 3,13 | 3,03 | 3,20 | 3,20 | 3,13 |
| ηsh | % | 119,00 | 120,00 | 119,00 | 121,00 | 118,00 | 120,00 | 122,00 | 119,00 | 129,00 | 120,00 | 123,00 | 120,00 | 122,00 | 118,00 | 125,00 | 125,00 | 122,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (| 2) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 4,16 | 4,15 | 4,18 | 4,19 | 4,16 | 4,27 | 4,39 | 4,36 | 4,22 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 163,40 | 163,00 | 164,10 | 164,70 | 163,40 | 167,90 | 172,70 | 171,40 | 165,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| EER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| ER W/W 4,71 4,67 4,74 4,66 4,69 4,62 4,71 4,66 | | | | | | | | | | | | | | | | | | |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,4% | 183,7% | 186,6% | 183,4% | 184,6% | 181,9% | 185,4% | 183,4% |
| SEER - 23/18 (EN14825: 2018) with standard fans | (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 5,17 | 5,20 | 5,16 | 5,01 | 5,04 | 4,99 | 5,03 | 5,03 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 203,60 | 204,90 | 203,20 | 197,20 | 198,60 | 196,50 | 198,10 | 198,10 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,71 | 4,67 | 4,74 | 4,66 | 4,69 | 4,62 | 4,71 | 4,66 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN14825: 2018) High temperature with st | andard f | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |
| SEPR - (EN14825: 2018) High temperature with ir | verter fa | ns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |
| (1) F(C : | EE 06) | | | | | | | | | | | | | | | | | |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

⁽¹⁾ Efficiencies for average temperature applications (55 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

FANS

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------|---------|------|-------|--------|--------|--------|--------|--------|--------|-----------|-----------|----------|--------|--------|--------|--------|--------|--------|--------|
| Fans: ° | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Axial | | | | | | | | |
| Fan motor | °,A | type | | | | | | | | As | synchrono | us | | | | | | | |
| rali illotoi | E,L | type | | | | | | | | Asynchroi | nous with | phase cu | t | | | | | | |
| | 0 | no. | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 |
| Number | A,L | no. | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 |
| | E | no. | 6 | 8 | 8 | 8 | 8 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 |
| | 0 | m³/h | 80000 | 80000 | 120000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 | 240000 | 240000 | 280000 | 280000 | 280000 | 280000 |
| Air flow rate | A | m³/h | 80000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 | 240000 | 240000 | 280000 | 280000 | 320000 | 320000 | 360000 | 360000 |
| All flow fale | E | m³/h | 90000 | 120000 | 120000 | 120000 | 120000 | 150000 | 180000 | 210000 | 210000 | 240000 | 240000 | 270000 | 270000 | 300000 | 300000 | 330000 | 330000 |
| | L | m³/h | 60000 | 90000 | 90000 | 90000 | 90000 | 120000 | 120000 | 150000 | 150000 | 180000 | 180000 | 210000 | 210000 | 240000 | 240000 | 270000 | 270000 |

GENERAL TECHNICAL DATA

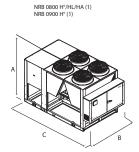
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|---------|-------|------|------|------|------|------|------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | °,A,E,L | Туре | | | | | | | | | On-Off | | | | | | | | |
| Number | °,A,E,L | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | °,A,E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L | type | | | | | | | | | R410A | | | | | | | | |
| | 0 | kg | 44,0 | 44,0 | 54,0 | 62,0 | 62,0 | 60,0 | 60,0 | 81,0 | 82,0 | 100,0 | 95,0 | 187,0 | 116,0 | 130,0 | 130,0 | 138,0 | 138,0 |
| Defrigerant charge (1) | Α | kg | 44,0 | 60,0 | 64,0 | 62,0 | 66,0 | 81,0 | 78,0 | 99,0 | 102,0 | 117,0 | 119,0 | 149,0 | 148,0 | 168,0 | 170,0 | 186,0 | 196,0 |
| Refrigerant charge (1) | E | kg | 58,0 | 76,5 | 78,0 | 76,0 | 78,0 | 93,0 | 112,0 | 136,0 | 143,0 | 152,0 | 152,0 | 187,0 | 176,0 | 200,0 | 200,0 | 218,0 | 218,0 |
| _ | L | kg | 44,0 | 60,0 | 64,0 | 62,0 | 66,0 | 78,0 | 78,0 | 104,0 | 102,0 | 117,0 | 117,0 | 148,0 | 148,0 | 160,0 | 170,0 | 186,0 | 196,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | В | razed plat | te | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L | Туре | | | | | | | | Gr | ooved joir | nts | | | | | | | |
| Hydraulic connections without hydronic kir | t | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | °,A,E,L | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Hydraulic connections with hydronic kit | | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | °,A,E,L | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Sound data calculated in cooling mode (2) | | | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | 89,5 | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 95,9 | 95,9 |
| Causad manusus laural | А | dB(A) | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 96,6 | 96,6 | 97,2 | 97,2 |
| Sound power level — | E | dB(A) | 84,6 | 86,1 | 86,1 | 86,1 | 86,1 | 87,2 | 88,2 | 89,4 | 89,9 | 91,1 | 91,6 | 92,2 | 92,2 | 92,7 | 92,7 | 93,2 | 93,2 |
| _ | L | dB(A) | 82,6 | 84,6 | 84,6 | 84,6 | 84,6 | 86,1 | 86,1 | 87,7 | 88,2 | 89,6 | 90,1 | 90,9 | 90,9 | 91,6 | 91,6 | 92,1 | 92,1 |
| | 0 | dB(A) | 57,4 | 57,4 | 59,3 | 59,3 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,7 | 61,7 | 62,5 | 62,5 | 63,2 | 63,2 | 63,2 | 63,2 |
| | Α | dB(A) | 57,4 | 59,3 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,6 | 61,6 | 62,5 | 62,5 | 63,2 | 63,2 | 63,7 | 63,7 | 64,2 | 64,2 |
| Sound pressure level (10 m) — | E | dB(A) | 52,4 | 53,7 | 53,7 | 53,7 | 53,7 | 54,7 | 55,5 | 56,7 | 57,2 | 58,2 | 58,7 | 59,2 | 59,2 | 59,6 | 59,6 | 60,0 | 60,0 |
| _ | | dB(A) | 50,5 | 52,4 | 52,4 | 52,4 | 52,4 | 53,8 | 53,8 | 55,2 | 55.7 | 57.0 | 57,5 | 58,2 | 58,2 | 58,7 | 58,7 | 59,1 | 59,1 |

In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

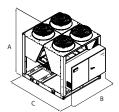
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

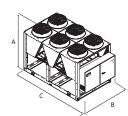
DIMENSIONS



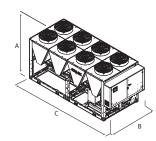
NRB 0800 H°/HL/HA NRB 0900 H°



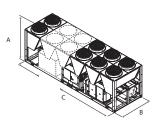
NRB 0800 HE NRB 0900-1200 HL/HA NRB 1000-1600 H°



NRB 1805-2406 H° NRB 1805-2006 HL/HA



NRB 2600-3600 H° NRB 1400-1600 HL/HA NRB 2206-3600 HL-HA NRB 0900-3600 HE



(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes: NRB 0800H°, 0900H° NRB 0800 HL/HA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|---------|----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights without hydron | ic kit | | | | | | | | | | | | | | | | | | |
| A | °,A,E,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 3970 | 5160 | 5160 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 |
| (| A,L | mm | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 4760 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 |
| | E | mm | 3970 | 4760 | 4760 | 4760 | 4760 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 11900 | 13090 | 13090 |

■ The units 0800-0900 H°, 0800 HL/HA with the optional "storage tank" are 3970 mm long.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | | | | |
| | 0 | kg | 2520 | 2580 | 3160 | 3210 | 3250 | 3310 | 3340 | 4200 | 4370 | 4990 | 5030 | 5640 | 5930 | 6740 | 6820 | 6920 | 7070 |
| Empty weight | A,L | kg | 2550 | 3130 | 3200 | 3240 | 3320 | 3970 | 4040 | 4780 | 4990 | 5490 | 5730 | 6410 | 6660 | 7340 | 7420 | 8040 | 8120 |
| | E | kg | 3080 | 3770 | 3840 | 3870 | 3950 | 4510 | 5020 | 5860 | 6080 | 6610 | 6800 | 7420 | 7670 | 8300 | 8380 | 9010 | 9090 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NRB 0800H-3600H

Reversible air/water heat pump with shell and tube heat exchanger

Cooling capacity 196 ÷ 971 kW Heating capacity 209 ÷ 1006 kW



- Shell and tube heat exchanger
- · High efficiency also at partial loads
- Night mode
- HP floating: ESEER +7% with inverter fans





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

They are outdoor units with axial fan scroll compressors and Shell and tube exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

FEATURES

Operating field

Working at full load up to -10 °C outside air temperature in winter, and up to 50 °C in summer. Hot water production up to 55 °C.

(for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

It is standard in all sizes from 1805 to 3600.

Option integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Together with continuous fan modulation, it optimises unit operation in any working point, enhancing energy efficiency with partial loads. ESEER up to +7% with inverter fans.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected

is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

BRC1: Condensate drip tray. Consider 1 for each V-block.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E,L | • | | | • | | | | | • | • | • | • | | • | | | • |
| AERBACP | °,A,E,L | • | | | | | | | • | • | • | • | • | • | • | | • | • |
| AERLINK | °,A,E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L | • | • | | | • | • | • | • | • | • | • | • | • | • | | • | • |
| FL | °,A,E,L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,A,E,L | | | | | | | | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E,L | • | | | | | | | | | • | | | | | | | • |

Antivibration

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|-------------|------------|-------------|-------------|------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| 0 | AVX1001 | AVX1001 | AVX1004 | AVX1004 | AVX1004 | AVX1004 | AVX1004 | AVX1123 | AVX1123 | AVX1124 | AVX1124 | AVX1115 | AVX1119 | AVX1117 | AVX1121 | AVX1121 | AVX1121 |
| A,L | AVX1001 | AVX1004 | AVX1004 | AVX1004 | AVX1004 | AVX1123 | AVX1123 | AVX1124 | AVX1124 | AVX1115 | AVX1115 | AVX1117 | AVX1117 | AVX1116 | AVX1116 | AVX1118 | AVX1118 |
| E | AVX1004 | AVX1123 | AVX1123 | AVX1123 | AVX1123 | AVX1124 | AVX1119 | AVX1117 | AVX1117 | AVX1116 | AVX1116 | AVX1118 | AVX1118 | AVX1120 | AVX1120 | AVX1118 | AVX1122 |
| Integrated hydronic kit: DA, DB, DC, DD, I | DE, DF, DG, | DH, DI, D. | , PA, PB, I | PC, PD, PE, | PF, PG, PI | I, PI, PJ | | | | | | | | | | | |
| 0 | - | - | AVX1004 | AVX1004 | AVX1004 | - | - | AVX1123 | AVX1123 | AVX1124 | AVX1124 | AVX1115 | AVX1119 | AVX1117 | AVX1121 | AVX1121 | AVX1121 |
| A,L | - | AVX1004 | - | - | - | AVX1123 | AVX1123 | AVX1124 | AVX1124 | AVX1115 | AVX1115 | AVX1117 | AVX1117 | AVX1116 | AVX1116 | AVX1118 | AVX1118 |
| E | AVX1004 | AVX1123 | AVX1123 | AVX1123 | AVX1123 | AVX1124 | AVX1119 | AVX1117 | AVX1117 | AVX1116 | AVX1116 | AVX1118 | AVX1118 | AVX1120 | AVX1120 | AVX1118 | AVX1122 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °,A,E,L | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

À grey background indicates the accessory must be assembled in the factory

| Ver | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 |
|---------|----------------|----------------|----------------|------|------|------|------|------|
| °,A,E,L | DRENRB2006 (1) | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|--|--------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1600 | RIFNRB1805 | RIFNRB2006 |
| A,L | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1401 | RIFNRB1600 | RIFNRB1805 | RIFNRB2006 |
| E | RIFNRB0800 | RIFNRB0900 | RIFNRB1001 | RIFNRB1100 | RIFNRB1200 | RIFNRB1401 | RIFNRB1600 | RIFNRB1815 | RIFNRB2016 |
| A grey background indicates the access | orv must he assembled in | the factory | | | | | | | |

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| ٥ | RIFNRB2206 | RIFNRB2406 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| A,E,L | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|---------------|-------------|--------------|-------------|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| ۰ | GP2VN | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V |
| A | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5VN | GP4VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP4VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP10V | GP11V | GP11V |
| L | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP5VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN |
| Integrated hydronic kit: DA, DB, DC, D | D, DE, DF, DG | , DH, DI, D | J, PA, PB, I | PC, PD, PE, | PF, PG, PI | H, PI, PJ | | | | | | | | | | | |
| 0 | - | - | GP3VN | GP3VN | GP3VN | - | - | GP4VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V |
| A | - | GP3VN | - | - | - | GP4VN | GP4VN | GP5VN | GP4VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP4VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP10V | GP11V | GP11V |
| L | - | GP3VN | - | - | - | GP5VN | GP4VN | GP5VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN |

A grey background indicates the accessory must be assembled in the factory

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Condensate drip

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | BRC1x2 (1) | BRC1x2 (1) | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) |
| A,L | BRC1x2 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) | BRC1x5 (1) | BRC1x6 (1) |
| E | BRC1x3 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x4 (1) | BRC1x5 (1) | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) |

(1) Condensate drip tray. Consider 1 for each V-block.
A grey background indicates the accessory must be assembled in the factory

| Ver | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|------------|------------|------------|-------------|-------------|-------------|-------------|
| 0 | BRC1x5 (1) | BRC1x6 (1) | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x7 (1) |
| A | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) | BRC1x8 (1) | BRC1x9 (1) | BRC1x9 (1) |
| E | BRC1x8 (1) | BRC1x9 (1) | BRC1x9 (1) | BRC1x10 (1) | BRC1x10 (1) | BRC1x11 (1) | BRC1x11 (1) |
| L | BRC1x6 (1) | BRC1x7 (1) | BRC1x7 (1) | BRC1x8 (1) | BRC1x8 (1) | BRC1x10 (1) | BRC1x10 (1) |

(1) Condensate drip tray. Consider 1 for each V-block.
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fiel | d | Description |
|------|------|--|
| | - | |
| 1,2, | ,3 | NRB |
| 4,5, | ,6,7 | Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800, 3000, 3200, 3400, 3600 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve |
| | Χ | Electronic thermostatic expansion valve |
| 9 | | Model |
| | W | Heat pump with shell and tube heat exchanger |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (1) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| | L | Standard silenced |
| 12 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | 0 | Standard |
| | J | Inverter |
| | | |

| Field | Description |
|-------|--|
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump |

⁽¹⁾ The desuperheater can only be used with cold running.

Compatibility of models with hydronic units available with a configurator

| companionity or mou | | • | | | | | , | • | | | | | | | | | | |
|--------------------------|----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Version | | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| standard | Н° | - | - | • | • | • | - | - | • | • | • | • | • | • | • | • | • | • |
| Standard silenced | HL | - | • | - | - | - | • | | | • | • | • | • | • | • | • | • | • |
| High efficiency | HA | - | • | - | - | - | • | | • | | | • | • | • | • | • | • | • |
| Silenced high efficiency | HE | | | | | | | | | | | | | | | | | • |

NRB-0800-3600-HP-T_Y_CE50_08 494 www.aermec.com

PERFORMANCE SPECIFICATIONS

NRB H°

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 196,4 | 218,0 | 251,8 | 279,2 | 314,2 | 353,8 | 389,0 | 456,7 | 501,9 | 568,7 | 616,1 | 654,4 | 718,3 | 767,3 | 805,3 | 869,8 | 914,8 |
| Input power | kW | 74,1 | 86,1 | 91,7 | 107,9 | 119,5 | 141,6 | 155,6 | 172,6 | 193,2 | 211,2 | 231,1 | 253,0 | 266,2 | 291,4 | 315,7 | 327,9 | 353,4 |
| Cooling total input current | Α | 131,0 | 150,0 | 163,0 | 189,0 | 207,0 | 242,0 | 263,0 | 296,0 | 331,0 | 365,0 | 398,0 | 437,0 | 456,0 | 504,0 | 545,0 | 564,0 | 606,0 |
| EER | W/W | 2,65 | 2,53 | 2,74 | 2,59 | 2,63 | 2,50 | 2,50 | 2,65 | 2,60 | 2,69 | 2,67 | 2,59 | 2,70 | 2,63 | 2,55 | 2,65 | 2,59 |
| Water flow rate system side | l/h | 33794 | 37515 | 43314 | 48020 | 54046 | 60853 | 66910 | 78531 | 86311 | 97783 | 105939 | 112529 | 123524 | 131922 | 138449 | 149552 | 157281 |
| Pressure drop system side | kPa | 34 | 24 | 32 | 26 | 33 | 31 | 37 | 32 | 38 | 37 | 42 | 50 | 48 | 31 | 34 | 37 | 34 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 215,0 | 237,4 | 275,0 | 306,0 | 343,9 | 366,2 | 412,6 | 478,4 | 527,7 | 592,0 | 643,2 | 688,4 | 749,9 | 796,0 | 836,5 | 906,8 | 948,0 |
| Input power | kW | 70,2 | 77,7 | 89,6 | 99,8 | 112,3 | 121,7 | 137,0 | 157,3 | 174,3 | 193,9 | 210,7 | 227,9 | 245,2 | 260,8 | 275,8 | 295,9 | 311,8 |
| Heating total input current | Α | 125,0 | 138,0 | 158,0 | 175,0 | 195,0 | 212,0 | 236,0 | 274,0 | 304,0 | 340,0 | 369,0 | 397,0 | 427,0 | 458,0 | 484,0 | 519,0 | 549,0 |
| COP | W/W | 3,06 | 3,06 | 3,07 | 3,07 | 3,06 | 3,01 | 3,01 | 3,04 | 3,03 | 3,05 | 3,05 | 3,02 | 3,06 | 3,05 | 3,03 | 3,06 | 3,04 |
| Water flow rate system side | l/h | 37311 | 41207 | 47745 | 53116 | 59705 | 63585 | 71640 | 83071 | 91620 | 102803 | 111681 | 119537 | 130226 | 138243 | 145280 | 157484 | 164648 |
| Pressure drop system side | kPa | 42 | 28 | 38 | 32 | 40 | 34 | 42 | 36 | 42 | 40 | 46 | 56 | 53 | 33 | 37 | 40 | 37 |

NRB HL

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 197,9 | 227,9 | 247,7 | 275,2 | 301,1 | 359,1 | 392,2 | 453,8 | 495,0 | 552,5 | 592,9 | 651,2 | 681,3 | 748,5 | 784,2 | 848,0 | 882,7 |
| Input power | kW | 75,3 | 78,6 | 89,8 | 106,2 | 123,2 | 133,0 | 153,4 | 169,0 | 193,9 | 208,9 | 234,1 | 246,2 | 269,6 | 284,8 | 310,0 | 326,5 | 352,4 |
| Cooling total input current | Α | 126,0 | 133,0 | 150,0 | 176,0 | 203,0 | 220,0 | 252,0 | 280,0 | 321,0 | 347,0 | 390,0 | 409,0 | 446,0 | 473,0 | 515,0 | 543,0 | 585,0 |
| EER | W/W | 2,63 | 2,90 | 2,76 | 2,59 | 2,44 | 2,70 | 2,56 | 2,69 | 2,55 | 2,64 | 2,53 | 2,65 | 2,53 | 2,63 | 2,53 | 2,60 | 2,50 |
| Water flow rate system side | l/h | 34040 | 39194 | 42596 | 47339 | 51779 | 61758 | 67431 | 78030 | 85114 | 95003 | 101921 | 111950 | 117122 | 128680 | 134820 | 145791 | 151753 |
| Pressure drop system side | kPa | 14 | 18 | 15 | 19 | 14 | 20 | 18 | 23 | 23 | 29 | 17 | 21 | 23 | 23 | 25 | 29 | 32 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 209,8 | 250,3 | 274,3 | 304,8 | 334,3 | 394,3 | 431,0 | 497,4 | 543,0 | 609,3 | 654,3 | 717,5 | 757,3 | 825,0 | 869,1 | 937,0 | 980,9 |
| Input power | kW | 67,1 | 79,5 | 87,1 | 98,9 | 108,2 | 126,2 | 136,7 | 158,3 | 173,1 | 194,8 | 208,8 | 228,3 | 244,3 | 265,2 | 280,3 | 299,5 | 317,4 |
| Heating total input current | Α | 119,0 | 139,0 | 152,0 | 171,0 | 187,0 | 216,0 | 234,0 | 272,0 | 299,0 | 336,0 | 363,0 | 394,0 | 420,0 | 457,0 | 484,0 | 518,0 | 549,0 |
| COP | W/W | 3,13 | 3,15 | 3,15 | 3,08 | 3,09 | 3,12 | 3,15 | 3,14 | 3,14 | 3,13 | 3,13 | 3,14 | 3,10 | 3,11 | 3,10 | 3,13 | 3,09 |
| Water flow rate system side | l/h | 36429 | 43447 | 47619 | 52924 | 58032 | 68469 | 74854 | 86379 | 94306 | 105817 | 113644 | 124618 | 131534 | 143298 | 150956 | 162747 | 170364 |
| Pressure drop system side | kPa | 15 | 22 | 19 | 23 | 17 | 24 | 21 | 28 | 28 | 35 | 21 | 26 | 29 | 28 | 31 | 36 | 39 |

NRB HA

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 206,2 | 243,8 | 266,9 | 297,0 | 329,2 | 385,5 | 425,3 | 488,4 | 538,3 | 601,4 | 651,3 | 708,6 | 745,3 | 815,1 | 859,0 | 928,0 | 971,4 |
| Input power | kW | 71,8 | 78,2 | 88,1 | 102,2 | 117,2 | 129,2 | 147,2 | 163,7 | 184,8 | 201,3 | 222,3 | 237,4 | 257,9 | 274,4 | 295,7 | 312,0 | 333,6 |
| Cooling total input current | Α | 127,0 | 141,0 | 157,0 | 179,0 | 203,0 | 225,0 | 254,0 | 285,0 | 321,0 | 352,0 | 389,0 | 416,0 | 448,0 | 479,0 | 515,0 | 546,0 | 582,0 |
| EER | W/W | 2,87 | 3,12 | 3,03 | 2,91 | 2,81 | 2,98 | 2,89 | 2,98 | 2,91 | 2,99 | 2,93 | 2,99 | 2,89 | 2,97 | 2,91 | 2,97 | 2,91 |
| Water flow rate system side | l/h | 35459 | 41942 | 45909 | 51076 | 56619 | 66291 | 73125 | 83982 | 92547 | 103407 | 111966 | 121819 | 128141 | 140122 | 147682 | 159542 | 167008 |
| Pressure drop system side | kPa | 15 | 21 | 18 | 22 | 17 | 23 | 21 | 27 | 27 | 34 | 21 | 25 | 28 | 28 | 31 | 35 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 214,3 | 254,4 | 279,0 | 310,5 | 341,2 | 400,9 | 438,9 | 506,0 | 553,2 | 620,0 | 666,5 | 730,0 | 771,1 | 840,0 | 885,5 | 954,2 | 999,6 |
| Input power | kW | 66,6 | 79,3 | 86,7 | 97,1 | 106,2 | 124,8 | 137,1 | 157,5 | 171,8 | 193,5 | 207,0 | 226,8 | 240,1 | 260,9 | 275,3 | 297,4 | 311,6 |
| Heating total input current | Α | 120,0 | 142,0 | 155,0 | 172,0 | 187,0 | 219,0 | 240,0 | 277,0 | 303,0 | 342,0 | 368,0 | 401,0 | 421,0 | 460,0 | 485,0 | 526,0 | 550,0 |
| COP | W/W | 3,22 | 3,21 | 3,22 | 3,20 | 3,21 | 3,21 | 3,20 | 3,21 | 3,22 | 3,20 | 3,22 | 3,22 | 3,21 | 3,22 | 3,22 | 3,21 | 3,21 |
| Water flow rate system side | l/h | 37204 | 44148 | 48436 | 53909 | 59226 | 69618 | 76226 | 87877 | 96076 | 107669 | 115772 | 126793 | 133932 | 145898 | 153804 | 165737 | 173613 |
| Pressure drop system side | kPa | 16 | 23 | 20 | 24 | 18 | 25 | 22 | 29 | 29 | 36 | 22 | 26 | 30 | 30 | 33 | 37 | 41 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C /7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40°C / 45°C; Outside air 7°C d.b. / 6°C w.b.

NRB HE

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 209,6 | 241,7 | 264,7 | 294,5 | 326,7 | 377,8 | 432,4 | 489,4 | 540,5 | 597,8 | 647,7 | 699,1 | 734,9 | 798,7 | 841,0 | 904,0 | 944,9 |
| Input power | kW | 67,3 | 77,4 | 85,0 | 98,1 | 112,4 | 125,3 | 139,1 | 157,0 | 177,4 | 192,3 | 215,2 | 231,2 | 250,7 | 269,1 | 289,6 | 308,2 | 327,5 |
| Cooling total input current | Α | 115,0 | 132,0 | 144,0 | 164,0 | 187,0 | 208,0 | 230,0 | 261,0 | 296,0 | 322,0 | 362,0 | 387,0 | 417,0 | 449,0 | 483,0 | 515,0 | 547,0 |
| EER | W/W | 3,12 | 3,12 | 3,11 | 3,00 | 2,91 | 3,02 | 3,11 | 3,12 | 3,05 | 3,11 | 3,01 | 3,02 | 2,93 | 2,97 | 2,90 | 2,93 | 2,89 |
| Water flow rate system side | l/h | 36053 | 41586 | 45538 | 50642 | 56185 | 64960 | 74341 | 84155 | 92932 | 102793 | 111352 | 120183 | 126344 | 137316 | 144576 | 155409 | 162455 |
| Pressure drop system side | kPa | 15 | 20 | 18 | 22 | 16 | 22 | 21 | 27 | 27 | 33 | 21 | 24 | 27 | 27 | 29 | 33 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | | |
| Heating capacity | kW | 223,4 | 258,1 | 283,7 | 316,7 | 349,3 | 403,2 | 458,7 | 520,7 | 571,9 | 634,1 | 683,9 | 741,3 | 784,2 | 848,2 | 895,3 | 960,1 | 1006,8 |
| Input power | kW | 69,3 | 80,5 | 87,9 | 98,5 | 109,0 | 126,1 | 143,1 | 162,7 | 177,1 | 198,2 | 211,7 | 230,0 | 244,9 | 264,9 | 279,5 | 299,5 | 315,3 |
| Heating total input current | Α | 122,0 | 140,0 | 153,0 | 170,0 | 188,0 | 216,0 | 244,0 | 278,0 | 305,0 | 341,0 | 367,0 | 396,0 | 420,0 | 456,0 | 482,0 | 517,0 | 544,0 |
| COP | W/W | 3,22 | 3,21 | 3,23 | 3,22 | 3,20 | 3,20 | 3,21 | 3,20 | 3,23 | 3,20 | 3,23 | 3,22 | 3,20 | 3,20 | 3,20 | 3,21 | 3,19 |
| Water flow rate system side | l/h | 38791 | 44787 | 49248 | 54989 | 60660 | 70010 | 79655 | 90422 | 99327 | 110122 | 118791 | 128748 | 136201 | 147319 | 155503 | 166760 | 174868 |
| Pressure drop system side | kPa | 17 | 23 | 20 | 25 | 19 | 25 | 24 | 31 | 31 | 38 | 23 | 27 | 31 | 30 | 33 | 38 | 41 |

ELECTRIC DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | | | |
| | 0 | Α | 168,6 | 185,0 | 209,8 | 239,2 | 268,5 | 297,5 | 326,5 | 423,4 | 487,6 | 516,6 | 570,9 | 548,6 | 581,4 | 630,9 | 671,8 | 712,7 | 753,6 |
| Maximum current (FLA) | A,L | А | 168,6 | 193,5 | 209,8 | 239,2 | 268,5 | 306,0 | 335,0 | 468,1 | 512,9 | 561,3 | 590,3 | 557,1 | 589,9 | 639,4 | 680,3 | 729,7 | 770,6 |
| | E | Α | 177,1 | 202,0 | 218,3 | 247,7 | 277,0 | 314,5 | 352,0 | 487,5 | 532,3 | 580,7 | 609,7 | 574,1 | 606,9 | 656,4 | 697,3 | 752,6 | 793,5 |
| | 0 | А | 357,2 | 412,4 | 437,2 | 489,9 | 519,2 | 631,7 | 660,7 | 757,6 | 821,8 | 850,8 | 905,1 | 817,9 | 850,7 | 900,2 | 941,1 | 982,0 | 1022,9 |
| Peak current (LRA) | A,L | Α | 357,2 | 420,9 | 437,2 | 489,9 | 519,2 | 640,2 | 669,2 | 802,3 | 847,1 | 895,5 | 924,5 | 826,4 | 859,2 | 908,7 | 949,6 | 999,0 | 1039,9 |
| | E | Α | 365,7 | 429,4 | 445,7 | 498,4 | 527,7 | 648,7 | 686,2 | 821,7 | 866,5 | 914,9 | 943,9 | 843,4 | 876,2 | 925,7 | 966,6 | 1021,9 | 1062,8 |

ENERGY INDICES (REG. 2016/2281 EU)

NRR H°

| NKR H. | | | | | | | | | | | | | | | | | | |
|---|-------------|----------|-------------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| UE 813/2013 performance in average ambient of | conditions | (average |) - 35 °C - | Pdesignl | 1 ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 203 | 224 | 260 | 289 | 325 | 346 | 296 | 343 | 379 | 425 | 462 | 495 | 539 | 571 | 600 | 651 | 680 |
| SCOP | W/W | 3,65 | 3,65 | 3,65 | 3,68 | 3,65 | 3,60 | 3,73 | 3,73 | 3,80 | 3,73 | 3,80 | 3,68 | 3,80 | 3,68 | 3,75 | 3,88 | 3,90 |
| ηsh | % | 143,00 | 143,00 | 143,00 | 144,00 | 143,00 | 141,00 | 146,00 | 143,00 | 149,00 | 146,00 | 149,00 | 144,00 | 149,00 | 144,00 | 147,00 | 152,00 | 153,00 |
| SEER - 12/7 (EN14825:2018) with standard fans | (2) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,79 | 3,66 | 3,88 | 3,81 | 3,91 | 3,80 | 3,89 | 3,92 | 3,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 148,40 | 143,50 | 152,20 | 149,50 | 153,20 | 149,10 | 152,70 | 153,80 | 149,00 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - 23/18 (EN14825: 2018) with standard far | ıs (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,67 | 4,76 | 4,64 | 4,70 | 4,66 | 4,56 | 4,66 | 4,65 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 183,90 | 187,30 | 182,40 | 184,90 | 183,40 | 179,30 | 183,40 | 182,80 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | s | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,88 | 5,02 | 5,07 | 4,92 | 4,96 | 4,96 | 4,92 | 4,96 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN14825: 2018) High temperature with | standard 1 | fans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,53 | 5,54 | 5,52 | 5,52 | 5,51 | 5,51 | 5,51 | 5,51 |
| SEPR - (EN14825: 2018) High temperature with | inverter fa | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,53 | 5,54 | 5,52 | 5,52 | 5,51 | 5,51 | 5,51 | 5,51 |
| | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C/7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C/45°C; Outside air 7°C d.b./6°C w.b.

⁽¹⁾ Efficiencies for low temperature applications (35 °C) (2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C (4) Calculation performed with FIXED water flow rate.

NRB HL

| Ci | | 0000 | 0000 | 1000 | 1100 | 1200 | 1400 | 1600 | 1005 | 3006 | 2206 | 2404 | 3600 | 2000 | 3000 | 2200 | 2400 | 3600 |
|---|-----------|-----------|-------------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| UE 813/2013 performance in average ambient co | nditions | (average) |) - 35 °C - | Pdesignl | 1 ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 197 | 235 | 258 | 286 | 314 | 370 | 306 | 353 | 385 | 433 | 464 | 509 | 538 | 586 | 617 | 666 | 697 |
| SCOP | W/W | 3,73 | 3,75 | 3,75 | 3,68 | 3,68 | 3,73 | 3,93 | 3,83 | 3,95 | 3,83 | 3,93 | 3,88 | 3,88 | 3,75 | 3,85 | 3,95 | 3,98 |
| ηsh | % | 146,00 | 147,00 | 147,00 | 144,00 | 144,00 | 146,00 | 154,00 | 150,00 | 155,00 | 150,00 | 154,00 | 152,00 | 152,00 | 147,00 | 151,00 | 155,00 | 156,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (2 | 2) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,83 | 4,01 | 3,92 | 3,90 | 3,82 | 4,05 | 3,99 | 4,04 | 3,87 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 150,30 | 157,20 | 153,90 | 149,60 | 159,00 | 156,40 | 156,60 | 158,60 | 151,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - 23/18 (EN14825: 2018) with standard fans | (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,72 | 4,67 | 4,79 | 4,63 | 4,73 | 4,67 | 4,75 | 4,70 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,70 | 183,60 | 188,70 | 182,30 | 186,30 | 183,60 | 187,00 | 185,00 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 5,08 | 5,11 | 5,10 | 4,95 | 5,04 | 4,96 | 5,09 | 5,02 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN14825: 2018) High temperature with st | andard f | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,51 | 5,51 | 5,53 | 5,51 | 5,52 | 5,52 | 5,51 | 5,51 |
| SEPR - (EN14825: 2018) High temperature with in | verter fa | ıns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,51 | 5,51 | 5,53 | 5,51 | 5,52 | 5,52 | 5,51 | 5,51 |
| | | | | | | | | | | | | | | | | | | |

NRB HA

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|------------|---------|----------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| UE 813/2013 performance in average ambient cond | ditions (a | verage) | - 55 ℃ - | Pdesignl | 1 ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 196 | 233 | 255 | 284 | 312 | 367 | 304 | 351 | 384 | 430 | 462 | 506 | 535 | 582 | 614 | 662 | 693 |
| SCOP | W/W | 3,03 | 3,08 | 3,03 | 3,08 | 3,03 | 3,10 | 3,13 | 3,08 | 3,30 | 3,08 | 3,15 | 3,08 | 3,13 | 3,03 | 3,20 | 3,20 | 3,15 |
| ηsh | % | 118,00 | 120,00 | 118,00 | 120,00 | 118,00 | 121,00 | 122,00 | 120,00 | 129,00 | 120,00 | 123,00 | 120,00 | 122,00 | 118,00 | 125,00 | 125,00 | 123,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (2) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | 3,96 | 4,13 | 4,09 | 4,09 | 4,07 | 4,23 | 4,22 | 4,22 | 4,10 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 155,40 | 162,10 | 160,40 | 160,60 | 159,70 | 166,10 | 165,60 | 165,80 | 161,0 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - (EN14825:2018) 12/7 with inverter fans (2) SEER W/W 4,58 4,57 4,60 4,55 4,60 4,56 4,60 4,56 | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,58 | 4,57 | 4,60 | 4,55 | 4,60 | 4,56 | 4,60 | 4,56 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 180,3% | 179,6% | 180,8% | 179,1% | 180,8% | 179,2% | 181,0% | 179,2% |
| SEER - 23/18 (EN14825: 2018) with standard fans (| 4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,96 | 5,01 | 5,02 | 4,84 | 4,92 | 4,87 | 4,95 | 4,94 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 195,30 | 197,40 | 197,80 | 190,50 | 193,90 | 191,80 | 195,00 | 194,60 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,58 | 4,57 | 4,60 | 4,55 | 4,60 | 4,54 | 4,60 | 4,56 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN14825: 2018) High temperature with sta | ndard fa | ns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,52 | 5,51 | 5,55 | 5,52 | 5,51 | 5,51 | 5,52 |
| SEPR - (EN14825: 2018) High temperature with inv | erter fan | ıs (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,52 | 5,51 | 5,55 | 5,52 | 5,51 | 5,51 | 5,52 |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

⁽¹⁾ Efficiencies for average temperature applications (55 °C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C/7°C
(4) Calculation performed with FIXED water flow rate.

NRB HE

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|-----------|----------|-----------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| UE 813/2013 performance in average ambient con | ditions (| average) | - 55 °C - | Pdesignl | 1 ≤ 400 k | W (1) | | | | | | | | | | | | |
| Pdesignh | kW | 204 | 236 | 259 | 290 | 320 | 369 | 318 | 361 | 397 | 440 | 474 | 514 | 544 | 588 | 621 | 666 | 698 |
| SCOP | W/W | 3,05 | 3,08 | 3,05 | 3,10 | 3,03 | 3,08 | 3,13 | 3,05 | 3,30 | 3,08 | 3,15 | 3,08 | 3,13 | 3,03 | 3,20 | 3,20 | 3,13 |
| ηsh | % | 119,00 | 120,00 | 119,00 | 121,00 | 118,00 | 120,00 | 122,00 | 119,00 | 129,00 | 120,00 | 123,00 | 120,00 | 122,00 | 118,00 | 125,00 | 125,00 | 122,00 |
| SEER - 12/7 (EN14825:2018) with standard fans (2 |) | | | | | | | | | | | | | | | | | |
| SEER | W/W | 4,16 | 4,15 | 4,18 | 4,19 | 4,16 | 4,27 | 4,39 | 4,36 | 4,22 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| Seasonal efficiency | % | 163,40 | 163,00 | 164,10 | 164,70 | 163,40 | 167,90 | 172,70 | 171,40 | 165,80 | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) | - (3) |
| SEER - (EN14825:2018) 12/7 with inverter fans (2) | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,71 | 4,67 | 4,74 | 4,66 | 4,69 | 4,62 | 4,71 | 4,66 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 185,4% | 183,7% | 186,6% | 183,4% | 184,6% | 181,9% | 185,4% | 183,4% |
| SEER - 23/18 (EN14825: 2018) with standard fans | (4) | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 5,17 | 5,20 | 5,16 | 5,01 | 5,04 | 4,99 | 5,03 | 5,03 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | 203,60 | 204,90 | 203,20 | 197,20 | 198,60 | 196,50 | 198,10 | 198,10 |
| SEER - 23/18 (EN14825: 2018) with inverter fans | | | | | | | | | | | | | | | | | | |
| SEER | W/W | - | - | - | - | - | - | - | - | - | 4,71 | 4,67 | 4,74 | 4,66 | 4,69 | 4,62 | 4,71 | 4,66 |
| Seasonal efficiency | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEPR - (EN14825: 2018) High temperature with sta | ndard fa | ans (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |
| SEPR - (EN14825: 2018) High temperature with inv | erter fa | ns (4) | | | | | | | | | | | | | | | | |
| SEPR | W/W | - | - | - | - | - | - | - | - | - | 5,52 | 5,54 | 5,57 | 5,52 | 5,54 | 5,58 | 5,56 | 5,55 |

GENERAL TECHNICAL DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|----------------------------|------------------|------|------|------|------|------|------|------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | °,A,E,L | Туре | | | | | | | | | 0n-0ff | | | | | | | | |
| Number | °,A,E,L | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | °,A,E,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Defrimenant | °,A,L | type | | | | | | | | | R410A | | | | | | | | |
| Refrigerant | E | type | | | | | | | | | | | | | | | | | |
| | 0 | kg | 41,0 | 42,0 | 55,0 | 56,0 | 56,0 | 58,0 | 58,0 | 84,0 | 84,0 | 100,0 | 100,0 | 113,0 | 116,0 | 138,0 | 138,0 | 138,0 | 143,0 |
| Refrigerant charge (1) | A,L | kg | 43,0 | 56,0 | 58,0 | 58,0 | 60,0 | 84,0 | 87,0 | 100,0 | 103,0 | 116,0 | 125,0 | 138,0 | 138,0 | 166,0 | 166,0 | 183,0 | 183,0 |
| | E | kg | 56,0 | 80,0 | 82,0 | 82,0 | 84,0 | 97,0 | 113,0 | 137,0 | 140,0 | 153,0 | 162,0 | 175,0 | 175,0 | 203,0 | 203,0 | 220,0 | 220,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | Sh | nell and tu | be | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E,L | Туре | | | | | | | | Gı | rooved joir | nts | | | | | | | |
| Hydraulic connections with | out hydronic kit | | | | | | | | | | | | | | | | | | |
| Cines (in laut) | 0 | Ø | 5" | 5" | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Sizes (in/out) | A,E,L | Ø | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Hydraulic connections with | hydronic kit | | | | | | | | | | | | | | | | | | |
| | 0 | Ø | - | - | 3" | 3" | 3" | - | - | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Sizes (in/out) | A,L | Ø | - | 3" | - | - | - | 3″ | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| | E | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

Water filter not supplied. Installation is mandatory or the guarantee will void.

⁽¹⁾ Efficiencies for average temperature applications (55°C)
(2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(3) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(4) Calculation performed with FIXED water flow rate.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------------------------|-------------|-------|-------|--------|--------|--------|--------|--------|--------|----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L | type | | | | | | | | | Axial | | | | | | | | |
| Fan master | °,A | type | | | | | | | | A | synchrono | us | | | | | | | |
| Fan motor | E,L | type | | | | | | | | Asynchro | nous with | phase cut | | | | | | | |
| | 0 | no. | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 |
| Number | A,L | no. | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 |
| | E | no. | 6 | 8 | 8 | 8 | 8 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 |
| | 0 | m³/h | 80000 | 80000 | 120000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 | 240000 | 240000 | 280000 | 280000 | 280000 | 280000 |
| Air flow rate | Α | m³/h | 80000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 | 240000 | 240000 | 280000 | 280000 | 320000 | 320000 | 360000 | 360000 |
| All flow fale | E | m³/h | 90000 | 120000 | 120000 | 120000 | 120000 | 150000 | 180000 | 210000 | 210000 | 240000 | 240000 | 270000 | 270000 | 300000 | 300000 | 330000 | 330000 |
| | L | m³/h | 60000 | 90000 | 90000 | 90000 | 90000 | 120000 | 120000 | 150000 | 150000 | 180000 | 180000 | 210000 | 210000 | 240000 | 240000 | 270000 | 270000 |
| Sound data calculated in coolin | ng mode (1) | | | | | | | | | | | | | | | | | | |
| | ٥ | dB(A) | 89,5 | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 95,9 | 95,9 |
| Cound namer lavel | Α | dB(A) | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 | 95,1 | 95,1 | 95,9 | 95,9 | 96,6 | 96,6 | 97,2 | 97,2 |
| Sound power level | E | dB(A) | 84,6 | 86,1 | 86,1 | 86,1 | 86,1 | 87,2 | 88,2 | 89,4 | 89,9 | 91,1 | 91,6 | 92,2 | 92,2 | 92,7 | 92,7 | 93,2 | 93,2 |
| | L | dB(A) | 82,6 | 84,6 | 84,6 | 84,6 | 84,6 | 86,1 | 86,1 | 87,7 | 88,2 | 89,6 | 90,1 | 90,9 | 90,9 | 91,6 | 91,6 | 92,1 | 92,1 |
| | 0 | dB(A) | 57,4 | 57,4 | 59,3 | 59,3 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,7 | 61,7 | 62,5 | 62,5 | 63,2 | 63,2 | 63,2 | 63,2 |
| Cound processes lovel (10 m) | Α | dB(A) | 57,4 | 59,3 | 59,3 | 59,3 | 59,3 | 60,7 | 60,7 | 61,6 | 61,6 | 62,5 | 62,5 | 63,2 | 63,2 | 63,7 | 63,7 | 64,2 | 64,2 |
| Sound pressure level (10 m) | E | dB(A) | 52,4 | 53,7 | 53,7 | 53,7 | 53,7 | 54,7 | 55,5 | 56,7 | 57,2 | 58,2 | 58,7 | 59,2 | 59,2 | 59,6 | 59,6 | 60,0 | 60,0 |
| | L | dB(A) | 50,5 | 52,4 | 52,4 | 52,4 | 52,4 | 53,8 | 53,8 | 55,2 | 55,7 | 57,0 | 57,5 | 58,2 | 58,2 | 58,7 | 58,7 | 59,1 | 59,1 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

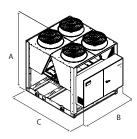
DIMENSIONS

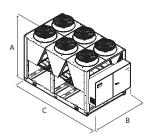
NRB 0800 - 0900 ° NRB 0800 L/A

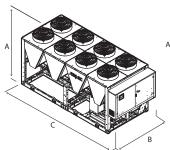
NRB 1000 - 1600 ° NRB 0900 - 1200 L/A NRB 0800 E

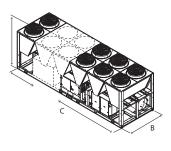
NRB 1805 - 2006 ° NRB 1400 - 1600 L/A NRB 0900 - 1200 E

NRB 2206 - 3600 ° NRB 1805 - 3600 L/A NRB 1400 - 3600 E









| Size | | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|--------------------|---------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weight | s without hydronic | ckit | | | | | | | | | | | | | | | | | | |
| A | | °,A,E,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | | °,A,E,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | 0 | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 3970 | 5160 | 5160 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 |
| C | _ | A,L | mm | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 4760 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 |
| | _ | E | mm | 3970 | 4760 | 4760 | 4760 | 4760 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 11900 | 13090 | 13090 |
| Dimensions and weight | s with pump/s | | | | | | | | | | | | | | | | | | | |
| | | 0 | mm | - | - | 2450 | 2450 | 2450 | - | - | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | _ | A,L | mm | - | 2450 | - | - | - | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| | _ | E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| | | 0 | mm | - | - | 2200 | 2200 | 2200 | - | - | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | _ | A,L | mm | - | 2200 | - | - | - | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | 0 | mm | - | - | 3970 | 3970 | 3970 | - | - | 5160 | 5160 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 |
| (| | A,L | mm | - | 3970 | - | - | - | 4760 | 4760 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 |
| | | E | mm | 3970 | 4760 | 4760 | 4760 | 4760 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 11900 | 13090 | 13090 |
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 180 | 5 20 | 06 2 | 206 2 | 406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Integrated hydro | onic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | | | | | |
| | 0 | kg | 2670 | 2730 | 3310 | 3360 | 3400 | 3460 | 3490 | 435 | 0 45 | 20 5 | 190 5 | 5230 | 5840 | 6130 | 7040 | 7120 | 7220 | 7320 |
| Empty weight | A,L | kg | 2700 | 3280 | 3350 | 3390 | 3470 | 4120 | 4240 | 498 | 0 51 | 90 5 | 690 6 | 5030 | 6710 | 6960 | 7590 | 7670 | 8340 | 8420 |
| . , , | E | kg | 3230 | 3920 | 3990 | 4020 | 4100 | 4660 | 5220 | 606 | 0 62 | 80 6 | 810 7 | 7100 | 7720 | 7970 | 8550 | 8630 | 9310 | 9390 |
| | | | | | | | | | | | | | | | | | | | | |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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CL 025-200

Air-water chiller

Cooling capacity 5,8 ÷ 41 kW



- Standard version
- Version with Integrated hydronic kit system side
- · Fan Plug-fan





DESCRIPTION

Chillers for indoor installation for chilled water production with scroll compressors, plugfan fans, external copper coils with aluminum louvers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

P With pump

FEATURES

Operating field

Operation at full load up to 46°C external air temperature. Unit can produce chilled water up to -10°C .

EC fan plug-fan

The units are equipped with plug-fans and inverter motors coupled directly with the fan, with the electronic condensation control as standard, which adjusts the air flow according to the actual system requirements, with benefits in terms of consumption and noise reduction.

In addition, compared to conventional centrifugal fans, they do not feature belt and pulley transmission, resulting in easy flow adjustment, compactness, versatility, easy maintenance and no vibrations.

Air supply

Horizontal or vertical, adjustable during installation for all sizes. Directional air discharge hood:

- plastic for sizes 050 to 090
- galvanised steel for the other sizes

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to save money and to facilitate installation.

Hot water production

In the configuration with desuperheater, it is also possible to produce free-hot water.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications. The regulation using an outside air temperature sensor allows a dy-

The regulation using an outside air temperature sensor allows a dynamic control of the water temperature produced by increasing the energy efficiency of the system.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VT: Antivibration supports

CLPA: Galvanised steel plenum to be installed on the condenser coil, facilitates duct installations.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

KR: Anti-freeze electric heater for the plate heat exchanger.

GPCL: Protection grille for the source side exchange coil.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| AERLINK | °,A,P | • | • | • | • | • | • | • | • |
| AERSET | °,A,P | • | • | • | • | • | • | • | • |
| MODU-485BL | °,A,P | | • | • | • | • | | | • |
| MULTICONTROL | °,A,P | • | • | • | • | • | • | • | • |
| PR3 | °,A,P | • | • | • | • | • | • | • | • |
| SPLW (1) | °,A,P | • | | | | | • | | |

 $(1) \ \ Probe\ required\ for\ MULTICONTROL\ to\ manage\ the\ secondary\ circuit\ system.$

Antivibration

| _ | | | | | | | | | |
|---|-----|-------|-------|-------|-------|-------|------|------|------|
| | Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
| | °,P | VT9 | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 |
| | A | VT15A | VT15A | VT15A | VT15A | VT15A | VT15 | VT15 | VT15 |

Galvanised steel plenum

| Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|-------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| °,A,P | CLPA1 (1) | CLPA1 (1) | CLPA2 (2) | CLPA2 (2) | CLPA2 (2) | CLPA3 | CLPA3 | CLPA3 |

⁽¹⁾ Not compatible with the GPCL1 accessory(2) Not compatible with the GPCL2 accessory

Device for peak current reduction

| Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|-------|----------|----------|----------|----------|----------|--------------|--------------|--------------|
| °,A,P | DRE5 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Antifreeze electric heater

| Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| °,A,P | KR2 | KR2 | KR2 | KR2 | KR2 | KR100 | KR100 | KR100 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,A,P | GPCL1 | GPCL1 | GPCL2 | GPCL2 | GPCL2 | GPCL3 | GPCL3 | GPCL3 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

CONFIGURATOR

| Field | Description |
|-------|---|
| 1,2 | α |
| 3,4,5 | Size |
| 3,4,3 | 025, 030, 050, 070, 090, 100, 150, 200 |
| 6 | Model |
| 0 | Cooling only |
| 7 | Execution |
| 0 | Standard |
| 8 | Version |
| 0 | Standard |
| Α | With storage tank and pump |
| P | With pump |
| 9 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (1) |
| 10 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Operating field |
| 0 | Standard mechanic thermostatic valve (2) |
| Υ | Low temperature mechanic thermostatic valve (3) |
| Z | Low temperature electronic thermostatic valve (4) |
| 12 | Evaporator |
| 0 | Standard |
| C | Motocondensing unit |
| 13 | Power supply |
| 0 | 400V ~ 3N 50Hz with magnet circuit breakers (5) |
| М | 230V ~ 3 50Hz (6) |

⁽¹⁾ It is only available in size CL 050 ÷ 200; If the unit is also fitted with one of the low temperature valves in addition to the desuperheater, it is necessary to always guarantee a water temperature of 35°C at the inlet of the desuperheater.

(2) Water produced from 4°C ÷ 18°C

- (3) Water produced from 0 °C ÷ − 10 °C (4) Water produced from 0 °C ÷ 4 °C (5) Only for CL 025 ÷ 200 sizes (6) Only for CL 025 ÷ 030 sizes

PERFORMANCE SPECIFICATIONS

CL °- (version °) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|--------------------------------------|-----|------|------|------|------|------|------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 5,8 | 7,1 | 12,7 | 16,3 | 20,2 | 26,3 | 33,0 | 40,6 |
| Input power | kW | 2,2 | 2,6 | 4,3 | 5,5 | 6,8 | 8,8 | 11,3 | 14,4 |
| Cooling total input current - 400V | А | 4,8 | 5,1 | 8,4 | 10,0 | 13,0 | 17,0 | 19,0 | 25,0 |
| Cooling total input current - 230V | A | 10,0 | 13,0 | - | - | - | - | - | - |
| EER | W/W | 2,70 | 2,72 | 2,98 | 3,00 | 2,98 | 2,99 | 2,91 | 2,82 |
| Water flow rate system side | l/h | 1008 | 1233 | 2189 | 2817 | 3484 | 4533 | 5695 | 7001 |
| Pressure drop system side | kPa | 19 | 26 | 27 | 29 | 29 | 45 | 53 | 72 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

CL ° - (versions A/P) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|------------------------------------|-----|------|------|------|------|------|------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 5,9 | 7,2 | 12,8 | 16,5 | 20,4 | 26,5 | 33,4 | 41,0 |
| Input power | kW | 2,1 | 2,6 | 4,2 | 5,4 | 6,8 | 8,9 | 11,6 | 14,6 |
| Cooling total input current - 400V | A | 5,1 | 5,4 | 9,0 | 11,0 | 13,0 | 18,0 | 21,0 | 27,0 |
| Cooling total input current - 230V | A | 11,0 | 14,0 | - | - | - | - | - | - |
| EER | W/W | 2,76 | 2,78 | 3,02 | 3,04 | 3,02 | 2,97 | 2,87 | 2,81 |
| Water flow rate system side | l/h | 1008 | 1233 | 2189 | 2817 | 3484 | 4533 | 5695 | 7001 |
| Useful head system side | kPa | 71,0 | 62,0 | 73,0 | 66,0 | 58,0 | 83,0 | 131,0 | 122,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY DATA

| Size | | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|----------------------------------|-----------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825:2018) with | standard fans (1) | | | | | | | | | |
| CLLD | 0 | W/W | 4,11 | 4,11 | 4,10 | 4,11 | 4,12 | 4,38 | 4,32 | 4,10 |
| SEER | A,P | W/W | 4,22 | 4,22 | 4,17 | 4,21 | 4,22 | 4,21 | 4,13 | 4,12 |
| Cassanal afficiency | 0 | % | 161,3% | 161,4% | 161,1% | 161,3% | 161,8% | 172,0% | 169,7% | 161,0% |
| Seasonal efficiency | A,P | % | 165,7% | 165,7% | 163,8% | 165,2% | 165,6% | 165,5% | 162,3% | 161,8% |
| SEER - 23/18 (EN14825: 2018) wit | th standard fans (2) | | | | | | | | | |
| SEER | ٥ | W/W | 4,72 | 4,47 | 4,50 | 4,44 | 4,52 | 5,13 | 4,99 | 4,51 |
| DEEK | A,P | W/W | 4,86 | 4,62 | 4,64 | 4,58 | 4,72 | 4,90 | 4,65 | 4,36 |
| Cassanal afficiency | 0 | % | 185,9% | 175,9% | 176,8% | 174,7% | 177,7% | 202,2% | 196,6% | 177,2% |
| Seasonal efficiency | A,P | % | 191,2% | 181,7% | 182,6% | 180,0% | 185,7% | 193,1% | 183,0% | 171,5% |
| SEPR - (EN14825: 2018) High tem | perature with standar | d fans (2) | | | | | | | | |
| CEDD | 0 | W/W | 5,38 | 5,10 | 5,10 | 5,03 | 5,04 | 5,67 | 5,59 | 5,30 |
| SEPR | A,P | W/W | 5,49 | 5,21 | 5,18 | 5,13 | 5,16 | 5,56 | 5,37 | 5,20 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| EEECTIME DAMA | | | | | | | | | | |
|------------------------|-----|---|------|------|------|------|-------|------|------|-------|
| Size | | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
| Power supply: ° | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Maniana A (FLA) | 0 | A | 11,0 | 11,6 | 13,6 | 15,4 | 20,4 | 27,4 | 30,8 | 40,8 |
| Maximum current (FLA) | A,P | A | 11,4 | 12,0 | 14,4 | 16,1 | 21,1 | 29,3 | 33,8 | 43,8 |
| DI | 0 | А | 44,6 | 40,6 | 77,2 | 77,2 | 105,2 | 90,9 | 92,6 | 125,6 |
| Peak current (LRA) | A,P | А | 45,0 | 41,0 | 77,9 | 77,9 | 105,9 | 92,8 | 95,6 | 128,6 |
| Size | | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
| Power supply: M | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Manianana anno 4 (FLA) | 0 | A | 22,0 | 25,0 | - | - | - | - | - | - |
| Maximum current (FLA) | A,P | A | 22,6 | 25,6 | - | - | - | - | - | - |
| Peak current (LRA) | 0 | A | 67,0 | 88,0 | - | - | - | - | - | - |
| | A,P | A | 67,6 | 88,6 | - | - | - | - | - | - |

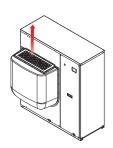
GENERAL TECHNICAL DATA

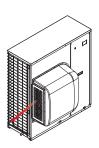
| Size | | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|---|-------|-------|------|------|------|-------|---------|-------|-------|-------|
| Compressor | | | | | | | | | | |
| Туре | °,A,P | type | | | | Sc | roll | | | |
| Compressor regulation | °,A,P | Туре | | | | 0n | -off | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,A,P | type | | | | R4 | 10A | | | |
| Refrigerant charge (1) | °,A,P | kg | 1,5 | 2,7 | 4,0 | 4,0 | 4,0 | 5,5 | 7,5 | 7,5 |
| System side heat exchanger | | | | | | | | | | |
| Туре | °,A,P | type | | | | Braze | d plate | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | |
| Connections (in/out) | °,A,P | Туре | | | | Gas | s - F | | | |
| Size (in) | °,A,P | Ø | | | | 1 | 1/4 | | | |
| Size (out) | °,A,P | Ø | | | | 1 | 1/4 | | | |
| Fan | | | | | | | | | | |
| Туре | °,A,P | type | | | | Plug | j-fan | | | |
| Fan motor | °,A,P | type | | | | Inve | erter | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Air flow rate | °,A,P | m³/h | 4000 | 4000 | 6500 | 6500 | 7500 | 10000 | 12000 | 12000 |
| High static pressure | °,A,P | Pa | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Intake plus machine body | | | | | | | | | | |
| Sound power level | °,A,P | dB(A) | 78,0 | 78,0 | 73,0 | 73,0 | 76,0 | 74,0 | 79,0 | 79,0 |
| Sound pressure level in cooling mode (10 m) | °,A,P | dB(A) | 46,0 | 46,0 | 41,0 | 41,0 | 44,0 | 42,0 | 47,0 | 47,0 |
| Machine exhaust | | | | | | | | | | |
| Sound power level | °,A,P | dB(A) | 78,0 | 78,0 | 78,0 | 78,0 | 81,0 | 78,0 | 83,0 | 83,0 |
| Sound pressure level in cooling mode (10 m) | °,A,P | dB(A) | 46,0 | 46,0 | 46,0 | 46,0 | 49,0 | 47,0 | 52,0 | 52,0 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

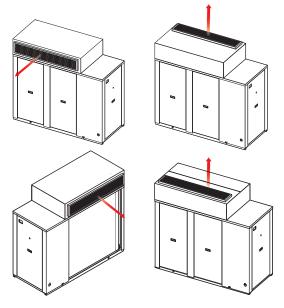
DISCHARGE HOOD POSSIBLE CONFIGURATIONS

CL 025 ÷ 090





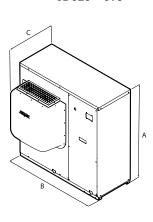
CL 100 ÷ 200



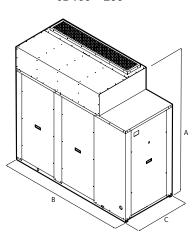
- Air supply Horizontal or vertical, adjustable during installation for all sizes. Directional air discharge hood:
- plastic for sizes 050 to 090— galvanised steel for the other sizes

DIMENSIONS

CL 025 ÷ 090



CL 100 ÷ 200



| Size | | | 025 | 030 | 050 | 070 | 090 | 100 | 150 | 200 |
|------------------------|-------|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | °,A,P | mm | 1028 | 1281 | 1281 | 1281 | 1281 | 1674 | 1674 | 1674 |
| D | °,P | mm | 1005 | 1006 | 1160 | 1160 | 1160 | 1897 | 1897 | 1897 |
| D | A | mm | 1366 | 1458 | 1610 | 1610 | 1610 | 1897 | 1897 | 1897 |
| C | °,A,P | mm | 702 | 754 | 798 | 798 | 798 | 801 | 801 | 801 |
| | ٥ | kg | 127 | 160 | 208 | 210 | 212 | 469 | 471 | 475 |
| Empty weight | A | kg | 157 | 201 | 252 | 260 | 256 | 532 | 537 | 542 |
| | Р | kg | 133 | 166 | 217 | 225 | 221 | 482 | 487 | 492 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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CL 025H-200H

Reversible air/water heat pump

Cooling capacity 6,5 ÷ 50,9 kW Heating capacity 7,7 ÷ 44,8 kW



- Cooling / heating / high-temperature water production even for DHW production.
- Water produced up to 60 °C
- Heating operations with external temperatures down to -15 °C
- Fan Plug-fan







DESCRIPTION

Reversible air/water heat pump for air conditioning systems with cold water production for cooling rooms and hot water for heating and/or domestic hot water services, suitable for connection with small or medium users.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A With storage tank and pump

P With pump

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 46 °C in summer. Hot water production up to 60 °C.

EC fan plug-fan

The units are equipped with plug-fans and inverter motors coupled directly with the fan, with the electronic condensation control as standard, which adjusts the air flow according to the actual system requirements, with benefits in terms of consumption and noise reduction.

In addition, compared to conventional centrifugal fans, they do not feature belt and pulley transmission, resulting in easy flow adjustment, compactness, versatility, easy maintenance and no vibrations.

Air supply

Horizontal or vertical, adjustable during installation for all sizes. Directional air discharge hood:

- plastic for sizes 050 to 090
- galvanised steel for the other sizes

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to save money and to facilitate installation.

Hot water production

Special attention has been paid to winter operation: compared with traditional heat pumps, the operating limits have been extended thanks to particular technological expedients.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications. The regulation using an outside air temperature sensor allows a dy-

The regulation using an outside air temperature sensor allows a dynamic control of the water temperature produced by increasing the energy efficiency of the system.

ACCESSORIES

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SDHW: Domestic hot water sensor. To be used with a storage tank for the control of water temperature produced.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of

a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

VT: Antivibration supports

BSKW: Electric heaters kit with IP44 panel for remote mounting in a sheltered area.

CLPA: Galvanised steel plenum to be installed on the condenser coil, facilitates duct installations.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

KRB: -

GPCL: Protection grille for the source side exchange coil.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AERLINK | °,A,P | • | • | • | • | • | • | • | • | • | • |
| AERSET | °,A,P | • | • | • | • | • | | • | | • | • |
| MODU-485BL | °,A,P | • | • | • | • | • | • | • | • | • | • |
| MULTICONTROL | °,A,P | • | • | • | | • | | • | | | • |
| PR3 | °,A,P | • | • | • | • | • | • | • | • | • | • |
| SDHW (1) | °,A,P | • | • | | | • | | • | | | • |
| SPLW (2) | °,A,P | • | | | • | • | • | • | • | • | • |

⁽¹⁾ Probe required for MULTICONTROL for managing the domestic hot water system.
(2) Probe required for MULTICONTROL to manage the secondary circuit system.

Antivibration

| Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| °,P | VT9 | VT15 | VT15 | VT15 |
| A | VT15A | VT15 | VT15 | VT15 |

BSKW: Electric heater kit

| DOMINI Elective licuter kit | | | | | | | | | | |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
| Power supply: ° | | | | | | | | | | |
| ◊ ۸ D | BS6KW400T, |
| °,A,P | BS9KW400T |
| Power supply: M | | | | | | | | | | |
| 0 A D | BS4KW230M, | BS4KW230M, | BS4KW230M, | | | | | | | _ |
| °,A,P | BS6KW230M | BS6KW230M | BS6KW230M | - | - | - | - | - | - | - |

Galvanised steel plenum

| Garran | isea steel pielialli | | | | | | | | | | |
|--------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|-------|
| | Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
| | °,A,P | CLPA1 (1) | CLPA1 (1) | CLPA2 (2) | CLPA3 | CLPA3 | CLPA3 |

⁽¹⁾ Not compatible with the GPCL1 accessory(2) Not compatible with the GPCL2 accessory

Device for peak current reduction

| Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-----------------|----------|----------|----------|----------|----------|----------|----------|--------------|--------------|--------------|
| Power supply: ° | | | | | | | | | | |
| °,A,P | DRE5 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) | DRE5 x 2 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

Electric Heater for the Base

| Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| °,A,P | KRB4 (1) | KRB4 (1) | KRB5 (1) | KRB6 (1) | KRB6 (1) | KRB6 (1) |

⁽¹⁾ Incompatible with the condensate collection basin accessory with integrated resistance. A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,A,P | GPCL1 | GPCL1 | GPCL2 | GPCL2 | GPCL2 | GPCL2 | GPCL2 | GPCL3 | GPCL3 | GPCL3 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

[■] MODU-485BL = Accessory mandatory for the production of domestic hot water

A grey background indicates the accessory must be assembled in the factory

507

CONFIGURATOR

| CONTIGOR | |
|----------|--|
| Field | Description |
| 1,2 | CL |
| 3,4,5 | Size 025, 030, 040, 050, 070, 080, 090, 100, 150, 200 |
| 6 | Model |
| Н | Heat pump |
| 7 | Execution |
| 0 | Standard |
| 8 | Version |
| 0 | Standard |
| Α | With storage tank and pump (1) |
| Р | With pump |
| 9 | Heat recovery |
| 0 | Without heat recovery |
| 10 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Operating field |
| 0 | Standard mechanic thermostatic valve (2) |
| Υ | Low temperature mechanic thermostatic valve (3) |
| Z | Low temperature electronic thermostatic valve (4) |
| 12 | Evaporator |
| 0 | Standard |
| 13 | Power supply |
| 0 | 400V 3N ~ 50Hz (5) |
| M | 230V ~ 50Hz (6) |
| | |

 ⁽¹⁾ The version with integrated storage tank is not suitable for the production of domestic hot water (DHW).
 (2) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 0 °C ÷ -10 °C

$CL - (H^{\circ}) - (400V 3N \sim 50Hz / 230V \sim 50Hz)$

| Size | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 6,4 | 8,4 | 10,4 | 11,9 | 14,0 | 15,5 | 19,0 | 23,9 | 31,3 | 37,6 |
| Input power | kW | 2,6 | 3,1 | 3,8 | 4,2 | 4,8 | 5,6 | 6,8 | 8,2 | 10,9 | 14,4 |
| Cooling total input current - 400V | A | 5,5 | 6,3 | 6,6 | 7,5 | 8,3 | 9,6 | 13,0 | 14,0 | 21,0 | 26,0 |
| Cooling total input current - 230V | A | 13,0 | 15,0 | 16,0 | - | - | - | - | - | - | - |
| EER | W/W | 2,44 | 2,73 | 2,74 | 2,87 | 2,90 | 2,77 | 2,81 | 2,93 | 2,86 | 2,61 |
| Water flow rate system side | l/h | 1104 | 1441 | 1785 | 2054 | 2411 | 2676 | 3272 | 4122 | 5388 | 6477 |
| Pressure drop system side | kPa | 13 | 12 | 13 | 11 | 15 | 26 | 26 | 34 | 22 | 43 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 7,9 | 9,8 | 12,5 | 14,4 | 15,9 | 18,6 | 21,0 | 27,8 | 34,8 | 43,8 |
| Input power | kW | 2,3 | 2,9 | 3,7 | 4,1 | 4,7 | 5,5 | 6,5 | 8,1 | 10,6 | 14,4 |
| Heating total input current - 400V | Α | 5,5 | 6,2 | 6,4 | 7,5 | 8,1 | 9,2 | 13,0 | 14,0 | 19,0 | 26,0 |
| Heating total input current - 230V | A | 12,0 | 14,0 | 15,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,41 | 3,32 | 3,40 | 3,52 | 3,36 | 3,40 | 3,20 | 3,44 | 3,27 | 3,03 |
| Water flow rate system side | l/h | 1368 | 1693 | 2164 | 2502 | 2756 | 3214 | 3634 | 4822 | 6034 | 7581 |
| Pressure drop system side | kPa | 19 | 16 | 18 | 17 | 21 | 32 | 34 | 49 | 30 | 42 |

⁽⁴⁾ Water produced from 0 °C \div 4 °C (5) Only for CL 025 \div 200 sizes (6) Only for CL 025 \div 040 sizes

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

⁽¹⁾ Data EN 14511:2022; Beat exchanger water (services side) 12°C/7°C; outside air 35°C
(2) Data EN 14511:2022; System side water heat exchanger 40 °C/45°C; Outside air 7°C d.b./6°C w.b.

CL - (HP/HA) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 6,5 | 8,4 | 10,5 | 12,0 | 14,1 | 15,7 | 19,1 | 24,2 | 31,6 | 38,0 |
| Input power | kW | 2,6 | 3,0 | 3,7 | 4,2 | 4,8 | 5,6 | 6,7 | 8,3 | 11,3 | 14,7 |
| Cooling total input current - 400V | А | 5,8 | 6,7 | 7,0 | 8,1 | 8,9 | 10,0 | 14,0 | 15,0 | 23,0 | 28,0 |
| Cooling total input current - 230V | A | 13,0 | 16,0 | 16,0 | - | - | - | - | - | - | - |
| EER | W/W | 2,49 | 2,79 | 2,79 | 2,90 | 2,94 | 2,82 | 2,85 | 2,91 | 2,81 | 2,58 |
| Water flow rate system side | l/h | 1104 | 1441 | 1785 | 2054 | 2411 | 2676 | 3272 | 4122 | 5388 | 6477 |
| Useful head system side | kPa | 76,0 | 75,0 | 69,0 | 92,0 | 86,0 | 80,0 | 64,0 | 99,0 | 158,0 | 145,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 7,8 | 9,7 | 12,4 | 14,3 | 15,8 | 18,4 | 20,8 | 27,6 | 34,5 | 43,4 |
| Input power | kW | 2,3 | 2,9 | 3,6 | 4,1 | 4,7 | 5,4 | 6,5 | 8,2 | 11,0 | 14,8 |
| Heating total input current - 400V | A | 5,9 | 6,6 | 6,8 | 8,1 | 8,7 | 9,9 | 13,0 | 15,0 | 21,0 | 28,0 |
| Heating total input current - 230V | Α | 12,0 | 15,0 | 16,0 | - | - | - | - | - | - | - |
| COP | W/W | 3,42 | 3,34 | 3,42 | 3,50 | 3,35 | 3,40 | 3,21 | 3,35 | 3,14 | 2,92 |
| Water flow rate system side | l/h | 1368 | 1693 | 2164 | 2502 | 2756 | 3214 | 3634 | 4822 | 6034 | 7581 |
| Useful head system side | kPa | 68,0 | 67,0 | 56,0 | 84,0 | 78,0 | 66,0 | 53,0 | 72,0 | 133,0 | 103,0 |

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

$CL - (H^{\circ}) - (400V 3N \sim 50Hz / 230V \sim 50Hz)$

| Size | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 8,5 | 11,1 | 13,8 | 15,8 | 18,6 | 20,6 | 25,2 | 31,7 | 41,6 | 49,9 |
| Input power | kW | 2,8 | 3,3 | 4,0 | 4,4 | 5,1 | 6,0 | 7,2 | 8,7 | 11,6 | 15,4 |
| Cooling total input current - 400V | А | 5,8 | 6,6 | 6,9 | 8,0 | 8,7 | 10,0 | 14,0 | 15,0 | 22,0 | 27,0 |
| Cooling total input current - 230V | A | 13,0 | 16,0 | 17,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,05 | 3,42 | 3,43 | 3,59 | 3,63 | 3,45 | 3,50 | 3,63 | 3,57 | 3,24 |
| Water flow rate system side | l/h | 1472 | 1922 | 2381 | 2740 | 3216 | 3570 | 4364 | 5498 | 7187 | 8639 |
| Pressure drop system side | kPa | 23 | 21 | 23 | 20 | 27 | 46 | 46 | 60 | 39 | 77 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 8,2 | 10,1 | 12,9 | 15,0 | 16,5 | 19,2 | 21,7 | 28,9 | 36,1 | 45,4 |
| Input power | kW | 2,0 | 2,5 | 3,1 | 3,5 | 4,0 | 4,6 | 5,5 | 6,8 | 9,0 | 12,4 |
| Heating total input current - 400V | A | 4,7 | 5,3 | 5,4 | 6,4 | 6,8 | 7,8 | 11,0 | 12,0 | 16,0 | 22,0 |
| Heating total input current - 230V | A | 10,0 | 12,0 | 13,0 | - | - | - | - | - | - | - |
| COP | W/W | 4,16 | 4,08 | 4,15 | 4,30 | 4,12 | 4,17 | 3,93 | 4,22 | 3,99 | 3,67 |
| Water flow rate system side | l/h | 1413 | 1749 | 2235 | 2585 | 2846 | 3320 | 3754 | 4981 | 6233 | 7832 |
| Pressure drop system side | kPa | 20 | 17 | 19 | 18 | 22 | 34 | 36 | 52 | 32 | 45 |

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

CL - (HP/HA) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

| Size | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|-------|------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 8,6 | 11,2 | 13,9 | 16,0 | 18,7 | 20,8 | 25,4 | 32,0 | 41,9 | 50,3 |
| Input power | kW | 2,7 | 3,2 | 4,0 | 4,4 | 5,1 | 5,9 | 7,2 | 8,9 | 12,1 | 15,8 |
| Cooling total input current - 400V | A | 6,2 | 7,0 | 7,3 | 8,6 | 9,4 | 11,0 | 15,0 | 16,0 | 24,0 | 30,0 |
| Cooling total input current - 230V | A | 14,0 | 17,0 | 17,0 | - | - | - | - | - | - | - |
| EER | W/W | 3,13 | 3,50 | 3,50 | 3,64 | 3,69 | 3,52 | 3,55 | 3,58 | 3,45 | 3,18 |
| Water flow rate system side | l/h | 1472 | 1922 | 2381 | 2740 | 3216 | 3570 | 4364 | 5498 | 7187 | 8639 |
| Useful head system side | kPa | 63,0 | 59,0 | 48,0 | 79,0 | 66,0 | 55,0 | 27,0 | 41,0 | 81,0 | 57,0 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 8,1 | 10,0 | 12,8 | 14,8 | 16,3 | 19,1 | 21,6 | 28,6 | 35,8 | 45,0 |
| Input power | kW | 1,9 | 2,4 | 3,1 | 3,4 | 4,0 | 4,6 | 5,5 | 7,0 | 9,4 | 12,8 |
| Heating total input current - 400V | A | 5,0 | 5,6 | 5,8 | 7,0 | 7,5 | 8,5 | 11,0 | 13,0 | 18,0 | 24,0 |
| Heating total input current - 230V | А | 11,0 | 13,0 | 14,0 | - | - | - | - | - | - | - |
| COP | W/W | 4,18 | 4,11 | 4,19 | 4,30 | 4,13 | 4,19 | 3,94 | 4,09 | 3,80 | 3,52 |
| Water flow rate system side | l/h | 1413 | 1749 | 2235 | 2585 | 2846 | 3320 | 3754 | 4981 | 6233 | 7832 |
| Useful head system side | kPa | 66,0 | 65,0 | 54,0 | 82,0 | 76,0 | 63,0 | 49,0 | 65,0 | 124,0 | 93,0 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; System side water heat exchanger 23 °C/18 °C; External air 35 °C (2) Data EN 14511:2022; System side water heat exchanger 30 °C/35 °C; External air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

| Size | | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-------------------------------------|---------------------|----------------|----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving w | ater temp (UE n° 20 |)16/2281) | | | | | | | | | | |
| CEED | 0 | W/W | 2,93 | 3,27 | 3,32 | 3,45 | 3,43 | 3,27 | 3,39 | 4,06 | 4,06 | 3,66 |
| SEER | A,P | W/W | 3,11 | 3,47 | 3,53 | 3,62 | 3,62 | 3,46 | 3,60 | 4,06 | 3,85 | 3,60 |
| | 0 | % | 114,20 | 127,60 | 129,60 | 134,80 | 134,00 | 127,80 | 132,40 | 159,20 | 159,20 | 143,40 |
| ηςς | A,P | % | 121,40 | 135,90 | 138,00 | 142,00 | 141,70 | 135,30 | 141,00 | 159,50 | 150,80 | 141,10 |
| UE 811/2013 performance in averag | e ambient conditio | ns (average) - | 35 °C - Pdesig | nh ≤ 70 kW (1 |) | | | | | | | |
| Ddarianh | 0 | kW | 7 | 9 | 11 | 13 | 14 | 16 | 18 | 25 | 31 | 39 |
| Pdesignh | A,P | kW | 7 | 8 | 11 | 12 | 14 | 16 | 18 | 24 | 29 | 37 |
| SCOP | 0 | W/W | 3,35 | 3,35 | 3,45 | 3,58 | 3,45 | 3,53 | 3,30 | 3,53 | 3,35 | 3,23 |
| SCUP | A,P | W/W | 3,43 | 3,43 | 3,53 | 3,63 | 3,50 | 3,58 | 3,35 | 3,45 | 3,23 | 3,20 |
| | 0 | % | 131,00 | 131,00 | 135,00 | 140,00 | 135,00 | 138,00 | 129,00 | 138,00 | 131,00 | 126,00 |
| ηsh | A,P | % | 134,00 | 134,00 | 138,00 | 142,00 | 137,00 | 140,00 | 131,00 | 135,00 | 126,00 | 125,00 |
| Efficiency energy class | °,A,P | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ | A+ |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|-----|-----|---|---|--|--|--|---|---|--|---|--|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 0 | A | 11,0 | 11,9 | 11,9 | 13,5 | 14,7 | 15,2 | 20,4 | 27,0 | 30,3 | 40,8 |
| A,P | A | 11,4 | 12,4 | 12,3 | 14,3 | 15,4 | 15,9 | 21,1 | 29,0 | 33,4 | 43,8 |
| 0 | A | 44,6 | 44,6 | 57,1 | 64,2 | 74,2 | 94,2 | 105,2 | 77,7 | 109,3 | 125,6 |
| A,P | А | 45,0 | 45,0 | 57,6 | 64,9 | 74,9 | 94,9 | 105,9 | 79,6 | 112,4 | 128,6 |
| | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 0 | A | 19,0 | 24,0 | 24,0 | - | - | - | - | - | - | - |
| A,P | А | 19,8 | 24,7 | 25,0 | - | - | - | - | - | - | - |
| 0 | A | 86,0 | 96,0 | 96,0 | - | - | - | - | - | - | - |
| A,P | А | 87.1 | 96,5 | 97,1 | - | - | - | _ | _ | - | - |
| | A,P | A,P A | ° A 11,0 A,P A 11,4 ° A 44,6 A,P A 45,0 025 ° A 19,0 A,P A 19,8 ° A 86,0 | ° A 11,0 11,9 A,P A 11,4 12,4 ° A 44,6 44,6 A,P A 45,0 45,0 ■ 025 030 | ° A 11,0 11,9 11,9 A,P A 11,4 12,4 12,3 ° A 44,6 44,6 57,1 A,P A 45,0 45,0 57,6 025 030 040 ° A 19,0 24,0 24,0 A,P A 19,8 24,7 25,0 ° A 86,0 96,0 96,0 | ° A 11,0 11,9 11,9 13,5 A,P A 11,4 12,4 12,3 14,3 ° A 44,6 44,6 57,1 64,2 A,P A 45,0 45,0 57,6 64,9 025 030 040 050 | ° A 11,0 11,9 11,9 13,5 14,7 A,P A 11,4 12,4 12,3 14,3 15,4 ° A 44,6 44,6 57,1 64,2 74,2 A,P A 45,0 45,0 57,6 64,9 74,9 025 030 040 050 070 ° A 19,0 24,0 24,0 - - A,P A 19,8 24,7 25,0 - - ° A 86,0 96,0 96,0 - - | ° A 11,0 11,9 11,9 13,5 14,7 15,2 A,P A 11,4 12,4 12,3 14,3 15,4 15,9 ° A 44,6 44,6 57,1 64,2 74,2 94,2 A,P A 45,0 45,0 57,6 64,9 74,9 94,9 025 030 040 050 070 080 ° A 19,0 24,0 24,0 - - - - A,P A 19,8 24,7 25,0 - - - - ° A 86,0 96,0 96,0 - - - - | ° A 11,0 11,9 11,9 13,5 14,7 15,2 20,4 A,P A 11,4 12,4 12,3 14,3 15,4 15,9 21,1 ° A 44,6 44,6 57,1 64,2 74,2 94,2 105,2 A,P A 45,0 45,0 57,6 64,9 74,9 94,9 105,9 025 030 040 050 070 080 090 ° A 19,0 24,0 24,0 - - - - - A,P A 19,8 24,7 25,0 - - - - - ° A 86,0 96,0 96,0 - - - - - | ° A 11,0 11,9 11,9 13,5 14,7 15,2 20,4 27,0 A,P A 11,4 12,4 12,3 14,3 15,4 15,9 21,1 29,0 ° A 44,6 44,6 57,1 64,2 74,2 94,2 105,2 77,7 A,P A 45,0 45,0 57,6 64,9 74,9 94,9 105,9 79,6 025 030 040 050 070 080 090 100 ° A 19,0 24,0 24,0 - - - - - - A,P A 19,8 24,7 25,0 - - - - - - - ° A 86,0 96,0 96,0 - | ° A 11,0 11,9 11,9 13,5 14,7 15,2 20,4 27,0 30,3 A,P A 11,4 12,4 12,3 14,3 15,4 15,9 21,1 29,0 33,4 ° A 44,6 44,6 57,1 64,2 74,2 94,2 105,2 77,7 109,3 A,P A 45,0 45,0 57,6 64,9 74,9 94,9 105,9 79,6 112,4 025 030 040 050 070 080 090 100 150 ° A 19,0 24,0 24,0 - |

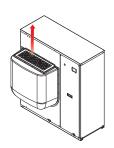
GENERAL TECHNICAL DATA

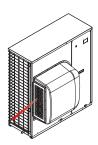
| Size | | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|---|-------|-------|------|------|------|------|-------|---------|------|-------|-------|-------|
| Compressor | | | | | | | | | | | | |
| Туре | °,A,P | type | | | | | Sc | roll | | | | |
| Compressor regulation | °,A,P | Туре | | | | | 0n | -off | | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,A,P | type | | | | | R4 | 10A | | | | |
| Refrigerant charge (1) | °,A,P | kg | 2,7 | 2,7 | 4,3 | 5,6 | 5,6 | 5,6 | 5,7 | 8,3 | 8,0 | 7,5 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | °,A,P | type | | | | | Braze | d plate | | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | °,A,P | Туре | | | | | Ga | s - F | | | | |
| Size (in) | °,A,P | Ø | | | | | 1 | 1/4 | | | | |
| Size (out) | °,A,P | Ø | | | | | 1 | 1/4 | | | | |
| Fan | | | | | | | | | | | | |
| Туре | °,A,P | type | | | | | Plug | g-fan | | | | |
| Fan motor | °,A,P | type | | | | | Inv | erter | | | | |
| Number | °,A,P | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Air flow rate | °,A,P | m³/h | 4000 | 4000 | 6500 | 6500 | 6500 | 6500 | 7500 | 10000 | 12000 | 16000 |
| High static pressure | °,A,P | Pa | 50 | 50 | 50 | 80 | 80 | 80 | 80 | 80 | 100 | 100 |
| Intake plus machine body | | | | | | | | | | | | |
| Sound power level | °,A,P | dB(A) | 78,0 | 78,0 | 73,0 | 73,0 | 73,0 | 73,0 | 76,0 | 74,0 | 79,0 | 80,0 |
| Sound pressure level in cooling mode (10 m) | °,A,P | dB(A) | 46,0 | 46,0 | 41,0 | 41,0 | 41,0 | 41,0 | 44,0 | 42,0 | 47,0 | 48,0 |
| Machine exhaust | | | | | | | | | | | | |
| Sound power level | °,A,P | dB(A) | 78,0 | 78,0 | 78,0 | 78,0 | 78,0 | 78,0 | 81,0 | 78,0 | 83,0 | 85,0 |
| Sound pressure level in cooling mode (10 m) | °,A,P | dB(A) | 46,0 | 46,0 | 46,0 | 46,0 | 46,0 | 46,0 | 49,0 | 47,0 | 52,0 | 54,0 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

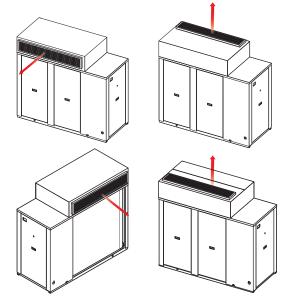
DISCHARGE HOOD POSSIBLE CONFIGURATIONS

CL 025 ÷ 090





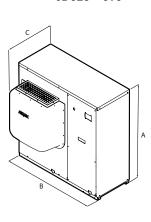
CL 100 ÷ 200



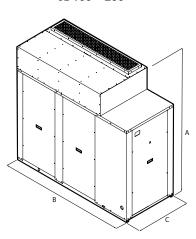
- Air supply Horizontal or vertical, adjustable during installation for all sizes. Directional air discharge hood:
- plastic for sizes 050 to 090— galvanised steel for the other sizes

DIMENSIONS

CL 025 ÷ 090



CL 100 ÷ 200



| Size | | | 025 | 030 | 040 | 050 | 070 | 080 | 090 | 100 | 150 | 200 |
|------------------------|-------|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | |
| A | °,A,P | mm | 1028 | 1028 | 1281 | 1281 | 1281 | 1281 | 1281 | 1674 | 1674 | 1674 |
| D | °,P | mm | 1005 | 1005 | 1160 | 1160 | 1160 | 1160 | 1160 | 1897 | 1897 | 1897 |
| | А | mm | 1366 | 1366 | 1610 | 1610 | 1610 | 1610 | 1610 | 1897 | 1897 | 1897 |
| С | °,A,P | mm | 702 | 702 | 798 | 798 | 798 | 798 | 798 | 801 | 801 | 801 |
| | ۰ | kg | 142 | 142 | 229 | 229 | 240 | 240 | 234 | 504 | 527 | 515 |
| Empty weight | A | kg | 172 | 172 | 274 | 274 | 284 | 284 | 279 | 567 | 593 | 581 |
| | Р | kg | 148 | 148 | 239 | 239 | 250 | 250 | 243 | 517 | 543 | 531 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NLC 0280-1250

Air-water chiller

Cooling capacity 53 ÷ 322 kW



- High efficiency also at partial loads
- · Complete air flow versatility
- EC fan Plug-fan with high performance
- Night mode





DESCRIPTION

Chiller offering chilled/hot water, designed to mit air conditioning needs in residential / commercial complexes or industrial applications. Indoor units with Scroll compressors, centrifugal fans and plate heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 46°C external air temperature. Unit can produce chilled water up to -10°C.

Units mono or dual-circuit

The range includes units with 2 compressors in single circuit and units with 4 compressors divided into two independent circuits.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

EC fan plug-fan

The units are equipped with plug-fans and inverter motors coupled directly with the fan, with the electronic condensation control as standard, which adjusts the air flow according to the actual system requirements, with benefits in terms of consumption and noise reduction. In addition, compared to conventional centrifugal fans, they do not feature belt and pulley transmission, resulting in easy flow adjustment, compactness, versatility, easy maintenance and no vibrations.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to save money and to facilitate installation.

Hot water production

In the configuration with desuperheater or total recovery, it is also possible to produce free-hot water.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible

to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

VT: Antivibration supports **FLG:** Flange for ducts.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

KRQ: Electric heater for the control and electric power board.

KRA: Anti-freeze electric heater for the buffer tank.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E | • | | • | | • | • | • | | • | • | • | • | • | • | • |
| AERLINK | °,A,E | • | • | • | • | • | • | • | • | • | | • | • | • | • | • |
| AERNET | °,A,E | • | • | • | • | | | | • | • | • | • | • | • | • | • |
| FL | °,A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Model | Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| C-TOUCH | °,A,E | • | | • | • | | | | | • | • | • | • | • | • | • |

FILTROW

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|--|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| °,A,E | FILTRO W DN50 (1) | FILTRO W DN50 (1) | FILTRO W DN50 (1) | FILTRO W DN50 (1) | FILTRO W DN65 (1) |
| (1) Installation is mandatory, contrarily ga | rantee becomes void. | | | | | | | |
| Ver | 0700 | 0750 | 0800 | 09 | 000 | 1000 | 1100 | 1250 |
| °,A,E | FILTRO W DN65 (1) | FILTRO W DN65 (| 1) FILTRO W DN | 80 (1) FILTRO W | DN80 (1) FILTRO | O W DN80 (1) FI | TRO W DN80 (1) | FILTRO W DN80 (1) |

(1) Installation is mandatory, contrarily garantee becomes void.

Flange for ducts

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|-----|------|------|------|------|--------------|--------------|--------------|--------------|
| 0 | FLG1 | FLG1 | FLG1 | FLG1 | FLG1 | FLG2 x 2 (1) | FLG2 x 2 (1) | FLG2 x 2 (1) |
| A,E | FLG1 | FLG1 | FLG1 | FLG1 | FLG2 x 2 (1) |

(1) x... indicates the quantity to buy.

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----|--------------|---------------------|--------------|---------------------|--------------|--------------|--------------|
| 0 | FLG1 x 2 (1) | FLG1 + FLG2 x 2 (1) | FLG2 x 4 (1) | FLG1 + FLG2 x 2 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) |
| A,E | FLG1 x 2 (1) | FLG1 + FLG2 x 2 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) | FLG2 x 4 (1) |

(1) x... indicates the quantity to buy.

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|--|--------------------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | |
| °,A,E | VT17 | VT17 | VT17 | VT17 | - | - | - | - |
| Integrated hydronic kit: 01, 02, 03, 0 | 4, 05, 06, 07, 08 | | | | | | | |
| °,A,E | VT11 | VT11 | VT11 | VT11 | - | - | - | - |
| Integrated hydronic kit: P1, P2, P3, I | P4, P5, P6, P7, P8 | | | | | | | |
| °,A,E | VT13 | VT13 | VT13 | VT13 | - | - | - | - |
| | | | | | | | | |

The accessory cannot be fitted on the configurations indicated with -

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|--|--------------------|------|------|------|--------|--------|--------|--------|
| Integrated hydronic kit: 00 | | | | | | | | |
| 0 | - | - | - | - | AVX437 | AVX421 | AVX421 | AVX421 |
| A,E | - | - | - | - | AVX421 | AVX421 | AVX421 | AVX421 |
| Integrated hydronic kit: 01, 02, 03, 0 | 04, 05, 06, 07, 08 | | | | | | | |
| 0 | - | - | - | - | AVX439 | AVX423 | AVX423 | AVX423 |
| A,E | - | - | - | - | AVX423 | AVX423 | AVX423 | AVX423 |
| Integrated hydronic kit: P1, P3, P5, | P7 | | | | | | | |
| 0 | - | - | - | - | AVX438 | AVX421 | AVX421 | AVX421 |
| A,E | - | - | - | - | AVX421 | AVX421 | AVX421 | AVX421 |
| Integrated hydronic kit: P2, P4, P6, | P8 | | | | | | | |
| 0 | - | - | - | - | AVX438 | AVX422 | AVX422 | AVX422 |
| A,E | - | - | - | - | AVX422 | AVX422 | AVX422 | AVX422 |

The accessory cannot be fitted on the configurations indicated with -

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|---------------------------------------|---------|--------|--------|--------|-----------|--------|--------|
| tegrated hydronic kit: 00 | | | | | | | |
| 0 | AVX424 | AVX440 | AVX440 | AVX444 | AVX431 | AVX431 | AVX431 |
| A,E | AVX424 | AVX428 | AVX431 | AVX431 | AVX431 | AVX431 | AVX431 |
| tegrated hydronic kit: 01, 03, 05, 07 | | | | | | | |
| ۰ | AVX427 | AVX441 | AVX441 | AVX446 | AVX435 | AVX434 | AVX434 |
| A,E | AVX427 | AVX430 | AVX434 | AVX434 | AVX434 | AVX434 | AVX434 |
| tegrated hydronic kit: 02, 04, 06, 08 | | | | | | | |
| 0 | AVX427 | AVX441 | AVX441 | AVX446 | AVX435 | AVX436 | AVX436 |
| A,E | AVX427 | AVX430 | AVX435 | AVX435 | AVX435 | AVX436 | AVX436 |
| tegrated hydronic kit: P1, P3, P5, P7 | | | | | | | |
| 0 | AVX425 | AVX425 | AVX442 | AVX445 | AVX432 | AVX432 | AVX432 |
| A,E | AVX425 | AVX429 | AVX432 | AVX432 | AVX432 | AVX432 | AVX432 |
| tegrated hydronic kit: P2, P4, P6, P8 | | | | | | | |
| ٥ | AVX426 | AVX426 | AVX443 | AVX445 | AVX433 | AVX433 | AVX433 |
| A,E | AVX426 | AVX429 | AVX433 | AVX433 | AVX433 | AVX433 | AVX433 |
| | | | | | | | |
| RE: Device for peak current red | duction | | | | | | |
| Ver | 0280 | 0300 | 0330 | 0350 | 0550 0600 | 0650 | 0675 |

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| °,A,E | DRE275 (1) | DRE275 (1) | DRE300 (1) | DRE350 (1) | DRE552 (1) | DRE602 (1) | DRE652 (1) | DRE675 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-------|------------|------------|------------|------------|------------|------------|-------------|
| °,A,E | DRE350 x 2 | DRE552 x 2 | DRE552 x 2 | DRE602 x 2 | DRE652 x 2 | DRE675 x 2 | DRE1250 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0280 | 0300 | 0330 | 0350 | | 0600 | 0650 | 0675 | | | | |
|--|-----------------|-----------------------|-----------------|---------------|------------------------|------|-----------------|-----------------|--|--|--|--|
| °,A,E | RIFNLC1 | RIFNLC1 | RIFNLC2 | RIFNLC3 | RIFNLC1 RIFNLC1 | | RIFNLC1 | RIFNLC4 | | | | |
| A grey background indicates the accessory must be assembled in the factory | | | | | | | | | | | | |
| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | | 1100 | 1250 | | | | |
| °,A,E | RIFNLC3 x 2 (1) | RIFNLC3 + RIFNLC2 (1) | RIFNLC1 x 2 (1) | RIFNLC1 x 2 (| (2 (1) RIFNLC1 x 2 (1) | | RIFNLC4 x 2 (1) | RIFNLC3 x 2 (1) | | | | |

(1) x... indicates the quantity to buy.
A grey background indicates the accessory must be assembled in the factory

Anti-condensate electric board resistance

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | | | |
|--|------|------|------|------|------|------|------|------|--|--|--|
| °,A,E | KRQ | | | |
| A grey background indicates the accessory must be assembled in the factory | | | | | | | | | | | |
| Ver | 0700 | 0750 | 0800 | 0900 | | 1000 | 1100 | 1250 | | | |
| 0 A E | VDO. | VDO | VDΛ | VDV | | VDO | VDO | KDU | | | |

A grey background indicates the accessory must be assembled in the factory

Anti-freeze electric heater for the storage tank

| THE TECES CICCLIFE TICATES TO | tire storage tariit | | | | | | | |
|---|---------------------|------|------|-----------|------|------|------|------|
| Ver | 0280 | | | 0330 0350 | | 0600 | 0650 | 0675 |
| Integrated hydronic kit: 01, 02, 03, 04 | , 05, 06, 07, 08 | | | | | | | |
| °,A,E | KRA1 | KRA1 | KRA1 | KRA1 | KRA2 | KRA2 | KRA2 | KRA2 |
| Integrated hydronic kit: P1, P2, P3, P4 | 4, P5, P6, P7, P8 | | | | | | | |
| A,E | KRA1 | KRA1 | KRA1 | KRA1 | KRA2 | KRA2 | KRA2 | KRA2 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 | | | | | | |
|--|---|------|------|------|------|------|------|--|--|--|--|--|--|
| Integrated hydronic kit: 01, 02, 03, 04, | 05, 06, 07, 08 | | | | | | | | | | | | |
| °,A,E | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | | | | | | |
| Integrated hydronic kit: P1, P2, P3, P4, | Integrated hydronic kit: P1, P2, P3, P4, P5, P6, P7, P8 | | | | | | | | | | | | |
| A,E | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | KRA2 | | | | | | |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NLC |
| 4,5,6,7 | Size |
| | 0280, 0300, 0330, 0350, 0550, 0600, 0650, 0675, 0700, 0750, 0800, 0900, 1000, 1100, 1250 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| X | Electronic thermostatic expansion valve (1) |
| Υ | Low temperature mechanic thermostatic valve (2) |
| Z | Low temperature electronic thermostatic valve (2) |
| 9 | Model |
| • | Cooling only |
| | Motocondensing unit |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery (4) |
| 11 | Version |
| 0 | Standard |
| Α | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with storage tank and inverter pump/s |
| 05 | Storage tank with low-head inverter pump |
| 06 | Storage tank with low head inverter pump + stand-by pump |
| 07 | Storage tank with high head inverter pump |
| 08 | Storage tank with high head inverter pump + stand-by pump |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with pump/s, with inverter speed |
| P5 | Single low head pump + fixed speed inverter (5) |
| P6 | Single low head pump with fixed speed inverter + stand-by pump (5) |
| P7 | Single high head pump + fixed speed inverter (5) |
| P8 | Single high head pump with fixed speed inverter + stand-by pump (5) |
| | Single riigh nead pump with nixed speed inverter + stand-by pump (3) Hrom 4°C ÷ 18°C |

Water produced from 4 °C ÷ 18 °C
 Water produced from 4 °C ÷ -10 °C
 The temperature of the water in the heat exchanger inlet must never drop below 35°C.
 The speed of the inverter pump must be set upon commissioning, according to the useful static pressure required; once it has been set, the pump will work at a constant flow rate.

PERFORMANCE SPECIFICATIONS

NLC - °

| Size | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|------------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 52,1 | 57,1 | 62,8 | 75,4 | 94,2 | 112,0 | 123,0 | 137,4 | 151,4 | 170,2 | 189,7 | 220,2 | 242,6 | 277,4 | 306,7 |
| Input power | kW | 20,4 | 23,4 | 24,3 | 28,9 | 39,3 | 44,3 | 50,1 | 53,7 | 58,6 | 66,6 | 79,0 | 86,4 | 99,8 | 107,6 | 121,3 |
| Cooling total input current | Α | 38,0 | 42,0 | 46,0 | 57,0 | 68,0 | 77,0 | 85,0 | 92,0 | 113,0 | 121,0 | 136,0 | 148,0 | 169,0 | 181,0 | 208,0 |
| EER | W/W | 2,56 | 2,44 | 2,59 | 2,61 | 2,40 | 2,53 | 2,45 | 2,56 | 2,58 | 2,56 | 2,40 | 2,55 | 2,43 | 2,58 | 2,53 |
| Water flow rate system side | I/h | 8969 | 9828 | 10807 | 12972 | 16236 | 19277 | 21167 | 23676 | 26081 | 29294 | 32644 | 37884 | 41733 | 47712 | 52763 |
| Pressure drop system side | kPa | 19 | 22 | 28 | 27 | 43 | 27 | 31 | 43 | 37 | 30 | 38 | 35 | 35 | 41 | 48 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NLC - A

| Size | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|--------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 54,0 | 59,4 | 66,9 | 78,6 | 106,3 | 119,5 | 129,2 | 146,3 | 157,4 | 177,9 | 209,7 | 233,2 | 257,6 | 290,6 | 319,2 |
| Input power | kW | 19,5 | 21,5 | 23,4 | 27,7 | 37,7 | 42,9 | 45,0 | 52,4 | 55,3 | 60,3 | 75,4 | 84,8 | 89,6 | 105,7 | 115,9 |
| Cooling total input current | Α | 36,0 | 40,0 | 43,0 | 54,0 | 63,0 | 71,0 | 73,0 | 87,0 | 107,0 | 113,0 | 126,0 | 139,0 | 146,0 | 173,0 | 198,0 |
| EER | W/W | 2,77 | 2,76 | 2,85 | 2,84 | 2,82 | 2,78 | 2,87 | 2,79 | 2,85 | 2,95 | 2,78 | 2,75 | 2,88 | 2,75 | 2,75 |
| Water flow rate system side | l/h | 9295 | 10223 | 11511 | 13539 | 18298 | 20566 | 22250 | 25188 | 27095 | 30617 | 36080 | 40118 | 44310 | 49980 | 54911 |
| Pressure drop system side | kPa | 20 | 24 | 22 | 30 | 25 | 30 | 36 | 36 | 25 | 25 | 33 | 33 | 35 | 37 | 43 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NLC - E

| Size | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----------------------------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 52,2 | 58,0 | 64,2 | 73,4 | 102,9 | 115,6 | 124,5 | 142,6 | 151,1 | 171,3 | 201,2 | 224,8 | 248,0 | 282,8 | 310,6 |
| Input power | kW | 19,3 | 21,5 | 23,7 | 27,4 | 37,6 | 42,7 | 45,9 | 52,5 | 55,4 | 60,1 | 74,9 | 85,2 | 90,6 | 105,8 | 116,0 |
| Cooling total input current | A | 36,0 | 39,0 | 43,0 | 53,0 | 62,0 | 69,0 | 73,0 | 85,0 | 106,0 | 112,0 | 123,0 | 138,0 | 146,0 | 170,0 | 197,0 |
| EER | W/W | 2,70 | 2,70 | 2,71 | 2,67 | 2,74 | 2,71 | 2,71 | 2,72 | 2,73 | 2,85 | 2,69 | 2,64 | 2,74 | 2,67 | 2,68 |
| Water flow rate system side | I/h | 8986 | 9982 | 11047 | 12628 | 17714 | 19896 | 21442 | 24552 | 25995 | 29483 | 34637 | 38675 | 42661 | 48640 | 53433 |
| Pressure drop system side | kPa | 19 | 23 | 20 | 26 | 23 | 29 | 34 | 34 | 23 | 24 | 31 | 30 | 33 | 35 | 41 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|---|------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825:2018) with standard | fans (1) | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,33 | 5,02 | 4,92 | 4,97 | 4,25 | 4,87 | 4,57 | 4,73 | 4,28 | 4,15 | 4,10 | 4,12 | 4,10 | 4,15 | 4,10 |
| SEER | А | W/W | 5,79 | 5,77 | 5,33 | 5,34 | 5,24 | 5,33 | 5,15 | 5,03 | 4,75 | 4,93 | 4,55 | 4,46 | 4,63 | 4,42 | 4,35 |
| _ | Е | W/W | 4,83 | 4,98 | 4,74 | 4,80 | 4,58 | 4,70 | 4,53 | 4,55 | 4,48 | 4,63 | 4,19 | 4,14 | 4,31 | 4,19 | 4,12 |
| | 0 | % | 210,3% | 197,8% | 193,9% | 195,8% | 167,1% | 191,6% | 179,6% | 186,0% | 168,2% | 162,8% | 161,0% | 161,9% | 161,1% | 163,1% | 161,0% |
| Seasonal efficiency | А | % | 228,6% | 227,6% | 210,2% | 210,4% | 206,7% | 210,1% | 202,9% | 198,3% | 186,9% | 194,0% | 178,8% | 175,5% | 182,3% | 173,9% | 171,1% |
| | E | % | 190,3% | 196,0% | 186,7% | 189,0% | 180,1% | 185,0% | 178,3% | 179,1% | 176,2% | 182,1% | 164,6% | 162,7% | 169,2% | 164,4% | 161,9% |
| SEER - 23/18 (EN14825: 2018) with standar | rd fans (2 | !) | | | | | | | | | | | | | | | |
| _ | 0 | W/W | 6,25 | 5,89 | 5,79 | 5,84 | 5,02 | 5,72 | 5,37 | 5,58 | 5,08 | 4,91 | 4,86 | 4,90 | 4,86 | 4,93 | 4,87 |
| SEER | Α | W/W | 6,84 | 6,82 | 6,27 | 6,27 | 6,17 | 6,27 | 6,07 | 5,93 | 5,62 | 5,84 | 5,39 | 5,29 | 5,49 | 5,25 | 5,16 |
| | E | W/W | 5,68 | 5,85 | 5,58 | 5,64 | 5,39 | 5,54 | 5,35 | 5,37 | 5,29 | 5,46 | 4,96 | 4,90 | 5,10 | 4,95 | 4,88 |
| | 0 | % | 246,8% | 232,5% | 228,5% | 230,5% | 197,7% | 225,8% | 211,9% | 220,1% | 200,0% | 193,4% | 191,4% | 192,8% | 191,5% | 194,1% | 191,6% |
| Seasonal efficiency | А | % | 270,6% | 269,7% | 247,6% | 247,7% | 243,6% | 247,8% | 239,8% | 234,3% | 221,8% | 230,4% | 212,4% | 208,5% | 216,6% | 206,9% | 203,5% |
| | E | % | 224,2% | 230,8% | 220,3% | 222,7% | 212,7% | 218,4% | 211,0% | 211,8% | 208,6% | 215,5% | 195,3% | 193,0% | 200,9% | 195,0% | 192,0% |
| SEPR - (EN14825: 2018) High temperature | with star | dard fans (2 |) | | | | | | | | | | | | | | |
| _ | 0 | W/W | 6,54 | 6,22 | 6,12 | 6,02 | 5,18 | 5,73 | 5,32 | 5,70 | 5,45 | 5,08 | 5,04 | 5,25 | 5,04 | 5,07 | 5,03 |
| SEPR | А | W/W | 6,87 | 6,88 | 6,44 | 6,47 | 6,21 | 6,35 | 5,98 | 5,90 | 5,94 | 6,32 | 5,65 | 5,40 | 5,72 | 5,41 | 5,39 |
| _ | E | W/W | 5,91 | 5,92 | 5,65 | 5,55 | 5,14 | 5,36 | 5,03 | 5,15 | 5,12 | 5,48 | 5,09 | 5,01 | 5,09 | 5,05 | 5,03 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

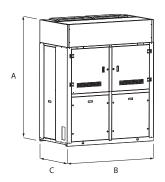
| ELECTRIC DATA | | | | | | | | | | | | | | | | | |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| Electric data | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | 0 | Α | 52,0 | 56,0 | 62,0 | 73,0 | 103,0 | 111,0 | 119,0 | 132,0 | 146,0 | 169,0 | 206,0 | 222,0 | 238,0 | 263,0 | 289,0 |
| Maximum current (FLA) | A,E | Α | 52,0 | 56,0 | 62,0 | 73,0 | 92,0 | 111,0 | 119,0 | 132,0 | 146,0 | 158,0 | 183,0 | 210,0 | 238,0 | 263,0 | 289,0 |
| Dook surrent (LDA) | 0 | Α | 128,0 | 130,0 | 133,0 | 216,0 | 261,0 | 273,0 | 281,0 | 358,0 | 290,0 | 346,0 | 353,0 | 372,0 | 400,0 | 489,0 | 515,0 |
| Peak current (LRA) | A,E | Α | 128,0 | 130,0 | 133,0 | 216,0 | 273,0 | 273,0 | 281,0 | 358,0 | 290,0 | 357,0 | 376,0 | 384,0 | 400,0 | 489,0 | 515,0 |

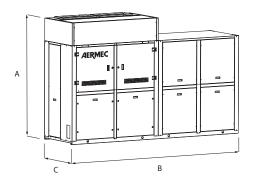
GENERAL TECHNICAL DATA

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|---|--------------------|-------------|--------------|-------------|-------------|--------------|-------------|-----------|--------------|--------------|--------------|-----------|-------------|------------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | °,A,E | type | | | | | | | | Scroll | | | | | | | |
| Compressor regulation | °,A,E | Туре | | | | | | | | 0n-0ff | | | | | | | |
| Number | °,A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | °,A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E | type | | , | | | | | | R410A | | | | | | | |
| | 0 | kg | 7,0 | 7,0 | 8,5 | 9,0 | 13,7 | 15,0 | 18,0 | 19,0 | 9,5 | 8,3 | 13,8 | 13,5 | 15,0 | 19,1 | 19,1 |
| Refrigerant load circuit 1 (1) | A | kg | 8,7 | 8,5 | 9,5 | 10,0 | 18,0 | 18,7 | 22,0 | 22,0 | 10,7 | 9,5 | 18,7 | 19,5 | 22,0 | 22,0 | 22,0 |
| | E | kg | 8,7 | 8,5 | 9,5 | 10,0 | 18,0 | 18,7 | 21,0 | 21,5 | 10,7 | 9,5 | 18,7 | 19,0 | 21,1 | 22,0 | 22,0 |
| | 0 | kg | - | - | - | - | - | - | - | - | 9,5 | 12,3 | 13,8 | 13,5 | 15,0 | 19,1 | 19,1 |
| Refrigerant load circuit 2 (1) | A | kg | - | - | - | - | - | - | - | - | 10,7 | 17,0 | 18,7 | 19,5 | 22,0 | 22,0 | 22,0 |
| | E | kg | - | - | - | - | - | - | - | - | 10,7 | 17,0 | 18,7 | 19,0 | 20,6 | 22,0 | 22,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Туре | °,A,E | type | | | | | | | [| Brazed plat | e | | | | | | |
| Number | °,A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| (1) The load indicated in the table is an | estimated and prel | iminary val | ue. The fina | al value of | the refrige | erant load i | s indicated | on the un | it's technic | cal label. F | or further i | nformatio | n contact t | he office. | | | |
| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| Integrated hydronic kit: 0 | 0 | | | | | | | | | | | | | | | | |
| System side hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E | Туре | | | | | | | G | rooved joir | nts | | | | | | |
| Sizes (in/out) | 0 | Ø | 2" | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" |
| | A,E | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" |
| Integrated hydronic kit: 0 | 1, 02, 03, 04 | 4, 05, 0 | 6, 07, 0 | 8, P1, | P2, P3, | P4, P5 | , P6, P | 7, P8 | | | | | | | | | |
| System side hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | °,A,E | Туре | | | | | | | G | rooved joir | nts | | | | | | |
| Sizes (in/out) | °,A,E | Ø | 2" | 2" | 2" | 2" | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 3" | 3" | 3" | 3″ | 3" |
| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | °,A,E | type | | | | | | | | Plug-fun | | | | | | | |
| Fan motor | °,A,E | type | | | | | | | ECI | nverter mo | otors | | | | | | |
| N 1 | 0 | no. | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 8 | 8 | 8 |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 8 | 8 | 8 | 8 | 8 |
| | ō | m³/h | 21600 | 24000 | 21150 | 23600 | 23200 | 34050 | 34050 | 38200 | 47150 | 46750 | 46350 | 62150 | 68100 | 66650 | 71750 |
| Air flow rate | A | m³/h | 21150 | 23600 | 19400 | 22050 | 27700 | 33350 | 27150 | 32750 | 44050 | 57900 | 55350 | 55350 | 54300 | 65450 | 65450 |
| | E | m³/h | 15000 | 18400 | 14650 | 16450 | 14900 | 22200 | 14600 | 21750 | 32900 | 41900 | 29850 | 29850 | 29200 | 43500 | 43500 |
| Sound power level (expulsion) | | | | | | | | | | | | | | | | | |
| | 0 | dB(A) | 83,3 | 85,6 | 82,9 | 85,4 | 87,5 | 83,9 | 83,9 | 86,1 | 88,4 | 89,6 | 90,5 | 86,9 | 86,9 | 89,1 | 89,1 |
| Sound power level | A | dB(A) | 83,6 | 86,1 | 81,9 | 84,5 | 82,9 | 85,2 | 82,9 | 85,1 | 87,5 | 85,8 | 85,9 | 88,2 | 85,9 | 88,1 | 88,1 |
| | E | dB(A) | 76,7 | 80,1 | 76,5 | 78,3 | 75,2 | 78,5 | 75,2 | 78,4 | 81,3 | 80,0 | 78,2 | 81,5 | 78,2 | 81,4 | 81,4 |
| Sound power level (intake + machine | body) | | | | | | | | | | | | | | | | |
| | ٥ | dB(A) | 80,1 | 79,2 | 81,0 | 83,8 | 86,4 | 84,8 | 85,6 | 83,9 | 85,1 | 86,7 | 87,7 | 87,2 | 89,3 | 89,3 | - |
| | | | | | | | | | | 07.4 | | | 00.1 | | | 00.4 | 90,4 |
| Sound power level | Α | dB(A) | 78,7 | 80,1 | 80,0 | 81,2 | 86,1 | 87,4 | 86,1 | 87,1 | 84,0 | 86,5 | 89,1 | 92,5 | 89,1 | 90,1 | 90,4 |

516 www.aermec.com NLC-0280-1250-CO_Y_UN50_07

DIMENSIONS





| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|--|--------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | °,A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| D | 0 | mm | 1750 | 1750 | 1750 | 1750 | 1750 | 3150 | 3150 | 3150 | 3500 | 3500 | 3500 | 4900 | 6300 | 6300 | 6300 |
| В | A,E | mm | 1750 | 1750 | 1750 | 1750 | 3150 | 3150 | 3150 | 3150 | 3500 | 4900 | 6300 | 6300 | 6300 | 6300 | 6300 |
| C | °,A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Faranta considerate | 0 | kg | 759 | 759 | 787 | 798 | 994 | 1409 | 1415 | 1450 | 1510 | 1682 | 1858 | 2294 | 2692 | 2775 | 2789 |
| Empty weight | A,E | kg | 775 | 775 | 809 | 813 | 1432 | 1436 | 1470 | 1485 | 1553 | 2156 | 2728 | 2744 | 2818 | 2844 | 2858 |
| Dimensions and weights with pump/s | | | | | | | | | | | | | | | | | |
| A | °,A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| D | 0 | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 3150 | 3150 | 3150 | 4250 | 4250 | 4250 | 4900 | 6300 | 6300 | 6300 |
| В | A,E | mm | 2500 | 2500 | 2500 | 2500 | 3150 | 3150 | 3150 | 3150 | 4250 | 4900 | 6300 | 6300 | 6300 | 6300 | 6300 |
| C | °,A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Dimensions and weights with storage ta | nk and pump/ | 's | | | | | | | | | | | | | | | |
| A | °,A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| D. | 0 | mm | 3400 | 3400 | 3400 | 3400 | 3500 | 4150 | 4150 | 4150 | 5250 | 5250 | 5250 | 5900 | 7300 | 7300 | 7300 |
| В | A,E | mm | 3400 | 3400 | 3400 | 3400 | 4150 | 4150 | 4150 | 4150 | 5250 | 5900 | 7300 | 7300 | 7300 | 7300 | 7300 |
| C | °,A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |



















NLC 0280H-1250H

Reversible air/water heat pump

Cooling capacity 53 ÷ 322 kW Heating capacity 55 ÷ 342 kW



- High efficiency also at partial loads
- · Complete air flow versatility
- EC fan Plug-fan with high performance
- Night mode





DESCRIPTION

Reversible heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

Indoor units with Scroll compressors, centrifugal fans and plate heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

A High efficiency

E Silenced high efficiency

FEATURES Operating field

Work up to 44°C of outdoor air temperature at full load, depending on size and version. For further details refer to the selection software / technical documentation.

Units mono or dual-circuit

The range includes units with 2 compressors in single circuit and units with 4 compressors divided into two independent circuits.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

EC fan plug-fan

The units are equipped with plug-fans and inverter motors coupled directly with the fan, with the electronic condensation control as standard, which adjusts the air flow according to the actual system requirements, with benefits in terms of consumption and noise reduction. In addition, compared to conventional centrifugal fans, they do not feature belt and pulley transmission, resulting in easy flow adjustment, compactness, versatility, easy maintenance and no vibrations.

Version with Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

VT: Antivibration supports FLG: Flange for ducts.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

KRB: -

KRQ: Electric heater for the control and electric power board.

KRA: Anti-freeze electric heater for the buffer tank.

C-TOUCH: 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | A,E | • | • | • | • | • | • | • | • | • | | • | • | • | • | • |
| AERNET | A,E | | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| FL | A,E | • | • | • | • | | • | • | • | • | | • | • | • | • | • |
| MULTICHILLER_EVO | A,E | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | A,E | • | | | | | • | | | | | | | | | • |

Water filter

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A,E | FILTRO W DN50 (1) | FILTRO W DN65 (1) |
| | | | | | | | | |

(1) Installation is mandatory, contrarily garantee becomes void.

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A,E | FILTRO W DN80 (1) |

⁽¹⁾ Installation is mandatory, contrarily garantee becomes void.

Flange for ducts

| <u>-</u> | | | | | | | | |
|----------|--------------|-----------------|--------------|--------------|------|--------------|--------------|--------------|
| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
| A,E | FLG1 | FLG1 | FLG1 | FLG1 | FLG2 | FLG2 | FLG2 | FLG2 |
| Ver | 0700 | 0750 | 0800 | 0900 | | 1000 | 1100 | 1250 |
| A,E | FLG1 x 2 (1) | FLG1 + FLG2 (1) | FLG2 x 2 (1) | FLG2 x 2 (1) | | FLG2 x 2 (1) | FLG2 x 2 (1) | FLG2 x 2 (1) |

⁽¹⁾ x... indicates the quantity to buy.

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-------------------|-------------------|---------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydron | ic kit: 00 | | | | | | | | | | | | | | |
| A,E | VT17 | VT17 | VT17 | VT17 | - | - | - | - | - | - | - | - | - | - | - |
| Integrated hydron | ic kit: 01, 02, 0 | 3, 04, 05, 06 | , 07, 08 | | | | | | | | | | | | |
| A,E | VT11 | VT11 | VT11 | VT11 | - | - | - | - | - | - | - | - | - | - | - |
| Integrated hydron | ic kit: P1, P2, F | P3, P4, P5, P | 6, P7, P8 | | | | | | | | | | | | |
| A,E | VT13 | VT13 | VT13 | VT13 | - | - | - | - | - | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

Antivibration

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|------------------|--------------------|--------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydro | nic kit: 00 | | | | | | | | | | | | | | |
| A,E | - | - | - | - | AVX410 | AVX410 | AVX410 | AVX410 | AVX410 | AVX416 | AVX418 | AVX418 | AVX420 | AVX420 | AVX420 |
| Integrated hydro | nic kit: 01, 02, (| 3,04 | | | | | | | | | | | | | |
| A,E | - | - | - | - | AVX412 | AVX412 | AVX412 | AVX412 | AVX415 | AVX417 | AVX419 | AVX419 | AVX419 | AVX419 | AVX419 |
| Integrated hydro | nic kit: 05, 06, (| 7, 08 | | | | | | | | | | | | | |
| Α | - | - | - | - | AVX423 | AVX412 | AVX412 | AVX412 | AVX415 | AVX417 | AVX419 | AVX419 | AVX419 | AVX419 | AVX419 |
| E | - | - | - | - | AVX412 | AVX412 | AVX412 | AVX412 | AVX415 | AVX417 | AVX419 | AVX419 | AVX419 | AVX419 | AVX419 |
| Integrated hydro | nic kit: P1, P3, I | P5, P7 | | | | | | | | | | | | | |
| A,E | - | - | - | - | AVX410 | AVX410 | AVX410 | AVX410 | AVX413 | AVX416 | AVX418 | AVX418 | AVX420 | AVX420 | AVX420 |
| Integrated hydro | nic kit: P2, P4, I | P6, P8 | - | | | - | | | - | | - | | | | |
| A,E | - | - | - | - | AVX411 | AVX411 | AVX411 | AVX411 | AVX414 | AVX416 | AVX418 | AVX418 | AVX420 | AVX420 | AVX420 |
| | | | | | | | | | | | | | | | |

The accessory cannot be fitted on the configurations indicated with -

DRE: Device for peak current reduction

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| A,E | DRE275 (1) | DRE275 (1) | DRE300 (1) | DRE350 (1) | DRE552 (1) | DRE602 (1) | DRE652 (1) | DRE675 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----|------------|------------|------------|------------|------------|------------|-------------|
| A,E | DRE350 x 2 | DRE552 x 2 | DRE552 x 2 | DRE602 x 2 | DRE652 x 2 | DRE675 x 2 | DRE1250 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E | RIFNLC1 | RIFNLC1 | RIFNLC2 | RIFNLC3 | RIFNLC1 | RIFNLC1 | RIFNLC1 | RIFNLC4 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----|-----------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A,E | RIFNLC3 x 2 (1) | RIFNLC3 + RIFNLC2 (1) | RIFNLC1 x 2 (1) | RIFNLC1 x 2 (1) | RIFNLC1 x 2 (1) | RIFNLC4 x 2 (1) | RIFNLC3 x 2 (1) |

Anti-condensate electric board resistance

| Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| A.E | KRO |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-freeze electric heater for the storage tank

| _ | | | | | | | | | | | | | | | | |
|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ξ | Ver | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| | A,E | KRA1 | KRA1 | KRA1 | KRA1 | KRA2 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NLC |
| 4,5,6,7 | Size 0280, 0300, 0330, 0350, 0550, 0600, 0650, 0675, 0700, 0750, 0800, 0900, 1000, 1100, 1250 |
| 8 | Operating field (1) |
| 0 | Standard mechanic thermostatic valve |
| Χ | Electronic thermostatic expansion valve |
| 9 | Model |
| Н | Heat pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (2) |
| 11 | Version |
| Α | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| ٧ | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |

| Field | Description |
|-------|---|
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with storage tank and inverter pump/s |
| 05 | Storage tank with low-head inverter pump |
| 06 | Storage tank with low head inverter pump + stand-by pump |
| 07 | Storage tank with high head inverter pump |
| 08 | Storage tank with high head inverter pump + stand-by pump |
| | Kit with pump/s |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with pump/s, with inverter speed |
| P5 | Single low head pump + fixed speed inverter (3) |
| P6 | Single low head pump with fixed speed inverter + stand-by pump (3) |
| P7 | Single high head pump + fixed speed inverter (3) |
| P8 | Single high head pump with fixed speed inverter + stand-by pump (3) |

520 NLC-0280-1250-HP_Y_UN50_07 www.aermec.com

⁽¹⁾ x... indicates the quantity to buy.
A grey background indicates the accessory must be assembled in the factory

Water produced from 4 °C ÷ 18 °C
 The desuperheater must be intercepted in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
 The speed of the inverter pump must be set upon commissioning, according to the useful static pressure required; once it has been set, the pump will work at a constant flow rate.

PERFORMANCE SPECIFICATIONS

NLC-HA/HE

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|---------------------------------------|-----|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | | | |
| Cooling conscitu | А | kW | 54,4 | 60,4 | 66,7 | 78,6 | 102,5 | 115,3 | 126,0 | 143,4 | 158,1 | 181,1 | 202,0 | 232,5 | 252,7 | 287,1 | 316,5 |
| Cooling capacity | E | kW | 52,1 | 58,2 | 63,5 | 75,0 | 97,8 | 110,6 | 118,5 | 136,8 | 150,2 | 172,1 | 192,7 | 223,8 | 242,2 | 273,7 | 305,0 |
| Input namer | A | kW | 20,0 | 22,5 | 24,4 | 28,6 | 37,7 | 43,4 | 46,9 | 54,6 | 57,4 | 66,3 | 74,7 | 87,1 | 93,6 | 108,9 | 127,4 |
| Input power | E | kW | 20,4 | 23,0 | 25,5 | 29,4 | 40,1 | 46,0 | 49,1 | 56,5 | 58,8 | 67,2 | 79,8 | 90,2 | 97,1 | 112,6 | 128,0 |
| Cooling total insult assessed | А | Α | 36,0 | 41,0 | 45,0 | 56,0 | 68,0 | 77,0 | 81,0 | 96,0 | 112,0 | 121,0 | 136,0 | 155,0 | 162,0 | 192,0 | 219,0 |
| Cooling total input current | E | Α | 36,0 | 40,0 | 45,0 | 55,0 | 69,0 | 77,0 | 83,0 | 95,0 | 111,0 | 121,0 | 139,0 | 153,0 | 166,0 | 191,0 | 218,0 |
| rrp. | А | W/W | 2,72 | 2,69 | 2,73 | 2,75 | 2,72 | 2,66 | 2,69 | 2,63 | 2,75 | 2,73 | 2,70 | 2,67 | 2,70 | 2,64 | 2,48 |
| EER | E | W/W | 2,55 | 2,53 | 2,49 | 2,55 | 2,44 | 2,40 | 2,41 | 2,42 | 2,55 | 2,56 | 2,42 | 2,48 | 2,49 | 2,43 | 2,38 |
| Water flammate anatom aida | А | l/h | 9368 | 10396 | 11480 | 13535 | 17638 | 19855 | 21700 | 24691 | 27213 | 31158 | 34751 | 40001 | 43480 | 49382 | 54436 |
| Water flow rate system side | Е | l/h | 8967 | 10021 | 10934 | 12905 | 16829 | 19040 | 20401 | 23542 | 25847 | 29620 | 33162 | 38500 | 41662 | 47091 | 52474 |
| Down day was a side | A | kPa | 21 | 25 | 23 | 30 | 24 | 29 | 35 | 35 | 26 | 25 | 34 | 34 | 36 | 38 | 44 |
| Pressure drop system side | Е | kPa | 20 | 24 | 20 | 27 | 20 | 25 | 29 | 30 | 24 | 25 | 33 | 35 | 38 | 42 | 53 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | | | |
| Heating capacity | A,E | kW | 56,4 | 63,5 | 70,7 | 82,6 | 109,8 | 122,4 | 137,1 | 156,5 | 168,5 | 193,6 | 218,3 | 244,7 | 273,4 | 312,4 | 348,1 |
| Input power | A,E | kW | 19,1 | 21,9 | 24,0 | 27,8 | 37,0 | 41,5 | 46,4 | 53,7 | 55,9 | 65,1 | 73,6 | 82,9 | 91,5 | 105,2 | 118,1 |
| Heating total input current | A,E | Α | 36,0 | 40,0 | 44,0 | 54,0 | 65,0 | 74,0 | 78,0 | 91,0 | 105,0 | 114,0 | 129,0 | 145,0 | 153,0 | 179,0 | 199,0 |
| COP | A,E | W/W | 2,95 | 2,90 | 2,95 | 2,97 | 2,97 | 2,95 | 2,95 | 2,91 | 3,01 | 2,97 | 2,97 | 2,95 | 2,99 | 2,97 | 2,95 |
| Water flow rate system side | A,E | l/h | 9781 | 11023 | 12266 | 14321 | 19050 | 21235 | 23760 | 27154 | 29225 | 33591 | 37889 | 42470 | 47456 | 54236 | 60425 |
| Pressure drop system side | A,E | kPa | 22 | 27 | 25 | 32 | 27 | 32 | 40 | 41 | 29 | 28 | 38 | 37 | 41 | 43 | 52 |
| (1) D FN 14511 2022 H | | 1.) 1206 / 7 | | 2506 | | | | | | | | | | | | | $\overline{}$ |

ENERGY DATA

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|---|---------------|------------|-------------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving water t | emp (UE n° 2 | 2016/2281) | | | | | | | | | | | | | | | |
| SEER | Α | W/W | 4,48 | 4,50 | 4,52 | 4,71 | 4,89 | 4,74 | 4,65 | 4,52 | 4,38 | 4,33 | 4,51 | 4,47 | 4,36 | 4,29 | 4,08 |
| JEER | E | W/W | 4,16 | 4,16 | 4,08 | 4,50 | 4,29 | 4,23 | 4,29 | 4,22 | 4,20 | 4,14 | 3,98 | 4,21 | 4,13 | 3,99 | 3,86 |
| ncc | Α | % | 176,10 | 177,10 | 177,80 | 185,20 | 192,50 | 186,40 | 183,10 | 177,70 | 172,20 | 170,30 | 177,50 | 175,80 | 171,40 | 168,70 | 160,00 |
| ηςς | E | % | 163,20 | 163,50 | 160,30 | 177,10 | 168,50 | 166,00 | 168,40 | 165,90 | 165,00 | 162,60 | 156,20 | 165,30 | 162,20 | 156,40 | 151,40 |
| UE 811/2013 performance in average am | bient conditi | ons (avera | ge) - 35 °C | - Pdesign | h ≤ 70 kV | V (1) | | | | | | | | | | | |
| Pdesignh | A,E | kW | 52 | 59 | 66 | - | - | - | - | - | - | - | - | - | - | - | - |
| SCOP | A,E | W/W | 3,28 | 3,20 | 3,28 | - | - | - | - | - | - | - | - | - | - | - | - |
| ηsh | A,E | % | 128,00 | 125,00 | 128,00 | - | - | - | - | - | - | - | - | - | - | - | - |
| Efficiency energy class | A,E | | A+ | A+ | A+ | - | - | - | - | - | - | - | - | - | - | - | - |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRICAL DATA

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 52,2 | 55,6 | 62,0 | 71,4 | 103,0 | 110,9 | 118,8 | 131,8 | 142,8 | 167,1 | 206,0 | 221,8 | 237,6 | 263,6 | 289,6 |
| Peak current (LRA) | A,E | A | 127,9 | 129,6 | 132,8 | 215,4 | 272,9 | 272,9 | 280,8 | 357,8 | 286,8 | 355,6 | 375,9 | 383,8 | 399,6 | 489,6 | 515,6 |

GENERAL TECHNICAL DATA

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|----------------------------|-----|------|-------|-------|-------|-------|-------|--------|--------|-------------|-------|-------|-------|-------|-------|--------|--------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Scroll | | | | | | | |
| Compressor regulation | A,E | Туре | | | | | | | | On-Off | | | | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | | | | R410A | | | | | | | |
| Refrigerant charge (1) | A,E | kg | 9,2 | 9,5 | 11,0 | 11,0 | 18,5 | 20,0 | 25,0 | 25,0 | 23,0 | 32,0 | 42,0 | 42,0 | 50,0 | 50,0 | 50,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | E | Brazed plat | e | | | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E | Type | | | | | | | G | rooved join | ts | | | | | | |
| Sizes (in/out) | A,E | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Plug-fun | | | | | | | |
| Fan motor | A,E | type | | | | | | | ECI | nverter mo | tors | | | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 8 | 8 | 8 | 8 | 8 |
| Air Garranda | Α | m³/h | 23000 | 26500 | 25000 | 27500 | 42000 | 47000 | 44000 | 50000 | 53000 | 64500 | 84000 | 94000 | 88400 | 102000 | 102000 |
| Air flow rate | E | m³/h | 17000 | 19800 | 17200 | 20600 | 30000 | 35000 | 31400 | 38200 | 41000 | 48900 | 60000 | 70800 | 64000 | 77600 | 88000 |
| High static pressure | A,E | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |

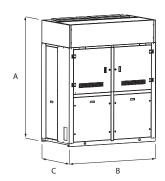
⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

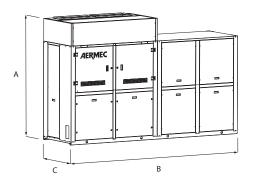
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
|--|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (2 |) | | | | | | | | | | | | | | | | |
| Cound nouse lovel | Α | dB(A) | 84,1 | 87,9 | 86,3 | 88,9 | 85,2 | 87,9 | 86,4 | 89,5 | 91,9 | 86,7 | 88,2 | 90,9 | 89,4 | 92,5 | 92,5 |
| Sound power level - | E | dB(A) | 77,3 | 80,5 | 77,6 | 81,5 | 78,5 | 81,3 | 79,4 | 83,2 | 84,5 | 79,4 | 81,5 | 84,3 | 82,4 | 86,2 | 86,2 |
| Count are count level (10 m) | A | dB(A) | 52,4 | 56,1 | 54,6 | 57,1 | 53,3 | 56,0 | 54,5 | 57,5 | 59,9 | 54,5 | 55,9 | 58,6 | 57,1 | 60,2 | 60,2 |
| Sound pressure level (10 m) | Е | dB(A) | 45.5 | 48.7 | 45.8 | 49.7 | 46.6 | 49,4 | 47.5 | 51.3 | 52.5 | 47,3 | 49.2 | 52.0 | 50,1 | 53.9 | 53.9 |

DIMENSIONS





| <u></u> | | | **** | | | 43.54 | 0550 | | 0450 | 0475 | | | | | 4000 | 4400 | 4250 |
|-------------------------------------|-----------------|----|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Size | | | 0280 | 0300 | 0330 | 0350 | 0550 | 0600 | 0650 | 0675 | 0700 | 0750 | 0800 | 0900 | 1000 | 1100 | 1250 |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| В | A,E | mm | 1750 | 1750 | 1750 | 1750 | 3150 | 3150 | 3150 | 3150 | 3500 | 4900 | 6300 | 6300 | 6300 | 6300 | 6300 |
| C | A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Empty weight | A,E | kg | 790 | 790 | 828 | 832 | 1452 | 1456 | 1492 | 1507 | 1586 | 2194 | 2768 | 2783 | 2863 | 2889 | 2903 |
| Dimensions and weights with pump/s | S | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| В | A,E | mm | 2500 | 2500 | 2500 | 2500 | 3150 | 3150 | 3150 | 3150 | 4250 | 4900 | 6300 | 6300 | 6300 | 6300 | 6300 |
| C | A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Dimensions and weights with storage | e tank and pump | /s | | | | | | | | | | | | | | | |
| A | A,E | mm | 2154 | 2154 | 2154 | 2154 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 | 2196 |
| В | A,E | mm | 3400 | 3400 | 3400 | 3400 | 4150 | 4150 | 4150 | 4150 | 5250 | 5900 | 7300 | 7300 | 7300 | 7300 | 7300 |
| C | A,E | mm | 950 | 950 | 950 | 950 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).



















NSM 1402-9603

Air-water chiller

Cooling capacity 302 ÷ 2100 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- HP floating: ESEER +5% with inverter fans





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with high-efficiency screw compressors axial fans, microchannel external coils and plant side shell and tube heat exchanger. In the unit with desuperheater, it is also possible to produce free-hot water

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to $51\,^{\circ}\text{C}$ external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Inverter fans

Standard inverter fans for sizes and versions (°) from 2002 to 9603, optional for other sizes and versions. Option for all configurations.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

 As standard from size 5202÷6402 and 8403÷9603, optional for all other sizes.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

www.aermec.com

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: available for all models with inverter fans or with DCPX. Allows, with continuous fan modulation, to optimize the operation of the unit in any operating point, ensuring an increase in the energy efficiency at partial load. ESEER up to +5% with invertor face.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 \mathbf{x} \mathbf{n}° **3:** RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|----------------|-------------|---------|------|-------------|------|---------|----------|------|------------|------|----------|-----------|------|------------|
| AER485P1 x n° 2 (1) | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E,L,N,U | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,A,E,L,N,U | • | | • | • | • | • | • | • | | | | • | • | • |
| MULTICHILLER_EVO | °,A,E,L,N,U | • | | • | • | • | | • | • | • | | • | • | • | |
| PRV3 | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Model | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 2 640 |)2 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 x n° 2 (1) | °,A,E,L,N,U | • | • | • | • | • | • | • | | | | | | | |
| | °,A,L | | | | | | | | | • | • | • | • | • | • |
| AER485P1 x n° 3 (1) | E,U | | | | | | | | | | • | • | • | | |
| | N | | | | | | | | | • | | | | | |
| | °,A,L | • | • | • | • | • | • | | | • | • | • | • | • | • |
| AERBACP | E,U | • | • | • | • | • | • | | | • | • | • | • | | |
| | N | • | • | • | • | • | • | | | • | | | | | |
| | °,A,L | • | • | • | • | • | • | • | | • | • | • | • | • | • |
| AERNET | E,U | • | • | • | • | • | • | | | • | • | • | • | | |
| | N | • | • | • | • | • | • | • | | • | | | | | |
| | °,A,L | • | • | • | • | • | • | | | • | • | • | • | • | • |
| MULTICHILLER_EVO | E,U | • | • | • | • | • | • | | | • | • | • | • | | |
| | N | • | • | • | • | • | • | • | | • | | | | | |
| | °,A,L | • | • | • | • | • | • | | | • | • | • | • | • | • |
| PRV3 | E,U | • | • | • | • | • | • | • | | • | • | • | • | | |
| | N | • | • | • | • | • | • | • | | • | | | | | |
| (1) x Indicates the quantity of accesso | ries to match. | | | | | | | | | | | | | | |
| Ver | 1402 | 1602 | 180 |)2 | 2002 | 2 | 202 | 2352 | | 2502 | | 2652 | 2802 | | 3002 |
| Fans: M | | | | | | | | | | | | | | | |
| 0 | DCPX110 | DCPX110 | DCPX | | DCPX110 | | PX110 | DCPX11 | | DCPX110 | | CPX111 | DCPX111 | | DCPX112 |
| A | DCPX111 | DCPX111 | DCPX | 111 | DCPX111 | | PX112 | DCPX11 | | DCPX112 | . D | CPX113 | DCPX113 | } | DCPX113 |
| E,L,N | As standard | As standard | As stan | | As standard | | tandard | As stand | | As standar | | standard | As standa | | s standard |
| U | DCPX111 | DCPX111 | DCPX | 112 | DCPX112 | DCI | PX113 | DCPX11 | 3 | DCPX114 | L D | CPX114 | DCPX114 | | DCPX114 |
| Ver | 3202 | 3402 | 360 |)2 | 3902 | 4 | 202 | 4502 | | 4802 | | 5202 | 5602 | | 6002 |
| Fans: M | · | | | | | | | | | | | | | | |
| 0 | DCPX112 | DCPX112 | DCPX | 112 | DCPX113 | DCI | PX113 | DCPX11 | 4 | DCPX114 | D | CPX115 | DCPX115 | , | DCPX115 |
| A | DCPX113 | DCPX114 | DCPX | 114 | DCPX115 | DCI | PX115 | DCPX11 | 6 | DCPX116 | D | CPX116 | DCPX117 | ' | DCPX118 |
| | | | | | | | | | | | | | | | |

| U | DCPX114 | DCPX115 DCPX115 | DCPX116 | DCPX117 DCPX1 | 17 DCPX118 | DCPX119 DCF | X130 DCPX131 |
|---------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Ver | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Fans: M | | | | | | | |
| 0 | DCPX116 | DCPX135+DCPX113 | DCPX135+DCPX113 | DCPX125+DCPX114 | DCPX114+DCPX136 | DCPX114+DCPX136 | DCPX114+DCPX136 |
| A | DCPX118 | DCPX115+DCPX136 | DCPX115+DCPX136 | DCPX116+DCPX136 | DCPX116+DCPX136 | DCPX117+DCPX136 | - |
| E | As standard | As standard | As standard | As standard | As standard | - | - |
| L | As standard | As standard | As standard | As standard | As standard | As standard | - |
| N | As standard | As standard | - | - | - | - | - |
| U | DCPX132 | DCPX116+DCPX137 | DCPX117+DCPX137 | DCPX117+DCPX137 | DCPX118+DCPX137 | - | - |

As standard

The accessory cannot be fitted on the configurations indicated with -

As standard

As standard

As standard

As standard

As standard

As standard

F.N

Antivibration

| Antivioration | | | | | | | | | | | | | | |
|---|-----------------|---------------|---------------|---------------|---------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Integrated hydronic kit: 00, DA, DB, DC | , DD, DE, DF, D | G, DH, DI, DJ | , PA, PB, PC, | PD, PE, PF, I | PG, PH, PI, P | J, TF, TG, TH, | TI, TJ | | | | | | | |
| 0 | AVX900 | AVX900 | AVX900 | AVX904 | AVX904 | AVX904 | AVX904 | AVX904 | AVX904 | AVX959 | AVX959 | AVX960 | AVX960 | AVX911 |
| A,L | AVX901 | AVX901 | AVX901 | AVX904 | AVX959 | AVX959 | AVX959 | AVX903 | AVX903 | AVX903 | AVX903 | AVX909 | AVX909 | AVX907 |
| E,U | AVX901 | AVX901 | AVX959 | AVX959 | AVX959 | AVX903 | AVX903 | AVX906 | AVX906 | AVX906 | AVX906 | AVX907 | AVX907 | AVX912 |
| N | AVX959 | AVX959 | AVX903 | AVX903 | AVX903 | AVX906 | AVX906 | AVX907 | AVX907 | AVX907 | AVX907 | AVX912 | AVX910 | AVX913 |

| 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------|--|---|--|--|---|---|--|---|---|---|--|---|
| , TI, TJ | | | | | | | | | | | | |
| AVX911 | AVX909 | AVX909 | AVX907 | AVX907 | AVX907 | AVX912 | AVX914 | AVX914 | AVX915 | AVX916 | AVX916 | AVX916 |
| AVX907 | AVX912 | AVX912 | AVX912 | AVX910 | AVX913 | AVX913 | AVX924 | AVX924 | AVX925 | AVX925 | AVX927 | AVX926 |
| AVX910 | AVX910 | AVX913 | AVX913 | AVX920 | AVX917 | AVX918 | AVX925 | AVX927 | AVX927 | AVX928 | - | - |
| AVX913 | AVX917 | AVX918 | AVX919 | AVX921 | AVX921 | AVX921 | AVX926 | - | - | - | - | - |
| D, DE, PA, PB, PC | , PD, PE | | | | | | | | | | | |
| AVX911 | - | - | - | - | - | - | - | - | - | - | - | - |
| AVX907 | - | - | - | - | - | - | - | - | - | - | - | - |
| AVX910 | - | - | - | - | - | - | - | - | - | - | - | - |
| AVX913 | - | - | - | - | - | - | - | - | - | - | - | - |
| I, DJ, PF, PG, PH, | PI, PJ | | | | | | | | | | | |
| AVX911 | AVX909 | AVX909 | AVX907 | AVX907 | AVX907 | AVX912 | - | - | - | - | - | - |
| AVX907 | AVX912 | AVX912 | AVX912 | AVX910 | AVX913 | AVX913 | - | - | - | - | - | - |
| AVX910 | AVX910 | AVX913 | AVX913 | AVX920 | AVX917 | AVX918 | - | - | - | - | - | - |
| AVX913 | AVX917 | AVX918 | AVX919 | AVX921 | AVX921 | AVX921 | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| | AVX911 AVX907 AVX910 AVX913 D, DE, PA, PB, PC AVX911 AVX907 AVX910 AVX913 II, DJ, PF, PG, PH, AVX907 AVX910 AVX911 AVX907 AVX911 AVX907 AVX910 | AVX911 AVX909 AVX907 AVX912 AVX910 AVX910 AVX913 AVX917 ID, DE, PA, PB, PC, PD, PE AVX911 - AVX907 - AVX910 - AVX913 - IJ, DJ, PF, PG, PH, PI, PJ AVX911 AVX909 AVX907 AVX912 AVX910 AVX910 | AVX911 AVX909 AVX909 AVX907 AVX912 AVX912 AVX910 AVX910 AVX913 AVX913 AVX917 AVX918 ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX913 IJ, DJ, PF, PG, PH, PI, PJ AVX907 AVX912 AVX912 AVX910 AVX910 AVX913 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX912 AVX912 AVX912 AVX910 AVX910 AVX913 AVX913 AVX913 AVX917 AVX918 AVX919 ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX913 IJ, DJ, PF, PG, PH, PI, PJ AVX911 AVX909 AVX909 AVX907 AVX907 AVX912 AVX912 AVX910 AVX910 AVX913 AVX913 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX912 AVX912 AVX912 AVX910 AVX910 AVX910 AVX913 AVX913 AVX920 AVX913 AVX917 AVX918 AVX919 AVX921 ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX913 AVX913 AVX911 AVX913 AVX913 AVX913 AVX914 AVX915 AVX915 AVX915 AVX916 AVX917 AVX917 AVX917 AVX907 AVX907 AVX907 AVX907 AVX907 AVX910 AVX912 AVX912 AVX910 AVX910 AVX910 AVX913 AVX913 AVX920 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX910 AVX910 AVX913 AVX913 AVX913 AVX920 AVX917 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 ID, DE, PA, PB, PC, PD, PE AVX911 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX912 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX910 AVX910 AVX913 AVX913 AVX913 AVX913 AVX913 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 ID, DE, PA, PB, PC, PD, PE AVX911 AVX910 - AVX910 - AVX911 AVX907 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX907 AVX912 AVX914 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX924 AVX910 AVX910 AVX913 AVX913 AVX920 AVX917 AVX918 AVX925 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 AVX926 ID, DE, PA, PB, PC, PD, PE AVX911 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX912 AVX914 AVX914 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX924 AVX924 AVX910 AVX910 AVX913 AVX913 AVX913 AVX920 AVX917 AVX918 AVX925 AVX927 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 AVX926 - ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX913 AVX913 AVX914 AVX926 II, DJ, PF, PG, PH, PI, PJ AVX917 AVX909 AVX909 AVX907 AVX907 AVX907 AVX912 AVX907 AVX912 AVX912 AVX912 AVX913 AVX913 AVX907 AVX910 AVX910 AVX913 AVX913 AVX913 AVX918 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX912 AVX914 AVX914 AVX915 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX924 AVX924 AVX925 AVX910 AVX910 AVX913 AVX913 AVX913 AVX920 AVX917 AVX918 AVX925 AVX927 AVX927 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 AVX926 ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX910 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX907 AVX912 AVX914 AVX914 AVX915 AVX916 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX913 AVX924 AVX924 AVX925 AVX925 AVX910 AVX910 AVX913 AVX913 AVX913 AVX920 AVX917 AVX918 AVX925 AVX927 AVX928 AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 AVX926 ID, DE, PA, PB, PC, PD, PE AVX911 AVX907 AVX910 AVX911 | AVX911 AVX909 AVX909 AVX907 AVX907 AVX907 AVX907 AVX912 AVX914 AVX914 AVX915 AVX916 AVX916 AVX907 AVX912 AVX912 AVX912 AVX910 AVX913 AVX913 AVX913 AVX924 AVX924 AVX925 AVX925 AVX927 AVX910 AVX910 AVX913 AVX913 AVX913 AVX920 AVX917 AVX918 AVX925 AVX927 AVX928 - AVX913 AVX917 AVX918 AVX919 AVX921 AVX921 AVX921 AVX926 D, DE, PA, PB, PC, PD, PE AVX911 AVX907 |

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352Q | RIFNSM2502Q | RIFNSM2652Q | RIFNSM2802Q |
| A,L | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352Q | RIFNSM2502Q | RIFNSM2652Q | RIFNSM2802C |
| E | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| N | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802C | RIFNSM2002Q | RIFNSM2202C | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| U | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002C | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | RIFNSM3002Q | RIFNSM3202Q | RIFNSM3402Q | RIFNSM3602Q | RIFNSM3902C | RIFNSM4202C | RIFNSM4502C | RIFNSM4802C | RIFNSM5202C |
| A,E,L,U | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | RIFNSM4502C | RIFNSM4802C | RIFNSM5202C |
| N | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | - | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-------|-------------|-------------|-------------|------|------|------|------|------|------|
| °,A,L | RIFNSM5602C | RIFNSM6002C | RIFNSM6402C | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Grids

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|------|------|-------|------|------|------|------|------|------|
| ٥ | GP3V | GP3V | GP3V | GP4V | GP4V | GP4V | GP4V | GP4V | GP4V |
| A,L | GP4V | GP4V | GP4VN | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V |
| E,U | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V |
| N | GP5V | GP5V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V |

 ${\bf A}$ grey background indicates the accessory must be assembled in the factory

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|-----|------|------|------|-------|-------|-------|-----------|-----------|-----------|
| 0 | GP5V | GP5V | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V | GP8V |
| A,L | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9V | GP9V | GP9V |
| E,U | GP7V | GP7V | GP8V | GP8V | GP9V | GP10V | GP10V | GP11V | GP11V |
| N | GP8V | GP8V | GP9V | GP10V | GP11V | GP11V | GP6V+GP7V | GP7V+GP7V | GP7V+GP8V |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 0 | GP8V | GP8V | GP9V | GP9V | GP9V | GP10V | GP11V | GP11V | GP11V |
| A,L | GP11V | GP11V | GP11V | GP4V+GP8V | GP4V+GP8V | GP5V+GP9V | GP5V+GP9V | GP5V+GP10V | GP6V+GP11V |
| E,U | GP6V+GP6V | GP6V+GP7V | GP7V+GP7V | GP5V+GP9V | GP5V+GP10V | GP5V+GP10V | GP6V+GP11V | - | - |
| N N | GP8V+GP8V | GP8V+GP8V | GP8V+GP8V | GP6V+GP11V | - | - | - | - | _ |

A grey background indicates the accessory must be assembled in the factory

Heater exchangers

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,A,L | KRS22 | KRS22 | KRS23 |
| E,N,U | KRS23 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|-------------|
| 0 | KRS23 | KRS24 | KRS24 |
| A,E,L | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 |
| N | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS23 | KRS23+KRS23 |
| U | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS23 | KRS24 | KRS24 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | KRS24 |
| A,L | KRS24 | KRS24 | KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 |
| E,U | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | - | - |
| N | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | - | - | - | - | - |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fiel | ld | Description |
|------|------|--|
| 1,2, | ,3 | NSM |
| 4,5, | ,6,7 | Size 1402, 1602, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602 3902, 4202, 4502, 4802, 5202, 5602, 6002, 6402, 6503, 6703, 6903, 7203, 8403 9603 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve (1) |
| | Χ | Electronic thermostatic expansion valve (2) |
| | Υ | Low temperature mechanic thermostatic valve (3) |
| | Z | Low temperature electronic thermostatic valve (3) |
| 9 | | Model |
| | 0 | Cooling only |
| | C | Motocondensing unit (4) |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (5) |
| | T | With total recovery (6) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| | L | Standard silenced |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | | Coils |
| | 0 | Aluminium microchannel |
| | - | Copper-aluminium |
| | 0 | Coated aluminium microchannel |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | V | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | J | Inverter |
| | М | Oversized (7) |
| 14 | 0 | Power supply |
| | | 400V~3 50Hz with fuses |
| | 2 | 230V~3 50Hz with fuses |
| | 4 | 230V~3 50Hz with magnet circuit breakers |
| | 5 | 500V~3 50Hz with fuses |
| | 8 | 400V~3 50Hz with magnet circuit breakers |
| | 9 | 500V~3 50Hz with magnet circuit breakers |
| | | |

| Field | Description |
|-------|--------------------------------|
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit |
| 00 | Without hydronic kit |
| | Kit with n° 1 pump |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump |
| | Kit with 2 pumps |
| TF | Double pump F |
| TG | Double pump G (8) |
| TH | Double pump H (8) |
| TI | Double pump I (8) |
| TJ | Double pump J (8) |
| | |

- (1) Water produced from 4 °C ÷ 15 °C
 (2) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ -8 °C
 (4) The motor condensing units are not configurable with option D and T, and with the integrated hydronic kit
 (5) The temperature of the water in the heat exchanger inlet must never drop below 35 °C.
 (6) The models 1402° 1602° 1802° cannot have total recovery, which is available for all the other sizes and versions. If it is necessary to have total recovery as well as the hydronic kit, feasibility must be evaluated when ordering.
- when ordering.

 (7) The units from 2652 to 9603 in the version "0" and from 5202 to 6402 and unit 9603 version "L" and "A" are not available with increased fans "M"

 (8) The unit from 5603 to 9603 can only have hydronic kit "TF TG TH-TI TJ"

PERFORMANCE SPECIFICATIONS

NSM - °

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 307,5 | 348,9 | 397,0 | 450,3 | 489,4 | 524,7 | 543,8 | 577,3 | 613,8 | 680,5 | 725,1 | 770,1 | 813,8 | 906,1 |
| Input power | kW | 104,8 | 121,0 | 139,0 | 152,8 | 166,4 | 180,6 | 193,9 | 210,5 | 226,5 | 232,7 | 247,5 | 272,1 | 298,3 | 316,2 |
| Cooling total input current | А | 182,0 | 207,0 | 229,0 | 257,0 | 281,0 | 306,0 | 329,0 | 356,0 | 381,0 | 392,0 | 414,0 | 447,0 | 484,0 | 520,0 |
| EER | W/W | 2,93 | 2,88 | 2,86 | 2,95 | 2,94 | 2,91 | 2,81 | 2,74 | 2,71 | 2,92 | 2,93 | 2,83 | 2,73 | 2,87 |
| Water flow rate system side | l/h | 52881 | 59999 | 68270 | 77459 | 84185 | 90223 | 93509 | 99261 | 105543 | 117009 | 124685 | 132413 | 139916 | 155801 |
| Pressure drop system side | kPa | 27 | 36 | 38 | 49 | 57 | 26 | 28 | 33 | 35 | 39 | 42 | 47 | 38 | 46 |

(1) Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM°

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|------------|------------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 958,5 | 1051,2 | 1099,1 | 1168,1 | 1195,0 | 1237,7 | 1327,6 | 1393,8 | 1439,8 | 1578,6 (2) | 1669,7 (2) | 1742,2 (2) | 1859,9 (2) |
| Input power | kW | 345,9 | 360,3 | 388,1 | 403,4 | 430,8 | 453,1 | 460,3 | 488,6 | 517,2 | 559,8 | 575,1 | 659,2 | 730,6 |
| Cooling total input current | А | 573,0 | 597,0 | 641,0 | 668,0 | 712,0 | 749,0 | 766,0 | 806,0 | 857,0 | 927,0 | 966,0 | 1103,0 | 1230,0 |
| EER | W/W | 2,77 | 2,92 | 2,83 | 2,90 | 2,77 | 2,73 | 2,88 | 2,85 | 2,78 | 2,82 | 2,90 | 2,64 | 2,55 |
| Water flow rate system side | l/h | 164794 | 180726 | 188953 | 200816 | 205451 | 212795 | 228246 | 239604 | 247511 | 271348 | 287011 | 299461 | 319697 |
| Pressure drop system side | kPa | 41 | 48 | 42 | 46 | 48 | 55 | 62 | 44 | 46 | 30 | 33 | 36 | 40 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSM - L

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 302,4 | 344,0 | 392,7 | 428,1 | 490,9 | 513,8 | 537,4 | 583,4 | 602,8 | 664,4 | 709,1 | 771,0 | 826,1 | 908,8 |
| Input power | kW | 102,7 | 117,2 | 135,7 | 155,9 | 167,8 | 179,4 | 192,5 | 202,9 | 215,3 | 238,3 | 261,2 | 265,4 | 296,6 | 316,1 |
| Cooling total input current | A | 173,0 | 196,0 | 218,0 | 254,0 | 277,0 | 297,0 | 319,0 | 336,0 | 354,0 | 391,0 | 426,0 | 429,0 | 473,0 | 509,0 |
| EER | W/W | 2,94 | 2,94 | 2,89 | 2,75 | 2,93 | 2,86 | 2,79 | 2,88 | 2,80 | 2,79 | 2,72 | 2,91 | 2,79 | 2,88 |
| Water flow rate system side | l/h | 52016 | 59162 | 67531 | 73600 | 84402 | 88342 | 92402 | 100313 | 103652 | 114244 | 121903 | 132545 | 142018 | 156242 |
| Pressure drop system side | kPa | 27 | 36 | 38 | 18 | 24 | 25 | 28 | 33 | 31 | 36 | 23 | 23 | 25 | 32 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM - L

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|------------|------------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 949,7 | 1032,5 | 1076,9 | 1122,7 | 1183,7 | 1254,5 | 1295,6 | 1395,1 | 1436,6 | 1605,1 (2) | 1649,4 (2) | 1758,0 (2) | 1946,7 (2) |
| Input power | kW | 348,7 | 365,9 | 395,0 | 428,8 | 442,3 | 453,2 | 476,4 | 491,5 | 523,6 | 556,9 | 586,7 | 660,2 | 713,5 |
| Cooling total input current | A | 567,0 | 593,0 | 638,0 | 693,0 | 716,0 | 736,0 | 776,0 | 793,0 | 849,0 | 914,0 | 960,0 | 1067,0 | 1163,0 |
| EER | W/W | 2,72 | 2,82 | 2,73 | 2,62 | 2,68 | 2,77 | 2,72 | 2,84 | 2,74 | 2,88 | 2,81 | 2,66 | 2,73 |
| Water flow rate system side | l/h | 163268 | 177512 | 185148 | 193004 | 203496 | 215669 | 222723 | 239820 | 246956 | 275911 | 283536 | 302181 | 334622 |
| Pressure drop system side | kPa | 34 | 44 | 46 | 33 | 36 | 42 | 45 | 33 | 34 | 45 | 47 | 34 | 45 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSM - A

| | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|-----------------------|---|--|---|--|---|--|---|---|---|---|---|---|--|
| | | | | | | | | | | | | | | |
| kW | 315,6 | 360,2 | 415,2 | 461,4 | 509,5 | 544,9 | 576,9 | 620,9 | 658,9 | 699,4 | 741,7 | 800,6 | 884,3 | 955,2 |
| kW | 99,0 | 113,7 | 133,7 | 148,3 | 161,8 | 173,6 | 183,3 | 197,5 | 208,3 | 223,6 | 237,4 | 253,4 | 281,2 | 303,8 |
| Α | 175,0 | 198,0 | 223,0 | 250,0 | 278,0 | 298,0 | 314,0 | 340,0 | 355,0 | 378,0 | 399,0 | 421,0 | 459,0 | 502,0 |
| W/W | 3,19 | 3,17 | 3,11 | 3,11 | 3,15 | 3,14 | 3,15 | 3,14 | 3,16 | 3,13 | 3,12 | 3,16 | 3,15 | 3,14 |
| l/h | 54280 | 61954 | 71417 | 79331 | 87600 | 93687 | 99196 | 106766 | 113293 | 120259 | 127516 | 137633 | 152015 | 164211 |
| kPa | 30 | 39 | 43 | 21 | 26 | 28 | 32 | 37 | 37 | 40 | 25 | 25 | 29 | 36 |
| | kW A W/W I/h | kW 315,6 kW 99,0 A 175,0 W/W 3,19 I/h 54280 | kW 315,6 360,2 kW 99,0 113,7 A 175,0 198,0 W/W 3,19 3,17 l/h 54280 61954 | kW 315,6 360,2 415,2 kW 99,0 113,7 133,7 A 175,0 198,0 223,0 W/W 3,19 3,17 3,11 I/h 54280 61954 71417 | kW 315,6 360,2 415,2 461,4 kW 99,0 113,7 133,7 148,3 A 175,0 198,0 223,0 250,0 W/W 3,19 3,17 3,11 3,11 I/h 54280 61954 71417 79331 | kW 315,6 360,2 415,2 461,4 509,5 kW 99,0 113,7 133,7 148,3 161,8 A 175,0 198,0 223,0 250,0 278,0 W/W 3,19 3,17 3,11 3,11 3,15 I/h 54280 61954 71417 79331 87600 | kW 315,6 360,2 415,2 461,4 509,5 544,9 kW 99,0 113,7 133,7 148,3 161,8 173,6 A 175,0 198,0 223,0 250,0 278,0 298,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 I/h 54280 61954 71417 79331 87600 93687 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 I/h 54280 61954 71417 79331 87600 93687 99196 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 3,14 I/h 54280 61954 71417 79331 87600 93687 99196 106766 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 658,9 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 208,3 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 355,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 3,14 3,16 I/h 54280 61954 71417 79331 87600 93687 99196 106766 113293 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 658,9 699,4 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 208,3 223,6 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 355,0 378,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 3,14 3,16 3,13 I/h 54280 61954 71417 79331 87600 93687 99196 106766 113293 120259 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 658,9 699,4 741,7 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 208,3 223,6 237,4 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 355,0 378,0 399,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 3,14 3,16 3,13 3,12 I/h 54280 61954 71417 79331 87600 93687 99196 106766 113293 120259 127516 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 658,9 699,4 741,7 800,6 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 208,3 223,6 237,4 253,4 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 355,0 378,0 399,0 421,0 W/W 3,19 3,17 3,11 3,11 3,15 3,14 3,15 3,14 3,16 3,13 3,12 3,16 I/h 54280 61954 71417 79331 87600 93687 99196 106766 113293 120259 127516 137633 | kW 315,6 360,2 415,2 461,4 509,5 544,9 576,9 620,9 658,9 699,4 741,7 800,6 884,3 kW 99,0 113,7 133,7 148,3 161,8 173,6 183,3 197,5 208,3 223,6 237,4 253,4 281,2 A 175,0 198,0 223,0 250,0 278,0 298,0 314,0 340,0 355,0 378,0 399,0 421,0 459,0 W/W 3,19 3,17 3,11 3,15 3,14 3,15 3,14 3,16 3,13 3,12 3,16 3,15 I/h 54280 61954 71417 79331 87600 93687 99196 106766 113293 120259 127516 137633 152015 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM - A

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|------------|------------|------------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1021,7 | 1084,5 | 1160,1 | 1213,2 | 1275,8 | 1352,3 | 1402,7 | 1462,2 | 1531,9 (2) | 1682,9 (2) | 1753,4 (2) | 1908,6 (2) | 2106,4 (2) |
| Input power | kW | 328,5 | 347,0 | 371,7 | 389,2 | 410,5 | 432,6 | 451,5 | 466,3 | 493,4 | 534,6 | 560,2 | 614,3 | 673,3 |
| Cooling total input current | A | 547,0 | 577,0 | 614,0 | 647,0 | 685,0 | 725,0 | 758,0 | 772,0 | 821,0 | 897,0 | 936,0 | 1017,0 | 1132,0 |
| EER | W/W | 3,11 | 3,13 | 3,12 | 3,12 | 3,11 | 3,13 | 3,11 | 3,14 | 3,10 | 3,15 | 3,13 | 3,11 | 3,13 |
| Water flow rate system side | l/h | 175657 | 186457 | 199460 | 208561 | 219327 | 232478 | 241144 | 251345 | 263330 | 289291 | 301409 | 328062 | 362058 |
| Pressure drop system side | kPa | 39 | 49 | 53 | 38 | 42 | 49 | 52 | 36 | 39 | 49 | 53 | 41 | 52 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSM - E

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 319,6 | 368,5 | 417,6 | 472,4 | 514,2 | 543,2 | 579,6 | 615,2 | 652,1 | 695,4 | 740,6 | 796,5 | 881,6 | 951,8 |
| Input power | kW | 101,7 | 117,4 | 132,3 | 150,0 | 165,4 | 173,7 | 186,0 | 194,8 | 210,1 | 224,0 | 238,6 | 255,4 | 283,8 | 305,7 |
| Cooling total input current | А | 171,0 | 196,0 | 214,0 | 245,0 | 272,0 | 288,0 | 309,0 | 324,0 | 347,0 | 367,0 | 389,0 | 411,0 | 450,0 | 490,0 |
| EER | W/W | 3,14 | 3,14 | 3,16 | 3,15 | 3,11 | 3,13 | 3,12 | 3,16 | 3,10 | 3,11 | 3,10 | 3,12 | 3,11 | 3,11 |
| Water flow rate system side | l/h | 54958 | 63367 | 71800 | 81228 | 88406 | 93396 | 99657 | 105762 | 112115 | 119555 | 127316 | 136926 | 151562 | 163628 |
| Pressure drop system side | kPa | 15 | 14 | 18 | 21 | 24 | 26 | 30 | 24 | 26 | 29 | 26 | 25 | 29 | 36 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM - E

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|------------|------|------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1018,9 | 1082,1 | 1159,1 | 1206,7 | 1265,2 | 1322,0 | 1389,6 | 1464,9 | 1528,1 (2) | 1670,1 (2) | 1752,6 (2) | - | - |
| Input power | kW | 325,9 | 347,4 | 370,9 | 387,8 | 405,6 | 422,2 | 443,7 | 469,4 | 489,0 | 534,5 | 563,0 | - | - |
| Cooling total input current | А | 529,0 | 560,0 | 598,0 | 628,0 | 656,0 | 686,0 | 724,0 | 764,0 | 792,0 | 861,0 | 898,0 | - | - |
| EER | W/W | 3,13 | 3,11 | 3,13 | 3,11 | 3,12 | 3,13 | 3,13 | 3,12 | 3,13 | 3,12 | 3,11 | - | - |
| Water flow rate system side | l/h | 175173 | 186051 | 199271 | 207449 | 217481 | 227238 | 238869 | 251810 | 262683 | 287098 | 301260 | - | - |
| Pressure drop system side | kPa | 40 | 49 | 36 | 38 | 24 | 24 | 29 | 35 | 40 | 49 | 45 | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSM - U

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 331,0 | 378,1 | 432,1 | 481,7 | 527,6 | 564,7 | 590,5 | 635,0 | 675,3 | 708,2 | 750,8 | 811,2 | 902,5 | 975,6 |
| Input power | kW | 98,6 | 113,5 | 128,9 | 145,7 | 161,0 | 169,2 | 178,4 | 190,3 | 204,2 | 214,1 | 228,0 | 245,2 | 273,3 | 294,9 |
| Cooling total input current | A | 173,0 | 197,0 | 218,0 | 248,0 | 275,0 | 292,0 | 309,0 | 330,0 | 352,0 | 366,0 | 387,0 | 410,0 | 448,0 | 490,0 |
| EER | W/W | 3,36 | 3,33 | 3,35 | 3,31 | 3,28 | 3,34 | 3,31 | 3,34 | 3,31 | 3,31 | 3,29 | 3,31 | 3,30 | 3,31 |
| Water flow rate system side | l/h | 56933 | 65026 | 74302 | 82821 | 90716 | 97089 | 101524 | 109164 | 116096 | 121764 | 129073 | 139455 | 155146 | 167724 |
| Pressure drop system side | kPa | 17 | 15 | 19 | 21 | 25 | 28 | 31 | 25 | 28 | 30 | 26 | 26 | 30 | 37 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM - U

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|------------|------------|------------|------------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1043,4 | 1104,7 | 1184,6 | 1234,0 | 1301,2 | 1360,8 | 1419,5 | 1505,6 (2) | 1579,3 (2) | 1693,4 (2) | 1772,6 (2) | - | - |
| Input power | kW | 315,2 | 336,8 | 357,4 | 380,5 | 400,8 | 418,5 | 427,8 | 453,3 | 472,9 | 522,1 | 540,7 | - | - |
| Cooling total input current | A | 530,0 | 562,0 | 597,0 | 634,0 | 671,0 | 706,0 | 725,0 | 762,0 | 795,0 | 870,0 | 896,0 | - | - |
| EER | W/W | 3,31 | 3,28 | 3,31 | 3,24 | 3,25 | 3,25 | 3,32 | 3,32 | 3,34 | 3,24 | 3,28 | - | - |
| Water flow rate system side | l/h | 179384 | 189926 | 203652 | 212142 | 223669 | 233910 | 244004 | 258808 | 271482 | 291091 | 304708 | - | - |
| Pressure drop system side | kPa | 42 | 51 | 38 | 40 | 26 | 26 | 31 | 37 | 42 | 51 | 46 | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSM - N

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 329,8 | 375,3 | 431,9 | 474,4 | 517,0 | 550,9 | 578,6 | 620,4 | 659,2 | 701,2 | 743,2 | 803,1 | 879,6 | 955,4 |
| Input power | kW | 98,1 | 113,1 | 127,6 | 144,8 | 160,4 | 168,7 | 178,2 | 190,1 | 204,5 | 217,3 | 231,1 | 247,6 | 270,2 | 292,6 |
| Cooling total input current | А | 165,0 | 190,0 | 207,0 | 237,0 | 265,0 | 281,0 | 297,0 | 317,0 | 339,0 | 358,0 | 378,0 | 399,0 | 429,0 | 470,0 |
| EER | W/W | 3,36 | 3,32 | 3,38 | 3,28 | 3,22 | 3,27 | 3,25 | 3,26 | 3,22 | 3,23 | 3,22 | 3,24 | 3,26 | 3,27 |
| Water flow rate system side | l/h | 56717 | 64546 | 74260 | 81573 | 88881 | 94723 | 99476 | 106664 | 113329 | 120551 | 127777 | 138054 | 151226 | 164260 |
| Pressure drop system side | kPa | 16 | 15 | 19 | 21 | 24 | 28 | 30 | 25 | 27 | 29 | 26 | 25 | 30 | 37 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSM - N

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1014,4 | 1086,1 | 1169,7 | 1219,0 | 1267,1 | 1317,0 | 1367,2 | 1452,6 | - | - | - | - | - |
| Input power | kW | 315,6 | 332,8 | 352,6 | 374,6 | 396,5 | 410,4 | 428,2 | 450,1 | - | - | - | - | - |
| Cooling total input current | A | 513,0 | 540,0 | 569,0 | 605,0 | 643,0 | 668,0 | 700,0 | 731,0 | - | - | - | - | - |
| EER | W/W | 3,21 | 3,26 | 3,32 | 3,25 | 3,20 | 3,21 | 3,19 | 3,23 | - | - | - | - | - |
| Water flow rate system side | l/h | 174394 | 186718 | 201086 | 209575 | 217799 | 226384 | 235022 | 249705 | - | - | - | - | - |
| Pressure drop system side | kPa | 40 | 35 | 44 | 44 | 26 | 26 | 30 | 37 | - | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

Increased fan

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Fans: M | | | | | | | | | | | | | | | | |
| SEPR - (EN 14825: 2018) (1) | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,41 | 5,44 | 5,37 | 5,53 | 5,54 | 5,51 | 5,54 | 5,51 | 5,53 | 5,51 | 5,51 | 5,52 | 5,52 | 5,53 |
| | A | W/W | 5,70 | 5,67 | 5,57 | 5,54 | 5,61 | 5,60 | 5,62 | 5,62 | 5,65 | 5,51 | 5,52 | 5,53 | 5,60 | 5,61 |
| SEPR | E | W/W | 5,82 | 5,76 | 5,80 | 5,71 | 5,66 | 5,79 | 5,74 | 5,77 | 5,73 | 5,64 | 5,60 | 5,63 | 5,72 | 5,74 |
| JEFR | L | W/W | 5,62 | 5,59 | 5,48 | 5,54 | 5,53 | 5,52 | 5,56 | 5,54 | 5,60 | 5,52 | 5,52 | 5,52 | 5,55 | 5,54 |
| | N | W/W | 5,94 | 5,85 | 5,98 | 5,79 | 5,70 | 5,78 | 5,75 | 5,77 | 5,70 | 5,63 | 5,57 | 5,65 | 5,73 | 5,74 |
| | U | W/W | 5.91 | 5,85 | 5,89 | 5,81 | 5,77 | 5,88 | 5.84 | 5,87 | 5,83 | 5.75 | 5,68 | 5.74 | 5,82 | 5,84 |

| Size | | | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|
| Fans: M | | | | | | | | | | | | | |
| SEPR - (EN 14825: 2018) (1) | | | | | | | | | | | | | |
| | 0 | W/W | 5,53 | 5,52 | 5,53 | 5,52 | 5,52 | 5,64 | 5,51 | 5,54 | 5,55 | 5,51 | 5,54 |
| | A | W/W | 5,60 | 5,57 | 5,60 | 5,60 | 5,57 | 5,66 | 5,61 | 5,71 | 5,69 | 5,62 | 5,68 |
| CEDD | E | W/W | 5,75 | 5,62 | 5,60 | 5,60 | 5,74 | 5,85 | 5,90 | 5,70 | 5,77 | - | - |
| SEPR | L | W/W | 5,55 | 5,54 | 5,56 | 5,55 | 5,52 | 5,64 | 5,61 | 5,68 | 5,66 | 5,63 | 5,68 |
| | N | W/W | 5,73 | 5,79 | 5,65 | 5,67 | 5,65 | 5,79 | - | - | - | - | - |
| | U | W/W | 5,85 | 5,73 | 5,71 | 5,72 | 5,84 | 5,93 | 5,98 | 5,82 | 5,87 | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate.

Inverter fan

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fans: J | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | |
| | 0 | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | Α | W/W | 4,44 | 4,40 | 4,55 | 4,56 | 4,56 | 4,56 | 4,57 | 4,55 | 4,56 | 4,56 | 4,57 | 4,57 | 4,56 | 4,56 |
| SEER | E | W/W | 4,48 | 4,47 | 4,57 | 4,57 | 4,58 | 4,58 | 4,58 | 4,58 | 4,58 | 4,59 | 4,59 | 4,59 | 4,59 | 4,60 |
| SEEN | L | W/W | 4,43 | 4,39 | 4,53 | 4,55 | 4,56 | 4,56 | 4,56 | 4,55 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 |
| | N | W/W | 4,54 | 4,51 | 4,60 | 4,60 | 4,61 | 4,59 | 4,60 | 4,61 | 4,60 | 4,61 | 4,60 | 4,60 | 4,60 | 4,60 |
| | U | W/W | 4,49 | 4,48 | 4,57 | 4,59 | 4,60 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,60 |
| | 0 | % | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | Α | % | 174,50 | 172,80 | 179,00 | 179,20 | 179,40 | 179,40 | 179,70 | 179,10 | 179,50 | 179,50 | 179,70 | 179,60 | 179,50 | 179,40 |
| Concornal officional | E | % | 176,30 | 175,60 | 179,60 | 179,80 | 180,20 | 180,00 | 180,10 | 180,00 | 180,20 | 180,60 | 180,40 | 180,40 | 180,50 | 180,80 |
| Seasonal efficiency | L | % | 174,00 | 172,40 | 178,30 | 179,00 | 179,30 | 179,20 | 179,20 | 179,00 | 179,40 | 179,20 | 179,30 | 179,30 | 179,30 | 179,20 |
| | N | % | 178,70 | 177,40 | 180,80 | 180,90 | 181,30 | 180,70 | 180,90 | 181,20 | 180,90 | 181,30 | 181,10 | 181,10 | 181,00 | 181,10 |
| | U | % | 176,60 | 176,10 | 179,80 | 180,40 | 180,90 | 180,50 | 180,70 | 180,60 | 180,70 | 180,60 | 180,60 | 180,40 | 180,50 | 180,90 |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,41 | 5,44 | 5,37 | 5,53 | 5,54 | 5,51 | 5,54 | 5,51 | 5,53 | 5,51 | 5,51 | 5,52 | 5,52 | 5,53 |
| | A | W/W | 5,70 | 5,67 | 5,57 | 5,54 | 5,61 | 5,60 | 5,62 | 5,62 | 5,65 | 5,51 | 5,52 | 5,53 | 5,60 | 5,61 |
| SEPR | E | W/W | 5,82 | 5,76 | 5,80 | 5,71 | 5,66 | 5,79 | 5,74 | 5,77 | 5,73 | 5,64 | 5,60 | 5,63 | 5,72 | 5,74 |
| DELL | L | W/W | 5,62 | 5,59 | 5,48 | 5,54 | 5,53 | 5,52 | 5,56 | 5,54 | 5,60 | 5,52 | 5,52 | 5,52 | 5,55 | 5,54 |
| | N | W/W | 5,94 | 5,85 | 5,98 | 5,79 | 5,70 | 5,78 | 5,75 | 5,77 | 5,70 | 5,63 | 5,57 | 5,65 | 5,73 | 5,74 |
| | U | W/W | 5,91 | 5,85 | 5,89 | 5,81 | 5,77 | 5,88 | 5,84 | 5,87 | 5,83 | 5,75 | 5,68 | 5,74 | 5,82 | 5,84 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(3) Calculation performed with FIXED water flow rate.

| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---------------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fans: J | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| | 0 | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | W/W | 4,56 | 4,56 | 4,56 | 4,55 | 4,57 | 4,56 | 4,56 | 4,56 | 4,57 | 4,56 | 4,56 | 4,56 | 4,57 |
| SEER | E | W/W | 4,58 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,59 | 4,60 | 4,58 | 4,59 | - | |
| SEEK | L | W/W | 4,55 | 4,56 | 4,55 | 4,56 | 4,56 | 4,57 | 4,56 | 4,57 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 |
| | N | W/W | 4,60 | 4,60 | 4,60 | 4,60 | 4,60 | 4,61 | 4,60 | 4,61 | - | - | - | - | - |
| | U | W/W | 4,59 | 4,59 | 4,60 | 4,60 | 4,60 | 4,60 | 4,59 | 4,60 | 4,60 | 4,59 | 4,59 | - | - |
| | 0 | % | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | A | % | 179,50 | 179,40 | 179,40 | 179,10 | 179,80 | 179,40 | 179,40 | 179,20 | 179,60 | 179,20 | 179,40 | 179,50 | 179,70 |
| Seasonal efficiency | E | % | 180,30 | 180,60 | 180,70 | 180,60 | 180,40 | 180,40 | 180,60 | 180,50 | 180,90 | 180,20 | 180,40 | - | - |
| Seasonal efficiency | L | % | 179,00 | 179,20 | 179,10 | 179,20 | 179,40 | 179,60 | 179,40 | 179,60 | 179,30 | 179,20 | 179,50 | 179,40 | 179,50 |
| | N | % | 180,80 | 181,00 | 181,10 | 181,00 | 181,10 | 181,20 | 180,80 | 181,40 | - | - | - | - | - |
| | U | % | 180,40 | 180,60 | 180,80 | 180,90 | 180,90 | 180,80 | 180,60 | 180,80 | 180,90 | 180,60 | 180,60 | - | - |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | |
| | | W/W | 5,51 | 5,52 | 5,53 | 5,52 | 5,53 | 5,52 | 5,52 | 5,64 | 5,51 | 5,54 | 5,55 | 5,51 | 5,54 |
| | A | W/W | 5,56 | 5,60 | 5,60 | 5,57 | 5,60 | 5,60 | 5,57 | 5,66 | 5,61 | 5,71 | 5,69 | 5,62 | 5,68 |
| SEPR | E | W/W | 5,75 | 5,70 | 5,75 | 5,62 | 5,60 | 5,60 | 5,74 | 5,85 | 5,90 | 5,70 | 5,77 | - | - |
| JELU | L | W/W | 5,51 | 5,53 | 5,55 | 5,54 | 5,56 | 5,55 | 5,52 | 5,64 | 5,61 | 5,68 | 5,66 | 5,63 | 5,68 |
| | N | W/W | 5,71 | 5,71 | 5,73 | 5,79 | 5,65 | 5,67 | 5,65 | 5,79 | - | - | - | - | - |
| | U | W/W | 5,85 | 5,81 | 5,85 | 5,73 | 5,71 | 5,72 | 5,84 | 5,93 | 5,98 | 5,82 | 5,87 | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Non-compliant with 2016/2281 EU regulation for comfort applications 12°C / 7°C
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | | | | |
|-----------------------|-----|---|-------|-------|-------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Electric data | | | | | | | | | | | | | | | | |
| | 0 | Α | 229,0 | 257,0 | 284,0 | 324,0 | 357,0 | 379,0 | 400,0 | 433,0 | 458,0 | 466,0 | 466,0 | 514,0 | 562,0 | 619,0 |
| Marrian compant (FLA) | A,L | Α | 235,0 | 263,0 | 291,0 | 324,0 | 364,0 | 385,0 | 406,0 | 437,0 | 462,0 | 462,0 | 462,0 | 516,0 | 564,0 | 619,0 |
| Maximum current (FLA) | E,U | Α | 235,0 | 263,0 | 297,0 | 330,0 | 364,0 | 391,0 | 413,0 | 444,0 | 468,0 | 468,0 | 468,0 | 523,0 | 571,0 | 625,0 |
| | N | Α | 242,0 | 270,0 | 303,0 | 337,0 | 370,0 | 398,0 | 419,0 | 450,0 | 475,0 | 475,0 | 475,0 | 529,0 | 583,0 | 644,0 |
| | 0 | Α | 251,0 | 292,0 | 335,0 | 380,0 | 403,0 | 450,0 | 467,0 | 502,0 | 512,0 | 521,0 | 521,0 | 645,0 | 685,0 | 814,0 |
| Deals surrent (LDA) | A,L | А | 257,0 | 299,0 | 342,0 | 380,0 | 409,0 | 456,0 | 473,0 | 507,0 | 517,0 | 517,0 | 517,0 | 647,0 | 687,0 | 814,0 |
| Peak current (LRA) | E,U | Α | 257,0 | 299,0 | 348,0 | 386,0 | 409,0 | 462,0 | 480,0 | 513,0 | 523,0 | 523,0 | 523,0 | 653,0 | 693,0 | 821,0 |
| | N | А | 263,0 | 305,0 | 354,0 | 392,0 | 415,0 | 469,0 | 486,0 | 519,0 | 529,0 | 529,0 | 529,0 | 660,0 | 706,0 | 839,0 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Electric data | | | | | | | | | | | | | | | | |
| | 0 | А | 667,0 | 714,0 | 753,0 | 805,0 | 848,0 | 882 | ,0 92 | 24,0 | 949,0 | 997,0 | 1084,0 | 1137,0 | 1266,0 | 1368,0 |
| Mariana (FLA) | A,L | А | 667,0 | 712,0 | 751,0 | 813,0 | 865,0 | 913 | ,0 94 | 47,0 | 955,0 | 1003,0 | 1094,0 | 1133,0 | 1268,0 | 1406,0 |
| Maximum current (FLA) | E,U | Α | 679,0 | 718,0 | 770,0 | 813,0 | 862,0 | 902 | ,0 94 | 13,0 | 968,0 | 1022,0 | 1100,0 | 1145,0 | - | - |
| | N | Α | 692,0 | 743,0 | 789,0 | 838,0 | 887,0 | 921 | ,0 9 | 55,0 | 987,0 | - | - | - | - | - |
| | ٥ | Α | 841,0 | 914,0 | 936,0 | 1100,0 | 1147,0 | 1259 | 9,0 12 | 64,0 | 038,0 | 1065,0 | 1160,0 | 1197,0 | 1446,0 | 1552,0 |
| Deals assument (LDA) | A,L | Α | 841,0 | 911,0 | 934,0 | 1108,0 | 1164,0 | 1290 | 0,0 12 | 87,0 1 | 044,0 | 1071,0 | 1170,0 | 1193,0 | 1448,0 | 1590,0 |
| Peak current (LRA) | E,U | А | 854,0 | 918,0 | 953,0 | 1108,0 | 1161,0 | 1279 | 9,0 12 | 83,0 | 056,0 | 1090,0 | 1176,0 | 1205,0 | - | - |
| | N | Α | 866,0 | 943,0 | 972,0 | 1133,0 | 1186,0 | 1298 | 3,0 12 | 95,0 1 | 076,0 | - | - | - | - | - |

GENERAL TECHNICAL DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|--------------------------------|-------------|------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|
| Compressor | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Screw | | | | |
| Number | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | R134a | | | | |
| | ٥ | kg | 24,0 | 24,0 | 24,0 | 30,0 | 30,0 | 35,0 | 35,0 (2) | 35,0 | 35,0 |
| | A | kg | 26,5 | 34,0 (2) | 28,0 | 28,0 | 34,0 | 35,0 | 38,5 | 40,5 | 45,0 |
| Deficiency to a discount 1 /1) | E | kg | 28,0 | 30,0 | 41,0 (2) | 41,0 (2) | 46,0 (2) | 43,0 | 41,0 | 46,0 | 45,0 |
| Refrigerant load circuit 1 (1) | L | kg | 24,0 | 34,0 (2) | 37,0 (2) | 28,0 | 34,0 | 35,0 | 38,5 | 40,0 | 42,0 (2) |
| | N | kg | 36,0 (2) | 38,0 (2) | 44,0 (2) | 44,0 (2) | 49,0 (2) | 53,0 (2) | 56,0 (2) | 60,0 (2) | 64,0 (2) |
| | U | kg | 32,0 (2) | 34,0 (2) | 34,0 | 35,0 | 46,0 (2) | 49,0 (2) | 49,0 | 46,0 (2) | 45,0 (2) |
| | ٥ | kg | 24,0 | 25,0 | 25,0 | 41,0 | 33,0 | 38,0 | 37,0 (2) | 37,5 | 36,5 |
| | A | kg | 28,0 | 34,0 (2) | 29,5 | 36,0 | 34,0 | 49,0 | 40,5 | 45,0 | 47,5 |
| Definement lead singuis 2 (1) | E | kg | 30,0 | 31,5 | 41,0 (2) | 46,0 (2) | 46,0 (2) | 45,0 | 46,0 | 52,0 | 53,0 |
| Refrigerant load circuit 2 (1) | L | kg | 27,0 | 34,0 (2) | 37,0 (2) | 36,0 | 34,0 | 40,0 | 40,5 | 43,0 | 46,0 (2) |
| | N | kg | 36,0 (2) | 38,0 (2) | 44,0 (2) | 49,0 (2) | 49,0 (2) | 56,0 (2) | 56,0 (2) | 64,0 (2) | 64,0 (2) |
| | U | kg | 32,0 (2) | 34,0 (2) | 36,0 | 41,5 | 46,0 (2) | 53,0 (2) | 54,0 | 52,0 (2) | 48,5 (2) |
| Refrigerant load circuit 3 (1) | °,A,E,L,N,U | kg | - | - | - | - | - | - | - | - | - |
| System side heat exchanger | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Shell and tube | | | | |
| Number | °,A,E,L,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| | | rmation contact the office. |
|--|--|-----------------------------|
| | | |

| Size | | | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|--------------------------------|-------------|------|----------|----------|----------|----------|----------------|----------|-----------|-----------|-----------|
| Compressor | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Screw | | | | |
| Number | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | R134a | | | | |
| | ٥ | kg | 40,0 | 46,0 | 42,5 | 44,5 | 51,0 | 52,0 | 55,0 | 55,0 (2) | 63,0 (2) |
| | A | kg | 44,0 (2) | 47,0 | 52,0 (2) | 55,0 | 74,0 (2) | 62,0 | 67,0 | 67,0 | 70,0 |
| Definement lead singuit 1 (1) | E | kg | 45,0 (2) | 57,0 | 54,0 (2) | 74,0 (2) | 60,0 (2) | 70,0 | 89,0 (2) | 80,0 (2) | 100,0 (2) |
| Refrigerant load circuit 1 (1) | L | kg | 44,0 | 47,0 | 52,0 (2) | 54,0 | 56,0 (2) | 62,0 | 67,0 (2) | 67,0 | 70,0 |
| | N | kg | 64,0 (2) | 55,0 (2) | 72,0 (2) | 81,0 (2) | 85,0 (2) | 92,0 (2) | 99,0 (2) | 110,0 (2) | 114,0 (2) |
| | U | kg | 60,0 (2) | 54,5 | 58,0 | 58,0 | 60,0 (2) | 70,0 | 89,0 (2) | 80,0 | 85,0 (2) |
| | 0 | kg | 50,0 | 48,0 | 46,0 | 46,0 | 59,0 | 59,0 | 64,0 | 64,0 (2) | 70,0 (2) |
| | Α | kg | 52,0 (2) | 50,0 | 55,0 (2) | 60,0 | 81,0 (2) | 70,0 | 78,0 | 78,0 | 82,0 |
| Definement lead singuit 2 (1) | E | kg | 53,0 (2) | 59,0 | 59,0 (2) | 74,0 (2) | 77,0 (2) | 85,0 | 96,0 (2) | 90,0 (2) | 110,0 (2) |
| Refrigerant load circuit 2 (1) | L | kg | 52,0 | 50,0 | 55,0 (2) | 58,0 | 72,0 (2) | 70,0 | 79,0 (2) | 78,0 | 82,0 |
| | N | kg | 69,0 (2) | 57,0 (2) | 77,0 (2) | 81,0 (2) | 92,0 (2) | 92,0 (2) | 107,0 (2) | 110,0 (2) | 124,0 (2) |
| | U | kg | 65,0 (2) | 59,0 | 62,0 | 63,0 | 77,0 (2) | 85,0 | 96,0 (2) | 90,0 | 103,0 (2) |
| Refrigerant load circuit 3 (1) | °,A,E,L,N,U | kg | - | - | - | - | - | - | - | - | - |
| System side heat exchanger | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Shell and tube | | | | |
| Number | °,A,E,L,U | no. | 11 | 1_ | 1 | 1 | 1 | 1 | 1 | 1 | 1_ |
| Number | N N | no | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) The refrigerant gas charge is approximate, for more information contact the office.

| Size | | | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------|-------------|------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|
| Compressor | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Screw | | | | |
| | °,A,L | no. | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number | E,U | no. | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 3 | - | - | - | - | - |
| | °,A,L | no. | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Circuits | E,U | no. | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 3 | - | - | - | - | - |
| Refrigerant | °,A,E,L,N,U | type | | | | | R134a | | | | |
| | 0 | kg | 65,0 (2) | 62,0 | 70,0 (2) | 67,0 (2) | 55,0 | 78,0 (2) | 62,0 (2) | 99,0 (2) | 112,0 (2) |
| | A | kg | 106,0 (2) | 82,0 | 82,0 (2) | 74,0 (2) | 81,0 (2) | 85,0 (2) | 70,0 | 106,0 (2) | 80,0 |
| D. C.: | E | kg | 113,0 (2) | 86,0 | 95,0 (2) | 77,0 (2) | 89,0 (2) | 89,0 (2) | 100,0 (2) | - | - |
| Refrigerant load circuit 1 (1) | L | kg | 106,0 (2) | 82,0 | 82,0 (2) | 74,0 (2) | 81,0 (2) | 85,0 (2) | 70,0 (2) | 106,0 (2) | 80,0 |
| | N | kg | 128,0 (2) | 128,0 (2) | 138,0 (2) | 85,0 (2) | - | - | - | - | - |
| | U | kg | 113,0 (2) | 86,0 | 95,0 | 77,0 (2) | 89,0 (2) | 89,0 (2) | 100,0 (2) | - | - |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office. (2) The refrigerant gas charge is approximate, for more information contact the office.

| Size | | | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------|-------------|------|-----------|-----------|-----------|----------|----------------|----------|-----------|-----------|-----------|
| | ٥ | kg | 71,0 (2) | 73,0 | 80,0 (2) | 74,0 (2) | 61,0 | 85,0 (2) | 70,0 (2) | 99,0 (2) | 112,0 (2) |
| | Α | kg | 106,0 (2) | 99,0 | 99,0 (2) | 81,0 (2) | 81,0 (2) | 92,0 (2) | 75,0 | 106,0 (2) | 95,0 |
| Deficiency to a discrete 2 (1) | E | kg | 113,0 (2) | 98,0 | 97,0 (2) | 85,0 (2) | 89,0 (2) | 96,0 (2) | 100,0 (2) | - | - |
| Refrigerant load circuit 2 (1) | L | kg | 106,0 (2) | 99,0 | 99,0 (2) | 81,0 (2) | 81,0 (2) | 92,0 (2) | 75,0 (2) | 106,0 (2) | 95,0 |
| | N | kg | 128,0 (2) | 138,0 (2) | 138,0 (2) | 92,0 (2) | - | - | - | - | - |
| | U | kg | 113,0 (2) | 98,0 | 97,0 | 85,0 (2) | 89,0 (2) | 96,0 (2) | 100,0 (2) | - | - |
| | ۰ | kg | - | - | - | 74,0 (2) | 65,0 | 85,0 (2) | 80,0 (2) | 99,0 (2) | 112,0 (2) |
| | Α | kg | - | - | - | 81,0 (2) | 81,0 (2) | 92,0 (2) | 75,0 | 106,0 (2) | 85,0 |
| Refrigerant load circuit 3 (1) | E,U | kg | - | - | - | 85,0 (2) | 89,0 (2) | 96,0 (2) | 100,0 (2) | - | - |
| | L | kg | - | - | - | 81,0 (2) | 81,0 (2) | 92,0 (2) | 75,0 (2) | 106,0 (2) | 85,0 |
| | N | kg | - | - | - | 92,0 (2) | - | - | - | - | - |
| System side heat exchanger | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | Shell and tube | | | | |
| | 0 | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | A,L | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nulliber | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | - | - | - | - | - |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) The refrigerant gas charge is approximate, for more information contact the office.

FANS DATA

Oversized

| Oversized | | | | | | | | | | | |
|-------------------------|-------------|--------|--------|--------|--------|--------|-------------------|---------|--------|--------|--------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
| Fans: M | | | | | | | | | | | |
| Increased fan | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | axials | | | | |
| Fan motor | °,A,U | type | | | | | Asynchronous | | | | |
| | E,L,N | type | | | | Asyno | thronous with pha | ise cut | | | |
| Fan | | | | | | | | | | | |
| | • | no. | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 |
| Number | A,L | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 |
| Humber | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 |
| With static pressure | | | | | | | | | | | |
| | • | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 128000 | 144000 | 144000 |
| | A | m³/h | 128000 | 128000 | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 |
| Air flow rate | E | m³/h | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 161000 | 161000 |
| All HOW Idle | L | m³/h | 92000 | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 |
| | N | m³/h | 115000 | 115000 | 138000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 |
| | U | m³/h | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 | 224000 | 224000 |
| High static accessors | 0 | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 75 | 75 |
| High static pressure | A,E,L,N,U | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Without Static pressure | | | | | | | | | | | |
| • | 0 | m³/h | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 144000 | 144000 | 144000 |
| | A | m³/h | 144000 | 144000 | 144000 | 144000 | 180000 | 180000 | 180000 | 216000 | 216000 |
| | E | m³/h | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 161000 | 161000 |
| Air flow rate | L | m³/h | 92000 | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 |
| | N | m³/h | 115000 | 115000 | 138000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 |
| | U | m³/h | 144000 | 144000 | 180000 | 180000 | 180000 | 216000 | 216000 | 252000 | 252000 |
| High static pressure | °,A,E,L,N,U | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| With static pressure | ,,,,,, | | | | | | | | | | |
| | 0 | dB(A) | 97,0 | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 |
| | A | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 |
| | E | dB(A) | 89,0 | 89,0 | 90,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| Sound power level | <u>-</u> | dB(A) | 89,0 | 89,0 | 89,0 | 89,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 |
| | N | dB(A) | 90,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| | <u>U</u> | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 |
| Without Static pressure | • | uD(//) | 71,0 | 77,0 | 70,0 | 70,0 | 70,0 | 77,0 | 77,0 | 77,0 | 77,0 |
| Without Static pressure | 0 | dB(A) | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 |
| | A | dB(A) | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 |
| | | dB(A) | 89,0 | 89,0 | 90,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| Sound power level | | dB(A) | 89,0 | 89,0 | 89,0 | 89,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 |
| | L N | dB(A) | 90,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| | N | dB(A) | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 100,0 |
| | U | ub(A) | | | | | | , | | | |
| Size | | | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
| Fans: M | | | | | | | | | | | |
| Increased fan | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | axials | | | | |
| Fan motor | ^,A,U | type | | | | | Asynchronous | | | | |
| Tall Hiotol | E,L,N | type | | | | Asyno | hronous with pha | ise cut | | | |

| Size | | | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|--|--|--|---|---------------|---|--|--|---|--------------|--|--|
| Fan | | | | | 2.72 | | J, | | | .,,,, | |
| r wiii | 0 | no. | 10 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 16 |
| | | | | | | | | | | | |
| Number | A,L | no. | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 18 |
| | E,U | no. | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 22 | 22 |
| With static pressure | N | no. | 16 | 16 | 18 | 20 | 22 | 22 | 26 | 28 | 30 |
| mui static pressure | 0 | m³/h | 180000 | 180000 | 180000 | 180000 | 216000 | 216000 | 252000 | 252000 | 288000 |
| | A | m³/h | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 288000 | 324000 |
| | E | m³/h | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 253000 | 253000 |
| Air flow rate | L | m³/h | | 138000 | 161000 | | 184000 | 184000 | | 207000 | 234000 |
| | | | 138000 | | | 161000 | | | 207000 | | |
| | N | m³/h | 184000 | 184000 | 207000 | 230000 | 253000 | 253000 | 299000 | 322000 | 345000 |
| | U | m³/h | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 352000 | 352000 |
| 18.1. 4.2 | | Pa | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| High static pressure | A,L | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 75 |
| | E,N,U | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Without Static pressure | | | | | | | | | | | |
| | 0 | m³/h | 180000 | 180000 | 180000 | 180000 | 216000 | 216000 | 252000 | 252000 | 288000 |
| | A | m³/h | 216000 | 216000 | 252000 | 252000 | 288000 | 288000 | 324000 | 324000 | 324000 |
| Air flow rate | E | m³/h | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 253000 | 253000 |
| All HOW fate | L | m³/h | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 234000 |
| | N | m³/h | 184000 | 184000 | 207000 | 230000 | 253000 | 253000 | 299000 | 322000 | 345000 |
| | U | m³/h | 252000 | 252000 | 288000 | 288000 | 324000 | 360000 | 360000 | 396000 | 396000 |
| High static pressure | °,A,E,L,N,U | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| With static pressure | | | | | | | | | | | |
| | 0 | dB(A) | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 101,0 | 102,0 |
| | A | dB(A) | 99,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 102,0 |
| | E | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| Sound power level | | dB(A) | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 |
| | L | | | | | - | | | | - | |
| | N | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 95,0 |
| | U | dB(A) | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 102,0 |
| Without Static pressure | | | | | | | | | | | |
| | • | dB(A) | 99,0 | 99,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 101,0 | 102,0 |
| | A | dB(A) | 100,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 102,0 | 101,0 |
| | E | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| Cound nowar laval | | | | | | | | | | | |
| Sound power level | L | dB(A) | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 |
| Sound power level | L N | dB(A) dB(A) | 91,0 92,0 | 91,0 92,0 | 91,0 93,0 | 91,0 93,0 | 92,0 93,0 | 93,0 93,0 | 93,0 94,0 | 93,0 94,0 | 93,0 95,0 |
| Sound power level | L N U | | | | | | | | | | |
| | | dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 | 93,0 101,0 | 93,0 102,0 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size | | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 95,0 |
| Size Fans: M | | dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 | 93,0 101,0 | 93,0 102,0 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size Fans: M Increased fan | U | dB(A) dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 | 93,0 101,0 6503 | 93,0 102,0 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size Fans: M | °,A,E,L,N,U | dB(A) dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 | 93,0 101,0 6503 axials | 93,0 102,0 6703 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size Fans: M Increased fan | °,A,E,L,N,U | dB(A) dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 6402 | 93,0 101,0 6503 axials Asynchronous | 93,0 102,0 6703 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size Fans: M Increased fan Type Fan motor | °,A,E,L,N,U | dB(A) dB(A) | 92,0 100,0 | 92,0 | 93,0 101,0 | 93,0 101,0 6402 | 93,0 101,0 6503 axials | 93,0 102,0 6703 | 94,0 | 94,0 102,0 | 95,0 102,0 |
| Size Fans: M Increased fan Type | °,A,E,L,N,U °,A,U E,L,N | dB(A) dB(A) type type type | 92,0 100,0 5602 | 92,0 | 93,0 101,0 6002 | 93,0 101,0 6402 | 93,0 101,0 6503 axials Asynchronous | 93,0 102,0 6703 | 94,0 | 94,0 102,0 6903 | 95,0 102,0 7203 |
| Size Fans: M Increased fan Type Fan motor | °,A,E,L,N,U °,A,U E,L,N | dB(A) dB(A) type type type no. | 92,0 100,0 5602 | 92,0 | 93,0 101,0 6002 | 93,0 101,0 6402 Asy | 93,0 101,0 6503 axials Asynchronous nchronous with ph | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 | 95,0 102,0 7203 |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N ° A,L | type type type no. no. | 92,0 100,0 5602 | 92,0 | 93,0 101,0 6002 | 93,0 101,0 6402 Asy | 93,0 101,0 6503 axials Asynchronous nchronous with ph | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 | 95,0 102,0 7203 |
| Size Fans: M Increased fan Type Fan motor | °,A,E,L,N,U °,A,U E,L,N ° A,L E,U | type type type no. no. | 92,0 100,0 5602 | 92,0 | 93,0 101,0 6002 16 22 26 | 93,0 101,0 6402 Asy 18 22 28 | 93,0 101,0 6503 axials Asynchronous nchronous with pt | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 30 | 95,0 102,0 7203 22 28 32 |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N ° A,L | type type type no. no. | 92,0 100,0 5602 | 92,0 | 93,0 101,0 6002 | 93,0 101,0 6402 Asy | 93,0 101,0 6503 axials Asynchronous nchronous with ph | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 | 95,0 102,0 7203 |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N ° A,L E,U N | type type type no. no. no. | 92,0 100,0 5602 16 20 24 32 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 | 93,0 101,0 6402 Asy 18 22 28 32 | 93,0 101,0 6503 axials Asynchronous nchronous with ph 18 24 28 34 | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 30 | 95,0 102,0 7203 22 28 32 |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N ° A,L E,U | type type type no. no. no. | 92,0 100,0 5602 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 | 93,0 101,0 6402 Asy 18 22 28 | 93,0 101,0 6503 axials Asynchronous nchronous with pt | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 30 | 95,0 102,0 7203 22 28 32 |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N ° A,L E,U N | type type type no. no. no. | 92,0 100,0 5602 16 20 24 32 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 | 93,0 101,0 6402 Asy 18 22 28 32 | 93,0 101,0 6503 axials Asynchronous nchronous with ph 18 24 28 34 | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 30 | 95,0 102,0 7203 22 28 32 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °,A,E,L,N,U °,A,U E,L,N A,L E,U N | type type type no. no. no. m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 | 93,0 101,0 6402 Asy 18 22 28 32 | 93,0 101,0 6503 axials Asynchronous nchronous with pt 18 24 28 34 | 93,0 102,0 6703 hase cut | 94,0 | 94,0 102,0 6903 20 28 30 - | 95,0 102,0 7203 22 28 32 - |
| Size Fans: M Increased fan Type Fan motor Fan | °,A,E,L,N,U °,A,U E,L,N A,L E,U N | type type type no. no. no. m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 360000 276000 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 | 93,0 101,0 6503 axials Asynchronous nchronous with ph 18 24 28 34 324000 384000 322000 | 93,0 102,0 6703 hase cut 18 24 30 324000 384000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 | 95,0 102,0 7203 22 28 32 - 396000 448000 368000 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °,A,E,L,N,U °,A,U E,L,N A,L E,U N A E | type type type no. no. no. m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 360000 276000 260000 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 | 93,0 101,0 6503 axials Asynchronous nchronous with ph 18 24 28 34 324000 384000 322000 276000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 345000 | 94,0 | 94,0 102,0 6903 20 28 30 - | 95,0 102,0 7203 22 28 32 - 396000 448000 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °,A,E,L,N,U °,A,U E,L,N A,L E,U N A E L | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 360000 276000 260000 368000 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 368000 | 93,0 101,0 6503 axials Asynchronous nchronous with pl 18 24 28 34 32400 384000 384000 276000 391000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 345000 276000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 | 95,0 102,0 7203 22 28 32 - 396000 448000 368000 322000 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °,A,E,L,N,U °,A,U E,L,N A,L E,U N A E | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 360000 276000 260000 368000 384000 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 368000 448000 | 93,0 101,0 6503 axials Asynchronous nchronous with ph 18 24 28 34 324000 384000 322000 276000 391000 448000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 - 480000 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 368000 322000 - 512000 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °,A,E,L,N,U °,A,U E,L,N ° A,L E,U N ° A E U ° | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h p³/h | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 384000 75 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 368000 448000 75 | 93,0 101,0 6503 axials Asynchronous nchronous with pl 18 24 28 34 32400 384000 384000 376000 391000 448000 75 | 93,0 102,0 6703 hase cut 18 24 30 - - 324000 384000 276000 - 480000 75 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 - 480000 75 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 368000 322000 - 512000 75 |
| Size Fans: M Increased fan Type Fan motor Fan Number | °, A, E, L, N, U °, A, U E, L, N A, L E, U N A E L N U A, L | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h p³/h p³ | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 384000 75 75 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 32400 384000 322000 276000 391000 448000 75 120 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 - 480000 75 120 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 368000 322000 - 512000 75 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure Air flow rate | °, A, E, L, N, U °, A, U E, L, N A, L E, U N A E L N U A, L E, U S A, L E, U | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h pa Pa | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 384000 75 75 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 75 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 120 | 93,0 101,0 6503 axials Asynchronous nchronous with pl 18 24 28 34 324000 384000 322000 276000 391000 448000 75 120 120 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 - 480000 75 120 120 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 368000 322000 - 512000 75 120 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure | °, A, E, L, N, U °, A, U E, L, N A, L E, U N A E L N U A, L | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h p³/h p³ | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 384000 75 75 | 92,0 100,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 32400 384000 322000 276000 391000 448000 75 120 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 345000 322000 - 480000 75 120 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 368000 322000 - 512000 75 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure Air flow rate | *A,E,L,N,U *A,L E,U *N *** A | type type type no. no. no. m³/h m³/h m³/h m³/h m³/h pa Pa Pa | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 384000 75 75 120 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 368000 448000 75 75 75 120 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 384000 322000 276000 391000 448000 75 120 120 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 322000 - 512000 75 120 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure | °,A,E,L,N,U °,A,U E,L,N A,L E,U N A E L N U A A,L E,U N | type type type no. no. no. m³/h m³/h m³/h m³/h pa Pa Pa Pa Pa m³/h | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 120 120 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 384000 276000 391000 448000 75 120 120 120 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - | 95,0 102,0 7203 7203 22 28 32 396000 448000 322000 512000 75 120 120 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure | *A,E,L,N,U *,A,U *E,L,N A,L *E,U *N A *E *L *N U ** A,L *E,U *N A *L *E,U *N | type type type no. no. no. m³/h m³/h m³/h m³/h pa Pa Pa Pa Pa m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 360000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 288000 396000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 286000 448000 75 75 120 120 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 384000 276000 391000 448000 75 120 120 120 120 432000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 432000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 | 95,0 102,0 7203 7203 22 28 32 396000 448000 322000 512000 75 120 120 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure Without Static pressure | °,A,E,L,N,U °,A,U E,L,N A,L E,U N A E L N U A A,L E,U N | type type type no. no. no. m³/h m³/h m³/h p² Pa Pa Pa Pa Pa Pa M³/h m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 360000 276000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 288000 396000 299000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 120 120 324000 396000 322000 322000 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 332000 276000 391000 448000 75 120 120 120 120 324000 432000 332000 332000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 432000 345000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 345000 | 95,0 102,0 7203 7203 22 28 32 396000 448000 322000 512000 75 120 120 396000 504000 368000 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure | *A,E,L,N,U *,A,U *E,L,N A,L *E,U *N A *E *L *N U ** A,L *E,U *N A *L *E,U *N | dB(A) dB(A) type type type no. no. no. m³/h m³/h m³/h Pa | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 360000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 288000 396000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 286000 448000 75 75 120 120 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 384000 276000 391000 448000 75 120 120 120 120 432000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 432000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 | 95,0 102,0 7203 7203 22 28 32 396000 448000 322000 512000 75 120 120 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure Without Static pressure | *A,E,L,N,U *A,L E,U N ** A L E,U N ** A L E,U N ** A A E L N U ** A A L E,U N A A E E L N U ** A A A E E C A A A A A A A A A A A A A A | type type type no. no. no. m³/h m³/h m³/h p² Pa Pa Pa Pa Pa Pa M³/h m³/h m³/h m³/h m³/h | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 360000 276000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 288000 396000 299000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 120 120 324000 396000 322000 322000 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 332000 276000 391000 448000 75 120 120 120 120 324000 432000 332000 332000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 432000 345000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 345000 | 95,0 102,0 7203 7203 22 28 32 396000 448000 322000 512000 75 120 120 396000 504000 368000 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure Without Static pressure | *A,E,L,N,U *,A,U *E,L,N A,L *E,U *N A *E *L *N U ** A,L *E,U *N A *E *L *N U ** A,L *E,U *N A *E *L *N U ** A *L *E,U *N A *L *E,U | dB(A) dB(A) type type type no. no. no. m³/h m³/h m³/h Pa | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 276000 260000 260000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 75 75 120 120 288000 396000 299000 286000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 322000 286000 448000 75 75 120 120 324000 396000 322000 286000 322000 286000 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 324000 276000 391000 448000 75 120 120 120 120 324000 432000 322000 276000 322000 276000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 - 324000 432000 432000 345000 276000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 345000 345000 322000 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 322000 - 512000 75 120 120 - 396000 504000 368000 322000 |
| Size Fans: M Increased fan Type Fan motor Fan Number With static pressure High static pressure Without Static pressure | *A,E,L,N,U *,A,U *E,L,N A,L *E,U *N ** A *E *L *N *U ** A,L *E,U *N ** A *E *L *N ** A *E *E *L *N ** A *E *E *L *N ** N *E * | type type type type no. no. no. no. m³/h m³/h m³/h Pa Pa Pa Pa Pa m³/h m³/h m³/h m³/h m³/h m³/h m³/h m³/ | 92,0 100,0 5602 16 20 24 32 288000 276000 260000 368000 75 75 120 120 288000 276000 260000 360000 276000 260000 368000 | 92,0 | 93,0 101,0 6002 16 22 26 32 288000 396000 299000 286000 368000 416000 75 75 120 120 288000 396000 299000 286000 368000 | 93,0 101,0 6402 Asy 18 22 28 32 324000 396000 368000 448000 75 75 120 120 324000 322000 286000 322000 286000 322000 | 93,0 101,0 6503 axials Asynchronous with pl 18 24 28 34 324000 332000 276000 391000 448000 75 120 120 120 120 324000 432000 236000 391000 432000 391000 391000 391000 | 93,0 102,0 6703 hase cut 18 24 30 - 324000 384000 276000 - 480000 75 120 120 - 324000 432000 345000 276000 | 94,0 | 94,0 102,0 6903 20 28 30 - 360000 448000 322000 - 480000 75 120 120 - 360000 504000 345000 345000 | 95,0 102,0 7203 7203 22 28 32 - 396000 448000 322000 - 512000 75 120 120 - 396000 504000 368000 322000 |

| Size | | • | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 |
|-------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| With static pressure | | | | | | | | | |
| | 0 | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 103,0 | 103,0 |
| | A,U | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 |
| Sound power level | E | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 |
| | L | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| | N | dB(A) | 95,0 | 95,0 | 95,0 | 95,0 | - | - | - |
| Without Static pressure | | | | | | | | | |
| | ٥ | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 103,0 | 103,0 |
| | A | dB(A) | 102,0 | 102,0 | 102,0 | 103,0 | 103,0 | 103,0 | 103,0 |
| Country and the second | E | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 |
| Sound power level | L | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| | N | dB(A) | 95,0 | 95,0 | 95,0 | 95,0 | - | - | - |
| | U | dB(A) | 103,0 | 103,0 | 103,0 | 103.0 | 103,0 | 103,0 | 103,0 |

Inverter

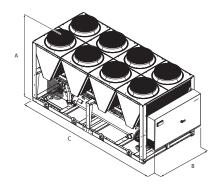
| Inverter | | | | | | | | | | | |
|--------------------------------------|---|---|--|-------------------|------------------------------------|--|--|---------------------------------------|-----------------|---------------------------------------|---------------------------------------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
| Fans: J | | | | | | | | | | | |
| Fan | 0.4.51.1111 | | | | | | * 1 | | | | |
| Туре | °,A,E,L,N,U | type | | | | | axials | | | | |
| Fan motor | °,A,E,L,N,U | type | - | - | - | 0 | Inverter | 0 | 0 | 0 | 0 |
| | | no. | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 |
| Number | A,L | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 |
| | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 |
| Inverter fan | 0 | 3 // | 0.000 | 0.000 | 0.000 | 120000 | 120000 | 120000 | 120000 | 144000 | 144000 |
| | | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 128000 | 144000 | 144000 |
| | A | m³/h | 128000 | 128000 | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 |
| Air flow rate | E | m³/h | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 161000 | 161000 |
| | L | m³/h | 92000 | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 |
| | N | m³/h | 115000 | 115000 | 138000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 |
| | U | m³/h | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 | 224000 | 224000 |
| High static pressure | • | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 75 | 75 |
| | A,E,L,N,U | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Sound data calculated in cooling r | | | | | | | | | | | |
| | 0 | dB(A) | 97,0 | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 |
| | A | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 |
| Sound power level | E | dB(A) | 89,0 | 89,0 | 90,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| Journa power rever | L | dB(A) | 89,0 | 89,0 | 89,0 | 89,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 |
| | N | dB(A) | 90,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| | U | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 |
| (1) Sound power: calculated on the b | asis of measurements m | ade in accordar | ce with UNI EN IS | 0 9614-2, as re | quired for Eurove | ent certification. S | Sound pressure m | easured in free fi | eld (in complia | nce with UNI EN | ISO 3744). |
| Size | | | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
| Fans: J | | | 3002 | 3202 | 3102 | 3002 | 3702 | 7202 | 1302 | 1002 | 3202 |
| Fan | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | axials | | | | |
| Fan motor | °,A,E,L,N,U | type | | | | | Inverter | | | | |
| Tall Illotol | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 10 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 16 |
| | A,L | no. | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 18 |
| Number | | no. | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 22 | 22 |
| | E,U | no. | 16 | 16 | 18 | 20 | 22 | 22 | 26 | 28 | 30 |
| Invartar for | N | no. | 10 | 10 | 10 | 20 | 22 | 22 | 20 | 20 | 30 |
| Inverter fan | 0 | m³/h | 100000 | 100000 | 100000 | 100000 | 31/000 | 21/000 | 252000 | 252000 | 200000 |
| | | | 180000 | 180000 | 180000 | 180000 | 216000 | 216000 | 252000 | 252000 | 288000 |
| | A | m³/h | 192000 | 192000 | 224000 | 224000 | 256000 | 256000 | 288000 | 288000 | 324000 |
| Air flow rate | E | m³/h | 161000 | 161000 | 184000 | 184000 | 207000 | 230000 | 230000 | 253000 | 253000 |
| | L | m³/h | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 207000 | 207000 | 234000 |
| | N | m³/h | 184000 | 184000 | 207000 | 230000 | 253000 | 253000 | 299000 | 322000 | 345000 |
| | U | m³/h | 224000 | 224000 | 256000 | 256000 | 288000 | 320000 | 320000 | 352000 | 352000 |
| | - | Pa | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| High static pressure | A,L | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 75 |
| | E,N,U | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Sound data calculated in cooling r | | | | | | | | | | | |
| | 0 | dB(A) | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 101,0 | 102,0 |
| | A | dB(A) | 99,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 102,0 |
| Cound nawar laval | E | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| Sound power level | L | dB(A) | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 |
| | N | dB(A) | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 95,0 |
| | U | dB(A) | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101,0 | 102,0 |
| (1) Sound power: calculated on the b | oasis of measurements m | ade in accordar | ce with UNI EN IS | 0 9614-2, as re | quired for Eurove | ent certification. S | Sound pressure m | easured in free fi | eld (in complia | nce with UNI EN | ISO 3744). |
| Size | | | 5602 | | 6002 | 6402 | 6503 | 6703 | | 6903 | 7203 |
| Fans: J | | | 3002 | | | - IVE | 0,00 | 0,03 | | | , 243 |
| Fan | | | | | | | | | | | |
| | °,A,E,L,N,U | type | | | | | axials | | | | |
| lvne | | type | | | | | Inverter | | | | |
| | | tuno | | | 16 | 18 | 18 | 18 | | 20 | 22 |
| •• | °,A,E,L,N,U | type | 16 | | 16 | | 10 | 10 | | ZU | |
| •• | °,A,E,L,N,U | no. | 16 | | 16 | | | 1/ | | 70 | |
| Fan motor | °,A,E,L,N,U ° A,L | no. | 20 | | 22 | 22 | 24 | 24 | | 28 | 28 |
| Type Fan motor Number | °,A,E,L,N,U ° A,L E,U | no. no. no. | 20 24 | | 22 26 | 22 28 | 24 28 | 30 | | 30 | 32 |
| Fan motor Number | °,A,E,L,N,U ° A,L | no. | 20 | | 22 | 22 | 24 | | | | |
| Fan motor | °,A,E,L,N,U | no. no. no. | 20 24 32 | | 22 26 32 | 22 28 32 | 24 28 34 | 30 | | 30 | 32 |
| Fan motor Number | °,A,E,L,N,U A,L E,U N | no. no. no. no. | 20 24 32 288000 | | 22 26 32 | 22 28 32 324000 | 24 28 34 324000 | 30 - 324000 | | 30 - 860000 | 32 - 396000 |
| Fan motor Number | °,A,E,L,N,U | no. no. no. no. m³/h m³/h | 20 24 32 | | 22 26 32 | 22 28 32 | 24 28 34 | 30 | | 30 | 32 |
| Fan motor Number Inverter fan | °,A,E,L,N,U A,L E,U N | no. no. no. m³/h m³/h m³/h | 20 24 32 288000 |) 3 | 22 26 32 | 22 28 32 324000 | 24 28 34 324000 | 30 - 324000 |) 4 | 30 - 860000 | 32 - 396000 |
| Fan motor Number | °,A,E,L,N,U ° A,L E,U N ° | no. no. no. no. m³/h m³/h | 20 24 32 288000 360000 |) 3 | 22 26 32 388000 396000 | 22 28 32 324000 396000 | 24 28 34 324000 384000 | 30 - 324000 384000 |) 4 | 30 - 360000 148000 | 32 - 396000 448000 |
| Fan motor Number Inverter fan | °,A,E,L,N,U ° A,L E,U N ° | no. no. no. m³/h m³/h m³/h | 20 24 32 288000 360000 276000 |) 3) 2) 2 | 22 26 32 888000 896000 | 22 28 32 324000 396000 322000 | 24 28 34 324000 384000 322000 | 30 - 324000 384000 345000 |) 4 | 30 - 360000 148000 345000 | 32 - 396000 448000 368000 |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

| Size | | | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | Pa | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| High static process | A,L | Pa | 75 | 75 | 75 | 120 | 120 | 120 | 120 |
| High static pressure | E,U | Pa | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | N | Pa | 120 | 120 | 120 | 120 | - | - | - |
| Sound data calculated in cooling mode (| 1) | | | | | | | | |
| | 0 | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 103,0 | 103,0 |
| | A,U | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 |
| Sound power level | E | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 |
| | L | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 |
| | N | dB(A) | 95,0 | 95,0 | 95,0 | 95,0 | - | - | - |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------|-------------|----|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | °,A,E,L,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 6350 | 7140 |
| (| A,L | mm | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 |
| | E,U | mm | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 | 10710 |
| | N | mm | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 9520 | 10710 | 11900 | 13090 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 02 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| | °,A,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | E,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - |
| | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | - | - | - | - | - |
| | °,A,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | E,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | - | - | - | - | - |
| | 0 | mm | 7140 | 8330 | 8330 | 9520 | 9520 | 952 | 20 - | 10710 | 11110 | 11110 | 11900 | 13090 | 13090 | 13090 |
| | A,L | mm | 9520 | 10710 | 10710 | 10710 | 11900 | 130 | 90 | 13090 | 14280 | 14280 | 16660 | 16660 | 17850 | 20230 |
| (| E,U | mm | 11900 | 11900 | 13090 | 13090 | 14280 | 154 | 70 | 16660 | 16660 | 17850 | 17850 | 19040 | - | - |
| | N | mm | 13090 | 15470 | 16660 | 17850 | 19040 | 190 | 40 | 19040 | 20230 | - | - | - | - | - |

For transport reasons, the units with the depth of more than 13090 \mbox{mm} are shipped separately. For more information, please refer to the technical manual and / or installation.

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------------|--------|----------|---------------|---------------|---------------|---------------|---------------|--------------|------------------|------------|----------------|---------------------|---------------------|----------------|-------|----------------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | |
| | 0 | kg | 3660 | 3702 | 3831 | 4670 | 5040 | 5053 | 5077 | 5273 | 5396 | 5922 | 5977 | 6410 | 6901 | 7477 |
| - | A,L | kg | 4213 | 4249 | 4373 | 4699 | 5472 | 5488 | 5691 | 6228 | 6424 | 6477 | 6577 | 7656 | 8129 | 8647 |
| Empty weight - | E,U | kg | 4373 | 4394 | 4840 | 5431 | 5785 | 6333 | 6356 | 6805 | 6896 | 6914 | 6953 | 8149 | 8660 | 9431 |
| - | N | kg | 4791 | 4812 | 5373 | 5965 | 6318 | 6741 | 6764 | 7254 | 7346 | 7416 | 7508 | 8882 | 9759 | 10383 |
| | ٥ | kg | 3753 | 3790 | 3962 | 4801 | 5171 | 5202 | 5226 | 5548 | 5671 | 6244 | 6299 | 6732 | 7214 | 7790 |
| Weight functioning | A,L | kg | 4306 | 4337 | 4505 | 4848 | 5621 | 5637 | 5966 | 6503 | 6747 | 6799 | 6871 | 8173 | 8645 | 9152 |
| Weight functioning | E,U | kg | 4505 | 4543 | 4989 | 5753 | 6107 | 6655 | 6679 | 7118 | 7209 | 7279 | 7352 | 8718 | 9177 | 9936 |
| | N | kg | 4923 | 4962 | 5522 | 6287 | 6641 | 7063 | 7086 | 7567 | 7659 | 7729 | 7802 | 9399 | 10276 | 10888 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 02 64 | 02 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | | | | | |
| | ٥ | kg | 7574 | 7993 | 8302 | 8826 | 8954 | 901 | 17 97 | 19 | 11612 | 11688 | 12216 | 12761 | 13047 | 13176 |
| - | A,L | kg | 8710 | 9428 | 9481 | 9902 | 10433 | 3 110 | 18 110 |)60 | 13354 | 13417 | 14572 | 14625 | 15743 | 16934 |
| Empty weight - | E,U | kg | 9922 | 9983 | 10887 | 11013 | 11820 | 122 | 61 127 | 701 | 14514 | 15005 | 15119 | 16034 | - | - |
| | L,U | ĸy | //LL | ,,,, | | | | | | | | | | | | |
| - - | N N | kg | 10456 | 11646 | 12355 | 12989 | 12721 | 136 | 66 137 | 709 | 16119 | - | - | - | - | - |
| - | N o | | | | 12355 8819 | 12989 9342 | 12721 9471 | | | | 16119 12527 | 12603 | 13089 | 13633 | 13920 | 14048 |
| Weight for atting | Ň | kg | 10456 | 11646 | | | | 952 | 22 102 | 224 | | - 12603 14184 | - 13089 15328 | 13633 15381 | | 14048 18126 |
| - Weight functioning | N ° | kg kg | 10456 7868 | 11646 8287 | 8819 | 9342 | 9471 | 952 7 118 | 22 102 98 119 | 224 940 | 12527 | | | | 13920 | |

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NSMI 1251-6102

Air-water chiller

Cooling capacity 285,6 ÷ 1342,6 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- Low electrical consumption





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with high-efficiency screw compressors axial fans, microchannel external coils and plant side shell and tube heat exchanger. In the unit with desuperheater, it is also possible to produce free-hot water

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Unit with 1 / 2 cooling circuits

Unit with 1-2 refrigerant circuits.

The single circuit units have the inverter compressor, while the dual-circuit have an asynchronous compressor on/off switch and an inverter, the combination provides both high efficiency at part load and full load.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

Low noise version

Silenced versions "E" feature a special compressor jacket which ensures a further noise reduction of approximately 4dB.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

Accessories

| Model | Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,E | • | • | • | | | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A,E | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

⁽¹⁾ x Indicates the quantity of accessories to match.

Antivibration

| Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | AVX991 | AVX992 | AVX993 | AVX996 | AVX970 | AVX995 | AVX995 | AVX995 | AVX996 | AVX988 | AVX997 | AVX998 | AVX998 | AVX998 | AVX998 |
| E | AVX991 | AVX992 | AVX994 | AVX996 | AVX970 | AVX995 | AVX995 | AVX995 | AVX996 | AVX988 | AVX997 | AVX998 | AVX998 | AVX998 | AVX998 |

Heater exchangers

| Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A,E | KRS23 | KRS24 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid kit

| Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| A,E | GP4V | GP4V | GP5V | GP5V | GP6V | GP7V | GP7V | GP7V | GP8V | GP9V | GP10V | GP11V | GP11V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3,4 | NSMI |
| 5,6,7,8 | Size 1251, 1601, 1801, 2352, 2652, 2802, 3202, 3402, 3802, 4102, 4402, 4802, 5202, 5702, 6102 |
| 9 | Model |
| 0 | Cooling only |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (1) |
| 11 | Version |
| Α | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Aluminium microchannel |
| 0 | Coated aluminium microchannel |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| ٧ | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V~3 50Hz with fuses |
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit |
| 00 | Without hydronic kit |
| | Kit with n° 1 pump |
| PA | Pump A |

| Field | Description |
|------------|---|
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (2) |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (2) |
| | Kit with 2 pumps |
| TF | Double pump F |
| TG | Double pump G |
| TH | Double pump H |
| TI | Double pump I |
| TJ | Double pump J (2) |
| (1) Minimu | m water temporature of 25 °C must always be ensured at heat eyebanger inlet if working with |

⁽¹⁾ Minimum water temperature of 35 °C must always be ensured at heat exchanger inlet if working with low temperatures of water produced in the primary circuit.

(2) For all configurations including pump J please contact the factory.

PERFORMANCE SPECIFICATIONS

NSMI - A/E

| Size | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------------------|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 285,6 | 382,0 | 464,0 | 519,1 | 605,4 | 659,4 | 725,2 | 802,4 | 842,6 | 948,0 | 1008,8 | 1110,4 | 1204,3 | 1253,0 | 1342,6 |
| Input power | kW | 91,3 | 120,2 | 149,5 | 167,1 | 194,3 | 212,3 | 232,7 | 257,5 | 269,9 | 304,8 | 324,7 | 356,2 | 397,4 | 415,9 | 454,6 |
| Cooling total input current | Α | 155,0 | 200,0 | 245,0 | 293,0 | 337,0 | 360,0 | 393,0 | 431,0 | 443,0 | 517,0 | 547,0 | 619,0 | 665,0 | 728,0 | 761,0 |
| EER | W/W | 3,13 | 3,18 | 3,10 | 3,11 | 3,12 | 3,11 | 3,12 | 3,12 | 3,12 | 3,11 | 3,11 | 3,12 | 3,03 | 3,01 | 2,95 |
| Water flow rate system side | l/h | 49130 | 65700 | 79773 | 89247 | 104092 | 113376 | 124682 | 137945 | 144852 | 162983 | 173442 | 190903 | 207040 | 215409 | 230815 |
| Pressure drop system side | kPa | 45 | 15 | 21 | 18 | 25 | 28 | 33 | 27 | 30 | 39 | 45 | 38 | 44 | 49 | 55 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|--|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825:2018) with standar | d fans (1) | | | | | | | | | | | | | | | | |
| SEER | A,E | W/W | 4,75 | 4,82 | 4,78 | 4,90 | 4,92 | 4,90 | 4,91 | 4,93 | 4,93 | 4,90 | 4,88 | 4,90 | 4,85 | 4,70 | 4,69 |
| Seasonal efficiency | A,E | % | 186,8% | 189,7% | 188,0% | 193,1% | 193,9% | 193,0% | 193,3% | 194,2% | 194,3% | 192,8% | 192,2% | 192,9% | 191,0% | 185,1% | 184,7% |
| SEER - (EN14825:2018) 12/7 with inverter | fans (1) | | | | | | | | | | | | | | | | |
| SEER | A,E | W/W | 4,95 | 5,04 | 5,00 | 5,01 | 5,03 | 5,01 | 5,02 | 5,04 | 5,04 | 5,00 | 4,99 | 5,00 | 4,96 | 4,81 | 4,80 |
| Seasonal efficiency | A,E | % | 194,9% | 198,4% | 196,8% | 197,3% | 198,1% | 197,2% | 197,6% | 198,5% | 198,5% | 197,1% | 196,4% | 197,1% | 195,3% | 189,2% | 188,8% |
| SEPR - (EN14825: 2018) High temperature | with standa | ard fans (2 |) | | | | | | | | | | | | | | |
| SEPR | A,E | W/W | 5,70 | 5,62 | 5,59 | 6,56 | 6,43 | 6,42 | 6,77 | 6,94 | 7,21 | 6,96 | 7,47 | 6,88 | 7,21 | 6,69 | 7,01 |
| SEPR - (EN14825: 2018) High temperature | with invert | er fans (2) | | | | | | | | | | | | | | | |
| SEPR | A,E | W/W | 5,70 | 5,62 | 5,59 | 6,56 | 6,43 | 6,42 | 6,77 | 6,94 | 7,21 | 6,96 | 7,47 | 6,88 | 7,21 | 6,69 | 7,01 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 251,3 | 291,3 | 377,7 | 442,0 | 473,0 | 519,4 | 519,4 | 567,4 | 653,8 | 708,1 | 753,5 | 874,8 | 917,2 | 1002,2 | 1036,2 |
| Peak current (LRA) | A,E | Α | 51,3 | 51,3 | 57,7 | 571,7 | 605,0 | 651,4 | 651,4 | 775,4 | 861,8 | 989,1 | 1059,4 | 1180,2 | 1335,2 | 1420,2 | 1532,2 |

GENERAL TECHNICAL DATA

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|----------------------------|-----|------|------|------|------|------|------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Screw | | | | | | | |
| Compressor regulation | A,E | Туре | - 1 | - | - 1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 | 1+I |
| Number | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | | | | R134a | | | | | | | |
| Refrigerant charge (1) | A,E | kg | 28,0 | 28,0 | 30,0 | 81,0 | 92,0 | 110,0 | 114,0 | 107,0 | 131,0 | 146,0 | 163,0 | 183,0 | 183,0 | 195,0 | 195,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | SI | hell and tu | be | | | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | | | G | rooved joir | nts | | | | | | |
| Sizes (in/out) | A,E | Ø | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 8" | 8" | 8" | 8" | 10" | 10" | 10" | 10" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

Fans

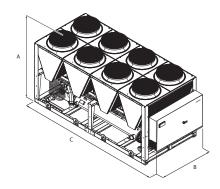
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|---------------|-----|------|--------|--------|--------|--------|--------|--------|----------|-----------|-----------|--------|--------|--------|--------|--------|--------|
| Fans: ° | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Axial | | | | | | | |
| Fan motor | A,E | type | | | | | | | Asynchro | nous with | phase cut | | | | | | |
| Number | A,E | no. | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 18 | 20 | 22 | 22 | 22 | 22 |
| Air flow rate | A,E | m³/h | 128000 | 128000 | 160000 | 160000 | 192000 | 224000 | 224000 | 224000 | 256000 | 288000 | 320000 | 396000 | 396000 | 396000 | 396000 |

Sound data

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|---|---|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | | | |
| Carrad marriage large | Α | dB(A) | 97,2 | 98,6 | 98,6 | 98,6 | 98,8 | 99,9 | 99,9 | 100,3 | 100,3 | 100,4 | 101,0 | 102,9 | 103,2 | 102,9 | 103,2 |
| Sound power level — | E | dB(A) | 92,9 | 95,8 | 95,9 | 94,7 | 95,1 | 96,1 | 96,1 | 97,3 | 97,4 | 97,7 | 98,0 | 99,9 | 99,9 | 99,9 | 99,9 |
| Cd ================================ | Α | dB(A) | 64,8 | 66,2 | 66,1 | 66,1 | 66,2 | 67,1 | 67,1 | 67,5 | 67,5 | 67,4 | 67,9 | 69,7 | 69,9 | 69,7 | 69,9 |
| Sound pressure level (10 m) | E | dB(A) | 60,6 | 63,4 | 63,4 | 62,1 | 62,5 | 63,3 | 63,3 | 64,6 | 64,5 | 64,7 | 64,8 | 66,7 | 66,7 | 66,7 | 66,7 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| С | A,E | mm | 4760 | 4760 | 5950 | 6400 | 7140 | 8330 | 8330 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 | 13090 | 13090 |
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| Emptywaight | Α | kg | 3752 | 4162 | 4578 | 6039 | 6447 | 6896 | 6987 | 7635 | 8103 | 8872 | 9324 | 10798 | 10888 | 10918 | 10991 |
| Empty weight — | E | kg | 4054 | 4464 | 4880 | 6642 | 7050 | 7499 | 7590 | 8239 | 8706 | 9475 | 9928 | 11637 | 11727 | 11757 | 11830 |
| Weight functioning — | Α | kg | 3832 | 4416 | 4832 | 6360 | 6768 | 7206 | 7275 | 8165 | 8632 | 9389 | 9841 | 11730 | 11819 | 11835 | 11908 |
| weight functioning | E | kg | 4134 | 4718 | 5134 | 6964 | 7371 | 7809 | 7878 | 8768 | 9236 | 9993 | 10445 | 12568 | 12658 | 12674 | 12747 |





















NSH

Reversible air/water heat pump

Cooling capacity 251 ÷ 731 kW Heating capacity 281 ÷ 786 kW



- · High efficiency also at partial loads
- Electronic expansion valve





DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Working at full load up to -10 °C outside air temperature in winter, and up to 48°C in summer. Hot water production up to 55°C (for more details refer to the technical documentation).

Bi-tri circuit unit

The units are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

KRS: Electric heater for the heat exchanger

AK: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

| Model | Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,E | • | • | | • | | • | | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A,E | | | • | | • | | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | | • | • | • | • | • | | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | | • | • | • | | • | • | • | • | • | | • |
| MULTICHILLER_EVO | A,E | • | • | • | | • | | • | • | • | | • | • | • | • | • | • | • |
| PRV3 | A,E | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Condensation control temperature

| Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E | DCPX69 | DCPX69 | DCPX68 | DCPX69 | DCPX68 | DCPX69 | DCPX68 | DCPX73 |

Anti-intrusion grid

| Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|-----|--------|--------|--------|--------|--------|---------|-------------|-------------|-------------|
| A,E | GP300M | GP300M | GP300B | GP300M | GP300B | GP400M | GP400B | GP500B | GP500B |
| Ver | 2352 | 2502 | 2652 | 2802 | | 3002 | 3202 | 3402 | 3602 |
| A,E | GP500B | GP500B | GP500B | GP500B | GP30 | 0M+300M | GP300M+300M | GP300M+400M | GP400M+400M |

Antivibration

| Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydro | nic kit: 00 | | | | | | | | | | | | | | | | |
| A,E | AVX536 | AVX536 | AVX537 | AVX536 | AVX538 | AVX540 | AVX541 | AVX543 | AVX543 | AVX545 | AVX549 | AVX551 | AVX551 | AVX554 | AVX556 | AVX557 | AVX559 |
| Integrated hydro | nic kit: PA | | | | | | | | | | | | | | | | |
| A,E | AVX536 | AVX536 | AVX537 | AVX536 | AVX538 | AVX540 | AVX541 | AVX543 | AVX543 | AVX545 | AVX550 | AVX551 | AVX551 | AVX553 | AVX553 | AVX557 | AVX559 |
| Integrated hydro | nic kit: PC, PE, | PG, PJ | | | | | | | | | | | | | | | |
| A,E | AVX536 | AVX536 | AVX538 | AVX536 | AVX538 | AVX540 | AVX541 | AVX543 | AVX543 | AVX545 | AVX550 | AVX551 | AVX551 | AVX553 | AVX555 | AVX557 | AVX559 |

Heater exchangers

| Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A,E | KRS11 | KRS11 | KRS19 | KRS11 | KRS19 | KRS11 | KRS19 | KRS14 | KRS14 | KRS14 | KRS14 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Power factor correction

| Ver | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|-----------------------|--------------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|
| A,E | RIFNSH1251 | RIFNSH1401 | RIFNSH1402 | RIFNSH1601 | RIFNSH1602 | RIFNSH1801 | RIFNSH1802 | RIFNSH2002 | RIFNSH2202 |
| A grey background inc | licates the accessory mu | st be assembled in the f | actory | | | | | | |
| Ver | 2352 | 2502 | 2652 | 2802 | | 3002 | 3202 | 3402 | 3602 |
| A,E | RIFNSH2352 | RIFNSH2502 | RIFNSH2652 | RIFNSH280 | 2 RIF | NSH3002 | RIFNSH3202 | RIFNSH3402 | RIFNSH3602 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NSH |
| 4,5,6,7 | Size |
| 4,3,0,7 | 1251, 1401, 1402, 1601, 1602, 1801, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602 |
| 8 | Operating field |
| X | Electronic thermostatic expansion valve |
| 9 | Model |
| H | Heat pump |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| 12 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 13 | Fans |
| 0 | Standard |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V~3 50Hz with fuses |
| 2 | 230V~3 50Hz with fuses (1) |
| 4 | 230V~3 50Hz with magnet circuit breakers (1) |
| 5 | 500V~3 50Hz with fuses (2) |
| 8 | 400V~3 50Hz with magnet circuit breakers |
| 9 | 500V~3 50Hz with magnet circuit breakers (2) |
| 15,16 | Integrated hydronic kit |
| | Without hydronic kit |
| 00 | Without hydronic kit |
| | Kit with n° 1 pump |
| PA | Pump A |
| PC | Pump C |
| PE | Pump E |
| PG | Pump G |
| PJ | Pump J (3) |

PERFORMANCE SPECIFICATIONS

NS - HA

| | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|-----|-----------------------------------|--|---|--|---|--|---|--|---|
| | | | | | | | | | |
| kW | 262,7 | 281,7 | 257,7 | 309,7 | 315,6 | 365,6 | 365,6 | 384,6 | 414,5 |
| kW | 86,9 | 95,0 | 94,9 | 107,8 | 108,3 | 128,3 | 125,3 | 132,5 | 138,8 |
| A | 149,0 | 164,0 | 168,0 | 185,0 | 186,0 | 215,0 | 216,0 | 227,0 | 233,0 |
| W/W | 3,02 | 2,96 | 2,72 | 2,87 | 2,91 | 2,85 | 2,92 | 2,90 | 2,99 |
| l/h | 45186 | 48451 | 44327 | 53262 | 54292 | 62883 | 62883 | 66147 | 71302 |
| kPa | 38 | 41 | 36 | 27 | 50 | 43 | 43 | 47 | 53 |
| | | | | | | | | | |
| kW | 281,4 | 297,4 | 281,4 | 332,3 | 342,5 | 393,5 | 395,5 | 412,5 | 450,6 |
| kW | 88,2 | 94,2 | 93,2 | 104,0 | 106,8 | 126,7 | 123,7 | 133,9 | 141,3 |
| A | 150,0 | 163,0 | 165,0 | 180,0 | 182,0 | 212,0 | 213,0 | 229,0 | 236,0 |
| W/W | 3,19 | 3,16 | 3,02 | 3,20 | 3,21 | 3,11 | 3,20 | 3,08 | 3,19 |
| l/h | 48838 | 51618 | 48838 | 57701 | 59439 | 68303 | 68651 | 71605 | 78210 |
| kPa | 47 | 49 | 47 | 33 | 64 | 54 | 54 | 58 | 67 |
| | kW A W/W I/h kPa kW kW A W/W I/h | kW 262,7 kW 86,9 A 149,0 W/W 3,02 I/h 45186 kPa 38 kW 281,4 kW 88,2 A 150,0 W/W 3,19 I/h 48838 | kW 262,7 281,7 kW 86,9 95,0 A 149,0 164,0 W/W 3,02 2,96 I/h 45186 48451 kPa 38 41 kW 281,4 297,4 kW 88,2 94,2 A 150,0 163,0 W/W 3,19 3,16 I/h 48838 51618 | kW 262,7 281,7 257,7 kW 86,9 95,0 94,9 A 149,0 164,0 168,0 W/W 3,02 2,96 2,72 I/h 45186 48451 44327 kPa 38 41 36 kW 281,4 297,4 281,4 kW 88,2 94,2 93,2 A 150,0 163,0 165,0 W/W 3,19 3,16 3,02 I/h 48838 51618 48838 | kW 262,7 281,7 257,7 309,7 kW 86,9 95,0 94,9 107,8 A 149,0 164,0 168,0 185,0 W/W 3,02 2,96 2,72 2,87 I/h 45186 48451 44327 53262 kPa 38 41 36 27 kW 281,4 297,4 281,4 332,3 kW 88,2 94,2 93,2 104,0 A 150,0 163,0 165,0 180,0 W/W 3,19 3,16 3,02 3,20 I/h 48838 51618 48838 57701 | kW 262,7 281,7 257,7 309,7 315,6 kW 86,9 95,0 94,9 107,8 108,3 A 149,0 164,0 168,0 185,0 186,0 W/W 3,02 2,96 2,72 2,87 2,91 I/h 45186 48451 44327 53262 54292 kPa 38 41 36 27 50 kW 281,4 297,4 281,4 332,3 342,5 kW 88,2 94,2 93,2 104,0 106,8 A 150,0 163,0 165,0 180,0 182,0 W/W 3,19 3,16 3,02 3,20 3,21 I/h 48838 51618 48838 57701 59439 | kW 262,7 281,7 257,7 309,7 315,6 365,6 kW 86,9 95,0 94,9 107,8 108,3 128,3 A 149,0 164,0 168,0 185,0 186,0 215,0 W/W 3,02 2,96 2,72 2,87 2,91 2,85 I/h 45186 48451 44327 53262 54292 62883 kPa 38 41 36 27 50 43 kW 281,4 297,4 281,4 332,3 342,5 393,5 kW 88,2 94,2 93,2 104,0 106,8 126,7 A 150,0 163,0 165,0 180,0 182,0 212,0 W/W 3,19 3,16 3,02 3,20 3,21 3,11 I/h 48838 51618 48838 57701 59439 68303 | kW 262,7 281,7 257,7 309,7 315,6 365,6 365,6 kW 86,9 95,0 94,9 107,8 108,3 128,3 125,3 A 149,0 164,0 168,0 185,0 186,0 215,0 216,0 W/W 3,02 2,96 2,72 2,87 2,91 2,85 2,92 I/h 45186 48451 44327 53262 54292 62883 62883 kPa 38 41 36 27 50 43 43 kW 281,4 297,4 281,4 332,3 342,5 393,5 395,5 kW 88,2 94,2 93,2 104,0 106,8 126,7 123,7 A 150,0 163,0 165,0 180,0 182,0 212,0 213,0 W/W 3,19 3,16 3,02 3,20 3,21 3,11 3,20 I/h 48838 51618 | kW 262,7 281,7 257,7 309,7 315,6 365,6 365,6 384,6 kW 86,9 95,0 94,9 107,8 108,3 128,3 125,3 132,5 A 149,0 164,0 168,0 185,0 186,0 215,0 216,0 227,0 W/W 3,02 2,96 2,72 2,87 2,91 2,85 2,92 2,90 I/h 45186 48451 44327 53262 54292 62883 62883 66147 kPa 38 41 36 27 50 43 43 47 kW 281,4 297,4 281,4 332,3 342,5 393,5 395,5 412,5 kW 88,2 94,2 93,2 104,0 106,8 126,7 123,7 133,9 A 150,0 163,0 165,0 180,0 182,0 212,0 213,0 229,0 W/W 3,19 3,16 |

⁽¹⁾ Not available for size from 1251 to 1801 and from 2352 to 3602 (2) Not available for size 1801-3402-3602 (3) For all configurations including pump J please contact the factory.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| Size | | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|---------------------------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 454,6 | 499,5 | 524,5 | 547,5 | 591,5 | 619,6 | 675,5 | 731,4 |
| Input power | kW | 158,4 | 173,5 | 186,7 | 195,9 | 202,6 | 215,4 | 235,9 | 256,4 |
| Cooling total input current | A | 268,0 | 295,0 | 318,0 | 335,0 | 349,0 | 370,0 | 400,0 | 430,0 |
| EER | W/W | 2,87 | 2,88 | 2,81 | 2,80 | 2,92 | 2,88 | 2,86 | 2,85 |
| Water flow rate system side | l/h | 78174 | 85906 | 90201 | 94153 | 101712 | 106523 | 116144 | 125766 |
| Pressure drop system side | kPa | 37 | 38 | 40 | 43 | 34 | 27 | 35 | 43 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 502,5 | 541,5 | 563,6 | 585,6 | 629,5 | 664,5 | 725,6 | 786,7 |
| Input power | kW | 157,9 | 171,0 | 177,1 | 185,4 | 198,0 | 207,8 | 230,4 | 253,1 |
| Heating total input current | A | 267,0 | 292,0 | 303,0 | 318,0 | 342,0 | 359,0 | 391,0 | 423,0 |
| COP | W/W | 3,18 | 3,17 | 3,18 | 3,16 | 3,18 | 3,20 | 3,15 | 3,11 |
| Water flow rate system side | l/h | 87247 | 94025 | 97849 | 101673 | 109320 | 115403 | 126004 | 136606 |
| Pressure drop system side | kPa | 49 | 47 | 49 | 53 | 41 | 33 | 43 | 54 |

NS - HE

| Size | | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 250,7 | 266,7 | 242,7 | 292,7 | 301,6 | 343,6 | 349,6 | 366,6 | 394,5 |
| Input power | kW | 91,8 | 101,9 | 100,8 | 115,7 | 116,2 | 136,1 | 132,2 | 140,3 | 146,5 |
| Cooling total input current | A | 161,0 | 178,0 | 181,0 | 202,0 | 202,0 | 234,0 | 233,0 | 246,0 | 254,0 |
| EER | W/W | 2,73 | 2,62 | 2,41 | 2,53 | 2,60 | 2,52 | 2,65 | 2,61 | 2,69 |
| Water flow rate system side | l/h | 43125 | 45874 | 41750 | 50341 | 51887 | 59103 | 60134 | 63055 | 67865 |
| Pressure drop system side | kPa | 32 | 37 | 33 | 24 | 46 | 38 | 39 | 43 | 48 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 281,4 | 297,4 | 281,4 | 332,3 | 342,5 | 393,5 | 395,5 | 412,5 | 450,6 |
| Input power | kW | 88,2 | 94,2 | 93,2 | 104,0 | 106,8 | 126,7 | 123,7 | 133,9 | 141,3 |
| Heating total input current | A | 150,0 | 163,0 | 165,0 | 180,0 | 182,0 | 212,0 | 213,0 | 229,0 | 236,0 |
| COP | W/W | 3,19 | 3,16 | 3,02 | 3,20 | 3,21 | 3,11 | 3,20 | 3,08 | 3,19 |
| Water flow rate system side | l/h | 48838 | 51618 | 48838 | 57701 | 59439 | 68303 | 68651 | 71605 | 78210 |
| Pressure drop system side | kPa | 47 | 49 | 47 | 33 | 64 | 54 | 54 | 58 | 67 |
| | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

| Size | | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|---------------------------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 435,6 | 487,6 | 506,5 | 517,5 | 559,6 | 585,6 | 636,5 | 687,5 |
| Input power | kW | 169,3 | 192,4 | 202,5 | 210,6 | 217,4 | 231,2 | 251,6 | 272,0 |
| Cooling total input current | A | 293,0 | 333,0 | 349,0 | 365,0 | 380,0 | 403,0 | 436,0 | 468,0 |
| EER | W/W | 2,57 | 2,53 | 2,50 | 2,46 | 2,57 | 2,53 | 2,53 | 2,53 |
| Water flow rate system side | l/h | 74910 | 83844 | 87108 | 88998 | 96214 | 100681 | 109444 | 118206 |
| Pressure drop system side | kPa | 34 | 35 | 37 | 39 | 30 | 24 | 31 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 502,5 | 541,5 | 563,6 | 585,6 | 629,5 | 664,5 | 725,6 | 786,7 |
| Input power | kW | 157,9 | 171,0 | 177,1 | 185,4 | 198,0 | 207,8 | 230,4 | 253,1 |
| Heating total input current | A | 267,0 | 292,0 | 303,0 | 318,0 | 342,0 | 359,0 | 391,0 | 423,0 |
| COP | W/W | 3,18 | 3,17 | 3,18 | 3,16 | 3,18 | 3,20 | 3,15 | 3,11 |
| Water flow rate system side | I/h | 87247 | 94025 | 97849 | 101673 | 109320 | 115403 | 126004 | 136606 |
| Pressure drop system side | kPa | 49 | 47 | 49 | 53 | 41 | 33 | 43 | 54 |

ENERGY DATA

| EITERGT DATE | ** | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------|-----------|------------|------------|-------------|------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
| UE 813/2013 perform | ance in avera | ge ambie | nt conditi | ons (avera | age) - 35 ° | C - Pdesig | nh ≤ 400 | kW (1) | | | | | | | | | | | |
| Pdesignh | A,E | kW | 185 | 195 | 185 | 218 | 225 | 259 | 260 | 271 | 297 | 330 | 356 | 370 | 385 | 325 | 342 | 374 | 400 |
| SCOP | A,E | W/W | 3,33 | 3,28 | 3,23 | 3,33 | 3,33 | 3,23 | 3,33 | 3,20 | 3,30 | 3,30 | 3,30 | 3,33 | 3,30 | 3,35 | 3,40 | 3,33 | 3,28 |
| ηsh | A,E | % | 130.0% | 128.0% | 126.0% | 130.0% | 130.0% | 126.0% | 130.0% | 125.0% | 129.0% | 129.0% | 129.0% | 130.0% | 129.0% | 131.0% | 133.0% | 130.0% | 128.0% |
| SEER - 12/7 (EN14825 | :2018) with s | tandard f | ans (2) | | | | | | | | | | | | | | | | |
| SEER - | Α | W/W | 3,88 | 3,81 | 3,46 | 3,76 | 3,68 | 3,71 | 3,73 | 3,70 | 3,80 | 3,72 | 3,74 | 3,66 | 3,64 | 3,81 | 3,76 | 3,73 | 3,72 |
| JEEK - | E | W/W | 3,41 | 3,28 | 3,00 | 3,19 | 3,23 | 3,19 | 3,32 | 3,28 | 3,37 | 3,28 | 3,23 | 3,18 | 3,12 | 3,30 | 3,25 | 3,23 | 3,23 |
| Seasonal efficiency — | Α | % | 152.1% | 149.4% | 135.2% | 147.4% | 144.2% | 145.2% | 146.0% | 145.0% | 149.0% | 145.7% | 146.6% | 143.5% | 142.5% | 149.5% | 147.5% | 146.1% | 145.8% |
| seasonal enficiency | E | % | 133.4% | 128.1% | 116.8% | 124.4% | 126.2% | 124.7% | 129.7% | 128.2% | 131.8% | 128.1% | 126.3% | 124.3% | 121.7% | 129.1% | 126.9% | 126.1% | 126.2% |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Data EN 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b.

⁽¹⁾ Efficiencies for low temperature applications (35 °C) (2) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

ELECTRIC DATA

| Size | | | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 209,0 | 242,0 | 276,0 | 258,0 | 276,0 | 316,0 | 325,0 | 352,0 | 370,0 |
| Peak current (LRA) | A,E | А | 327,0 | 387,0 | 251,0 | 431,0 | 251,0 | 472,0 | 305,0 | 313,0 | 350,0 |
| Size | | | 2352 | 2502 | 2652 | 280 | 02 | 3002 | 3202 | 3402 | 3602 |
| Electric data | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 390,0 | 410,0 | 443,0 | 476 | 5,0 | 500,0 | 516,0 | 574,0 | 631,0 |
| Peak current (LRA) | ΔF | Δ | 365,0 | 436,0 | 461,0 | 521 | 0 | 534,0 | 578,0 | 612,0 | 653,0 |

GENERAL TECHNICAL DATA

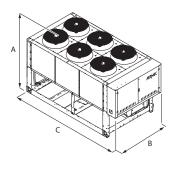
| Size | | | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 |
|---------------------------------------|-----|-------|--------|--------|--------|--------|------------------|---------|--------|--------|--------|
| Compressor | | | | | | | | | | | |
| Туре | A,E | type | | | | | Screw | | | | |
| Number | A,E | no. | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 |
| Circuits | A,E | no. | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | R134a | | | | |
| System side heat exchanger | | | | | | | | | | | |
| Туре | A,E | type | | | | | Shell and tube | | | | |
| Number | A,E | no. | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 |
| System side hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | Grooved joints | | | | |
| Sizes (in/out) | A,E | Ø | | | | | 6" | | | | |
| Fan | | | | | | | | | | | |
| Туре | A,E | type | | | | | Axial | | | | |
| Fan motor | A | type | | | | | Asynchronous | | | | |
| Fan motor | E | type | | | | Async | hronous with pha | ise cut | | | |
| Number | A,E | no. | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 |
| A: A | A | m³/h | 117600 | 117600 | 117600 | 112200 | 112200 | 156000 | 153200 | 196000 | 196000 |
| Air flow rate | E | m³/h | 82320 | 117600 | 82320 | 78540 | 78540 | 109200 | 107240 | 137200 | 137200 |
| Sound data calculated in cooling mode | (1) | | | | | | | | | | |
| County and a county lawy | A | dB(A) | 94,0 | 94,0 | 94,0 | 95,0 | 95,0 | 96,0 | 96,0 | 97,0 | 97,0 |
| Sound power level | E | dB(A) | 89,0 | 89,0 | 89,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 |
| Cound procesure level /10 m) | A | dB(A) | 62,0 | 62,0 | 62,0 | 63,0 | 63,0 | 64,0 | 64,0 | 64,0 | 64,0 |
| Sound pressure level (10 m) | E | dB(A) | 57,0 | 57,0 | 57,0 | 58,0 | 58,0 | 59,0 | 59,0 | 59,0 | 59,0 |

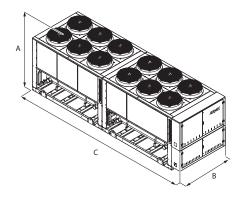
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|---------------------------------------|-----|-------|--------|--------|--------|--------------|----------------|--------|--------|--------|
| Compressor | | | | | | | | | | |
| Туре | A,E | type | | | | Sci | ew | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | R1 | 34a | | | |
| System side heat exchanger | | | | | | | | | | |
| Туре | A,E | type | | | | Shell a | nd tube | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| System side hydraulic connections | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | Groove | d joints | | | |
| Sizes (in/out) | A,E | Ø | | | | (|)" | | | |
| Fan | | | | | | | | | | |
| Туре | A,E | type | | | | A | rial | | | |
| | А | type | | | | Asynch | ironous | | | |
| Fan motor | E | type | | | | Asynchronous | with phase cut | | | |
| Number | A,E | no. | 10 | 10 | 10 | 10 | 12 | 12 | 14 | 16 |
| A: 4 | Α | m³/h | 196000 | 196000 | 191500 | 187000 | 229800 | 224400 | 268200 | 312000 |
| Air flow rate | E | m³/h | 137200 | 137200 | 134050 | 130900 | 196140 | 157080 | 187740 | 218400 |
| Sound data calculated in cooling mode | (1) | | | | | | | | | |
| - | А | dB(A) | 97,0 | 97,0 | 97,0 | 97,0 | 97,0 | 98,0 | 99,0 | 99,0 |
| Sound power level | E | dB(A) | 92,0 | 92,0 | 92,0 | 92,0 | 92,0 | 93,0 | 94,0 | 94,0 |
| C | A | dB(A) | 64,0 | 65,0 | 65,0 | 65,0 | 64,0 | 65,0 | 66,0 | 66,0 |
| Sound pressure level (10 m) | E | dB(A) | 59,0 | 60,0 | 60,0 | 60,0 | 59,0 | 60,0 | 61,0 | 61,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS





| Size | | | 1251 | 1401 | 1402 | 1601 | 1602 | 1801 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| (| A,E | mm | 3780 | 3780 | 3780 | 3780 | 3780 | 4770 | 4770 | 5750 | 5750 | 5750 | 5750 | 5750 | 5750 | 7160 | 7160 | 8150 | 8150 |
| Weights | | | | | | | | | | | | | | | | | | | |
| Without hydronic kit | A,E | kg | 3245 | 3280 | 3570 | 3435 | 3835 | 4115 | 4005 | 4385 | 4570 | 4940 | 5265 | 5470 | 5610 | 6540 | 6745 | 7425 | 8105 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NSG

Air-water chiller

Cooling capacity 228 ÷ 1580 kW



- Microchannel coil
- High efficiency also at partial loads
- Night mode





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with high-efficiency screw compressors axial fans, microchannel external coils and plant side shell and tube heat exchanger. In the unit with desuperheater, it is also possible to produce free-hot water

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

E Silenced high efficiency

L Standard silenced

N Silenced very high efficiency

U Very high efficiency

FEATURES

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

da ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430:

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Bi-tri circuit unit

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
 Night Mode for standard versions is mandatory DCPX accessory (standard on all low noise versions) or "J" inverter fan

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------|-------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|
| AER485P1 x n° 2 (1) | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,A,E,L,N,U | • | • | • | • | • | | • | • | | • | • | • | • | • |
| AERNET | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERSET | °,A,E,L,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,A,E,L,N,U | • | • | • | • | • | • | | • | • | | | • | • | |
| PRV3 | °,A,E,L,N,U | • | • | • | • | ٠ | • | • | • | • | • | | • | • | • |
| Model | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 64 | 102 6 | 5503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 x n° 2 (1) | °,A,E,L,N,U | • | • | | • | | • | | | | | | | | |
| | °,A,L | | | | | | | | | • | | • | | • | • |
| AER485P1 x n° 3 (1) | E,U | | | | | | | | | • | | • | | | |
| | N | | | | | | | | | | | | | | |
| | °,A,L | • | • | | | | • | | • | | | • | | | • |
| AERBACP | E,U | • | • | | | | • | | • | | | • | | | |
| | N | • | • | • | • | • | • | | • | | | | | | |
| | °,A,L | • | • | | • | • | • | | • | • | • | • | • | • | • |
| AERNET | E,U | • | • | | • | • | • | | | • | • | • | • | | |
| | N | • | • | • | • | • | • | | • | • | | | | | |
| | °,A,L | • | | | • | • | • | | | • | • | • | • | • | • |
| AERSET | E,U | • | • | • | • | • | • | | • | • | • | • | • | | |
| | N | • | • | | • | • | • | | • | • | | | | | |
| | °,A,L | • | • | | • | • | • | | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | E,U | • | | • | | | | | • | • | | • | | | |
| | N | • | | • | • | • | | | • | • | | | | | |
| | °,A,L | • | • | • | • | • | • | | • | • | • | • | • | • | • |
| PRV3 | E,U | • | • | • | • | | | | • | • | • | • | • | | |
| | N | • | • | • | • | | | | • | | | | | | |

⁽¹⁾ x Indicates the quantity of accessories to match.

Condensation control temperature

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 |
|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ans: M | | | | | | | | | | |
| 0 | DCPX110 | DCPX111 | DCPX111 | DCPX112 |
| A | DCPX111 | DCPX111 | DCPX111 | DCPX111 | DCPX112 | DCPX112 | DCPX112 | DCPX113 | DCPX113 | DCPX113 |
| E,L,N | As standard |
| U | DCPX111 | DCPX111 | DCPX112 | DCPX112 | DCPX113 | DCPX113 | DCPX114 | DCPX114 | DCPX114 | DCPX114 |
| Ver | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 |
| ans: M | | | | | | | | | | |
| 0 | DCPX112 | DCPX112 | DCPX112 | DCPX113 | DCPX113 | DCPX114 | DCPX114 | DCPX115 | DCPX115 | DCPX115 |
| A | DCPX113 | DCPX114 | DCPX114 | DCPX115 | DCPX115 | DCPX116 | DCPX116 | DCPX116 | DCPX117 | DCPX118 |
| E,L,N | As standard |
| U | DCPX114 | DCPX115 | DCPX115 | DCPX116 | DCPX117 | DCPX117 | DCPX118 | DCPX119 | DCPX130 | DCPX131 |
| Ver | 6402 | | 6503 | 6703 | 69 | 03 | 7203 | 8403 | | 9603 |

| Ver | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Fans: M | | | | | | | |
| ٥ | DCPX116 | DCPX135+DCPX113 | DCPX135+DCPX113 | DCPX125+DCPX114 | DCPX114+DCPX136 | DCPX114+DCPX136 | DCPX114+DCPX136 |
| A | DCPX118 | DCPX115+DCPX136 | DCPX115+DCPX136 | DCPX116+DCPX136 | DCPX116+DCPX136 | DCPX117+DCPX136 | - |
| E,N | As standard | As standard | As standard | As standard | As standard | - | - |
| L | As standard | As standard | As standard | As standard | As standard | As standard | As standard |
| U | DCPX132 | DCPX116+DCPX137 | DCPX117+DCPX137 | DCPX117+DCPX137 | DCPX118+DCPX137 | - | - |

The accessory cannot be fitted on the configurations indicated with -

Antivibration

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydror | nic kit: 00 | | | | | | | | | | | | | |
| 0 | AVX962 | AVX962 | AVX962 | AVX963 | AVX963 | AVX963 | AVX963 | AVX968 | AVX968 | AVX966 | AVX966 | AVX966 | AVX966 | AVX965 |
| A,L | AVX963 | AVX963 | AVX963 | AVX963 | AVX964 | AVX964 | AVX966 | AVX965 | AVX965 | AVX970 | AVX965 | AVX967 | AVX967 | AVX969 |
| E,U | AVX963 | AVX963 | AVX964 | AVX966 | AVX966 | AVX965 | AVX965 | AVX967 | AVX967 | AVX967 | AVX967 | AVX969 | AVX969 | AVX971 |
| N | AVX964 | AVX964 | AVX987 | AVX965 | AVX965 | AVX967 | AVX967 | AVX969 | AVX969 | AVX969 | AVX969 | AVX971 | AVX961 | AVX972 |

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------|-------------|--------|--------|---------|---------|---------|---------|---|--------|--------|--------|--------|--------|
| Integrated hydro | nic kit: 00 | | | | | | | | | | | | |
| 0 | AVX965 | AVX967 | AVX967 | AVX969 | AVX969 | AVX969 | AVX971 | AVX978 | AVX978 | AVX983 | AVX984 | AVX984 | AVX984 |
| A,L | AVX969 | AVX971 | AVX971 | AVX971 | AVX961 | AVX972 | AVX972 | AVX979 | AVX979 | AVX980 | AVX980 | AVX986 | AVX981 |
| E,U | AVX961 | AVX961 | AVX972 | AVX972 | AVX976 | AVX973 | AVX974 | AVX980 | AVX982 | AVX982 | AVX985 | - | - |
| N N | ΔVX972 | ΔVΧ973 | ΔVΧ974 | Δ\/Χ975 | Δ\/Χ977 | Δ\/Χ977 | Δ\/Χ977 | Δ\/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | _ | _ | _ | _ | |

Power factor correction

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °,A,E,L,N,U | RIF (1) |

(1) Contact the factory
A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| °,A,L | RIF (1) |
| E,U | RIF (1) | - | - |
| N | RIF (1) | - | - | - | - | - |

(1) Contact the factory
A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 0 | GP3V | GP3V | GP3V | GP4V | GP4V | GP4V | GP4V | GP4V | GP4V | GP5V | GP5V | GP5V | GP5V | GP6V |
| A | GP4V | GP4V | GP4V | GP5V | GP5V | GP5V | GP5V | GP6V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V |
| E,U | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V | GP8V | GP8V | GP9V |
| L | GP4V | GP4V | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V |
| N | GP5V | GP5V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP8V | GP8V | GP9V | GP10V | GP11V |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---|-----|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| Ī | 0 | GP6V | GP7V | GP7V | GP8V | GP8V | GP8V | GP9V | GP9V | GP9V | GP10V | GP11V | GP11V | GP11V |
| | A,L | GP8V | GP9V | GP9V | GP9V | GP10V | GP11V | GP11V | GP4V+GP8V | GP4V+GP8V | GP5V+GP9V | GP5V+GP9V | GP5V+GP10V | GP6V+GP11V |
| | E,U | GP10V | GP10V | GP11V | GP11V | GP6V+GP6V | GP6V+GP7V | GP7V+GP7V | GP5V+GP9V | GP5V+GP10V | GP5V+GP10V | GP6V+GP11V | - | - |
| | N | GP11V | GP6V+GP7V | GP7V+GP7V | GP7V+GP8V | GP8V+GP8V | GP8V+GP8V | GP8V+GP8V | GP6V+GP11V | - | - | - | - | - |

A grey background indicates the accessory must be assembled in the factory

Heater exchangers

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,A,L | KRS22 | KRS22 | KRS23 |
| E.N.U | KRS23 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 |
|-----|-------|-------|-------|-------|-------|-------|-------------|-------------|-------------|-------------|
| 0 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 |
| A,L | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 |
| E,U | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS23 | KRS23+KRS23 |
| N | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | KRS24 |
| A,L | KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 |
| E,U | KRS23+KRS23 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | - | - |
| N | KRS23+KRS23 | KRS23+KRS24 | - | - | - | - | - |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

CONFIGURATOR

| Fiel | d | Description |
|------|-----|--|
| 1,2, | 3 | NSG |
| 4,5, | 6,7 | Size 1402, 1602, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602, 3902, 4202, 4502, 4802, 5202, 5602, 6002, 6402, 6503, 6703, 6903, 7203, 8403, 9603 |
| 8 | | Operating field |
| | Χ | Electronic thermostatic expansion valve (1) |
| | Z | Low temperature electronic thermostatic valve (2) |
| 9 | | Model |
| | 0 | Cooling only |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (3) |
| | T | With total recovery (4) |
| 11 | | Version |
| | 0 | Standard |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| | L | Standard silenced |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | | Coils |
| | 0 | Aluminium microchannel |
| | 0 | Coated aluminium microchannel |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | V | Copper pieps-Coated aluminium fins |
| 13 | | Fans |
| | J | Inverter |
| | М | Oversized |
| 14 | | Power supply |
| | 0 | 400V∼3 50Hz with fuses |
| | 2 | 230V~3 50Hz with fuses (5) |
| | 4 | 230V~3 50Hz with magnet circuit breakers (5) |
| | 5 | 500V~3 50Hz with fuses (6) |
| | 8 | 400V~3 50Hz with magnet circuit breakers |
| | 9 | 500V~3 50Hz with magnet circuit breakers (6) |

| Field | Description |
|-------|--------------------------------|
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| | Kit with n° 1 pump |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (7) |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (7) |
| | Kit with 2 pumps |
| TF | Double pump F (8) |
| TG | Double pump G (8) |
| TH | Double pump H (8) |
| TI | Double pump I (8) |
| TJ | Double pump J (8) |

- (1) Water produced from 0 °C ÷ 15 °C
 (2) Water produced from 0 °C ÷ 5 °C
 (3) The temperature of the water in the heat exchanger inlet must never drop below 35°C.
 (4) The temperature of the water in the heat exchanger inlet must never drop below 35°C. The units from 1402° 1602° 1802° with total recovery are not configurable with the integrated hydronic kit. For all other sizes and versions it is to be evaluated at the order stage.
 (5) Only for sizes from 1402 to 2202
 (6) Only for sizes from 1402 to 3202
 (7) For all configurations including pump J please contact the factory.
 (8) The unit from 5603 to 9603 can only have hydronic kit "TF TG TH- TI TJ"

PERFORMANCE SPECIFICATIONS

NSG - °

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|----------------|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 228,6 | 261,3 | 297,8 | 334,1 | 358,6 | 389,8 | 402,8 | 443,7 | 462,6 | 506,3 | 531,6 | 566,5 | 623,6 | 676,0 |
| Input power | kW | 74,3 | 85,8 | 100,4 | 108,3 | 119,9 | 129,9 | 138,2 | 151,6 | 162,6 | 167,0 | 175,7 | 193,9 | 214,9 | 228,2 |
| Cooling total input current | А | 138,0 | 156,0 | 174,0 | 192,0 | 214,0 | 233,0 | 248,0 | 271,0 | 289,0 | 297,0 | 309,0 | 332,0 | 359,0 | 390,0 |
| EER | W/W | 3,08 | 3,05 | 2,97 | 3,08 | 2,99 | 3,00 | 2,91 | 2,93 | 2,85 | 3,03 | 3,02 | 2,92 | 2,90 | 2,96 |
| Water flow rate system side | l/h | 39316 | 44954 | 51218 | 57461 | 61665 | 67027 | 69255 | 76286 | 79541 | 87045 | 91392 | 97398 | 107202 | 116226 |
| Pressure drop system side | kPa | 14 | 18 | 16 | 21 | 24 | 20 | 22 | 18 | 19 | 17 | 19 | 21 | 24 | 29 |
| (1) Data EN 14511:2022: Heat exchanger water (servi | ices side) 12° | C / 7°C: outs | ide air 35°C | | | | | | | | | | | | |

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 739,5 | 792,4 | 835,2 | 874,9 | 897,0 | 942,5 | 989,1 | 1060,2 | 1095,1 | 1215,2 | 1268,8 | 1333,1 | 1410,0 |
| Input power | kW | 251,7 | 263,0 | 281,6 | 288,8 | 302,5 | 320,8 | 329,9 | 355,3 | 375,5 | 407,7 | 419,3 | 461,7 | 512,0 |
| Cooling total input current | A | 434,0 | 454,0 | 482,0 | 500,0 | 524,0 | 558,0 | 581,0 | 609,0 | 649,0 | 701,0 | 728,0 | 805,0 | 900,0 |
| EER | W/W | 2,94 | 3,01 | 2,97 | 3,03 | 2,97 | 2,94 | 3,00 | 2,98 | 2,92 | 2,98 | 3,03 | 2,89 | 2,75 |
| Water flow rate system side | l/h | 127152 | 136250 | 143578 | 150403 | 154212 | 162036 | 170045 | 182263 | 188254 | 208871 | 218093 | 229141 | 242359 |
| Pressure drop system side | kPa | 33 | 38 | 28 | 31 | 33 | 38 | 42 | 29 | 31 | 20 | 22 | 25 | 28 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSG - L

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|--------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,7 | 261,7 | 298,7 | 335,0 | 373,6 | 386,8 | 415,2 | 446,3 | 476,8 | 498,0 | 546,8 | 602,0 | 645,3 | 707,0 |
| Input power | kW | 72,7 | 84,0 | 98,1 | 112,6 | 120,1 | 128,4 | 138,3 | 144,3 | 155,8 | 165,4 | 179,1 | 193,2 | 212,5 | 231,2 |
| Cooling total input current | А | 131,0 | 148,0 | 165,0 | 192,0 | 208,0 | 224,0 | 242,0 | 252,0 | 270,0 | 284,0 | 303,0 | 318,0 | 342,0 | 375,0 |
| EER | W/W | 3,13 | 3,12 | 3,04 | 2,97 | 3,11 | 3,01 | 3,00 | 3,09 | 3,06 | 3,01 | 3,05 | 3,12 | 3,04 | 3,06 |
| Water flow rate system side | l/h | 39167 | 45014 | 51371 | 57614 | 64237 | 66506 | 71390 | 76738 | 81966 | 85616 | 94000 | 103492 | 110929 | 121547 |
| Pressure drop system side | kPa | 15 | 18 | 17 | 15 | 19 | 20 | 16 | 19 | 16 | 17 | 19 | 15 | 18 | 22 |
| (1) Data EN 14511:2022; Heat exchanger water (service | s side) 12°C | :/7°C; outsi | de air 35°C | | | | | | | | | | | | |
| Size | | 4202 | 4502 | 4802 | 5202 | 2 560 | 2 60 | 02 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |

| SIZE | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6/03 | 6903 | /203 | 8403 | 9603 |
|-----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 743,5 | 806,3 | 841,6 | 893,3 | 933,8 | 982,7 | 1023,0 | 1083,7 | 1120,2 | 1222,9 | 1269,4 | 1383,5 | 1517,2 (2) |
| Input power | kW | 252,4 | 266,7 | 283,5 | 297,7 | 306,0 | 315,5 | 334,5 | 357,8 | 379,1 | 402,0 | 421,5 | 465,5 | 504,7 |
| Cooling total input current | А | 416,0 | 437,0 | 465,0 | 490,0 | 507,0 | 533,0 | 563,0 | 583,0 | 623,0 | 670,0 | 699,0 | 763,0 | 848,0 |
| EER | W/W | 2,95 | 3,02 | 2,97 | 3,00 | 3,05 | 3,12 | 3,06 | 3,03 | 2,96 | 3,04 | 3,01 | 2,97 | 3,01 |
| Water flow rate system side | l/h | 127821 | 138615 | 144692 | 153568 | 160522 | 168943 | 175872 | 186277 | 192550 | 210223 | 218211 | 237808 | 260789 |
| Pressure drop system side | kPa | 24 | 31 | 33 | 24 | 26 | 31 | 33 | 22 | 24 | 31 | 33 | 26 | 32 |
| | | | | | | | | | | | | | | |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSG - A

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 233,0 | 267,3 | 306,8 | 346,4 | 383,4 | 397,6 | 429,0 | 458,6 | 491,7 | 511,7 | 561,1 | 619,9 | 669,1 | 731,1 |
| Input power | kW | 73,5 | 83,8 | 96,7 | 109,8 | 118,4 | 126,0 | 134,9 | 142,3 | 152,7 | 160,7 | 171,9 | 187,9 | 206,4 | 224,9 |
| Cooling total input current | A | 139,0 | 155,0 | 170,0 | 195,0 | 214,0 | 229,0 | 246,0 | 260,0 | 276,0 | 287,0 | 303,0 | 322,0 | 344,0 | 380,0 |
| EER | W/W | 3,17 | 3,19 | 3,17 | 3,15 | 3,24 | 3,16 | 3,18 | 3,22 | 3,22 | 3,18 | 3,26 | 3,30 | 3,24 | 3,25 |
| Water flow rate system side | l/h | 40072 | 45975 | 52777 | 59582 | 65922 | 68370 | 73757 | 78851 | 84535 | 87974 | 96463 | 106561 | 115027 | 125681 |
| Pressure drop system side | kPa | 15 | 19 | 18 | 16 | 20 | 22 | 17 | 20 | 16 | 18 | 20 | 16 | 19 | 24 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 770,4 | 833,7 | 872,2 | 923,2 | 961,9 | 1011,0 | 1053,8 | 1121,6 | 1160,9 | 1263,4 | 1313,4 | 1432,8 | 1580,6 (2) |
| Input power | kW | 243,7 | 258,6 | 273,6 | 291,5 | 301,9 | 312,6 | 330,2 | 347,1 | 365,9 | 390,3 | 408,0 | 451,1 | 495,6 |
| Cooling total input current | A | 417,0 | 440,0 | 466,0 | 502,0 | 524,0 | 554,0 | 583,0 | 588,0 | 625,0 | 676,0 | 701,0 | 769,0 | 866,0 |
| EER | W/W | 3,16 | 3,22 | 3,19 | 3,17 | 3,19 | 3,23 | 3,19 | 3,23 | 3,17 | 3,24 | 3,22 | 3,18 | 3,19 |
| Water flow rate system side | l/h | 132447 | 143336 | 149960 | 158709 | 165357 | 173799 | 181161 | 192795 | 199561 | 217184 | 225782 | 246285 | 271702 |
| Pressure drop system side | kPa | 26 | 33 | 36 | 26 | 28 | 33 | 35 | 24 | 26 | 33 | 36 | 27 | 35 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C (2) Unit not Eurovent certified because it exceeds 1500 kW

NSG - E

| | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|-----------------------|---|---|---|--|---|--|---|--|---|--|---|---|--|
| | | | | | | | | | | | | | | |
| kW | 243,5 | 281,0 | 317,4 | 359,0 | 387,6 | 413,2 | 428,5 | 471,9 | 494,2 | 514,3 | 550,0 | 608,1 | 654,7 | 714,4 |
| kW | 73,6 | 86,3 | 96,5 | 111,1 | 122,0 | 126,7 | 133,3 | 144,0 | 153,3 | 160,2 | 172,1 | 188,9 | 204,8 | 222,5 |
| А | 133,0 | 152,0 | 163,0 | 189,0 | 211,0 | 222,0 | 237,0 | 251,0 | 267,0 | 279,0 | 293,0 | 310,0 | 334,0 | 368,0 |
| W/W | 3,31 | 3,26 | 3,29 | 3,23 | 3,18 | 3,26 | 3,21 | 3,28 | 3,22 | 3,21 | 3,20 | 3,22 | 3,20 | 3,21 |
| l/h | 41877 | 48309 | 54578 | 61723 | 66638 | 71045 | 73675 | 81134 | 84968 | 88414 | 94560 | 104538 | 112548 | 122817 |
| kPa | 12 | 11 | 14 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 16 | 18 | 23 |
| | kW A W/W I/h | kW 243,5 kW 73,6 A 133,0 W/W 3,31 I/h 41877 | kW 243,5 281,0 kW 73,6 86,3 A 133,0 152,0 W/W 3,31 3,26 I/h 41877 48309 | kW 243,5 281,0 317,4 kW 73,6 86,3 96,5 A 133,0 152,0 163,0 W/W 3,31 3,26 3,29 I/h 41877 48309 54578 | kW 243,5 281,0 317,4 359,0 kW 73,6 86,3 96,5 111,1 A 133,0 152,0 163,0 189,0 W/W 3,31 3,26 3,29 3,23 I/h 41877 48309 54578 61723 | kW 243,5 281,0 317,4 359,0 387,6 kW 73,6 86,3 96,5 111,1 122,0 A 133,0 152,0 163,0 189,0 211,0 W/W 3,31 3,26 3,29 3,23 3,18 I/h 41877 48309 54578 61723 66638 | kW 243,5 281,0 317,4 359,0 387,6 413,2 kW 73,6 86,3 96,5 111,1 122,0 126,7 A 133,0 152,0 163,0 189,0 211,0 222,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 I/h 41877 48309 54578 61723 66638 71045 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 I/h 41877 48309 54578 61723 66638 71045 73675 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 I/h 41877 48309 54578 61723 66638 71045 73675 81134 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 494,2 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 153,3 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 267,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 3,22 1/h 41877 48309 54578 61723 66638 71045 73675 81134 84968 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 494,2 514,3 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 153,3 160,2 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 267,0 279,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 3,22 3,21 1/h 41877 48309 54578 61723 66638 71045 73675 81134 84968 88414 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 494,2 514,3 550,0 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 153,3 160,2 172,1 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 267,0 279,0 293,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 3,22 3,21 3,20 I/h 41877 48309 54578 61723 66638 71045 73675 81134 84968 88414 94560 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 494,2 514,3 550,0 608,1 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 153,3 160,2 172,1 188,9 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 267,0 279,0 293,0 310,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 3,22 3,21 3,20 3,22 I/h 41877 48309 54578 61723 66638 71045 73675 81134 84968 88414 94560 104538 | kW 243,5 281,0 317,4 359,0 387,6 413,2 428,5 471,9 494,2 514,3 550,0 608,1 654,7 kW 73,6 86,3 96,5 111,1 122,0 126,7 133,3 144,0 153,3 160,2 172,1 188,9 204,8 A 133,0 152,0 163,0 189,0 211,0 222,0 237,0 251,0 267,0 279,0 293,0 310,0 334,0 W/W 3,31 3,26 3,29 3,23 3,18 3,26 3,21 3,28 3,22 3,21 3,20 3,22 3,20 I/h 41877 48309 54578 61723 66638 71045 73675 81134 84968 88414 9450 104538 112548 |

| (1) Data EN 14511:2022; Heat exchanger water (services side) 12°C | / 7°C: outside air 35°C |
|---|-------------------------|
| | |

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 764,3 | 813,2 | 877,0 | 900,7 | 944,8 | 1000,3 | 1028,9 | 1101,9 | 1151,7 | 1242,8 | 1300,9 | - | - |
| Input power | kW | 236,0 | 255,6 | 273,4 | 283,8 | 292,9 | 310,2 | 318,7 | 343,0 | 357,9 | 392,1 | 407,8 | - | - |
| Cooling total input current | А | 399,0 | 428,0 | 450,0 | 475,0 | 495,0 | 519,0 | 544,0 | 572,0 | 599,0 | 656,0 | 673,0 | - | - |
| EER | W/W | 3,24 | 3,18 | 3,21 | 3,17 | 3,23 | 3,22 | 3,23 | 3,21 | 3,22 | 3,17 | 3,19 | - | - |
| Water flow rate system side | l/h | 131397 | 139814 | 150755 | 154839 | 162399 | 171941 | 176857 | 189402 | 197982 | 213642 | 223617 | - | - |
| Pressure drop system side | kPa | 26 | 32 | 24 | 25 | 16 | 16 | 19 | 23 | 26 | 32 | 24 | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSG - U

| N3G-0 | | | | | | | | | | | | | | | |
|------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 249,3 | 288,6 | 324,9 | 369,0 | 399,5 | 423,8 | 440,0 | 483,4 | 507,1 | 526,0 | 564,2 | 623,1 | 674,9 | 735,2 |
| Input power | kW | 74,1 | 85,8 | 96,9 | 110,1 | 120,0 | 126,0 | 132,1 | 143,6 | 152,2 | 157,5 | 167,5 | 185,9 | 201,2 | 218,7 |
| Cooling total input current | Α | 141,0 | 158,0 | 172,0 | 196,0 | 217,0 | 231,0 | 246,0 | 263,0 | 277,0 | 287,0 | 298,0 | 319,0 | 342,0 | 377,0 |
| EER | W/W | 3,36 | 3,36 | 3,35 | 3,35 | 3,33 | 3,36 | 3,33 | 3,37 | 3,33 | 3,34 | 3,37 | 3,35 | 3,35 | 3,36 |
| Water flow rate system side | l/h | 42866 | 49623 | 55869 | 63446 | 68694 | 72874 | 75659 | 83113 | 87181 | 90438 | 96990 | 107116 | 116011 | 126384 |
| Pressure drop system side | kPa | 13 | 11 | 14 | 10 | 11 | 13 | 14 | 16 | 17 | 18 | 20 | 17 | 20 | 24 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 784,5 | 837,2 | 901,8 | 927,6 | 971,1 | 1026,7 | 1054,7 | 1133,1 | 1182,5 | 1280,2 | 1339,0 | - | - |
| Input power | kW | 232,3 | 250,1 | 268,3 | 277,9 | 288,3 | 306,2 | 315,5 | 337,3 | 352,2 | 383,1 | 399,1 | - | - |
| Cooling total input current | A | 411,0 | 437,0 | 461,0 | 486,0 | 509,0 | 536,0 | 564,0 | 586,0 | 617,0 | 668,0 | 689,0 | - | - |
| EER | W/W | 3,38 | 3,35 | 3,36 | 3,34 | 3,37 | 3,35 | 3,34 | 3,36 | 3,36 | 3,34 | 3,36 | - | - |
| Water flow rate system side | l/h | 134866 | 143931 | 155027 | 159459 | 166915 | 176480 | 181297 | 194780 | 203262 | 220062 | 230162 | - | - |
| Pressure drop system side | kPa | 28 | 34 | 25 | 27 | 17 | 17 | 20 | 24 | 28 | 34 | 25 | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

NSG - N

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 245,2 | 283,6 | 318,2 | 364,5 | 394,3 | 417,2 | 432,9 | 475,2 | 498,1 | 517,4 | 552,6 | 613,0 | 669,6 | 727,4 |
| Input power | kW | 73,4 | 84,4 | 95,3 | 107,6 | 118,7 | 124,5 | 130,7 | 141,2 | 149,3 | 156,7 | 165,7 | 182,9 | 200,4 | 216,0 |
| Cooling total input current | A | 132,0 | 149,0 | 162,0 | 185,0 | 207,0 | 219,0 | 234,0 | 249,0 | 264,0 | 274,0 | 287,0 | 306,0 | 324,0 | 359,0 |
| EER | W/W | 3,34 | 3,36 | 3,34 | 3,39 | 3,32 | 3,35 | 3,31 | 3,37 | 3,34 | 3,30 | 3,34 | 3,35 | 3,34 | 3,37 |
| Water flow rate system side | l/h | 42156 | 48766 | 54716 | 62663 | 67797 | 71743 | 74443 | 81707 | 85643 | 88946 | 95006 | 105378 | 115107 | 125049 |
| Pressure drop system side | kPa | 13 | 11 | 15 | 9 | 11 | 13 | 14 | 15 | 17 | 18 | 20 | 16 | 20 | 24 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 766,9 | 834,2 | 880,8 | 925,4 | 961,2 | 1003,2 | 1036,3 | 1120,4 | - | - | - | - | - |
| Input power | kW | 230,1 | 248,2 | 261,5 | 275,0 | 286,5 | 296,1 | 311,6 | 333,3 | - | - | - | - | - |
| Cooling total input current | Α | 395,0 | 413,0 | 435,0 | 458,0 | 480,0 | 509,0 | 537,0 | 557,0 | - | - | - | - | - |
| EER | W/W | 3,33 | 3,36 | 3,37 | 3,36 | 3,35 | 3,39 | 3,33 | 3,36 | - | - | - | - | - |
| Water flow rate system side | l/h | 131846 | 143411 | 151421 | 159089 | 165211 | 172435 | 178132 | 192584 | - | - | - | - | - |
| Pressure drop system side | kPa | 27 | 23 | 29 | 29 | 17 | 17 | 20 | 24 | - | - | - | - | - |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------------------|-------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fans: M | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | |
| SEER | °,A,E,L,N,U | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | | |
| | | W/W | 5,32 | 5,40 | 5,30 | 5,46 | 5,46 | 5,50 | 5,52 | 5,51 | 5,51 | 5,51 | 5,54 | 5,53 | 5,51 | 5,52 |
| | Α | W/W | 5,53 | 5,59 | 5,47 | 5,51 | 5,59 | 5,56 | 5,55 | 5,56 | 5,57 | 5,51 | 5,53 | 5,59 | 5,57 | 5,58 |
| SEPR | E | W/W | 5,69 | 5,72 | 5,77 | 5,64 | 5,58 | 5,71 | 5,65 | 5,72 | 5,67 | 5,65 | 5,67 | 5,64 | 5,66 | 5,68 |
| SERN | L | W/W | 5,46 | 5,56 | 5,43 | 5,53 | 5,54 | 5,52 | 5,52 | 5,52 | 5,55 | 5,55 | 5,75 | 5,61 | 5,52 | 5,52 |
| | N | W/W | 5,75 | 5,77 | 5,89 | 5,69 | 5,58 | 5,66 | 5,62 | 5,68 | 5,61 | 5,59 | 5,63 | 5,64 | 5,64 | 5,65 |
| | U | W/W | 5,73 | 5,78 | 5,81 | 5,70 | 5,65 | 5,76 | 5,71 | 5,77 | 5,72 | 5,70 | 5,72 | 5,70 | 5,72 | 5,74 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
(3) Calculation performed with FIXED water flow rate.

| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---------------------------------|-------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fans: M | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| SEER | °,A,E,L,N,U | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,53 | 5,52 | 5,52 | 5,52 | 5,52 | 5,51 | 5,52 | 5,53 | 5,52 | 5,52 | 5,55 | 5,52 | 5,52 |
| | A | W/W | 5,51 | 5,56 | 5,55 | 5,52 | 5,55 | 5,56 | 5,52 | 5,65 | 5,59 | 5,69 | 5,66 | 5,60 | 5,65 |
| CEDD | E | W/W | 5,69 | 5,64 | 5,69 | 5,56 | 5,56 | 5,56 | 5,69 | 5,81 | 5,86 | 5,67 | 5,72 | - | - |
| SEPR | L | W/W | 5,53 | 5,51 | 5,52 | 5,51 | 5,54 | 5,54 | 5,54 | 5,63 | 5,59 | 5,66 | 5,65 | 5,62 | 5,66 |
| | N | W/W | 5,61 | 5,62 | 5,64 | 5,69 | 5,57 | 5,60 | 5,56 | 5,71 | - | - | - | - | - |
| | U | W/W | 5,76 | 5,71 | 5,75 | 5,64 | 5,63 | 5,63 | 5,74 | 5,86 | 5,89 | 5,73 | 5,77 | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
(3) Calculation performed with FIXED water flow rate.

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fans: J | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | | |
| | ۰ | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | Α | W/W | 4,43 | 4,40 | 4,48 | 4,54 | 4,51 | 4,54 | 4,56 | 4,56 | 4,56 | 4,56 | 4,57 | 4,57 | 4,56 | 4,57 |
| SEER | E | W/W | 4,46 | 4,47 | 4,55 | 4,55 | 4,55 | 4,58 | 4,57 | 4,59 | 4,57 | 4,58 | 4,58 | 4,58 | 4,59 | 4,57 |
| SECK | L | W/W | 4,41 | 4,38 | 4,47 | 4,51 | 4,50 | 4,54 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 |
| | N | W/W | 4,51 | 4,48 | 4,57 | 4,55 | 4,56 | 4,60 | 4,60 | 4,61 | 4,60 | 4,60 | 4,61 | 4,61 | 4,60 | 4,60 |
| | U | W/W | 4,48 | 4,47 | 4,56 | 4,57 | 4,56 | 4,58 | 4,57 | 4,59 | 4,58 | 4,59 | 4,59 | 4,59 | 4,60 | 4,58 |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,32 | 5,40 | 5,30 | 5,46 | 5,46 | 5,50 | 5,52 | 5,51 | 5,51 | 5,51 | 5,54 | 5,53 | 5,51 | 5,52 |
| | Α | W/W | 5,53 | 5,59 | 5,47 | 5,51 | 5,59 | 5,56 | 5,55 | 5,56 | 5,57 | 5,51 | 5,53 | 5,59 | 5,57 | 5,58 |
| SEPR | E | W/W | 5,69 | 5,72 | 5,77 | 5,64 | 5,58 | 5,71 | 5,65 | 5,72 | 5,67 | 5,65 | 5,67 | 5,64 | 5,66 | 5,68 |
| SERN | L | W/W | 5,46 | 5,56 | 5,43 | 5,53 | 5,54 | 5,52 | 5,52 | 5,52 | 5,55 | 5,55 | 5,75 | 5,61 | 5,52 | 5,52 |
| | N | W/W | 5,75 | 5,77 | 5,89 | 5,69 | 5,58 | 5,66 | 5,62 | 5,68 | 5,61 | 5,59 | 5,63 | 5,64 | 5,64 | 5,65 |
| | U | W/W | 5,73 | 5,78 | 5,81 | 5,70 | 5,65 | 5,76 | 5,71 | 5,77 | 5,72 | 5,70 | 5,72 | 5,70 | 5,72 | 5,74 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
(3) Calculation performed with FIXED water flow rate.

| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---------------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fans: J | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| | 0 | W/W | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) | - (2) |
| | Α | W/W | 4,57 | 4,57 | 4,56 | 4,56 | 4,56 | 4,57 | 4,56 | 4,57 | 4,57 | 4,58 | 4,57 | 4,57 | 4,58 |
| SEER | E | W/W | 4,58 | 4,56 | 4,59 | 4,57 | 4,59 | 4,57 | 4,58 | 4,60 | 4,61 | 4,58 | 4,60 | - | - |
| SEER | L | W/W | 4,56 | 4,56 | 4,55 | 4,56 | 4,56 | 4,56 | 4,55 | 4,57 | 4,56 | 4,57 | 4,57 | 4,56 | 4,57 |
| | N | W/W | 4,60 | 4,59 | 4,61 | 4,60 | 4,60 | 4,59 | 4,60 | 4,62 | - | - | - | - | - |
| | U | W/W | 4,59 | 4,57 | 4,59 | 4,57 | 4,59 | 4,58 | 4,59 | 4,61 | 4,61 | 4,58 | 4,60 | - | - |
| SEPR - (EN 14825: 2018) (3) | | | | | | | | | | | | | | | |
| | 0 | W/W | 5,53 | 5,52 | 5,52 | 5,52 | 5,52 | 5,51 | 5,52 | 5,53 | 5,52 | 5,52 | 5,55 | 5,52 | 5,52 |
| | Α | W/W | 5,51 | 5,56 | 5,55 | 5,52 | 5,55 | 5,56 | 5,52 | 5,65 | 5,59 | 5,69 | 5,66 | 5,60 | 5,65 |
| SEPR | E | W/W | 5,69 | 5,64 | 5,69 | 5,56 | 5,56 | 5,56 | 5,69 | 5,81 | 5,86 | 5,67 | 5,72 | - | - |
| SELV | L | W/W | 5,53 | 5,51 | 5,52 | 5,51 | 5,54 | 5,54 | 5,54 | 5,63 | 5,59 | 5,66 | 5,65 | 5,62 | 5,66 |
| | N | W/W | 5,61 | 5,62 | 5,64 | 5,69 | 5,57 | 5,60 | 5,56 | 5,71 | - | - | - | - | - |
| | U | W/W | 5,76 | 5,71 | 5,75 | 5,64 | 5,63 | 5,63 | 5,74 | 5,86 | 5,89 | 5,73 | 5,77 | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Not covered by standard (EN14825: 2018 for comfort applications, 12°C/7°C)
(3) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------|-----------------|-------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|---|------------------------------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------------|---------------------------------|----------------------------|----------------------------|
| Electric data | | | | | | | | | | | | | | | | |
| | 0 | Α | 223,7 | 241,3 | 264,3 | 300,3 | 327,4 | 346,4 | 365,4 | 386,4 | 407,4 | 431,3 | 446,3 | 470,3 | 494,3 | 543,1 |
| Maximum current (FLA) | A,L | Α | 232,6 | 250,2 | 273,2 | 300,3 | 336,3 | 355,3 | 374,3 | 404,1 | 425,1 | 440,1 | 455,1 | 488,0 | 512,0 | 560,9 |
| Maximum current (FLA) | E,U | Α | 232,6 | 250,2 | 282,1 | 309,2 | 336,3 | 364,1 | 383,1 | 413,0 | 434,0 | 449,0 | 464,0 | 496,9 | 520,9 | 569,8 |
| | N | Α | 241,5 | 259,1 | 290,9 | 318,0 | 345,1 | 373,0 | 392,0 | 421,9 | 442,9 | 457,9 | 472,9 | 505,8 | 538,7 | 593,4 |
| | • | Α | 252,0 | 287,1 | 329,4 | 376,3 | 395,0 | 442,0 | 459,0 | 486,0 | 493,7 | 597,6 | 636,2 | 665,2 | 661,2 | 791,0 |
| Dook surrent (LDA) | A,L | Α | 260,9 | 296,0 | 338,3 | 376,3 | 403,9 | 450,9 | 467,9 | 503,7 | 511,4 | 606,4 | 645,0 | 682,9 | 678,9 | 8,808 |
| Peak current (LRA) | E,U | Α | 260,9 | 296,0 | 347,2 | 385,2 | 403,9 | 459,7 | 476,7 | 512,6 | 520,3 | 615,3 | 653,9 | 691,8 | 687,8 | 817,7 |
| | N | Α | 269,8 | 304,9 | 356,0 | 394,0 | 412,7 | 468,6 | 485,6 | 521,5 | 529,2 | 624,2 | 662,8 | 700,7 | 705,6 | 841,3 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 2 600 | 02 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Electric data | | | | | | | | | | | | | | | | |
| LICCUICUALA | | | | | | | | | | | | | | | | |
| Liectificulata | 0 | A | 583,1 | 625,0 | 658,0 | 697,9 | 728,9 | 9 760 | 1,9 80 | 01,8 | 831,8 | 871,8 | 946,7 | 994,4 | 1087,4 | 1183,4 |
| | | A A | 583,1 600,9 | 625,0 642,8 | 658,0 675,8 | 697,9 706,8 | 728,9 746,7 | | , | | 831,8 864,3 | 871,8 904,3 | 946,7 988,1 | 994,4 1021,1 | 1087,4 1122,9 | 1183,4 1236,7 |
| Maximum current (FLA) | | | | | | | | 7 793 | ,4 82 | 25,4 | | - /- | , | | | |
| | A,L | A | 600,9 | 642,8 | 675,8 | 706,8 | 746,7 | 7 793 8 811 | ,4 82 | 25,4 52,1 | 864,3 | 904,3 | 988,1 | 1021,1 | 1122,9 | |
| | A,L E,U | A A | 600,9 618,7 | 642,8 651,7 | 675,8 699,4 | 706,8 730,4 | 746,7 770,3 | 7 793 8 811 8 837 | ,4 82 ,2 85 7,8 86 | 25,4 52,1 59,8 | 864,3 882,1 | 904,3 930,9 | 988,1 | 1021,1 | 1122,9 | |
| Maximum current (FLA) | A,L E,U N | A A A | 600,9 618,7 633,4 | 642,8 651,7 684,2 | 675,8 699,4 726,1 | 706,8 730,4 765,9 | 746,7 770,3 805,8 1097, | 7 793 8 811 8 837 9 120 | ,4 82 ,2 85 7,8 86 9,9 12 | 25,4 52,1 59,8 49,8 | 864,3 882,1 908,7 993,9 | 904,3 930,9 - | 988,1 996,9 - | 1021,1 | 1122,9 | 1236,7 |
| | A,L E,U N | A A A | 600,9 618,7 633,4 821,3 | 642,8 651,7 684,2 894,2 | 675,8 699,4 726,1 914,2 | 706,8 730,4 765,9 1078,1 | 746,7 770,3 805,8 1097, | 7 793 8 811 8 837 9 120 7 124 | ,4 8,4 8,7 ,2 85 8,6 8,9 12 2,4 12 | 25,4 52,1 59,8 49,8 73,4 | 864,3 882,1 908,7 993,9 | 904,3 930,9 - 1024,2 | 988,1 996,9 - 1117,1 | 1021,1 1038,8 - 1151,8 | 1122,9 - - 1346,4 | 1236,7 - - 1520,4 |

GENERAL TECHNICAL DATA

| | | | • | | | | | | | | | | | | | |
|-------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Compressor | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | Sci | rew | | | | | | |
| Number | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,A,E,L,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,A,E,L,N,U | type | | | | | | | R12 | 34ze | | | | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------------------|----------------------|-------------|--------------|----------------|---------------|----------------|-----------------|---------------|-----------|---------------|-----------------|---------------|---------------|---------|------|------|
| | 0 | kg | 24,0 | 24,0 | 23,0 | 30,0 | 30,0 | 35,0 | 35,0 | 35,0 | 35,0 | 40,0 | 46,0 | 42,5 | 44,5 | 51,0 |
| | A | kg | 26,5 | 34,0 | 28,0 | 30,5 | 34,0 | 35,0 | 38,5 | 40,5 | 45,0 | 43,0 | 47,0 | 52,0 | 55,0 | 74,0 |
| Refrigerant load | E | kg | 29,0 | 30,0 | 41,0 | 34,0 | 40,0 | 43,0 | 43,0 | 46,0 | 45,0 | 45,0 | 57,0 | 54,0 | 74,0 | 60,0 |
| circuit 1 (1) | L | kg | 24,0 | 26,0 | 37,0 | 28,0 | 34,0 | 35,0 | 38,5 | 40,0 | 42,0 | 44,0 | 47,0 | 52,0 | 54,0 | 56,0 |
| | N | kg | 36,0 | 38,0 | 34,0 | 44,0 | 49,0 | 53,0 | 56,0 | 60,0 | 64,0 | 64,0 | 55,0 | 72,0 | 81,0 | 85,0 |
| | U | kg | 32,0 | 34,0 | 34,0 | 35,0 | 46,0 | 49,0 | 49,0 | 46,0 | 45,0 | 60,0 | 54,5 | 58,0 | 58,0 | 75,0 |
| | 0 | kg | 24,0 | 25,0 | 25,0 | 41,0 | 33,0 | 38,0 | 37,0 | 37,5 | 35,0 | 50,0 | 48,0 | 46,0 | 46,0 | 59,0 |
| | A | kg | 28,0 | 34,0 | 29,5 | 36,0 | 34,0 | 49,0 | 40,5 | 45,0 | 47,5 | 48,0 | 50,0 | 55,0 | 60,0 | 81,0 |
| Refrigerant load | E | kg | 29,0 | 31,5 | 41,0 | 40,0 | 40,0 | 45,0 | 45,0 | 52,0 | 53,0 | 53,0 | 59,0 | 59,0 | 74,0 | 77,0 |
| circuit 2 (1) | L | kg | 27,0 | 28,0 | 37,0 | 36,0 | 34,0 | 40,0 | 40,5 | 43,0 | 46,0 | 52,0 | 50,0 | 55,0 | 58,0 | 72,0 |
| | N | kg | 36,0 | 38,0 | 34,0 | 49,0 | 49,0 | 56,0 | 56,0 | 64,0 | 64,0 | 69,0 | 57,0 | 77,0 | 81,0 | 92,0 |
| | U | kg | 32,0 | 34,0 | 36,0 | 41,5 | 46,0 | 53,0 | 54,0 | 52,0 | 48,5 | 65,0 | 59,0 | 62,0 | 63,0 | 90,0 |
| Refrigerant load circuit 3 (1) | °,A,E,L,N,U | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| System side heat e | xchanger | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | Braz | ed plate | | | | | | |
| Number | °,A,E,L,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| (1) The load indicate | ed in the table is a | n estimated | and prelimin | ary value. The | final value o | of the refrige | rant load is ir | ndicated on t | he unit's | technical lal | bel. For furthe | er informatio | n contact the | office. | | |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Compressor | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | | Screw | | | | | | |
| | °,A,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | - | - | - | - | - |

| JILC | | | 7202 | 7302 | 7002 | 3202 | 3002 | 0002 | 0402 | 0505 | 0,03 | 0,03 | 7203 | 0103 | 7003 |
|--------------------|-------------|------|------|-------|-------|-------|-------|-------|--------------|------|------|------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | Screw | | | | | | |
| | °,A,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | - | - | - | - | - |
| | °,A,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Circuits | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | - | - | - | - | - |
| Refrigerant | °,A,E,L,N,U | type | | | | | | | R1234ze | | | | | | |
| | 0 | kg | 52,0 | 55,0 | 55,0 | 63,0 | 65,0 | 62,0 | 70,0 | 67,0 | 55,0 | 78,0 | 62,0 | 99,0 | 112,0 |
| D. C | A,L | kg | 62,0 | 67,0 | 67,0 | 70,0 | 106,0 | 82,0 | 82,0 | 74,0 | 81,0 | 85,0 | 70,0 | 106,0 | 80,0 |
| Refrigerant load | E | kg | 70,0 | 89,0 | 80,0 | 100,0 | 113,0 | 86,0 | 95,0 | 77,0 | 89,0 | 89,0 | 100,0 | - | - |
| circuit 1 (1) | N | kg | 92,0 | 99,0 | 110,0 | 114,0 | 128,0 | 128,0 | 138,0 | 85,0 | - | - | - | - | - |
| | U | kg | 70,0 | 89,0 | 80,0 | 85,0 | 113,0 | 86,0 | 95,0 | 77,0 | 89,0 | 89,0 | 100,0 | - | - |
| | 0 | kg | 59,0 | 64,0 | 64,0 | 70,0 | 71,0 | 73,0 | 80,0 | 74,0 | 61,0 | 85,0 | 70,0 | 99,0 | 112,0 |
| | A | kg | 70,0 | 78,0 | 78,0 | 82,0 | 106,0 | 99,0 | 99,0 | 81,0 | 81,0 | 92,0 | 75,0 | 106,0 | 95,0 |
| Refrigerant load | E | kg | 85,0 | 96,0 | 90,0 | 110,0 | 113,0 | 98,0 | 97,0 | 85,0 | 89,0 | 96,0 | 100,0 | - | - |
| circuit 2 (1) | L | kg | 70,0 | 79,0 | 78,0 | 82,0 | 106,0 | 99,0 | 99,0 | 81,0 | 81,0 | 92,0 | 75,0 | 106,0 | 95,0 |
| | N | kg | 92,0 | 107,0 | 110,0 | 124,0 | 128,0 | 138,0 | 138,0 | 92,0 | - | - | - | - | - |
| | U | kg | 85,0 | 96,0 | 90,0 | 103,0 | 113,0 | 98,0 | 97,0 | 85,0 | 89,0 | 96,0 | 100,0 | - | - |
| | 0 | kg | - | - | - | - | - | - | - | 74,0 | 65,0 | 85,0 | 80,0 | 99,0 | 112,0 |
| Refrigerant load | A,L | kg | - | - | - | - | - | - | - | 81,0 | 81,0 | 92,0 | 75,0 | 106,0 | 85,0 |
| circuit 3 (1) | E,U | kg | - | - | - | - | - | - | - | 85,0 | 89,0 | 96,0 | 100,0 | - | - |
| | N | kg | - | - | - | - | - | - | - | 92,0 | - | - | - | - | - |
| System side heat e | xchanger | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | | | | | | | Brazed plate | | | | | | |
| | 0 | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | A,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number | E,U | no. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| | | | | | | | | | | | | | | | |

The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

FANS DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Fan | | | | | | | | | | | | | | | | |
| Туре | °,A,E,L,N,U | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| | 0 | no. | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 |
| Number | A,L | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 16 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 | 22 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 2 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | |
| Fan Type | °,A,E,L,N,U | type | Axial | Axial | Axial | Axial | Axial | Axia | al A | xial | Axial | Axial | Axial | Axial | Axial | Axial |
| | °,A,E,L,N,U | type no. | Axial 12 | Axial 14 | Axial 14 | Axial 16 | Axial 16 | Axia 16 | | xial 18 | Axial 18 | Axial 18 | Axial 20 | Axial 22 | Axial 22 | Axial 22 |
| Туре | | | | | | | | | | | | | | | | |
| | 0 | no. | 12 | 14 | 14 | 16 | 16 | 16 | | 18 | 18 | 18 | 20 | 22 | 22 | 22 |

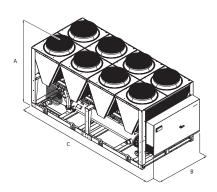
| _ | | | | | |
|---|----|----|----|---|---|
| | VA | rς | 17 | ρ | п |

| Oversized | | | 1/03 | 1602 | 1003 | 2002 | 2202 | 2252 | 2502 | 2/52 | 2002 | 2002 | 2202 | 2402 | 2/02 | 200 |
|----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|-----------|---|----------|--------|--------|-----------|--------|-------|
| Size Fans: M | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 390 |
| Increased fan | | | | | | | | | | | | | | | | |
| increased fair | °,A,U | type | | | | | | | Async | hronous | | | | | | |
| Fan motor | E,L,N | type | | | | | | Asv | nchronou: | | se cut | | | | | |
| Without Static pressure | 2/2/11 | 1) 1 | | | | | | , | | 7 11 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | |
| | 0 | m³/h | 108000 | 108000 | 108000 | 144000 | 144000 | 144000 | 144000 | 144000 | 0 144000 | 180000 | 180000 | 180000 | 180000 | 2160 |
| | A | m³/h | 144000 | 144000 | 144000 | 144000 | 180000 | 180000 | 180000 | 216000 | 216000 | 216000 | | | 252000 | 2880 |
| A: 0 | E | m³/h | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 161000 | 161000 | 161000 | | | 184000 | 2070 |
| Air flow rate | L | m³/h | 92000 | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 138000 | 138000 | 161000 | 161000 | 1840 |
| | N | m³/h | 115000 | 115000 | 138000 | 138000 | 138000 | 161000 | 161000 | 184000 | 184000 | 184000 | 184000 | 207000 | 230000 | 2530 |
| | U | m³/h | 144000 | 144000 | 180000 | 180000 | 180000 | 216000 | 216000 | 252000 | 0 252000 | 252000 | 252000 | 288000 | 288000 | 3240 |
| | 0 | dB(A) | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 100,0 | 100,0 | 101 |
| | A | dB(A) | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 101, |
| Country would be a | E | dB(A) | 89,0 | 89,0 | 90,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 | 92,0 | 92,0 | 93,0 | 93,0 | 93, |
| Sound power level | L | dB(A) | 89,0 | 89,0 | 89,0 | 89,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92, |
| | N | dB(A) | 90,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 92,0 | 92,0 | 92,0 | 93,0 | 93,0 | 93, |
| | U | dB(A) | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 101,0 | 101,0 | 101 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 2 60 | 02 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 960 |
| Fans: M | | | | | | | | | - | | | | | , _ , _ , | 0.00 | ,,,,, |
| Increased fan | | | | | | | | | | | | | | | | |
| | °,A,U | type | | | | | | | Asyn | hronous | | | | | | |
| Fan motor | E,L,N | type | | | | | | As | ynchronou | | ase cut | | | | | |
| Without Static pressure | -1-1 | -7/ | | | | | | | , | | | | | | | |
| | 0 | m³/h | 216000 | 252000 | 252000 | 288000 | 28800 | 00 288 | 000 32 | 4000 | 324000 | 324000 | 360000 | 396000 | 396000 | 39600 |
| | A | m³/h | 288000 | 324000 | 324000 | 324000 | | | | | | 432000 | 504000 | 504000 | 540000 | 6120 |
| | E | m³/h | 230000 | 230000 | 253000 | | | | | | | 345000 | 345000 | 368000 | - | - |
| Air flow rate | | m³/h | 184000 | 207000 | 207000 | | | | | | | 276000 | 322000 | 322000 | 345000 | 4420 |
| | N | m³/h | 253000 | 299000 | 322000 | 345000 | | | | | 391000 | - | - | - | - | - |
| | U | m³/h | 360000 | 360000 | 396000 | | | | | | | 540000 | 540000 | 576000 | - | - |
| | 0 | dB(A) | 101,0 | 101,0 | 101,0 | 102,0 | | | | 02,0 | 102,0 | 102,0 | 103,0 | 103,0 | 103,0 | 103, |
| | A | dB(A) | 101,0 | 101,0 | 102,0 | 101,0 | | | | 02,0 | 103,0 | 103,0 | 103,0 | 103,0 | 104,0 | 104, |
| | E | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | | | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 | - | - |
| Sound power level | <u>-</u> | dB(A) | 93,0 | 93,0 | 93,0 | 93,0 | 94,0 | | , | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 |
| | N N | dB(A) | 93,0 | 94,0 | 94,0 | 95,0 | 95,0 | | , | 95,0 | 95,0 | - | - | - | - | - |
| | U | dB(A) | 102,0 | 102,0 | 102,0 | 102,0 | | | | 03,0 | 103,0 | 103,0 | 103,0 | 103,0 | - | - |
| | | , | | | | , | , | | , | | | , | , | | | |
| Inverter | | | | | | | | | | | | | | | | |
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 390 |
| Fans: J | | | | | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | | | | | |
| Fan motor | °,A,E,L,N,U | type | | | | | | | lnv | erter | | | | | | |
| | | m³/h | 96000 | 96000 | 96000 | 128000 | 128000 | 128000 | 128000 | 144000 | 144000 | 180000 | 180000 | 180000 | 180000 | 2160 |
| | A | m³/h | 128000 | 128000 | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 | 192000 | 192000 | 224000 | 224000 | 2560 |
| Air flow rate | E | m³/h | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 161000 | 161000 | 161000 | 161000 | 184000 | 184000 | 2070 |
| All HOW TALC | L | m³/h | 92000 | 92000 | 92000 | 92000 | 115000 | 115000 | 115000 | 138000 | 138000 | 138000 | 138000 | 161000 | 161000 | 1840 |
| | N | m³/h | 115000 | 115000 | 138000 | 138000 | 138000 | 161000 | 161000 | 184000 | 0 184000 | 184000 | 184000 | 207000 | 230000 | 2530 |
| | U | m³/h | 128000 | 128000 | 160000 | 160000 | 160000 | 192000 | 192000 | 224000 | 0 224000 | 224000 | 224000 | 256000 | 256000 | 2880 |
| Sound data calculated in cooling | | | | | | | | | | | | | | | | |
| | | dB(A) | 97,0 | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 100,0 | 100,0 | 100,0 | 101 |
| | A | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 100 |
| Cound nower level | E | dB(A) | 89,0 | 89,0 | 90,0 | 90,0 | 90,0 | 91,0 | 91,0 | 92,0 | 92,0 | 92,0 | 92,0 | 93,0 | 93,0 | 93, |
| Sound power level | L | dB(A) | 89,0 | 89,0 | 89,0 | 89,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 |
| | N | dB(A) | 90,0 | 90,0 | 91,0 | 91,0 | 91,0 | 91,0 | 91,0 | 92,0 | 92,0 | 92,0 | 92,0 | 93,0 | 93,0 | 93,0 |
| | U | dB(A) | 97,0 | 97,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 99,0 | 100,0 | 100,0 | 100, |

| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---|-------------|-------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|
| Fans: J | | | | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | | | | |
| Fan motor | °,A,E,L,N,U | type | | | | | | | Inverter | | | | | | |
| | 0 | m³/h | 216000 | 252000 | 252000 | 288000 | 288000 | 288000 | 324000 | 324000 | 324000 | 360000 | 396000 | 396000 | 396000 |
| | A | m³/h | 256000 | 288000 | 288000 | 324000 | 360000 | 396000 | 396000 | 384000 | 384000 | 448000 | 448000 | 480000 | 612000 |
| Air flann nata | E | m³/h | 230000 | 230000 | 253000 | 253000 | 276000 | 299000 | 322000 | 322000 | 345000 | 345000 | 368000 | - | - |
| Air flow rate | L | m³/h | 184000 | 207000 | 207000 | 234000 | 260000 | 286000 | 286000 | 276000 | 276000 | 322000 | 322000 | 345000 | 442000 |
| | N | m³/h | 253000 | 299000 | 322000 | 345000 | 368000 | 368000 | 368000 | 391000 | - | - | - | - | - |
| | U | m³/h | 320000 | 320000 | 352000 | 352000 | 384000 | 416000 | 448000 | 448000 | 480000 | 480000 | 512000 | - | - |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | | | | |
| | 0 | dB(A) | 101,0 | 101,0 | 101,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 103,0 | 103,0 | 103,0 | 103,0 |
| | A | dB(A) | 100,0 | 100,0 | 101,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 103,0 | 104,0 |
| Cound nouse lovel | E | dB(A) | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 | - | - |
| Sound power level | L | dB(A) | 93,0 | 93,0 | 93,0 | 93,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 94,0 | 95,0 |
| | N | dB(A) | 93,0 | 94,0 | 94,0 | 95,0 | 95,0 | 95,0 | 95,0 | 95,0 | - | - | - | - | - |
| | U | dB(A) | 101,0 | 101,0 | 101,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | 102,0 | - | - |

⁽¹⁾ Sound power: calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure measured in free field (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------|-------------|----|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | °,A,E,L,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | °,A,E,L,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | 3970 | 3970 | 3970 | 5160 | 5160 | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 6350 | 7540 |
| (| A,L | mm | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7540 | 7540 | 7540 | 7540 | 8730 | 8730 | 9920 |
| | E,U | mm | 5160 | 5160 | 6350 | 6350 | 6350 | 7540 | 7540 | 8730 | 8730 | 8730 | 8730 | 9920 | 9920 | 11110 |
| | N | mm | 6350 | 6350 | 7540 | 7540 | 7540 | 8730 | 8730 | 9920 | 9920 | 9920 | 9920 | 11110 | 12300 | 13490 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| | °,A,L | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | E,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - |
| | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | - | - | - | - | - |
| | °,A,L | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | E,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 | 2200 | 2200 | - | - | - | - | - |
| | 0 | mm | 7540 | 8730 | 8730 | 9920 | 9920 | 992 | 20 1 | 1110 | 11110 | 11110 | 12300 | 13490 | 13490 | 13490 |
| (| A,L | mm | 9920 | 11110 | 11110 | 11110 | 12300 | 134 | 90 1 | 3490 | 15080 | 15080 | 17460 | 17460 | 18650 | 21030 |
| C | E,U | mm | 12300 | 12300 | 13490 | 13490 | 15080 | 162 | 70 1 | 7460 | 17460 | 18650 | 18650 | 19840 | - | - |
| | N | mm | 13490 | 16270 | 17460 | 18650 | 19840 | 198 | 40 1 | 9840 | 21030 | - | - | - | - | - |

For transport reasons, the units with the depth of more than 13090 mm are shipped separately. For more information, please refer to the technical manual and / or installation.

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------------|---|----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | |
| Single module unit | | | | | | | | | | | | | | | | |
| | 0 | kg | 4108 | 4153 | 4275 | 5137 | 5468 | 5476 | 5485 | 5680 | 5690 | 6659 | 7153 | 7163 | 7188 | 7854 |
| | Α | kg | 4637 | 4684 | 4806 | 5137 | 5882 | 5890 | 6085 | 6696 | 6782 | 7261 | 7806 | 8486 | 8501 | 9029 |
| | E | kg | 4768 | 4800 | 5220 | 5814 | 6145 | 6755 | 6763 | 7198 | 7213 | 7707 | 7806 | 8940 | 8950 | 9719 |
| Empty weight - | L | kg | 4637 | 4684 | 4806 | 5137 | 5882 | 5890 | 6085 | 6696 | 6782 | 7261 | 8223 | 8486 | 8501 | 9029 |
| | N | kg | 5179 | 5214 | 5822 | 6415 | 6746 | 7163 | 7177 | 7649 | 7659 | 8161 | 8223 | 9630 | 10062 | 10682 |
| | U | kg | 4768 | 4800 | 5220 | 5814 | 6145 | 6755 | 6763 | 7198 | 7213 | 7707 | 8672 | 8940 | 8950 | 9719 |

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--|-----|----|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| | 0 | kg | 4186 | 4225 | 4393 | 5256 | 5586 | 5614 | 5622 | 5953 | 5962 | 6982 | 7475 | 7485 | 7501 | 8166 |
| - | Α | kg | 4714 | 4757 | 4925 | 5275 | 6019 | 6028 | 6357 | 6968 | 7105 | 7583 | 8098 | 9016 | 9030 | 9547 |
| w. i. c | E | kg | 4887 | 4937 | 5358 | 6137 | 6467 | 7077 | 7086 | 7510 | 7525 | 8019 | 8098 | 9470 | 9480 | 10237 |
| Weight functioning | L | kg | 4714 | 4757 | 4925 | 5275 | 6019 | 6028 | 6357 | 6968 | 7105 | 7583 | 8515 | 9016 | 9030 | 9547 |
| - | N | kg | 5298 | 5352 | 5959 | 6738 | 7069 | 7486 | 7500 | 7961 | 7971 | 8474 | 8515 | 10160 | 10592 | 11199 |
| | U | kg | 4887 | 4937 | 5358 | 6137 | 6467 | 7077 | 7086 | 7510 | 7525 | 8019 | 8964 | 9470 | 9480 | 10237 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 02 6 | 402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | |
| Single module unit | | | | | | | | | | | | | | | | |
| | 0 | kg | 7947 | 8389 | 8704 | 9252 | 9347 | 940 |)5 10 | 0170 | 11843 | 11931 | 12488 | 13081 | 13400 | 13552 |
| | A,L | kg | 9090 | 9829 | 9892 | 10315 | 10836 | 114 | 41 1 | 1519 | - | - | - | - | - | - |
| Empty weight | E,U | kg | 10203 | 10282 | 11194 | 11284 | - | - | | - | - | - | - | - | - | - |
| - | N | kg | 10748 | - | - | - | - | - | | - | - | - | - | - | - | - |
| | 0 | kg | 8239 | 8681 | 9234 | 9781 | 9877 | 992 | 22 10 | 0687 | 12797 | 12885 | 13398 | 13990 | 14309 | 14462 |
| Walinka Kimatianina | A,L | kg | 9608 | 10334 | 10397 | 11247 | 11767 | 123 | 58 12 | 2437 | - | - | - | - | - | - |
| Weight functioning | E,U | kg | 10720 | 10787 | 12125 | 12215 | - | - | | - | - | - | - | - | - | - |
| - | N | kg | 11265 | - | - | - | - | - | | - | - | - | - | - | - | - |
| Bimodule unit | | | | | | | | | | | | | | | | |
| | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Francisco de la constante de l | A,L | kg | - | - | - | - | - | - | | - | 9029 | 9090 | 9829 | 9892 | 10836 | 11519 |
| Empty weight module 1 | E,U | kg | - | - | - | - | 6276 | 627 | 76 6 | 741 | 9719 | 10203 | 10282 | 11194 | - | - |
| | N | kg | - | 6084 | 6517 | 6517 | 7126 | 712 | 26 7 | 190 | 10880 | - | - | - | - | - |
| | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Empty weight module 2 | A,L | kg | - | - | - | - | - | - | | - | 5068 | 5068 | 5512 | 5512 | 5675 | 6265 |
| Empty weight module 2 | E,U | kg | - | - | - | - | 6207 | 667 | 71 6 | 671 | 5482 | 5482 | 5512 | 5512 | - | - |
| | N | kg | - | 6448 | 6448 | 7056 | 7056 | 712 | 20 7 | 120 | 6014 | - | - | - | - | - |
| | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Total empty weight - | A,L | kg | - | - | - | - | - | - | | - | 14098 | 14159 | 15342 | 15405 | 16511 | 17784 |
| iotai empty weight | E,U | kg | - | - | - | - | 12483 | 129 | 48 13 | 3412 | 15202 | 15685 | 15795 | 16706 | - | - |
| | N | kg | - | 12531 | 12965 | 13573 | 14182 | 142 | 46 14 | 1310 | 16894 | - | - | - | - | - |
| _ | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Weight functioning module 1 | A,L | kg | - | - | - | - | - | - | | - | 9547 | 9608 | 10334 | 10397 | 11767 | 12437 |
| weight functioning module i | E,U | kg | - | - | - | - | 6589 | 658 | 39 7 | 053 | 10237 | 10720 | 10787 | 12125 | - | - |
| | N | kg | - | 6342 | 6776 | 6776 | 7438 | 743 | 38 7 | 502 | 11398 | - | - | - | - | - |
| _ | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Weight functioning module 2 | A,L | kg | - | - | - | - | - | - | | - | 5327 | 5327 | 5771 | 5771 | 5987 | 6577 |
| recignic functioning module 2 | E,U | kg | - | - | - | - | 6519 | 698 | 34 6 | 984 | 5741 | 5741 | 5771 | 5771 | - | - |
| | N | kg | - | 6706 | 6706 | 7369 | 7369 | 743 | 33 7 | 433 | 6273 | - | - | - | - | - |
| | 0 | kg | - | - | - | - | - | - | | - | - | - | - | - | - | - |
| Total weight functioning - | A,L | kg | - | - | - | - | - | - | | - | 14874 | 14935 | 16105 | 16168 | 17755 | 19014 |
| iotai weigiit iulictiolillig | E,U | kg | - | - | - | - | 13108 | 135 | 72 14 | 4037 | 15978 | 16461 | 16558 | 17896 | - | - |
| | N | kg | - | 13049 | 13482 | 14144 | 14807 | 148 | 71 14 | 1935 | 17670 | - | - | - | - | - |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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TBA 1300-4325

Air-water chiller

Cooling capacity 328 ÷ 1404 kW



- · High efficiency also at partial loads
- Microchannel coil
- Low peak current (only 6 Amps!)
- Evaporator with low refrigerant charge
- Available also R513A (XP10) refrigerant gas





DESCRIPTION

Air-cooled chiller designed to meet air conditioning needs in residential / commercial complexes or industrial applications.

These are outdoor units with oil free centrifugal compressor, axial fans, micro-channel coils, and shell and tube heat exchangers.

The base, the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 43°C external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

Units mono or dual-circuit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Oil free centrifugal compressor

 $\label{two-stage} Two-stage \ oil-free \ centrifugal \ compressor \ with \ magnetic \ levitation \ and \ inverter.$

Compressor features:

- Operates without oil as bearings are magnetic levitation type
- Continuous load modulation by varying rpm (from 30% to 100%)
- Low peak currents (only 6 Amps!)

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

Further features:

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

XLATB: This kit allows to extend the working range of the unit from $\,0\,^{\circ}$ C to -10 $\,^{\circ}$ C ambient temperature, thanks to an additional electric heater and a special insulating material for the heat exchanger.

GP_T: Anti-intrusion grid kit

ACCESSORIES COMPATIBILITY

| Model | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | • | • | • | | • | • | | • | • | |
| AER485P1 x n° 2 (1) | | | | • | | | • | | | • |
| AERBACP | • | • | • | • | • | • | • | • | • | • |
| AERNET | • | • | • | • | | • | • | • | • | • |
| MULTICHILLER_EVO | • | • | • | • | • | • | • | • | • | • |
| PGD1 | | • | | | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E,N,U | AVX (1) |

(1) Contact us.

Kit low temperature

| Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E | XLATB1 | XLATB3 | XLATB5 | XLATB6 | XLATB7 | XLATB6 | XLATB7 | XLATB7 | XLATB8 | XLATB8 |
| N,U | XLATB2 | XLATB5 | XLATB5 | XLATB5 | XLATB7 | XLATB6 | XLATB6 | XLATB7 | XLATB8 | XLATB8 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|------|------|------|------|------|------|------|-------|-------|-------|-------|
| A,E | GP3T | GP4T | GP5T | GP6T | GP7T | GP8T | GP9T | GP10T | GP10T | GP11T |
| N II | GP3T | GP4T | GP6T | GP7T | GPRT | GPQT | GP10T | GP11T | GP11T | GP11T |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| CO | NFI | GURATOR |
|------|------|--|
| Fiel | d | Description |
| 1,2, | ,3 | TBA |
| 4,5, | ,6,7 | Size 1300, 1350, 2300, 2325, 2350, 3300, 3320, 3340, 3350, 4325 |
| 8 | | Model |
| | 0 | Cooling only |
| 9 | | Heat recovery |
| | 0 | Without heat recovery |
| 10 | | Version |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 11 | | Coils |
| | 0 | Aluminium microchannel |
| | 0 | Coated aluminium microchannel |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 12 | | Fans |
| | J | Inverter |
| 13 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14, | 15 | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (1) |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| _ | | . /1 1 |

| Field | d | Description |
|-------|----|--|
| | DF | Pump F + stand-by pump |
| | DG | Pump G + stand-by pump |
| _ | DH | Pump H + stand-by pump |
| _ | DI | Pump I + stand-by pump |
| _ | DJ | Pump J + stand-by pump (1) |
| _ | IA | Pump A equipped with inverter device to work at fixed speed |
| | IB | Pump B equipped with inverter device to work at fixed speed |
| _ | IC | Pump C equipped with inverter device to work at fixed speedr |
| | ID | Pump D equipped with inverter device to work at fixed speed |
| | IE | Pump E equipped with inverter device to work at fixed speed |
| | IF | Pump F equipped with inverter device to work at fixed speed |
| | IG | Pump G equipped with inverter device to work at fixed speed |
| | IH | Pump H equipped with inverter device to work at fixed speed |
| _ | Ш | Pump I equipped with inverter device to work at fixed speed |
| | IJ | Pump J equipped with inverter device to work at fixed speed (1) |
| | JA | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| | JB | Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| | JC | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| | JD | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| | JE | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| | JF | Pump F+stand-by pump, both equipped with inverter to work at fixed speed |
| | JG | Pump G+stand-by pump, both equipped with inverter to work at fixed speed |
| | JH | Pump H+stand-by pump, both equipped with inverter to work at fixed speed |
| | JI | Pump I+stand-by pump, both equipped with inverter to work at fixed speed |
| | JJ | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (1) |
| | KF | Doble pump F with inverter device to work at fixed speed |
| | KG | Doble pump G with inverter device to work at fixed speed |
| | KH | Doble pump H with inverter device to work at fixed speed |
| | KI | Doble pump I with inverter device to work at fixed speed |
| | KJ | Doble pump J with inverter device to work at fixed speed (1) |
| | TF | Double pump F |
| | TG | Double pump G |
| | TH | Double pump H |
| | TI | Double pump I |
| | TJ | Double pump J (1) |
| 16 | | Refrigerant gas |
| | 0 | R134a |
| _ | G | R513A (XP10) |

⁽¹⁾ For all configurations including pump ${\bf J}$ please contact the factory

PERFORMANCE SPECIFICATIONS

TBA - (A)

| I DA - (A) | | | | | | | | | | | |
|--------------------------------------|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 330,7 | 437,3 | 633,9 | 741,5 | 871,9 | 974,8 | 1087,0 | 1155,9 | 1256,9 | 1404,1 |
| Input power | kW | 95,3 | 125,9 | 183,0 | 214,9 | 254,8 | 279,5 | 314,9 | 334,9 | 369,1 | 413,3 |
| Cooling total input current | A | 150,7 | 200,9 | 286,2 | 346,4 | 416,6 | 446,9 | 502,1 | 547,3 | 592,3 | 667,6 |
| EER | W/W | 3,47 | 3,47 | 3,46 | 3,45 | 3,42 | 3,49 | 3,45 | 3,45 | 3,41 | 3,40 |
| Water flow rate system side | l/h | 56903 | 75228 | 109011 | 127504 | 149890 | 167604 | 186876 | 198728 | 216075 | 241381 |
| Pressure drop system side | kPa | 60 | 55 | 48 | 42 | 30 | 52 | 45 | 54 | 36 | 42 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBA - (E)

| Size | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|------------------------------------|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 330,7 | 437,3 | 633,9 | 741,5 | 871,9 | 974,8 | 1087,0 | 1155,9 | 1256,9 | 1404,1 |
| Input power | kW | 95,3 | 125,9 | 183,0 | 214,9 | 254,8 | 279,5 | 314,9 | 334,9 | 369,1 | 413,3 |
| Cooling total input current | А | 150,7 | 200,9 | 286,2 | 346,4 | 416,6 | 446,9 | 502,1 | 547,3 | 592,3 | 667,6 |
| EER | W/W | 3,47 | 3,47 | 3,46 | 3,45 | 3,42 | 3,49 | 3,45 | 3,45 | 3,41 | 3,40 |
| Water flow rate system side | l/h | 56903 | 75228 | 109011 | 127504 | 149890 | 167604 | 186876 | 198728 | 216075 | 241381 |
| Pressure drop system side | kPa | 60 | 55 | 48 | 42 | 30 | 52 | 45 | 54 | 36 | 42 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBA - (U)

| Size | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|------------------------------------|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 328,1 | 443,8 | 633,5 | 758,5 | 876,4 | 985,0 | 1088,0 | 1154,9 | 1256,9 | 1342,4 |
| Input power | kW | 92,3 | 124,4 | 178,8 | 213,2 | 245,5 | 275,4 | 306,8 | 326,3 | 358,1 | 386,6 |
| Cooling total input current | A | 145,7 | 200,9 | 281,4 | 341,6 | 401,9 | 437,1 | 487,3 | 522,6 | 582,6 | 627,6 |
| EER | W/W | 3,56 | 3,57 | 3,54 | 3,56 | 3,57 | 3,58 | 3,55 | 3,54 | 3,51 | 3,47 |
| Water flow rate system side | l/h | 56452 | 76308 | 108940 | 130424 | 150669 | 169356 | 187070 | 198556 | 216075 | 230760 |
| Pressure drop system side | kPa | 51 | 25 | 49 | 50 | 30 | 53 | 56 | 53 | 36 | 38 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBA - (N)

| Size | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|------------------------------------|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 328,1 | 443,8 | 633,5 | 758,5 | 876,4 | 985,0 | 1088,0 | 1154,9 | 1256,9 | 1342,4 |
| Input power | kW | 92,3 | 124,4 | 178,8 | 213,2 | 245,5 | 275,4 | 306,8 | 326,3 | 358,1 | 386,6 |
| Cooling total input current | A | 145,7 | 200,9 | 281,4 | 341,6 | 401,9 | 437,1 | 487,3 | 522,6 | 582,6 | 627,6 |
| EER | W/W | 3,56 | 3,57 | 3,54 | 3,56 | 3,57 | 3,58 | 3,55 | 3,54 | 3,51 | 3,47 |
| Water flow rate system side | I/h | 56452 | 76308 | 108940 | 130424 | 150669 | 169356 | 187070 | 198556 | 216075 | 230760 |
| Pressure drop system side | kPa | 51 | 25 | 49 | 50 | 30 | 53 | 56 | 53 | 36 | 38 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|---|----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - (EN14825:2018) 12/7 with inverte | r fans (1) | | | | | | | | | | | |
| CLLD | A,E | W/W | 5,15 | 5,23 | 5,48 | 5,25 | 5,54 | 5,54 | 5,51 | 5,49 | 5,57 | 5,35 |
| SEER | N,U | W/W | 5,35 | 5,41 | 5,60 | 5,48 | 5,76 | 5,80 | 5,62 | 5,71 | 5,73 | 5,62 |
| Casanal officians | A,E | % | 203,1% | 206,0% | 216,0% | 206,8% | 218,4% | 218,4% | 217,5% | 216,5% | 219,8% | 211,0% |
| Seasonal efficiency | N,U | % | 211,0% | 213,5% | 221,0% | 216,1% | 227,3% | 229,1% | 221,9% | 225,4% | 226,3% | 221,6% |
| SEPR - (EN14825: 2018) High temperatur | e with inverte | r fans (2) | | | | | | | | | | |
| CEDD | A,E | W/W | 6,31 | 6,65 | 6,11 | 6,32 | 6,41 | 6,13 | 6,26 | 6,33 | 6,28 | 6,12 |
| SEPR | N,U | W/W | 6,47 | 6,61 | 6,52 | 6,80 | 6,49 | 6,62 | 6,57 | 6,50 | 6,47 | 6,40 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum aument (FLA) | A,E | A | 165,0 | 249,0 | 319,0 | 404,0 | 488,0 | 483,0 | 568,0 | 727,0 | 727,0 | 797,0 |
| Maximum current (FLA) | N,U | А | 165,0 | 249,0 | 329,0 | 413,0 | 498,0 | 493,0 | 577,0 | 737,0 | 737,0 | 797,0 |
| Deal, sussessed (LDA) | A,E | A | 36,0 | 45,0 | 200,0 | 210,0 | 305,0 | 374,0 | 470,0 | 565,0 | 565,0 | 720,0 |
| Peak current (LRA) | N,U | А | 36,0 | 45,0 | 210,0 | 305,0 | 315,0 | 384,0 | 479,0 | 575,0 | 575,0 | 720,0 |

GENERAL TECHNICAL DATA

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|----------------------------|---------|------|--------|--------|--------|--------|---------|----------|--------|--------|--------|--------|
| Compressor | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | Centi | rifugal | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | Inve | erter | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| Circuits | A,E,N,U | no. | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 |
| Refrigerant | A,E,N,U | type | | | | | R1 | 34a | | | | |
| D. C | A,E | kg | 81,0 | 166,0 | 152,0 | 243,0 | 285,0 | 264,0 | 306,0 | 317,0 | 387,0 | 398,0 |
| Refrigerant charge (1) | N,U | kg | 81,0 | 166,0 | 163,0 | 254,0 | 296,0 | 275,0 | 317,0 | 328,0 | 398,0 | 398,0 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | Shell a | nd tube | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Туре | | | | | Groove | d joints | | | | |
| Cinca (in Local) | A,E | Ø | 3" | 4" | 6" | 6" | 6" | 6" | 6" | 6" | 8" | 8" |
| Sizes (in/out) | N,U | Ø | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 8" | 8" |
| Fan | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | ax | ials | | | | |
| Fan motor | A,E,N,U | type | | | | | Inve | erter | | | | |
| N. I | A,E | no. | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 20 | 22 |
| Number | N,U | no. | 6 | 8 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 22 |
| A:- 0 | A,E | m³/h | 112920 | 150560 | 188200 | 225840 | 263480 | 301120 | 338760 | 376400 | 376400 | 414040 |
| Air flow rate | N,U | m³/h | 112920 | 150560 | 225840 | 263480 | 301120 | 338760 | 376400 | 414040 | 414040 | 414040 |

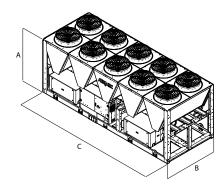
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

SOUND DATA

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|---|----|-------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | |
| | A | dB(A) | 88,3 | 89,9 | 90,8 | 92,5 | 93,0 | 92,8 | 93,9 | 95,3 | 95,3 | 95,3 |
| Cound nowar loval | E | dB(A) | 82,3 | 83,9 | 84,8 | 86,5 | 87,0 | 86,8 | 87,9 | 89,3 | 89,3 | 89,3 |
| Sound power level | N | dB(A) | 82,3 | 84,0 | 85,3 | 86,8 | 87,1 | 87,1 | 88,1 | 89,5 | 89,5 | 89,3 |
| | U | dB(A) | 88,3 | 90,0 | 91,3 | 92,8 | 93,1 | 93,1 | 94,1 | 95,5 | 95,5 | 95,3 |
| | Α | dB(A) | 56,1 | 57,5 | 58,3 | 59,9 | 60,2 | 59,9 | 60,9 | 62,2 | 62,2 | 62,1 |
| Cound account level (10 m) | E | dB(A) | 50,1 | 51,5 | 52,3 | 53,9 | 54,2 | 53,9 | 54,9 | 56,2 | 56,2 | 56,1 |
| Sound pressure level (10 m) | N | dB(A) | 50,1 | 51,6 | 52,7 | 54,0 | 54,2 | 54,1 | 55,0 | 56,3 | 56,3 | 56,1 |
| | U | dB(A) | 56,1 | 57,6 | 58,7 | 60,0 | 60,2 | 60,1 | 61,0 | 62,3 | 62,3 | 62,1 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
|-----------------------------|---------|----|------|------|------|------|------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | A,E | mm | 3570 | 4760 | 5950 | 7140 | 8330 | 9520 | 10710 | 11900 | 11900 | 13090 |
| | N,U | mm | 3570 | 4760 | 7140 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 | 13090 |
| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 | 4325 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| | А | kg | 2770 | 3480 | 4500 | 5550 | 6390 | 6760 | 7950 | 8240 | 8600 | 9700 |
| F | E | kg | 2850 | 3590 | 4630 | 5720 | 6580 | 6980 | 8190 | 8510 | 8870 | 10000 |
| Empty weight | N | kg | 2880 | 3810 | 5120 | 5950 | 7060 | 7430 | 8200 | 8950 | 9320 | 10000 |
| | U | kg | 2800 | 3700 | 4950 | 5760 | 6840 | 7180 | 7920 | 8650 | 9010 | 9700 |
| | A | kg | 2840 | 3560 | 4630 | 5730 | 6650 | 6960 | 8210 | 8500 | 8940 | 9990 |
| Mainha fi matianin a | E | kg | 2920 | 3670 | 4760 | 5900 | 6840 | 7180 | 8450 | 8770 | 9210 | 10290 |
| Weight functioning | N | kg | 2960 | 3940 | 5250 | 6100 | 7320 | 7630 | 8410 | 9210 | 9660 | 10290 |
| | U | kg | 2880 | 3830 | 5080 | 5910 | 7100 | 7380 | 8130 | 8910 | 9350 | 9990 |



















TBG 1230-4310

Air-water chiller

Cooling capacity 200 ÷ 1165 kW



- · High efficiency also at partial loads
- Microchannel coil
- Low peak current (only 6 Amps!)
- Evaporator with low refrigerant charge
- Night mode





DESCRIPTION

Air-cooled chiller designed to meet air conditioning needs in residential / commercial complexes or industrial applications.

These are outdoor units with oil free centrifugal compressor, axial fans, micro-channel coils, and shell and tube heat exchangers.

The base, the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency
E Silenced high efficiency
N Silenced very high efficiency
U Very high efficiency

FEATURES

Operating field

Operation at full load up to 43°C external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

Units mono or dual-circuit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Oil free centrifugal compressor

 $\label{two-stage} Two\text{-stage oil-free centrifugal compressor with magnetic levitation and inverter.}$

Compressor features:

- Operates without oil as bearings are magnetic levitation type
- Continuous load modulation by varying rpm (from 30% to 100%)

— Low peak currents (only 6 Amps!)

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations, to obtain a solution that allows you to save money and to facilitate installation.

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

da ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430;

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

Further features:

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 \mathbf{x} \mathbf{n}° **3:** RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 4: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected

is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

XLATB: This kit allows to extend the working range of the unit from $\,0\,$ °C to -10 °C ambient temperature, thanks to an additional electric heater and a special insulating material for the heat exchanger.

GP_T: Anti-intrusion grid kit

ACCESSORIES COMPATIBILITY

| H . J . I | | 1220 | 1310 | 2220 | 2270 | 2210 | 2270 | 2200 | 2210 | 4270 | 4210 |
|---------------------|---------|------|------|------|------|------|------|------|------|------|------|
| Model | Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
| AER485P1 | A,E,N,U | • | • | | | | | | | | |
| AER485P1 x n° 2 (1) | A,E,N,U | | | • | • | • | | | | | |
| AER485P1 x n° 3 (1) | A,E,N,U | | | | | | • | • | • | • | |
| AER485P1 x n° 4 (1) | A,E,N,U | | | | | | | | | | • |
| AERBACP | A,E,N,U | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E,N,U | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E,N,U | • | • | • | • | • | • | • | • | • | • |
| PGD1 | A,E,N,U | • | • | • | • | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E,N,U | AVX (1) |

(1) Contact us.

XLATB: Kit for low temperature

| Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E,N,U | XLATB1 | XLATB3 | XLATB4 | XLATB5 | XLATB5 | XLATB6 | XLATB6 | XLATB6 | XLATB7 | XLATB7 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----|------|------|------|------|------|------|------|-------|-------|-------|
| A,E | GP2T | GP3T | GP4T | GP5T | GP6T | GP7T | GP8T | GP9T | GP10T | GP11T |
| N,U | GP3T | GP4T | GP5T | GP6T | GP7T | GP8T | GP9T | GP10T | GP11T | GP11T |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fiel | d | Description |
|------|------|---|
| 1,2, | ,3 | TBG |
| 4,5, | .6,7 | Size 1230, 1310, 2230, 2270, 2310, 3270, 3280, 3310, 4270, 4310 |
| 8 | | Model |
| | 0 | Cooling only |
| 9 | | Heat recovery |
| | 0 | Without heat recovery |
| 10 | | Version |
| | Α | High efficiency |
| | Ε | Silenced high efficiency |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 11 | | Coils |
| | 0 | Aluminium microchannel |
| | 0 | Coated aluminium microchannel |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 12 | | Fans |
| | J | Inverter |
| 13 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14, | 15 | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (1) |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | | |

| Field | Description |
|-------|--|
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (1) |
| IA | Pump A equipped with inverter device to work at fixed speed |
| IB | Pump B equipped with inverter device to work at fixed speed |
| IC | Pump C equipped with inverter device to work at fixed speedr |
| ID | Pump D equipped with inverter device to work at fixed speed |
| IE | Pump E equipped with inverter device to work at fixed speed |
| IF | Pump F equipped with inverter device to work at fixed speed |
| IG | Pump G equipped with inverter device to work at fixed speed |
| IH | Pump H equipped with inverter device to work at fixed speed |
| II | Pump I equipped with inverter device to work at fixed speed |
| IJ | Pump J equipped with inverter device to work at fixed speed (1) |
| JA | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| JB | Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| JC | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| JD | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| JE | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| JF | Pump F+stand-by pump, both equipped with inverter to work at fixed speed |
| JG | Pump G+stand-by pump, both equipped with inverter to work at fixed speed |
| JH | Pump H+stand-by pump, both equipped with inverter to work at fixed speed |
| JI | Pump I+stand-by pump, both equipped with inverter to work at fixed speed |
| JJ | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (1) |
| KF | Doble pump F with inverter device to work at fixed speed |
| KG | Doble pump G with inverter device to work at fixed speed |
| KH | Doble pump H with inverter device to work at fixed speed |
| KI | Doble pump I with inverter device to work at fixed speed |
| KJ | Doble pump J with inverter device to work at fixed speed (1) |
| TF | Double pump F |
| TG | Double pump G |
| TH | Double pump H |
| TI | Double pump I |
| TJ | Double pump J (1) |

⁽¹⁾ For all configurations including pump J please contact the factory.

PERFORMANCE SPECIFICATIONS

TBG - (A)

| | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----|-----------------------|--|--|---|--|--|--|--|--|---|
| | | | | | | | | | | |
| kW | 199,9 | 296,6 | 417,6 | 502,3 | 600,1 | 687,0 | 791,4 | 900,3 | 1033,3 | 1165,3 |
| kW | 57,7 | 86,1 | 121,5 | 146,6 | 174,8 | 199,1 | 231,3 | 262,2 | 305,7 | 345,1 |
| А | 95,5 | 140,7 | 200,9 | 241,2 | 291,4 | 326,6 | 386,9 | 437,1 | 502,3 | 577,6 |
| W/W | 3,46 | 3,45 | 3,44 | 3,43 | 3,43 | 3,45 | 3,42 | 3,43 | 3,38 | 3,38 |
| l/h | 34397 | 51028 | 71817 | 86370 | 103190 | 118120 | 136075 | 154785 | 177653 | 200332 |
| kPa | 28 | 43 | 29 | 32 | 37 | 36 | 38 | 40 | 41 | 46 |
| | kW A W/W I/h | kW 199,9 kW 57,7 A 95,5 W/W 3,46 1/h 34397 | kW 199,9 296,6 kW 57,7 86,1 A 95,5 140,7 W/W 3,46 3,45 1/h 34397 51028 | kW 199,9 296,6 417,6 kW 57,7 86,1 121,5 A 95,5 140,7 200,9 W/W 3,46 3,45 3,44 1/h 34397 51028 71817 | kW 199,9 296,6 417,6 502,3 kW 57,7 86,1 121,5 146,6 A 95,5 140,7 200,9 241,2 W/W 3,46 3,45 3,44 3,43 1/h 34397 51028 71817 86370 | kW 199,9 296,6 417,6 502,3 600,1 kW 57,7 86,1 121,5 146,6 174,8 A 95,5 140,7 200,9 241,2 291,4 W/W 3,46 3,45 3,44 3,43 3,43 1/h 34397 51028 71817 86370 103190 | kW 199,9 296,6 417,6 502,3 600,1 687,0 kW 57,7 86,1 121,5 146,6 174,8 199,1 A 95,5 140,7 200,9 241,2 291,4 326,6 W/W 3,46 3,45 3,44 3,43 3,43 3,45 1/h 34397 51028 71817 86370 103190 118120 | kW 199,9 296,6 417,6 502,3 600,1 687,0 791,4 kW 57,7 86,1 121,5 146,6 174,8 199,1 231,3 A 95,5 140,7 200,9 241,2 291,4 326,6 386,9 W/W 3,46 3,45 3,44 3,43 3,43 3,45 3,42 I/h 34397 51028 71817 86370 103190 118120 136075 | kW 199,9 296,6 417,6 502,3 600,1 687,0 791,4 900,3 kW 57,7 86,1 121,5 146,6 174,8 199,1 231,3 262,2 A 95,5 140,7 200,9 241,2 291,4 326,6 386,9 437,1 W/W 3,46 3,45 3,44 3,43 3,43 3,45 3,42 3,43 1/h 34397 51028 71817 86370 103190 118120 136075 154785 | kW 199,9 296,6 417,6 502,3 600,1 687,0 791,4 900,3 1033,3 kW 57,7 86,1 121,5 146,6 174,8 199,1 231,3 262,2 305,7 A 95,5 140,7 200,9 241,2 291,4 326,6 386,9 437,1 502,3 W/W 3,46 3,45 3,44 3,43 3,43 3,45 3,42 3,43 3,38 I/h 34397 51028 71817 86370 103190 118120 136075 154785 177653 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBG - (E)

| Size | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|------------------------------------|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 199,9 | 296,6 | 417,6 | 502,3 | 600,1 | 687,0 | 791,4 | 900,3 | 1033,3 | 1165,3 |
| Input power | kW | 57,7 | 86,1 | 121,5 | 146,6 | 174,8 | 199,1 | 231,3 | 262,2 | 305,7 | 345,1 |
| Cooling total input current | А | 95,5 | 140,7 | 200,9 | 241,2 | 291,4 | 326,6 | 386,9 | 437,1 | 502,3 | 577,6 |
| EER | W/W | 3,46 | 3,45 | 3,44 | 3,43 | 3,43 | 3,45 | 3,42 | 3,43 | 3,38 | 3,38 |
| Water flow rate system side | l/h | 34397 | 51028 | 71817 | 86370 | 103190 | 118120 | 136075 | 154785 | 177653 | 200332 |
| Pressure drop system side | kPa | 28 | 43 | 29 | 32 | 37 | 36 | 38 | 40 | 41 | 46 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBG - (U)

| Size | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|------------------------------------|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 230,7 | 324,2 | 439,6 | 511,1 | 604,5 | 709,0 | 807,9 | 906,9 | 1011,3 | 1112,5 |
| Input power | kW | 65,3 | 91,2 | 124,4 | 143,9 | 170,1 | 201,3 | 230,6 | 257,3 | 290,2 | 323,2 |
| Cooling total input current | А | 105,7 | 150,9 | 206,2 | 236,4 | 276,6 | 331,9 | 392,1 | 427,3 | 477,6 | 537,6 |
| EER | W/W | 3,53 | 3,55 | 3,53 | 3,55 | 3,55 | 3,52 | 3,50 | 3,52 | 3,49 | 3,44 |
| Water flow rate system side | l/h | 39688 | 55753 | 75597 | 87882 | 103946 | 121900 | 138909 | 155919 | 173873 | 191260 |
| Pressure drop system side | kPa | 37 | 32 | 32 | 33 | 38 | 39 | 39 | 41 | 39 | 42 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

TBG - (N)

| Size | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----------------------------------|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | |
| Cooling capacity | kW | 230,7 | 324,2 | 439,6 | 511,1 | 604,5 | 709,0 | 807,9 | 906,9 | 1011,3 | 1112,5 |
| Input power | kW | 65,3 | 91,2 | 124,4 | 143,9 | 170,1 | 201,3 | 230,6 | 257,3 | 290,2 | 323,2 |
| Cooling total input current | A | 105,7 | 150,9 | 206,2 | 236,4 | 276,6 | 331,9 | 392,1 | 427,3 | 477,6 | 537,6 |
| EER | W/W | 3,53 | 3,55 | 3,53 | 3,55 | 3,55 | 3,52 | 3,50 | 3,52 | 3,49 | 3,44 |
| Water flow rate system side | l/h | 39688 | 55753 | 75597 | 87882 | 103946 | 121900 | 138909 | 155919 | 173873 | 191260 |
| Pressure drop system side | kPa | 37 | 32 | 32 | 33 | 38 | 39 | 39 | 41 | 39 | 42 |

⁽¹⁾ Data EN 14511:2022; Heat exchanger water (services side) 12°C / 7°C; outside air 35°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---|----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - (EN14825:2018) 12/7 with inverte | r fans (1) | | | | | | | | | | | |
| CEED | A,E | W/W | 5,44 | 5,52 | 5,76 | 5,44 | 5,85 | 5,70 | 5,77 | 5,78 | 5,61 | 5,60 |
| SEER | N,U | W/W | 5,63 | 6,03 | 5,97 | 5,71 | 6,04 | 5,80 | 5,89 | 5,93 | 5,81 | 5,71 |
| Seasonal efficiency — | A,E | % | 214,6% | 217,6% | 227,5% | 214,6% | 231,1% | 225,1% | 227,6% | 228,3% | 221,5% | 220,8% |
| Seasonal efficiency | N,U | % | 222,3% | 238,0% | 235,9% | 225,2% | 238,7% | 229,0% | 232,5% | 234,0% | 229,2% | 225,5% |
| SEPR - (EN14825: 2018) High temperatur | e with inverte | r fans (2) | | | | | | | | | | |
| SEPR — | A,E | W/W | 6,34 | 5,98 | 5,99 | 6,54 | 6,35 | 6,60 | 6,05 | 6,07 | 5,98 | 5,97 |
| | N,U | W/W | 6,47 | 6,21 | 6,18 | 6,78 | 6,56 | 6,73 | 6,20 | 6,23 | 6,17 | 6,09 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | A | 115,0 | 180,0 | 229,0 | 294,0 | 359,0 | 408,0 | 528,0 | 538,0 | 587,0 | 707,0 |
| | N,U | А | 125,0 | 189,0 | 239,0 | 304,0 | 368,0 | 418,0 | 538,0 | 547,0 | 597,0 | 707,0 |
| Peak current (LRA) — | A,E | A | 26,0 | 36,0 | 151,0 | 220,0 | 230,0 | 180,0 | 249,0 | 424,0 | 209,0 | 608,0 |
| | N,U | А | 36,0 | 45,0 | 161,0 | 230,0 | 239,0 | 190,0 | 259,0 | 433,0 | 219,0 | 608,0 |

GENERAL TECHNICAL DATA

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|----------------------------|---------|------|--------|--------|--------|--------|---------|----------|--------|--------|--------|--------|
| Compressor | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | Centr | ifugal | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | Inve | erter | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| Circuits | A,E,N,U | no. | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | R12 | 34ze | | | | |
| Definement sharms (1) | A,E | kg | 71,0 | 110,0 | 142,0 | 177,0 | 188,0 | 254,0 | 265,0 | 307,0 | 318,0 | 328,0 |
| Refrigerant charge (1) | N,U | kg | 82,0 | 121,0 | 153,0 | 188,0 | 198,0 | 265,0 | 276,0 | 286,0 | 328,0 | 328,0 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | Shell a | nd tube | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Туре | | | | | Groove | d joints | | | | |
| Sizes (in/out) | A,E,N,U | Ø | 3" | 4" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Fan | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | ax | ials | | | | |
| Fan motor | A,E,N,U | type | | | | | Inve | erter | | | | |
| Montheau | A,E | no. | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| Number | N,U | no. | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 22 |
| A:- 0 | A,E | m³/h | 75280 | 112920 | 150560 | 188200 | 225840 | 263480 | 301120 | 338760 | 376400 | 414040 |
| Air flow rate | N,U | m³/h | 112920 | 150560 | 188200 | 225840 | 263480 | 301120 | 338760 | 376400 | 414040 | 414040 |

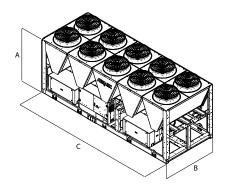
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

SOUND DATA

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---|----|-------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | |
| | А | dB(A) | 85,2 | 88,4 | 88,2 | 90,1 | 91,4 | 91,3 | 92,9 | 93,1 | 93,1 | 94,2 |
| Sound power level – – | E | dB(A) | 82,2 | 85,4 | 85,2 | 87,1 | 88,4 | 88,3 | 89,9 | 90,1 | 90,1 | 91,2 |
| | N | dB(A) | 83,3 | 85,9 | 85,8 | 87,5 | 88,7 | 88,6 | 90,1 | 90,3 | 90,3 | 91,2 |
| | U | dB(A) | 86,3 | 88,9 | 88,8 | 90,5 | 91,7 | 91,6 | 93,1 | 93,3 | 93,3 | 94,2 |
| | Α | dB(A) | 53,3 | 56,5 | 55,8 | 57,6 | 58,8 | 58,5 | 60,0 | 60,1 | 60,0 | 61,0 |
| Sound pressure level (10 m) — | Е | dB(A) | 50,3 | 53,5 | 52,8 | 54,6 | 55,8 | 55,5 | 57,0 | 57,1 | 57,0 | 58,0 |
| | N | dB(A) | 51,1 | 53,5 | 53,3 | 54,9 | 55,9 | 55,7 | 57,1 | 57,2 | 57,1 | 58,0 |
| | U | dB(A) | 54,1 | 56,5 | 56,3 | 57,9 | 58,9 | 58,7 | 60,1 | 60,2 | 60,1 | 61,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----------------------------|---------|----|------|------|------|------|------|------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | A,E | mm | 1190 | 1190 | 4760 | 5950 | 7140 | 8330 | 9520 | 10710 | 11900 | 13090 |
| | N,U | mm | 3570 | 4760 | 5950 | 7140 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 |
| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| | Α | kg | 2470 | 2980 | 4020 | 4800 | 5250 | 6490 | 6950 | 7440 | 8900 | 9510 |
| [| E | kg | 2520 | 3060 | 4130 | 4940 | 5410 | 6680 | 7170 | 7690 | 9170 | 9810 |
| Empty weight | N | kg | 2840 | 3590 | 4560 | 5420 | 5890 | 7150 | 7620 | 8130 | 9610 | 9800 |
| | U | kg | 2760 | 3480 | 4430 | 5250 | 5700 | 6930 | 7370 | 7850 | 9310 | 9500 |
| | А | kg | 2540 | 3050 | 4110 | 4930 | 5390 | 6670 | 7150 | 7650 | 9160 | 9780 |
| Weight functioning – — | E | kg | 2590 | 3130 | 4220 | 5070 | 5550 | 6860 | 7370 | 7900 | 9430 | 10080 |
| | N | kg | 2910 | 3670 | 4650 | 5550 | 6030 | 7330 | 7820 | 8340 | 9870 | 10070 |
| | U | kg | 2830 | 3560 | 4520 | 5380 | 5840 | 7110 | 7570 | 8060 | 9570 | 9770 |



AIR / WATER CHILLERS WITH FREE COOLING

When the cooling of the room is requested throughout the year, even during the winter season, such as in modern communication centers or in industrial applications, it is a waste to consume energy to produce cooling capacity. To meet these needs, Aermec offers a range of chillers capable of exploiting, free of charge, the external cold air to cool the liquid with a considerable energy saving.

Air flow rate Cool. Cap. Heat. Cap. Page **AIR / WATER CHILLERS WITH FREECOOLING** (m³/h) (kW) (kW) **Units with scroll compressors** NRG 0282-0754 F Air-water chiller with free-cooling 58-190 NRB 0800-3600 F Air-water chiller with free-cooling NRB 0800-3600 B Air-water chiller with free-cooling glycol free NRV 0550 F Air-water chiller with free-cooling Units with screw compressors NSM 1402-9603 F Air-water chiller with free-cooling 306-2028 Air-water chiller with free-cooling glycol free NSM 1402-9603 B 305,8-2028,1 -Air-water chiller with free-cooling NSM-HWT-1402-9603-F 306-2001 Air-water chiller with free-cooling glycol free NSM-HWT-1402-9603-B 306-1991 Air-water chiller with free-cooling and Inverter screw compressors NSMI 1251-6102 F 286-1280 TBA 1300-3350 F Air-water chiller with free-cooling 317,2-1223,6 -TBG 1230-4310 F Air-water chiller with free-cooling 238-1110 -



















NRG 0282-0754 F

Air-water chiller with free-cooling

Cooling capacity 58 ÷ 190 kW



- · High efficiency also at partial loads
- · Reduced amount of refrigerant
- Compact dimensions



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with streamlined scroll compressors used with R32 gas.

Condensing coil with copper pipes and aluminium louvers, plate heat exchanger.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 48°C external air temperature. Unit can produce chilled water up to -10 °C.

For more information refer to the selection program and to to the dedicated documentation.

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Refrigerant HFC R32

The environmental impact of the units is reduced considerably owing to the last generation R32 (A2L) refrigerant.

Combining a reduced refrigerant load with a low global warming potential (GWP), these units boast low equivalent CO₂ values.

■ The leak detector is supplied as per standard.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

New condensing Coils

The whole range uses copper - aluminium condensation coils with reduced diameter rows, allowing a lower quantity of gas to be used compared to traditional coils.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy seasonal efficiency of the unit.

Option integrated hydronic kit

An optional, integrated hydronic kit containing the main hydraulic components, to obtain a solution that allows you to save money and to facilitate installation.

It is available in different configurations with storage tank or with fixed pumps also inverter.

CONTRO

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Floating HP control: the function can be activated with inverter fans or with DCPX which allows unit operation to be optimised at any operating point through continuous modulation of the fan speed. In addition, the use of inverter fans ensures an increase in energy efficiency at partial loads.

— **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

GP: Anti-intrusion grid. VT: Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
| AFD40FD1 | A | | | | | • | • | • | • | • | • | • |
| AER485P1 | E | • | • | • | • | • | • | • | • | • | • | • |
| AFDDACD | A | | | | | | | | | • | • | |
| ERBACP | E | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A | | | | | • | • | • | • | • | • | • |
| | E | • | • | • | • | • | • | • | • | • | • | • |
| MULTICUILLED EVA | A | | | | | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | E | • | | | | • | | | | • | • | |
| PGD1 | A | | | | | • | • | • | • | • | • | • |
| | E | | | • | | | • | • | | | • | |

Antivibration

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|--|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00, I3, I4, P3, P | 4 | | | | | | | | | | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 |
| E | VT17 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 |
| Integrated hydronic kit: 03, 04, K3, K4 | | | | | | | | | | | |
| A | - | - | - | - | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 |
| E | VT13 | VT13 | VT13 | VT13 | VT11 | VT11 | VT11 | VT11 | VT22 | VT22 | VT22 |

Anti-intrusion grid

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|-----|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | - | - | - | - | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |
| E | GP4 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 2 (1) | GP2 x 3 (1) |

Device for peak current reduction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| A | - | - | - | - | DRENRG502FC | DRENRG552FC | DRENRG554 | DRENRG604 | DRENRG654 | DRENRG704 | DRENRG754 |
| E | DRENRG282FC | DRENRG302FC | DRENRG332FC | DRENRG352FC | DRENRG502FC | DRENRG552FC | DRENRG554 | DRENRG604 | DRENRG654 | DRENRG704 | DRENRG754 |

The accessory cannot be fitted on the configurations indicated with

Power factor correction

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| A | - | - | - | - | RIFNRG502FC | RIFNRG552FC | RIFNRG554 | RIFNRG604 | RIFNRG654 | RIFNRG704 | RIFNRG754 |
| E | RIFNRG282FC | RIFNRG302FC | RIFNRG332FC | RIFNRG352FC | RIFNRG502FC | RIFNRG552FC | RIFNRG554 | RIFNRG604 | RIFNRG654 | RIFNRG704 | RIFNRG754 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A,E | T6NRG2 |

A grey background indicates the accessory must be assembled in the factory

⁽¹⁾ x_indicates the quantity to buy
The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRG |
| 4,5,6,7 | Size |
| 4,3,0,7 | 0282, 0302, 0332, 0352, 0502, 0552, 0554, 0604, 0654, 0704, 0754 |
| 8 | Operating field |
| X | Electronic thermostatic expansion valve |
| Z | Low temperature electronic thermostatic valve |
| 9 | Model |
| F | Free-cooling |
| S | Free-cooling with special 3-way valve |
| 10 | Heat recovery |
| | Without heat recovery |
| D | With desuperheater |
| 11 | Version |
| Α | High efficiency |
| E | Silenced high efficiency (1) |
| 12 | Coils / free-cooling coils |
| 0 | Copper-aluminium / Copper-aluminium |
| R | Copper-copper/Copper-copper |
| S | Copper-Tinned copper / Copper - Tinned copper |
| V | Copper-painted alumimium / Copper-painted alumimium |
| 13 | Fans |
| 0 | Standard |
| J | Inverter (2) |
| 14 | Power supply |
| ۰ | 400V ~ 3N 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| | Kit with storage tank and pump/s |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| | Kit with pump/s |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| | Kit with inverter pump/s to fixed speed |
| 13 | Single high head pump + fixed speed inverter |
| 14 | Single high head pump with fixed speed inverter + stand-by pump |
| | Kit with storage tank and inverter pump/s to fixed speed |
| K3 | Single high head pump + storage tank + fixed speed inverter |
| K4 | Storage tank and low head pump with fixed speed inverter + stand-by pump |
| | |

⁽¹⁾ The size 0282-0302-0332-0352 only available in low noise versions.

PERFORMANCE SPECIFICATIONS

NRG - A

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|--|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance chiller operation (1) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 100,8 | 111,4 | 116,9 | 134,7 | 148,5 | 168,3 | 190,0 |
| Input power | kW | - | - | - | - | 31,5 | 35,1 | 38,4 | 43,2 | 49,0 | 58,5 | 67,0 |
| Cooling total input current | A | - | - | - | - | 60,0 | 63,0 | 63,0 | 83,0 | 94,0 | 114,0 | 123,0 |
| EER | W/W | - | - | - | - | 3,20 | 3,18 | 3,05 | 3,12 | 3,03 | 2,88 | 2,84 |
| Water flow rate system side | l/h | - | - | - | - | 17316 | 19137 | 20081 | 23139 | 25509 | 28916 | 32647 |
| Pressure drop system side | kPa | - | - | - | - | 43 | 52 | 44 | 60 | 72 | 84 | 85 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 73,2 | 75,6 | 76,6 | 89,6 | 92,2 | 95,1 | 97,5 |
| Input power | kW | - | - | - | - | 3,7 | 3,7 | 3,8 | 5,6 | 5,6 | 5,6 | 5,6 |
| Free cooling total input current | A | - | - | - | - | 7,0 | 6,6 | 6,3 | 11,0 | 11,0 | 11,0 | 10,0 |
| EER | W/W | - | - | - | - | 19,94 | 20,59 | 20,14 | 16,15 | 16,62 | 17,14 | 17,56 |
| Water flow rate system side | l/h | - | - | - | - | 17316 | 19137 | 20081 | 23139 | 25509 | 28916 | 32647 |
| Pressure drop system side | kPa | - | - | - | - | 63 | 76 | 71 | 65 | 78 | 90 | 93 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

⁽²⁾ As standard in sizes fom 0282 to 0352

NRG - E

| Size | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance chiller operation (1) | | | | | | | | | | | | |
| Cooling capacity | kW | 58,5 | 64,5 | 71,8 | 81,3 | 98,0 | 108,0 | 112,6 | 131,2 | 144,0 | 162,0 | 181,4 |
| Input power | kW | 18,7 | 22,1 | 24,7 | 30,4 | 32,0 | 36,0 | 39,7 | 44,1 | 50,1 | 60,7 | 70,5 |
| Cooling total input current | A | 33,0 | 44,0 | 50,0 | 62,0 | 58,0 | 62,0 | 63,0 | 80,0 | 91,0 | 113,0 | 123,0 |
| EER | W/W | 3,13 | 2,92 | 2,91 | 2,67 | 3,06 | 3,00 | 2,83 | 2,98 | 2,87 | 2,67 | 2,57 |
| Water flow rate system side | l/h | 10057 | 11082 | 12338 | 13965 | 16843 | 18547 | 19341 | 22540 | 24736 | 27830 | 31164 |
| Pressure drop system side | kPa | 20 | 24 | 29 | 28 | 40 | 49 | 41 | 57 | 68 | 78 | 77 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | |
| Cooling capacity | kW | 39,2 | 44,0 | 48,8 | 51,0 | 73,2 | 75,6 | 76,6 | 89,6 | 92,2 | 95,1 | 97,5 |
| Input power | kW | 0,8 | 0,8 | 1,1 | 1,1 | 3,7 | 3,7 | 3,8 | 5,6 | 5,6 | 5,6 | 5,6 |
| Free cooling total input current | A | 1,5 | 1,7 | 2,2 | 2,2 | 6,6 | 6,3 | 6,1 | 10,0 | 10,0 | 10,0 | 9,7 |
| EER | W/W | 46,65 | 52,31 | 45,70 | 47,80 | 19,94 | 20,59 | 20,14 | 16,15 | 16,62 | 17,14 | 17,56 |
| Water flow rate system side | l/h | 10057 | 11082 | 12338 | 13965 | 16843 | 18547 | 19341 | 22540 | 24736 | 27830 | 31164 |
| Pressure drop system side | kPa | 35 | 31 | 40 | 41 | 59 | 71 | 66 | 61 | 74 | 84 | 85 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

ENERGY DATA BY TYPE OF FAN

| Size | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| SEPR - (EN14825: 2018) High temperature | rd fans (1) | | | | | | | | | | | | |
| SEPR | Α | W/W | - | - | - | - | 6,43 | 6,30 | 7,50 | 7,56 | 7,17 | 6,57 | 6,34 |
| SEPK | E | W/W | 7,11 | 6,66 | 6,65 | 6,21 | 6,34 | 6,14 | 7,16 | 7,24 | 7,02 | 6,39 | 6,12 |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | |
| Marrian arrant (FLA) | Α | Α | - | - | - | - | 73,5 | 79,1 | 80,5 | 100,1 | 111,4 | 132,7 | 144,0 |
| Maximum current (FLA) | E | А | 42,3 | 50,7 | 58,0 | 68,7 | 73,5 | 79,1 | 80,5 | 100,1 | 111,4 | 132,7 | 144,0 |
| Dook surrout (LDA) | А | А | - | - | - | - | 276,8 | 282,5 | 200,8 | 224,2 | 226,7 | 287,7 | 353,0 |
| Peak current (LRA) | E | A | 162.7 | 174.8 | 173,3 | 223.7 | 276,8 | 282.5 | 200.8 | 224,2 | 226,7 | 287.7 | 353,0 |

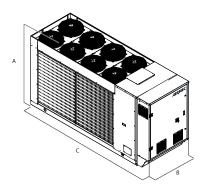
[■] Data calculated without hydronic kit and accessories.

GENERAL TECHNICAL DATA

| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|---|-----|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | Scroll | | | | | |
| Compressor regulation | A,E | Туре | | | | | | 0n/0ff | | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 |
| Circuits | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | | R32 | | | | | |
| System side heat exchanger | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | Brazed plate | | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | | |
| Sizes (in/out) | A,E | Ø | | | | | | 2"1/2 | | | | | |
| Fan | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | Axial | | | | | |
| Number | Α | no. | - | - | - | - | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Nullibel | E | no. | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Air flow rate | Α | m³/h | - | - | - | - | 36079 | 36079 | 36079 | 54481 | 54481 | 54481 | 54481 |
| All flow fate | E | m³/h | 23294 | 22734 | 26915 | 26915 | 27483 | 27483 | 27483 | 41449 | 41449 | 41449 | 41449 |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | | |
| Cound nowar laval | Α | dB(A) | - | - | - | - | 85,1 | 85,6 | 84,2 | 86,4 | 86,4 | 86,4 | 86,4 |
| Sound power level | E | dB(A) | 73,0 | 73,9 | 74,3 | 74,5 | 81,3 | 82,1 | 76,1 | 77,5 | 77,5 | 77,5 | 77,5 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0554 | 0604 | 0654 | 0704 | 0754 |
|------------------------|---|----|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | |
| Λ | А | mm | - | - | - | - | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 |
| A | E | mm | 1658 | 1658 | 1658 | 1658 | 1907 | 1907 | 1907 | 1900 | 1900 | 1900 | 1900 |
| D | A | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Б | E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| (| A | mm | - | - | - | - | 3567 | 3567 | 3567 | 4467 | 4467 | 4467 | 4467 |
| (| E | mm | 3317 | 3317 | 3317 | 3317 | 3567 | 3567 | 3567 | 4467 | 4467 | 4467 | 4467 |





















NRB 0800-3600 F

Air-water chiller with free-cooling

Cooling capacity 211 ÷ 1010 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- · High efficiency also at partial loads



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with scroll compressors, axial flow fans, micro-channel coil (source side), plate heat exchanger and thermostatic expansion valve (mechanical or electronic, depending on the model).

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency E Silenced high efficiency N Silenced very high efficiency U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Dual-circuit unit

Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Electronic expansion valve

The units from size 1805 to 3600 have an electronic expansion valve as standard.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

To obtain a solution that allows you to save money and to facilitate installation. These units can be configured with an integrated hydronic system

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

CONFIGURATOR

| Fiel | d | Description |
|------|----|---|
| 1,2 | .3 | NRB |
| 4,5, | | Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800 3000, 3200, 3400, 3600 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve (1) |
| | Χ | Electronic thermostatic expansion valve (2) |
| | Υ | Low temperature mechanic thermostatic valve |
| | Z | Low temperature electronic thermostatic valve |
| 9 | | Model |
| | F | Free-cooling |
| | Р | Free-cooling plus (3) |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (4) |
| 11 | | Version |
| | Α | High efficiency |
| | Е | Silenced high efficiency |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | | Coils / free-cooling coils |
| | 0 | Alluminium microchannel / Copper - aluminium |
| | ı | Copper-aluminium / Copper-aluminium |
| | 0 | Painted alluminium microchannel / Copper painted aluminium |
| | R | Copper-copper/Copper-copper |
| | S | Copper-Tinned copper / Copper -Tinned copper |
| | ٧ | Copper-painted alumimium / Copper-painted alumimium |
| 13 | | Fans |
| | 0 | Standard |
| | J | Inverter |
| 14 | | Power supply |
| | 0 | 400 V/3/50 Hz with magnet circuit breakers |
| 15, | 16 | Integrated hydronic kit |
| | | Without hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| _ | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | | |

| ACCESSO | KIES |
|----------------|------|

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

| Field | Description |
|-------|---|
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (5) |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (5) |
| | Kit with storage tank and n° 1 pump |
| AA | Storage tank and pump A |
| AB | Storage tank and pump B |
| AC | Storage tank and pump C |
| AD | Storage tank and pump D |
| AE | Storage tank and pump E |
| AF | Storage tank and pump F |
| AG | Storage tank and pump G |
| AH | Storage tank and pump H |
| Al | Storage tank and pump l |
| AJ | Storage tank and pump J (5) |
| | Kit with storage tank and n° 1 pump + stand-by pump |
| BA | Storage tank with pump A + stand-by pump |
| BB | Storage tank with pump B + stand-by pump |
| BC | Storage tank with pump C + stand-by pump |
| BD | Storage tank with pump D + stand-by pump |
| BE | Storage tank with pump E + stand-by pump |
| BF | Storage tank with pump F + stand-by pump |
| BG | Storage tank with pump G + stand-by pump |
| ВН | Storage tank with pump H + stand-by pump |
| BI | Storage tank with pump I + stand-by pump |
| BJ | Storage tank with pump J + stand-by pump (5) |

- (1) Water produced from 4 °C \div 18 °C

- (1) water produce in third C=" (2) Electronic thermostatic as standard from size 1805÷3600.
 (3) Free cooling Plus models "P" are compatible only with "o" and "0" coils.
 (4) The temperature of the water in the heat exchanger inlet must never drop below 35°C. (5) For all configurations including pump J please contact the factory.

FB1: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,E,N,U | • | • | • | • | | • | | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | A,E,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E,N,U | • | | | | | | | • | • | • | • | • | • | • | | | • |
| FB1 | A,E,N,U | • | | | | | | | | | | | | | | | | • |
| FL | A,E,N,U | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E,N,U | • | | | | | | | • | | | | • | • | • | • | • | • |
| PGD1 | A,E,N,U | • | • | | | • | • | • | • | • | • | • | • | • | • | • | • | • |

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|--------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| A | AVX1066 | AVX1066 | AVX1068 | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1052 | AVX1054 | AVX1055 | AVX1055 | AVX1050 | AVX1050 | AVX1050 |
| E,U | AVX1070 | AVX1070 | AVX1070 | AVX1072 | AVX1072 | AVX1072 | AVX1074 | AVX1052 | AVX1052 | AVX1054 | AVX1054 | AVX1050 | AVX1050 | AVX1058 | AVX1061 | AVX1061 | AVX1061 |
| N | AVX1072 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1074 | AVX1052 | AVX1054 | AVX1054 | AVX1057 | AVX1057 | AVX1058 | AVX1058 | AVX1061 | AVX1063 | AVX1063 | AVX1063 |
| Integrated hydronic kit: AA, AB, AC, AD | AE, AF, AG, | BA, BB, BO | , BD | | | | | | | | | | | | | | |
| A | AVX1068 | AVX1068 | AVX1069 | AVX1069 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1053 | AVX1056 | AVX1060 | AVX1060 | AVX1051 | AVX1051 | AVX1051 |
| E,U | AVX1071 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1053 | AVX1053 | AVX1056 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1062 | AVX1062 | AVX1062 |
| N | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1075 | AVX1053 | AVX1056 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1059 | AVX1062 | AVX1065 | AVX1065 | AVX1065 |
| Integrated hydronic kit: AH, AI, BE, BF, | BG | | | | | | | | | | | | | | | | |
| A | AVX1068 | AVX1068 | AVX1069 | AVX1069 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1053 | AVX1056 | AVX1060 | AVX1060 | AVX1051 | AVX1051 | AVX1051 |
| E,U | AVX1069 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1053 | AVX1053 | AVX1056 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1062 | AVX1062 | AVX1062 |
| N | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1075 | AVX1053 | AVX1056 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1059 | AVX1062 | AVX1065 | AVX1065 | AVX1065 |
| Integrated hydronic kit: BH, BI | | | | | | | | | | | | | | | | | |
| A | AVX1069 | AVX1069 | AVX1069 | AVX1069 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1053 | AVX1056 | AVX1060 | AVX1060 | AVX1051 | AVX1051 | AVX1051 |
| E,U | AVX1069 | AVX1069 | AVX1069 | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1053 | AVX1053 | AVX1056 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1062 | AVX1062 | AVX1062 |
| N | AVX1073 | AVX1073 | AVX1073 | AVX1075 | AVX1075 | AVX1075 | AVX1053 | AVX1078 | AVX1056 | AVX1051 | AVX1051 | AVX1059 | AVX1059 | AVX1062 | AVX1065 | AVX1065 | AVX1065 |
| Integrated hydronic kit: DA, DB, DC, DD | , PA, PB, PC | PD, PE, P | F, PG | | | | | | | | | | | | | | |
| A | AVX1066 | AVX1066 | AVX1068 | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1052 | AVX1054 | AVX1055 | AVX1055 | AVX1050 | AVX1050 | AVX1050 |
| E,U | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1072 | AVX1074 | AVX1052 | AVX1052 | AVX1054 | AVX1054 | AVX1050 | AVX1050 | AVX1058 | AVX1061 | AVX1061 | AVX1061 |
| N | AVX1072 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1074 | AVX1052 | AVX1054 | AVX1054 | AVX1050 | AVX1050 | AVX1058 | AVX1058 | AVX1061 | AVX1063 | AVX1063 | AVX1063 |
| Integrated hydronic kit: DE, DF, DG, PH | , PI | | | | | | | | | | | | | | | | |
| A | AVX1066 | AVX1066 | AVX1068 | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1052 | AVX1055 | AVX1055 | AVX1055 | AVX1050 | AVX1050 | AVX1050 |
| E,U | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1072 | AVX1076 | AVX1052 | AVX1052 | AVX1054 | AVX1054 | AVX1050 | AVX1050 | AVX1058 | AVX1061 | AVX1061 | AVX1061 |
| N | AVX1072 | AVX1072 | AVX1072 | AVX1074 | AVX1074 | AVX1074 | AVX1052 | AVX1055 | AVX1054 | AVX1050 | AVX1050 | AVX1058 | AVX1058 | AVX1061 | AVX1064 | AVX1064 | AVX1064 |
| Integrated hydronic kit: DH, DI | | | | | | | | | | | | | | | | | |
| A | AVX1067 | AVX1067 | AVX1068 | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1079 | AVX1076 | AVX1052 | AVX1055 | AVX1055 | AVX1055 | AVX1050 | AVX1050 | AVX1050 |
| E,U | AVX1068 | AVX1068 | AVX1068 | AVX1072 | AVX1072 | AVX1072 | AVX1076 | AVX1052 | AVX1052 | AVX1055 | AVX1055 | AVX1050 | AVX1050 | AVX1058 | AVX1061 | AVX1061 | AVX1061 |
| N | AVX1072 | AVX1072 | AVX1072 | AVX1076 | AVX1076 | AVX1076 | AVX1052 | AVX1077 | AVX1055 | AVX1050 | AVX1050 | AVX1058 | AVX1058 | AVX1061 | AVX1064 | AVX1064 | AVX1064 |

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A,E,N,U | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 |
|---------|----------------|----------------|----------------|------|------|------|------|------|
| A,E,N,U | DRENRB2006 (1) | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | RIFNRB1601 | RIFNRB1805 | RIFNRB2006 |
| E,U | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |
| N | RIFNRB0801 | RIFNRB0901 | RIFNRB1001 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |

A grey background indicates the accessory must be assembled in the factory $\,$

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | RIFNRB2206 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |
| E,N,U | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory

Double safety valves

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A | T6NRB13 | T6NRB13 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB16 |
| E,U | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB15 | T6NRB17 | T6NRB16 | T6NRB19 | T6NRB19 |
| N | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB14 | T6NRB15 | T6NRB15 | T6NRB18 | T6NRB19 | T6NRB19 | T6NRB20 | T6NRB20 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|--------|--------|--------|--------|--------|--------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| A | GP2VN | GP2VN | GP3VNF | GP3VNF | GP3VNF | GP3VNF | GP4VN | GP4G | GP5G | GP5G | GP6V | GP7V | GP7V | GP7V | GP8V | GP8V | GP8V |
| E,U | GP3VNF | GP3VNF | GP3VNF | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP10V | GP10V | GP10V |
| N | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP11V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

Units 0800A and 0900A with the optional "storage tank" are 3970 mm long and must have the GP2VNA grids installed.

PERFORMANCE SPECIFICATIONS

NRB - A

| NKB - A | | | | | | | | | | | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Model: F | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 211,8 | 234,3 | 273,4 | 307,1 | 335,9 | 373,3 | 432,0 | 474,2 | 542,2 | 584,4 | 655,6 | 720,2 | 759,5 | 803,3 | 878,1 | 922,4 | 962,2 |
| Input power | kW | 76,0 | 88,0 | 93,9 | 108,9 | 124,8 | 145,6 | 157,1 | 185,1 | 201,0 | 229,4 | 243,7 | 259,3 | 280,1 | 307,8 | 321,2 | 348,2 | 374,6 |
| Cooling total input current | Α | 134,0 | 152,0 | 165,0 | 189,0 | 215,0 | 248,0 | 270,0 | 316,0 | 347,0 | 394,0 | 423,0 | 450,0 | 483,0 | 529,0 | 557,0 | 602,0 | 646,0 |
| EER | W/W | 2,79 | 2,66 | 2,91 | 2,82 | 2,69 | 2,56 | 2,75 | 2,56 | 2,70 | 2,55 | 2,69 | 2,78 | 2,71 | 2,61 | 2,73 | 2,65 | 2,57 |
| Water flow rate system side | l/h | 36397 | 40249 | 46968 | 52762 | 57713 | 64138 | 74217 | 81471 | 93153 | 100403 | 112635 | 123735 | 130494 | 138018 | 150865 | 158481 | 165325 |
| Pressure drop system side | kPa | 49 | 50 | 68 | 76 | 91 | 99 | 64 | 68 | 88 | 96 | 122 | 71 | 78 | 82 | 99 | 108 | 118 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 139,8 | 142,0 | 203,2 | 208,4 | 211,6 | 214,7 | 280,5 | 284,4 | 350,8 | 354,8 | 421,5 | 486,7 | 491,2 | 644,2 | 562,5 | 566,7 | 570,0 |
| Input power | kW | 7,5 | 7,5 | 11,2 | 11,2 | 11,2 | 11,2 | 15,0 | 15,0 | 18,7 | 18,7 | 22,5 | 26,2 | 26,2 | 26,2 | 30,0 | 30,0 | 30,0 |
| Free cooling total input current | Α | 13,0 | 13,0 | 20,0 | 20,0 | 19,0 | 19,0 | 26,0 | 26,0 | 32,0 | 32,0 | 39,0 | 46,0 | 45,0 | 45,0 | 52,0 | 52,0 | 52,0 |
| EER | W/W | 18,64 | 18,94 | 18,07 | 18,53 | 18,81 | 19,09 | 18,71 | 18,97 | 18,72 | 18,93 | 18,74 | 18,55 | 18,72 | 18,88 | 18,76 | 18,90 | 19,01 |
| Water flow rate system side | l/h | 36397 | 40249 | 46968 | 52762 | 57713 | 64138 | 74217 | 81471 | 93153 | 100403 | 112635 | 123735 | 130494 | 138018 | 150865 | 158481 | 165325 |
| Pressure drop system side | kPa | 88 | 97 | 101 | 117 | 139 | 158 | 112 | 125 | 144 | 161 | 188 | 119 | 132 | 142 | 159 | 175 | 190 |
| Model: P | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 210,3 | 232,4 | 271,9 | 305,1 | 333,3 | 369,6 | 428,9 | 469,8 | 538,2 | 579,2 | 650,8 | 715,4 | 754,0 | 796,6 | 871,8 | 914,9 | 953,7 |
| Input power | kW | 76,8 | 89,2 | 94,8 | 110,0 | 126,2 | 147,6 | 158,7 | 187,5 | 203,2 | 232,3 | 246,6 | 262,0 | 283,2 | 311,5 | 324,9 | 352,5 | 379,6 |
| Cooling total input current | Α | 135,0 | 154,0 | 167,0 | 191,0 | 217,0 | 251,0 | 272,0 | 320,0 | 351,0 | 399,0 | 427,0 | 454,0 | 487,0 | 534,0 | 562,0 | 608,0 | 653,0 |
| EER | W/W | 2,74 | 2,61 | 2,87 | 2,77 | 2,64 | 2,50 | 2,70 | 2,51 | 2,65 | 2,49 | 2,64 | 2,73 | 2,66 | 2,56 | 2,68 | 2,60 | 2,51 |
| Water flow rate system side | l/h | 36136 | 39921 | 46723 | 52411 | 57266 | 63506 | 73697 | 80717 | 92472 | 99510 | 111819 | 122911 | 129551 | 136864 | 149782 | 157193 | 163856 |
| Pressure drop system side | kPa | 48 | 49 | 67 | 75 | 89 | 97 | 63 | 66 | 87 | 95 | 120 | 70 | 77 | 81 | 97 | 106 | 116 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 149,8 | 152,0 | 217,8 | 223,3 | 226,6 | 229,5 | 300,5 | 304,3 | 375,9 | 379,8 | 451,6 | 521,6 | 526,3 | 530,5 | 602,5 | 606,6 | 609,8 |
| Input power | kW | 7,6 | 7,6 | 11,4 | 11,4 | 11,4 | 11,4 | 15,2 | 15,2 | 19,0 | 19,0 | 22,8 | 26,7 | 26,7 | 26,7 | 30,5 | 30,5 | 30,5 |
| Free cooling total input current | Α | 13,0 | 13,0 | 20,0 | 20,0 | 20,0 | 19,0 | 26,0 | 26,0 | 33,0 | 33,0 | 40,0 | 46,0 | 46,0 | 46,0 | 53,0 | 53,0 | 52,0 |
| EER | W/W | 19,66 | 19,95 | 19,06 | 19,55 | 19,83 | 20,09 | 19,73 | 19,98 | 19,74 | 19,94 | 19,76 | 19,57 | 19,74 | 19,90 | 19,78 | 19,91 | 20,01 |
| Water flow rate system side | l/h | 36136 | 29921 | 46723 | 52411 | 57266 | 63506 | 73697 | 80717 | 92472 | 99510 | 111819 | 122911 | 129551 | 136864 | 149782 | 157193 | 163856 |
| Pressure drop system side | kPa | 86 | 95 | 100 | 116 | 137 | 155 | 110 | 123 | 142 | 158 | 185 | 117 | 130 | 140 | 157 | 172 | 186 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NRB - E

| Model: F | NKB - E | | | | | | | | | | | | | | | | | | |
|--|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance chiller operation (1) | Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Cooling capacity kW 220,6 242,6 265,3 310,3 344,7 379,2 438,5 498,2 546,9 610,1 652,9 714,0 752,8 815,7 885,8 926,2 966,7 input power kW 73,4 84,2 95,7 106,6 122,4 120,1 155,3 174,8 199,2 219,5 244,7 25,6 278,8 299,8 316,7 342,9 369,2 Gooling total input current RP 4 120,0 14 | Model: F | | | | | | | | | | | | | | | | | | |
| Imput power NW 73,4 84,2 95,7 106,6 122,4 142,0 155,3 174,8 199,2 219,5 244,7 27,6 278,8 299,8 316,7 342,9 360,1 | Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling total input current A 126,0 142,0 160,0 179,0 255,0 236,0 236,0 292,0 333,0 368,0 41,0 42,0 465,0 501,0 531,0 575,0 613,0 EER W/W 3,00 2,88 2,77 2,91 2,82 2,67 2,82 2,85 2,75 2,78 2,67 2,77 2,70 2,72 2,80 2,70 2,62 2,80 2,70 2,80 2,70 2,80 2,70 2,80 2,80 2,70 2,80 2,80 2,70 2,80 2,80 2,70 2,80 2, | Cooling capacity | kW | 220,6 | 242,6 | 265,3 | 310,3 | 344,7 | 379,2 | 438,5 | 498,2 | 546,9 | 610,1 | 652,9 | 714,0 | 752,8 | 815,7 | 885,8 | 926,2 | 966,7 |
| EER | Input power | kW | 73,4 | 84,2 | 95,7 | 106,6 | 122,4 | 142,0 | 155,3 | 174,8 | 199,2 | 219,5 | 244,7 | 257,6 | 278,8 | 299,8 | 316,7 | 342,9 | 369,1 |
| Water flow rate system side | Cooling total input current | А | 126,0 | 142,0 | 160,0 | 179,0 | 205,0 | 236,0 | 258,0 | 292,0 | 333,0 | 368,0 | 411,0 | 432,0 | 465,0 | 501,0 | 531,0 | 575,0 | 619,0 |
| Pressure drop system side KPa 44 53 57 82 90 109 58 75 85 89 102 69 77 85 100 109 119 | EER | W/W | 3,00 | 2,88 | 2,77 | 2,91 | 2,82 | 2,67 | 2,82 | 2,85 | 2,75 | 2,78 | 2,67 | 2,77 | 2,70 | 2,72 | 2,80 | 2,70 | 2,62 |
| Cooling performances with free-cooling (2) Cooling capacity kW 164,6 168,5 223,0 222,5 227,6 231,2 285,4 338,9 344,8 399,2 403,7 458,1 462,0 516,7 571,9 576,1 579,7 Input power kW 7,9 7,9 7,9 7,9 7,9 10,5 10,5 10,5 10,5 10,5 13,1 15,8 15,8 18,4 18,4 21,0 21,0 23,6 26,3 26,3 26,3 26,3 26,3 26,3 26,3 | Water flow rate system side | l/h | 37902 | 41688 | 45573 | 53310 | 59226 | 65155 | 75344 | 85588 | 93960 | 104827 | 112169 | 122679 | 129338 | 140150 | 152184 | 159137 | 166091 |
| Cooling capacity | Pressure drop system side | kPa | 44 | 53 | 57 | 82 | 90 | 109 | 58 | 75 | 85 | 89 | 102 | 69 | 77 | 85 | 100 | 109 | 119 |
| Input power | Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Free cooling total input current A 13,0 13,0 13,0 13,0 18,0 18,0 17,0 22,0 26,0 26,0 31,0 31,0 35,0 35,0 39,0 44,0 44,0 44,0 44,0 44,0 44,0 44,0 4 | Cooling capacity | kW | 164,6 | 168,5 | 223,0 | 222,5 | 227,6 | 231,2 | 285,4 | 338,9 | 344,8 | 399,2 | 403,7 | 458,1 | 462,0 | 516,7 | 571,9 | 576,1 | 579,7 |
| EER W/W 20,90 21,39 21,78 21,18 21,67 22,02 21,74 21,51 21,89 21,72 21,81 22,00 21,87 21,78 21,78 21,94 22,00 Water flow rate system side I/h 37902 41688 45573 53310 5926 65155 75344 85588 9390 104827 112169 122679 12938 14015 152184 159137 16609 Pressure drop system side kPa 67 80 88 120 136 165 95 114 132 139 159 110 122 132 150 163 178 Model: P Cooling performance chiller operation (1) Cooling capacity kW 219,4 241,1 263,2 308,4 342,1 375,8 435,2 494,7 542,4 605,4 647,1 708,4 746,2 808,9 878,9 918,2 957,4 Moding capacity | Input power | kW | 7,9 | 7,9 | 7,9 | 10,5 | 10,5 | 10,5 | 13,1 | 15,8 | 15,8 | 18,4 | 18,4 | 21,0 | 21,0 | 23,6 | 26,3 | 26,3 | 26,3 |
| Water flow rate system side | Free cooling total input current | Α | 13,0 | 13,0 | 13,0 | 18,0 | 18,0 | 17,0 | 22,0 | 26,0 | 26,0 | 31,0 | 31,0 | 35,0 | 35,0 | 39,0 | 44,0 | 44,0 | 44,0 |
| Pressure drop system side | EER | W/W | 20,90 | 21,39 | 21,78 | 21,18 | 21,67 | 22,02 | 21,74 | 21,51 | 21,89 | 21,72 | 21,97 | 21,81 | 22,00 | 21,87 | 21,78 | 21,94 | 22,08 |
| Model: P Cooling performance chiller operation (1) Cooling capacity | Water flow rate system side | l/h | 37902 | 41688 | 45573 | 53310 | 59226 | 65155 | 75344 | 85588 | 93960 | 104827 | 112169 | 122679 | 129338 | 140150 | 152184 | 159137 | 166091 |
| Cooling performance chiller operation (1) Cooling capacity | Pressure drop system side | kPa | 67 | 80 | 88 | 120 | 136 | 165 | 95 | 114 | 132 | 139 | 159 | 110 | 122 | 132 | 150 | 163 | 178 |
| Colling capacity kW 219,4 241,1 263,2 308,4 342,1 375,8 435,2 494,7 542,4 605,4 647,1 708,4 746,2 808,9 878,9 918,2 957,4 10put power kW 74,1 85,1 96,8 107,7 123,7 143,8 157,0 176,7 201,6 222,1 247,8 260,7 282,3 303,4 320,4 347,3 374,2 10put power kW 74,1 85,1 96,8 107,7 123,7 143,8 157,0 176,7 201,6 222,1 247,8 260,7 282,3 303,4 320,4 347,3 374,2 10put power kW 74,1 85,1 96,8 107,7 123,7 143,8 157,0 176,7 201,6 222,1 247,8 260,7 282,3 303,4 320,4 347,3 374,2 10put power kW 74,1 37695 41419 45215 5279 58785 64562 7475 8490 918,5 104013 111187 121705 128201 138974 151002 157752 16450 145, | Model: P | | | | | | | | | | | | | | | | | | |
| Input power KW 74,1 85,1 96,8 10,7 123,7 143,8 15,0 176,7 201,6 222,1 247,8 260,7 282,3 303,4 320,4 343,3 374,2 | Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling total input current A 126,0 144,0 162,0 181,0 206,0 238,0 26,0 294,0 336,0 372,0 415,0 436,0 470,0 506,0 536,0 581,0 626,0 | Cooling capacity | kW | 219,4 | 241,1 | 263,2 | 308,4 | 342,1 | 375,8 | 435,2 | 494,7 | 542,4 | 605,4 | 647,1 | 708,4 | 746,2 | 808,9 | 878,9 | 918,2 | 957,4 |
| EER W/W 2,96 2,83 2,72 2,86 2,76 2,71 2,80 2,69 2,73 2,61 2,72 2,64 2,67 2,74 2,64 2,55 (Mater flow rate system side | Input power | kW | 74,1 | 85,1 | 96,8 | 107,7 | 123,7 | 143,8 | 157,0 | 176,7 | 201,6 | 222,1 | 247,8 | 260,7 | 282,3 | 303,4 | 320,4 | 347,3 | 374,2 |
| Water flow rate system side I/h 37695 41419 45215 52979 58785 64562 74775 84990 93195 104013 111187 121705 128201 138974 151002 157752 16450 Pressure drop system side kPa 44 53 56 81 89 107 57 74 84 88 100 68 76 84 98 107 117 Cooling performances with free-cooling (2) Cooling capacity kW 175,0 179,4 182,7 236,7 242,4 246,2 304,0 360,9 367,2 425,1 429,9 487,9 491,9 550,3 609,1 613,5 617,1 Input power kW 8,0 8,0 8,0 10,7 10,7 10,7 13,3 16,0 16,0 18,6 18,6 21,3 21,3 24,0 26,6 26,6 26,6 26,6 26,6 26,6 26,6 26,6 26,6 | Cooling total input current | Α | 126,0 | 144,0 | 162,0 | 181,0 | 206,0 | 238,0 | 260,0 | 294,0 | 336,0 | 372,0 | 415,0 | 436,0 | 470,0 | 506,0 | 536,0 | 581,0 | 626,0 |
| Pressure drop system side kPa 44 53 56 81 89 107 57 74 84 88 100 68 76 84 98 107 117 Cooling performances with free-cooling (2) Cooling capacity kW 175,0 179,4 182,7 236,7 242,4 246,2 304,0 360,9 367,2 425,1 429,9 487,9 491,9 550,3 609,1 613,5 617,1 Input power kW 8,0 8,0 8,0 10,7 10,7 10,7 13,3 16,0 16,0 18,6 18,6 21,3 21,3 24,0 26,6 26,6 26,6 Free cooling total input current A 14,0 13,0 13,0 18,0 18,0 18,0 18,0 22,0 27,0 27,0 31,0 31,0 36,0 35,0 40,0 45,0 45,0 45,0 45,0 | EER | W/W | 2,96 | 2,83 | 2,72 | 2,86 | 2,76 | 2,61 | 2,77 | 2,80 | 2,69 | 2,73 | 2,61 | 2,72 | 2,64 | 2,67 | 2,74 | 2,64 | 2,56 |
| Cooling performances with free-cooling (2) Cooling capacity kW 175,0 179,4 182,7 236,7 242,4 246,2 304,0 360,9 367,2 425,1 429,9 487,9 491,9 550,3 609,1 613,5 617,1 Input power kW 8,0 8,0 8,0 10,7 10,7 10,7 13,3 16,0 16,0 18,6 18,6 21,3 21,3 24,0 26,6 26,6 26,6 26,6 26,6 26,0 24,0 27,0 27,0 27,0 31,0 36,0 35,0 40,0 45,0 | Water flow rate system side | l/h | 37695 | 41419 | 45215 | 52979 | 58785 | 64562 | 74775 | 84990 | 93195 | 104013 | 111187 | 121705 | 128201 | 138974 | 151002 | 157752 | 164500 |
| Cooling capacity kW 175,0 179,4 182,7 236,7 242,4 246,2 304,0 360,9 367,2 425,1 429,9 487,9 491,9 550,3 609,1 613,5 617,1 Input power kW 8,0 8,0 8,0 10,7 10,7 10,7 13,3 16,0 16,0 18,6 18,6 21,3 21,3 24,0 26,6 26,6 26,6 26,6 26,6 26,0 45,0 | Pressure drop system side | kPa | 44 | 53 | 56 | 81 | 89 | 107 | 57 | 74 | 84 | 88 | 100 | 68 | 76 | 84 | 98 | 107 | 117 |
| Input power kW 8,0 8,0 8,0 10,7 10,7 10,7 13,3 16,0 16,0 18,6 18,6 21,3 21,3 24,0 26,6 26,6 26,6 26,6 26,6 26,6 26,6 26,0 25,0 27,0 27,0 27,0 31,0 36,0 35,0 40,0 45,0 45,0 45,0 | Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Free cooling total input current A 14,0 13,0 13,0 18,0 18,0 18,0 22,0 27,0 27,0 31,0 31,0 36,0 35,0 40,0 45,0 45,0 45,0 | Cooling capacity | kW | 175,0 | 179,4 | 182,7 | 236,7 | 242,4 | 246,2 | 304,0 | 360,9 | 367,2 | 425,1 | 429,9 | 487,9 | 491,9 | 550,3 | 609,1 | 613,5 | 617,1 |
| | Input power | kW | 8,0 | 8,0 | 8,0 | 10,7 | 10,7 | 10,7 | 13,3 | 16,0 | 16,0 | 18,6 | 18,6 | 21,3 | 21,3 | 24,0 | 26,6 | 26,6 | 26,6 |
| EER W/W 21,90 22,45 22,86 22,22 22,76 23,11 22,83 22,58 22,98 22,80 23,06 22,90 23,09 22,96 22,87 23,04 23,17 | Free cooling total input current | A | 14,0 | 13,0 | 13,0 | 18,0 | 18,0 | 18,0 | 22,0 | 27,0 | 27,0 | 31,0 | 31,0 | 36,0 | 35,0 | 40,0 | 45,0 | 45,0 | 45,0 |
| | EER | W/W | 21,90 | 22,45 | 22,86 | 22,22 | 22,76 | 23,11 | 22,83 | 22,58 | 22,98 | 22,80 | 23,06 | 22,90 | 23,09 | 22,96 | 22,87 | 23,04 | 23,17 |
| Waterflow rate system side 1/h 37695 41419 45215 52979 58785 64562 74775 84990 93195 104013 111187 121705 128201 138974 151002 157752 16450 | Water flow rate system side | l/h | 37695 | 41419 | 45215 | 52979 | 58785 | 64562 | 74775 | 84990 | 93195 | 104013 | 111187 | 121705 | 128201 | 138974 | 151002 | 157752 | 164500 |
| Pressure drop system side | Pressure drop system side | kPa | 66 | 79 | 87 | 118 | 134 | 162 | 94 | 113 | 130 | 137 | 156 | 108 | 120 | 130 | 147 | 160 | 174 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NRB - U

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,3 | 250,9 | 275,8 | 320,4 | 357,9 | 396,3 | 455,4 | 515,9 | 569,2 | 633,7 | 680,9 | 742,0 | 785,1 | 849,2 | 919,7 | 965,1 | 1010,6 |
| Input power | kW | 73,7 | 83,6 | 94,1 | 106,4 | 120,6 | 138,5 | 153,5 | 173,2 | 195,2 | 215,9 | 238,4 | 253,0 | 272,3 | 293,7 | 311,5 | 334,6 | 357,7 |
| Cooling total input current | Α | 133,0 | 149,0 | 166,0 | 189,0 | 212,0 | 240,0 | 267,0 | 304,0 | 341,0 | 379,0 | 418,0 | 444,0 | 474,0 | 513,0 | 547,0 | 587,0 | 626,0 |
| EER | W/W | 3,08 | 3,00 | 2,93 | 3,01 | 2,97 | 2,86 | 2,97 | 2,98 | 2,92 | 2,94 | 2,86 | 2,93 | 2,88 | 2,89 | 2,95 | 2,88 | 2,83 |
| Water flow rate system side | l/h | 39046 | 43104 | 47382 | 55045 | 61497 | 68087 | 78245 | 88642 | 97793 | 108881 | 116982 | 127489 | 134883 | 145908 | 158015 | 165823 | 173632 |
| Pressure drop system side | kPa | 47 | 57 | 61 | 88 | 97 | 120 | 62 | 81 | 92 | 96 | 111 | 75 | 84 | 92 | 108 | 118 | 130 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 192,7 | 198,6 | 203,6 | 261,5 | 269,7 | 276,0 | 338,6 | 400,3 | 410,2 | 473,3 | 481,2 | 544,1 | 551,0 | 614,6 | 678,8 | 686,3 | 692,8 |
| Input power | kW | 11,2 | 11,2 | 11,2 | 15,0 | 15,0 | 15,0 | 18,7 | 22,5 | 22,5 | 26,2 | 26,2 | 30,0 | 30,0 | 33,7 | 37,5 | 37,5 | 37,5 |
| Free cooling total input current | A | 20,0 | 20,0 | 20,0 | 27,0 | 26,0 | 26,0 | 33,0 | 39,0 | 39,0 | 46,0 | 46,0 | 53,0 | 52,0 | 59,0 | 66,0 | 66,0 | 66,0 |
| EER | W/W | 17,13 | 17,66 | 18,11 | 17,44 | 17,99 | 18,41 | 18,07 | 17,80 | 18,24 | 18,04 | 18,34 | 18,14 | 18,37 | 18,22 | 18,11 | 18,31 | 18,48 |
| Water flow rate system side | l/h | 39046 | 43104 | 47382 | 55045 | 61497 | 68087 | 78245 | 88642 | 97793 | 108881 | 116982 | 127489 | 134883 | 145908 | 158015 | 165823 | 173632 |
| Pressure drop system side | kPa | 71 | 86 | 95 | 128 | 147 | 179 | 103 | 122 | 143 | 150 | 173 | 119 | 133 | 143 | 161 | 177 | 194 |
| Model: P | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 226,2 | 249,6 | 274,2 | 318,8 | 356,0 | 393,8 | 452,9 | 513,3 | 565,9 | 630,2 | 676,8 | 737,9 | 780,4 | 844,3 | 914,6 | 959,5 | 1004,3 |
| Input power | kW | 74,4 | 84,4 | 95,0 | 107,4 | 121,8 | 139,9 | 154,8 | 174,8 | 197,2 | 218,0 | 240,9 | 255,4 | 275,0 | 296,5 | 314,5 | 338,0 | 361,5 |
| Cooling total input current | A | 134,0 | 150,0 | 167,0 | 190,0 | 213,0 | 242,0 | 269,0 | 306,0 | 344,0 | 382,0 | 421,0 | 447,0 | 478,0 | 517,0 | 551,0 | 591,0 | 631,0 |
| EER | W/W | 3,04 | 2,96 | 2,89 | 2,97 | 2,92 | 2,82 | 2,93 | 2,94 | 2,87 | 2,89 | 2,81 | 2,89 | 2,84 | 2,85 | 2,91 | 2,84 | 2,78 |
| Water flow rate system side | l/h | 38871 | 42893 | 47115 | 54781 | 61158 | 67658 | 77819 | 88186 | 97229 | 108280 | 116278 | 126780 | 134074 | 145060 | 157146 | 164847 | 172544 |
| Pressure drop system side | kPa | 46 | 57 | 60 | 87 | 96 | 118 | 62 | 80 | 91 | 95 | 110 | 74 | 83 | 91 | 106 | 117 | 128 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 205,9 | 212,7 | 218,2 | 279,8 | 289,0 | 295,9 | 362,9 | 428,9 | 439,8 | 507,3 | 515,9 | 583,3 | 590,7 | 658,8 | 727,6 | 735,7 | 742,7 |
| Input power | kW | 11,4 | 11,4 | 11,4 | 15,2 | 15,2 | 15,2 | 19,0 | 22,8 | 22,8 | 26,7 | 26,7 | 30,5 | 30,5 | 34,3 | 38,1 | 38,1 | 38,1 |
| Free cooling total input current | Α | 21,0 | 20,0 | 20,0 | 27,0 | 27,0 | 26,0 | 33,0 | 40,0 | 40,0 | 47,0 | 47,0 | 53,0 | 53,0 | 60,0 | 67,0 | 67,0 | 66,0 |
| EER | W/W | 18,02 | 18,62 | 19,10 | 18,37 | 18,97 | 19,42 | 19,06 | 18,77 | 19,25 | 19,03 | 19,35 | 19,14 | 19,39 | 19,22 | 19,10 | 19,32 | 19,50 |
| Water flow rate system side | l/h | 38871 | 42893 | 47115 | 54781 | 61158 | 67658 | 77819 | 88186 | 97229 | 108280 | 116278 | 126780 | 134074 | 145060 | 157146 | 164847 | 172544 |
| Pressure drop system side | kPa | 70 | 85 | 94 | 126 | 145 | 177 | 102 | 121 | 141 | 148 | 171 | 118 | 131 | 141 | 159 | 175 | 191 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2°C

| NRB - N |
|---------|
|---------|

| IND-IN | | | | | | | | | | | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Model: F | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 228,3 | 252,4 | 278,0 | 320,3 | 358,3 | 397,2 | 454,4 | 510,9 | 563,3 | 628,5 | 675,3 | 728,3 | 769,3 | 837,1 | 899,9 | 942,6 | 985,4 |
| Input power | kW | 72,5 | 82,2 | 92,3 | 104,6 | 118,7 | 136,3 | 151,0 | 171,5 | 194,0 | 213,5 | 236,4 | 253,2 | 273,3 | 292,4 | 312,3 | 337,1 | 361,8 |
| Cooling total input current | Α | 124,0 | 140,0 | 156,0 | 177,0 | 199,0 | 227,0 | 251,0 | 287,0 | 325,0 | 360,0 | 399,0 | 425,0 | 457,0 | 490,0 | 525,0 | 567,0 | 608,0 |
| EER | W/W | 3,15 | 3,07 | 3,01 | 3,06 | 3,02 | 2,91 | 3,01 | 2,98 | 2,90 | 2,94 | 2,86 | 2,88 | 2,82 | 2,86 | 2,88 | 2,80 | 2,72 |
| Water flow rate system side | l/h | 39222 | 43370 | 47761 | 55033 | 61559 | 68239 | 78074 | 87785 | 96785 | 107983 | 116017 | 125122 | 132179 | 143818 | 154615 | 161957 | 169298 |
| Pressure drop system side | kPa | 50 | 61 | 66 | 88 | 98 | 120 | 63 | 79 | 90 | 94 | 109 | 72 | 80 | 90 | 103 | 113 | 123 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 263,0 | 209,6 | 216,0 | 263,3 | 272,4 | 279,7 | 331,7 | 383,3 | 392,7 | 446,3 | 453,4 | 505,5 | 511,3 | 565,7 | 619,3 | 625,2 | 630,3 |
| Input power | kW | 10,5 | 10,5 | 10,5 | 13,1 | 13,1 | 13,1 | 15,8 | 18,4 | 18,4 | 21,0 | 21,0 | 23,6 | 23,6 | 26,3 | 28,9 | 28,9 | 28,9 |
| Free cooling total input current | Α | 18,0 | 18,0 | 18,0 | 22,0 | 22,0 | 22,0 | 26,0 | 31,0 | 31,0 | 35,0 | 35,0 | 40,0 | 39,0 | 44,0 | 49,0 | 49,0 | 49,0 |
| EER | W/W | 25,04 | 19,96 | 20,57 | 20,06 | 20,75 | 21,30 | 21,06 | 20,85 | 21,37 | 21,25 | 21,59 | 21,39 | 21,64 | 21,55 | 21,44 | 21,65 | 21,83 |
| Water flow rate system side | l/h | 39222 | 43370 | 47761 | 55033 | 61559 | 68239 | 78074 | 87785 | 96785 | 107983 | 116017 | 125122 | 132179 | 143818 | 154615 | 161957 | 169298 |
| Pressure drop system side | kPa | 71 | 86 | 96 | 121 | 139 | 171 | 95 | 115 | 133 | 143 | 164 | 110 | 122 | 134 | 151 | 165 | 180 |
| Model: P | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,4 | 251,4 | 276,7 | 318,8 | 356,3 | 394,6 | 451,9 | 508,1 | 559,8 | 624,6 | 670,7 | 723,5 | 763,9 | 831,4 | 894,1 | 935,9 | 977,8 |
| Input power | kW | 73,1 | 82,8 | 93,1 | 105,5 | 119,8 | 137,7 | 152,4 | 173,0 | 195,9 | 215,7 | 239,0 | 255,8 | 276,2 | 295,5 | 315,6 | 340,8 | 366,1 |
| Cooling total input current | А | 125,0 | 141,0 | 157,0 | 178,0 | 201,0 | 229,0 | 253,0 | 289,0 | 328,0 | 362,0 | 402,0 | 429,0 | 461,0 | 494,0 | 529,0 | 572,0 | 614,0 |
| EER | W/W | 3,11 | 3,03 | 2,97 | 3,02 | 2,98 | 2,87 | 2,97 | 2,94 | 2,86 | 2,90 | 2,81 | 2,83 | 2,77 | 2,81 | 2,83 | 2,75 | 2,67 |
| Water flow rate system side | l/h | 39073 | 43187 | 47536 | 54768 | 61222 | 67801 | 77644 | 87290 | 96173 | 107317 | 115226 | 124312 | 131253 | 142839 | 153613 | 160804 | 167994 |
| Pressure drop system side | kPa | 50 | 60 | 65 | 87 | 97 | 119 | 62 | 78 | 89 | 93 | 108 | 71 | 79 | 88 | 102 | 111 | 122 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 213,1 | 221,8 | 229,3 | 278,7 | 289,4 | 297,7 | 352,9 | 407,4 | 418,1 | 475,0 | 482,9 | 538,2 | 544,6 | 602,5 | 659,5 | 666,0 | 671,4 |
| Input power | kW | 10,7 | 10,7 | 10,7 | 13,3 | 13,3 | 13,3 | 16,0 | 18,6 | 18,6 | 21,3 | 21,3 | 24,0 | 24,0 | 26,6 | 29,3 | 29,3 | 29,3 |
| Free cooling total input current | А | 18,0 | 18,0 | 18,0 | 22,0 | 22,0 | 22,0 | 27,0 | 31,0 | 31,0 | 36,0 | 36,0 | 40,0 | 40,0 | 45,0 | 49,0 | 49,0 | 49,0 |
| EER | W/W | 20,00 | 20,82 | 21,53 | 20,93 | 21,73 | 22,36 | 22,08 | 21,85 | 22,43 | 22,30 | 22,66 | 22,46 | 22,72 | 22,62 | 22,51 | 22,73 | 22,92 |
| Water flow rate system side | l/h | 39073 | 43187 | 47536 | 54768 | 61222 | 67801 | 77644 | 87290 | 96173 | 107317 | 115226 | 124312 | 131253 | 142839 | 153613 | 160804 | 167994 |
| Pressure drop system side | kPa | 70 | 86 | 96 | 120 | 138 | 169 | 94 | 114 | 132 | 141 | 162 | 108 | 121 | 132 | 149 | 163 | 177 |
| (4) C | | | | | | | | | | | | | | | | | | |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| E W | Ins (1) I/W 6,24 I/W 6,98 | 5,77 | 6,03 | | | | | | | | | | | | | | |
|-------------|-----------------------------|--|--|------|-------------------|-------------------|-------------------|---|--|---|---|---|---------------------|---|---|---|---|
| A W | I/W 6,24 | 5,77 | 6.03 | | | | | | | | | | | | | | |
| E W | , | 5,77 | 6.03 | | | | | | | | | | | | | | |
| | I/W 6.98 | | 0,00 | 6,11 | 5,82 | 5,27 | 6,09 | 5,55 | 5,79 | 5,55 | 5,70 | 5,89 | 5,66 | 5,52 | 5,75 | 5,56 | 5,56 |
| N W | , , | 6,31 | 6,11 | 6,34 | 6,16 | 5,51 | 6,28 | 6,19 | 5,81 | 5,90 | 5,73 | 5,98 | 5,65 | 5,73 | 5,96 | 5,68 | 5,55 |
| 11 11 | I/W 7,33 | 7,13 | 6,84 | 6,84 | 6,70 | 6,12 | 6,70 | 6,57 | 6,21 | 6,29 | 6,07 | 6,24 | 5,89 | 6,03 | 6,11 | 5,88 | 5,75 |
| U W | 7,10 | 6,80 | 6,54 | 6,66 | 6,52 | 5,99 | 6,66 | 6,57 | 6,30 | 6,31 | 6,16 | 6,43 | 6,08 | 6,14 | 6,34 | 6,15 | 6,04 |
| inverter fa | ns (1) | | | | | | | | | | | | | | | | |
| A W | I/W 6,24 | 5,77 | 6,03 | 6,11 | 5,82 | 5,27 | 6,09 | 5,55 | 5,79 | 5,55 | 5,70 | 5,89 | 5,66 | 5,52 | 5,75 | 5,56 | 5,56 |
| E W | I/W 6,98 | 6,31 | 6,11 | 6,34 | 6,16 | 5,51 | 6,28 | 6,19 | 5,81 | 5,90 | 5,73 | 5,98 | 5,65 | 5,73 | 5,96 | 5,68 | 5,55 |
| N W | I/W 7,33 | 7,13 | 6,84 | 6,84 | 6,70 | 6,12 | 6,70 | 6,57 | 6,21 | 6,29 | 6,07 | 6,24 | 5,89 | 6,03 | 6,11 | 5,88 | 5,75 |
| U W | //W 7,10 | 6,80 | 6,54 | 6,66 | 6,52 | 5,99 | 6,66 | 6,57 | 6,30 | 6,31 | 6,16 | 6,43 | 6,08 | 6,14 | 6,34 | 6,15 | 6,04 |
| | | | | | | | | | | | | | | | | | |
| standard fa | ns (1) | | | | | | | | | | | | | | | | |
| A W | I/W 6,09 | 5,62 | 5,91 | 5,97 | 5,68 | 5,13 | 5,95 | 5,51 | 5,65 | 5,51 | 5,57 | 5,75 | 5,52 | 5,54 | 5,62 | 5,53 | 5,50 |
| E W | I/W 6,82 | 6,16 | 5,95 | 6,20 | 6,01 | 5,37 | 6,13 | 6,04 | 5,66 | 5,76 | 5,59 | 5,83 | 5,50 | 5,58 | 5,81 | 5,54 | 5,50 |
| N W | I/W 7,22 | 6,98 | 6,71 | 6,69 | 6,54 | 5,98 | 6,55 | 6,42 | 6,07 | 6,14 | 5,92 | 6,09 | 5,75 | 5,89 | 5,98 | 5,74 | 5,66 |
| U W | I/W 6,98 | 6,64 | 6,39 | 6,51 | 6,39 | 5,86 | 6,51 | 6,42 | 6,16 | 6,17 | 6,03 | 6,28 | 5,94 | 5,99 | 6,20 | 6,01 | 5,96 |
| inverter fa | ns (1) | | | | | | | | | | | | | | | | |
| A W | I/W 6,09 | 5,62 | 5,91 | 5,97 | 5,68 | 5,13 | 5,95 | 5,51 | 5,65 | 5,51 | 5,57 | 5,75 | 5,52 | 5,54 | 5,62 | 5,53 | 5,50 |
| E W | I/W 6,82 | 6,16 | 5,95 | 6,20 | 6,01 | 5,37 | 6,13 | 6,04 | 5,66 | 5,76 | 5,59 | 5,83 | 5,50 | 5,58 | 5,81 | 5,54 | 5,50 |
| N W | I/W 7,22 | 6,98 | 6,71 | 6,69 | 6,54 | 5,98 | 6,55 | 6,42 | 6,07 | 6,14 | 5,92 | 6,09 | 5,75 | 5,89 | 5,98 | 5,74 | 5,66 |
| U W | I/W 6,98 | 6,64 | 6,39 | 6,51 | 6,39 | 5,86 | 6,51 | 6,42 | 6,16 | 6,17 | 6,03 | 6,28 | 5,94 | 5,99 | 6,20 | 6,01 | 5,96 |
| 1 | N | E W/W 6,82 N W/W 7,22 U W/W 6,98 | Normal N | Name | Niwerter fans (1) | Niwerter fans (1) | Niwerter fans (1) | Note Column Note Note | N W W 6,09 5,62 5,91 5,97 6,09 6,51 6,09 6,51 6,09 6,51 6,00 6,51 6, | Note Note | Name Name | Name Name | Niwerter Fans (1) | Niwerter Fans (1) Niwerter Fans (1) | Name Name | Name Name | Name Name |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | | | |
| | A | А | 190,4 | 206,8 | 242,5 | 271,9 | 301,2 | 330,2 | 378,6 | 423,4 | 487,6 | 516,6 | 570,9 | 639,2 | 672,1 | 713,0 | 773,4 | 814,3 | 855,2 |
| Maximum current (FLA) | E,U | Α | 209,8 | 226,2 | 242,5 | 291,3 | 320,6 | 349,6 | 398,0 | 468,1 | 512,9 | 561,3 | 590,3 | 658,6 | 691,5 | 751,8 | 812,2 | 853,1 | 894,0 |
| | N | Α | 229,2 | 245,6 | 261,9 | 310,7 | 340,0 | 369,0 | 423,3 | 487,5 | 532,3 | 580,7 | 609,7 | 678,0 | 710,9 | 771,2 | 831,6 | 872,5 | 913,4 |
| | A | Α | 379,0 | 434,2 | 469,9 | 522,6 | 551,9 | 664,4 | 712,8 | 757,6 | 821,8 | 850,8 | 905,1 | 908,5 | 941,4 | 982,3 | 1042,6 | 1083,6 | 1124,5 |
| Peak current (LRA) | E,U | Α | 398,4 | 453,6 | 469,9 | 542,0 | 571,3 | 683,8 | 732,2 | 802,3 | 847,1 | 895,5 | 924,5 | 927,9 | 960,8 | 1021,1 | 1081,4 | 1122,4 | 1163,3 |
| | N | A | 417,8 | 473,0 | 489,3 | 561,4 | 590,7 | 703,2 | 757,5 | 821,7 | 866,5 | 914,9 | 943,9 | 947,3 | 980,2 | 1040,5 | 1100,8 | 1141,8 | 1182,7 |

GENERAL TECHNICAL DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|---------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | | | | | 0n-0ff | | | | | | | | |
| Number | A,E,N,U | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | | | | | R410A | | | | | | | | |
| | Α | kg | 14,5 | 15,0 | 20,0 | 22,0 | 21,5 | 21,5 | 25,0 | 25,0 | 31,0 | 31,0 | 44,0 | 42,0 | 41,0 | 59,0 | 65,0 | 56,0 | 52,0 |
| Refrigerant load circuit 1 (1) | E,U | kg | 20,5 | 20,0 | 21,5 | 26,0 | 26,0 | 26,0 | 30,0 | 36,0 | 36,0 | 56,5 | 56,0 | 62,0 | 53,0 | 70,0 | 78,0 | 78,0 | 78,0 |
| _ | N | kg | 26,0 | 26,5 | 26,5 | 29,0 | 28,0 | 35,0 | 42,0 | 44,0 | 43,0 | 62,0 | 62,0 | 67,0 | 67,0 | 76,0 | 84,0 | 84,0 | 84,0 |
| | Α | kg | 14,5 | 15,0 | 20,0 | 22,0 | 23,5 | 21,5 | 27,0 | 30,0 | 38,0 | 34,0 | 44,0 | 54,0 | 48,0 | 59,0 | 65,0 | 66,0 | 64,0 |
| Refrigerant load circuit 2 (1) | E,U | kg | 20,5 | 20,0 | 21,5 | 27,0 | 27,0 | 27,0 | 32,0 | 39,0 | 40,0 | 56,5 | 56,0 | 62,0 | 63,0 | 70,0 | 78,0 | 78,0 | 78,0 |
| _ | N | kg | 26,0 | 26,5 | 26,5 | 30,0 | 31,0 | 35,0 | 42,0 | 47,0 | 47,0 | 62,0 | 62,0 | 67,0 | 67,0 | 76,0 | 84,0 | 84,0 | 84,0 |
| Potential global heating | A,E,N,U | GWP | | | | | | | | 2 | 088kgCO ₂ | eq | | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | | В | Brazed pla | te | | | | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Туре | | | | | | | | Gr | rooved joi | nts | | | | | | | |
| Hydraulic connections without hydronic kit | | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | A,E,N,U | Ø | 3″ | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Hydraulic connections with hydronic kit | | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | A,E,N,U | Ø | 3″ | 3″ | 3" | 3″ | 3″ | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5″ | 5" | 5" | 5" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

SOUND DATA

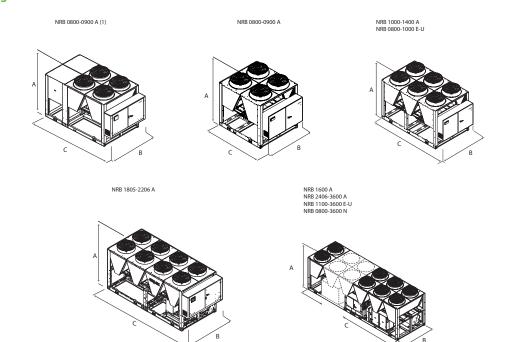
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | | | | | |
| | Α | dB(A) | 88,0 | 88,1 | 90,3 | 90,2 | 90,2 | 90,2 | 91,7 | 92,2 | 93,9 | 94,4 | 95,8 | 96,7 | 96,7 | 96,7 | 97,4 | 97,4 | 97,4 |
| Cound nowar lovel | E | dB(A) | 85,0 | 85,1 | 85,1 | 86,5 | 86,5 | 86,5 | 87,7 | 89,2 | 89,7 | 91,0 | 91,5 | 92,2 | 92,2 | 92,8 | 93,4 | 93,4 | 93,4 |
| Sound power level — | N | dB(A) | 86,5 | 86,6 | 86,6 | 87,7 | 87,7 | 87,7 | 88,7 | 90,0 | 90,5 | 91,7 | 92,2 | 92,8 | 92,8 | 93,4 | 93,9 | 93,9 | 93,9 |
| | U | dB(A) | 90,2 | 90,3 | 90,3 | 91,7 | 91,7 | 91,7 | 92,9 | 94,4 | 94,9 | 96,2 | 96,7 | 97,4 | 97,4 | 98,0 | 98,6 | 98,6 | 98,6 |
| <u> </u> | Α | dB(A) | 55,9 | 56,0 | 58,0 | 57,9 | 57,9 | 57,9 | 59,3 | 59,8 | 61,3 | 61,8 | 63,2 | 63,9 | 63,9 | 63,9 | 64,5 | 64,5 | 64,5 |
| Cound proceure level (10 m) | E | dB(A) | 52,7 | 52,8 | 52,8 | 54,2 | 54,2 | 54,2 | 55,2 | 56,5 | 57,0 | 58,2 | 58,7 | 59,3 | 59,3 | 59,8 | 60,2 | 60,2 | 60,2 |
| Sound pressure level (10 m) | N | dB(A) | 54,2 | 54,3 | 54,3 | 55,2 | 55,2 | 55,2 | 56,0 | 57,2 | 57,7 | 58,8 | 59,3 | 59,8 | 59,8 | 60,2 | 60,6 | 60,6 | 60,6 |
| _ | U | dB(A) | 57,9 | 58,0 | 58,0 | 59,3 | 59,3 | 59,3 | 60,4 | 61,7 | 62,2 | 63,4 | 63,9 | 64,5 | 64,5 | 65,0 | 65,4 | 65,4 | 65,4 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

FANS DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|----------------|---------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | | | axials | | | | | | | | |
| | A | no. | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 16 | 16 |
| Number | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| | A | m³/h | 57600 | 57600 | 86400 | 86400 | 86400 | 86400 | 115200 | 115200 | 144000 | 144000 | 172800 | 201600 | 201600 | 201600 | 230400 | 230400 | 230400 |
| A: G | E | m³/h | 64800 | 64800 | 64800 | 86400 | 86400 | 86400 | 108000 | 129600 | 129600 | 151200 | 151200 | 172800 | 172800 | 194400 | 216000 | 216000 | 216000 |
| Air flow rate | N | m³/h | 86400 | 86400 | 86400 | 108000 | 108000 | 108000 | 129600 | 151200 | 151200 | 172800 | 172800 | 194400 | 194400 | 216000 | 237600 | 237600 | 237600 |
| | U | m³/h | 86400 | 86400 | 86400 | 115200 | 115200 | 115200 | 144000 | 172800 | 172800 | 201600 | 201600 | 230400 | 230400 | 259200 | 288000 | 288000 | 288000 |
| Model: P | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | | | axials | | | | | | | | |
| | А | no. | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 16 | 16 |
| Number | E,U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| | Α | m³/h | 54800 | 54800 | 82200 | 82200 | 82200 | 82200 | 109600 | 109600 | 137000 | 137000 | 164400 | 191800 | 191800 | 191800 | 219200 | 219200 | 230400 |
| Air flaur rata | E | m³/h | 61800 | 61800 | 61800 | 82400 | 82400 | 82400 | 103000 | 123600 | 123600 | 144200 | 144200 | 164800 | 164800 | 185400 | 206000 | 206000 | 216000 |
| Air flow rate | N | m³/h | 82400 | 82400 | 82400 | 103000 | 103000 | 103000 | 123600 | 144200 | 144200 | 164800 | 164800 | 185400 | 185400 | 206000 | 226600 | 226600 | 237600 |
| | U | m³/h | 82200 | 82200 | 82200 | 109600 | 109600 | 109600 | 137000 | 164400 | 164400 | 191800 | 191800 | 219200 | 219200 | 246600 | 274000 | 274000 | 288000 |

DIMENSIONS



(1) Additional module needed to contain the hydronic kit with "accumulation" option in sizes: NRB 0800A, 0900A

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------------|---------|----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | Α | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 5160 | 6350 | 6350 | 7140 | 8330 | 8330 | 8330 | 9520 | 9520 | 9520 |
| C | E,U | mm | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 11900 | 11900 | 11900 |
| | N | mm | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 | 13090 |

■ Units 0800A and 0900A with the optional "storage tank" are 3970 mm long.

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | | | |
| Free-cooling | | | | | | | | | | | | | | | | | | | |
| | Α | kg | 2570 | 2620 | 3260 | 3330 | 3370 | 3420 | 4080 | 4290 | 5020 | 5100 | 5670 | 6570 | 6820 | 6970 | 7600 | 7730 | 7810 |
| Empty weight | E,U | kg | 3080 | 3130 | 3290 | 3990 | 4060 | 4080 | 4660 | 5350 | 5570 | 6330 | 6390 | 7110 | 7360 | 8040 | 8630 | 8720 | 8800 |
| | N | kg | 3760 | 3800 | 3960 | 4530 | 4610 | 4630 | 5160 | 5940 | 6160 | 6870 | 6930 | 7640 | 7890 | 8500 | 9170 | 9250 | 9330 |
| Free-cooling plus | | | | | | | | | | | | | | | | | | | |
| | Α | kg | 2630 | 2680 | 3350 | 3420 | 3460 | 3510 | 4200 | 4410 | 5170 | 5250 | 5850 | 6780 | 7030 | 7180 | 7840 | 7970 | 8050 |
| Empty weight | E,U | kg | 3170 | 3220 | 3380 | 4110 | 4180 | 4200 | 4810 | 5530 | 5750 | 6540 | 6600 | 7350 | 7600 | 8310 | 8930 | 9020 | 9100 |
| | N | kg | 3880 | 3920 | 4080 | 4680 | 4760 | 4780 | 5340 | 6150 | 6370 | 7110 | 7170 | 7910 | 8160 | 8800 | 9500 | 9580 | 9660 |





















NRB 0800-3600 B

Air-cooled chiller with free cooling (glycol-free)

Cooling capacity 211 ÷ 1010 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- · High efficiency also at partial loads



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with scroll compressors, axial flow fans, micro-channel coil (source side), plate heat exchanger and thermostatic expansion valve (mechanical or electronic, depending on the model).

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

N Silenced very high efficiency

U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Dual-circuit unit

Unit with 2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

If a higher output is needed in free cooling, there is also the "G" free cooling plus model with boosted water coil.

Free cooling with glycol water

Intermediate plate heat exchanger that creates two circuits:

- Glycol hydraulic circuit (glycol is added to protect the coil from freezing).
- 2. Primary hydraulic circuit for glycol-free systems.

Electronic expansion valve

The units from size 1805 to 3600 have an electronic expansion valve as standard.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

To obtain a solution that allows you to save money and to facilitate installation. These units can be configured with an integrated hydronic system.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

— **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI (Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible

to save a log file with all the connected unit datas in the personal terminal for post analysis.

FB1: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AFD40FD1 | A,E | | • | • | • | • | • | | | | | | | | | | | |
| AER485P1 | N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| AERDACF | N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERLINK | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| AERLINK | N,U | | • | | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| AERINET | N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| FB1 | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| rdi | N,U | • | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| гі | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| FL | N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICULUED EVO | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| MULTICHILLER_EVO | N,U | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | A,E | • | • | • | • | • | • | | | | | | | | | | | |
| ועטי | N,U | | | | | | | | | | | | | | • | | • | • |

Antivibration

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|----------------|------------|-------------|------------|------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Integrated hydronic kit: 00, DA, DB, D | C, DE, DF, DG, | DH, DI, DJ | , PA, PB, F | C, PD, PE, | PF, PG, PI | I, PI, PJ | | | | | | | | | | | |
| A,E | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | - | - | - | - | - | - | - | - | - | - | - |
| N,U | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) | AVX (1) |

⁽¹⁾ Contact us.

Device for peak current reduction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A,E | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | - | - | - |
| N,U | DRENRB0800 (1) | DRENRB0900 (1) | DRENRB1000 (1) | DRENRB1100 (1) | DRENRB1200 (1) | DRENRB1400 (1) | DRENRB1600 (1) | DRENRB1805 (1) | DRENRB2006 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|----------------|----------------|------|------|------|------|------|------|
| N,U | DRENRB2206 (1) | DRENRB2406 (1) | - | - | - | - | - | - |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered.

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1100 | RIFNRB1200 | RIFNRB1400 | - | - | - |
| E | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | - | - | - |
| N | RIFNRB0801 | RIFNRB0901 | RIFNRB1001 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |
| U | RIFNRB0800 | RIFNRB0900 | RIFNRB1000 | RIFNRB1101 | RIFNRB1201 | RIFNRB1401 | RIFNRB1601 | RIFNRB1815 | RIFNRB2016 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| N,U | RIFNRB2216 | RIFNRB2416 | RIFNRB2600 | RIFNRB2800 | RIFNRB3000 | RIFNRB3200 | RIFNRB3400 | RIFNRB3600 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-----|-------|-------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|
| A | GP2VN | GP2VN | GP3VNF | GP3VNF | GP3VNF | GP3VNF | - | - | - | - | - | - | - | - | - | - | - |

| - | | | | | | | | | | | | | | | | | | |
|---|-----|--------|--------|--------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| | Ver | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| | E | GP3VNF | GP3VNF | GP3VNF | GP4VN | GP4VN | GP4VN | - | - | - | - | - | - | - | - | - | - | - |
| | N | GP4VN | GP4VN | GP4VN | GP5VN | GP5VN | GP5VN | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9VN | GP10V | GP11V | GP11V | GP11V |
| | U | GP3VNF | GP3VNF | GP3VNF | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP10V | GP10V | GP10V |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| CONFIGUR | ATOR |
|-----------------|--|
| Field | Description |
| 1,2,3 | NRB |
| 4,5,6,7 | Size 0800, 0900, 1000, 1100, 1200, 1400, 1600, 1805, 2006, 2206, 2406, 2600, 2800, 3000, 3200, 3400, 3600 |
| 8 | Operating field |
| ۰ | Standard mechanic thermostatic valve |
| Х | Electronic thermostatic expansion valve |
| Υ | Low temperature mechanic thermostatic valve |
| Z | Low temperature electronic thermostatic valve |
| 9 | Model |
| В | Free-cooling glycol free |
| G | Free-cooling glycol free plus (1) |
| 10 | Heat recovery |
| ۰ | Without heat recovery |
| D | With desuperheater (2) |
| 11 | Version |
| Α | High efficiency |
| E | Silenced high efficiency |
| N | Silenced very high efficiency |
| U | Very high efficiency |
| 12 | Coils / free-cooling coils |
| ۰ | Alluminium microchannel / Copper - aluminium |
| I | Copper-aluminium / Copper-aluminium |
| 0 | Painted alluminium microchannel / Copper painted aluminium |
| R | Copper-copper/Copper-copper |
| S | Copper-Tinned copper / Copper -Tinned copper |
| V | Copper-painted alumimium / Copper-painted alumimium |
| 13 | Fans |
| • | Standard |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V~3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (3) |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (3) |

⁽¹⁾ The Free cooling Plus "G" models are only compatible with "°" and "0" coils.
(2) The temperature of the water in the heat exchanger inlet must never drop below 35°C.
(3) For all configurations including pump J please contact the factory.

PERFORMANCE SPECIFICATIONS

NRB - A

| NND - A | | | | | | | | | | | | | | | | | | |
|---|---------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Model: B | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 211,8 | 234,3 | 273,4 | 307,1 | 335,9 | 373,3 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 76,0 | 88,0 | 93,9 | 108,9 | 124,8 | 145,6 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling total input current | Α | 134,0 | 152,0 | 165,0 | 189,0 | 215,0 | 248,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 2,79 | 2,66 | 2,91 | 2,82 | 2,69 | 2,56 | - | - | - | - | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 36397 | 40249 | 46968 | 52762 | 57713 | 64138 | - | - | - | - | - | - | - | - | - | - | - |
| Pressure drop system side | kPa | 53 | 58 | 66 | 74 | 88 | 100 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 119,9 | 121,9 | 165,6 | 172,5 | 176,2 | 181,3 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 9,8 | 9,8 | 14,3 | 14,3 | 14,4 | 14,4 | - | - | - | - | - | - | - | - | - | - | - |
| Free cooling total input current | A | 17,0 | 17,0 | 25,0 | 25,0 | 25,0 | 25,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 12,21 | 12,41 | 11,56 | 12,02 | 12,26 | 12,60 | - | - | - | - | - | - | - | - | - | - | - |
| Model: G | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 210,3 | 232,4 | 271,9 | 305,1 | 333,3 | 369,6 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 76,8 | 89,2 | 94,8 | 110,0 | 126,2 | 147,6 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling total input current | А | 135,0 | 154,0 | 167,0 | 191,0 | 217,0 | 251,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 2,74 | 2,61 | 2,87 | 2,77 | 2,64 | 2,50 | - | - | - | - | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 36136 | 39921 | 46723 | 52411 | 57266 | 63506 | - | - | - | - | - | - | - | - | - | - | - |
| Pressure drop system side | kPa | 53 | 57 | 65 | 73 | 87 | 98 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 125,4 | 127,6 | 172,1 | 179,6 | 183,6 | 189,2 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 9,9 | 9,9 | 14,5 | 14,5 | 14,6 | 14,6 | - | - | - | - | - | - | - | - | - | - | - |
| Free cooling total input current | А | 17,0 | 17,0 | 25,0 | 25,0 | 25,0 | 25,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 12,62 | 12,83 | 11,86 | 12,36 | 12,62 | 12,99 | - | - | - | - | - | - | - | - | - | - | - |
| (4) 6 41 1 4 406/2005 | | | | | _ | | | | | | | | | | | | | |

NRB - E

| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|--|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Model: B | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 220,6 | 242,6 | 265,3 | 310,3 | 344,7 | 379,2 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 73,4 | 84,2 | 95,7 | 106,6 | 122,4 | 142,0 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling total input current | А | 126,0 | 142,0 | 160,0 | 179,0 | 205,0 | 236,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 3,00 | 2,88 | 2,77 | 2,91 | 2,82 | 2,67 | - | - | - | - | - | - | - | - | | - | - |
| Water flow rate system side | l/h | 37902 | 41688 | 45573 | 53310 | 59226 | 65155 | - | - | - | - | - | - | - | - | - | - | - |
| Pressure drop system side | kPa | 48 | 53 | 61 | 68 | 84 | 102 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling performances with free-cooling glycol-free | ee (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 139,1 | 141,5 | 143,7 | 187,8 | 192,4 | 195,3 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 11,0 | 11,0 | 11,0 | 14,6 | 14,6 | 14,6 | - | - | - | - | - | - | - | - | - | - | - |
| Free cooling total input current | А | 19,0 | 19,0 | 18,0 | 24,0 | 24,0 | 24,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 12,69 | 12,92 | 13,11 | 12,89 | 13,17 | 13,37 | - | - | - | - | - | - | - | - | - | - | - |
| Model: G | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 219,4 | 241,1 | 263,2 | 308,4 | 342,1 | 375,8 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 74,1 | 85,1 | 96,8 | 107,7 | 123,7 | 143,8 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling total input current | А | 126,0 | 144,0 | 162,0 | 181,0 | 206,0 | 238,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 2,96 | 2,83 | 2,72 | 2,86 | 2,76 | 2,61 | - | - | - | - | - | - | - | - | - | - | - |
| Water flow rate system side | l/h | 37695 | 41419 | 45215 | 52979 | 58785 | 64562 | - | - | - | - | - | - | - | - | - | - | - |
| Pressure drop system side | kPa | 47 | 52 | 61 | 67 | 83 | 100 | - | - | - | - | - | - | - | - | - | - | - |
| Cooling performances with free-cooling glycol-free | ee (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 144,3 | 147,0 | 149,3 | 195,0 | 200,0 | 203,0 | - | - | - | - | - | - | - | - | - | - | - |
| Input power | kW | 11,1 | 11,1 | 11,1 | 14,7 | 14,8 | 14,8 | - | - | - | - | - | - | - | - | - | - | - |
| Free cooling total input current | A | 19,0 | 19,0 | 18,0 | 25,0 | 25,0 | 24,0 | - | - | - | - | - | - | - | - | - | - | - |
| EER | W/W | 13,03 | 13,28 | 13,48 | 13,24 | 13,55 | 13,75 | - | - | - | - | - | - | - | - | - | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NRB - U

| NRB - U | | | | | | | | | | | | | | | | | | |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Model: B | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,3 | 250,9 | 275,8 | 320,4 | 357,9 | 396,3 | 455,4 | 515,9 | 569,2 | 633,7 | 680,9 | 742,0 | 785,1 | 849,2 | 919,7 | 965,1 | 1010,6 |
| Input power | kW | 73,7 | 83,6 | 94,1 | 106,4 | 120,6 | 138,5 | 153,5 | 173,2 | 195,2 | 215,9 | 238,4 | 253,0 | 272,3 | 293,7 | 311,5 | 334,6 | 357,7 |
| Cooling total input current | Α | 133,0 | 149,0 | 166,0 | 189,0 | 212,0 | 240,0 | 267,0 | 304,0 | 341,0 | 379,0 | 418,0 | 444,0 | 474,0 | 513,0 | 547,0 | 587,0 | 626,0 |
| EER | W/W | 3,08 | 3,00 | 2,93 | 3,01 | 2,97 | 2,86 | 2,97 | 2,98 | 2,92 | 2,94 | 2,86 | 2,93 | 2,88 | 2,89 | 2,95 | 2,88 | 2,83 |
| Water flow rate system side | l/h | 39046 | 43104 | 47382 | 55045 | 61497 | 68087 | 78245 | 88642 | 97793 | 108881 | 116982 | 127489 | 134883 | 145908 | 158015 | 165823 | 173632 |
| Pressure drop system side | kPa | 51 | 56 | 66 | 72 | 90 | 111 | 75 | 92 | 112 | 133 | 126 | 110 | 124 | 133 | 158 | 160 | 176 |
| Cooling performances with free-cooling glycol- | free (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 159,6 | 162,9 | 165,8 | 215,5 | 222,0 | 225,8 | 284,2 | 346,2 | 361,7 | 409,5 | 413,7 | 470,6 | 474,2 | 525,1 | 581,4 | 584,6 | 587,3 |
| Input power | kW | 14,3 | 24,3 | 14,3 | 19,1 | 19,1 | 19,1 | 24,1 | 31,6 | 32,0 | 36,8 | 36,8 | 41,1 | 41,1 | 45,0 | 52,6 | 52,6 | 52,6 |
| Free cooling total input current | A | 26,0 | 26,0 | 25,0 | 34,0 | 33,0 | 33,0 | 42,0 | 55,0 | 56,0 | 65,0 | 64,0 | 72,0 | 72,0 | 79,0 | 92,0 | 92,0 | 92,0 |
| EER | W/W | 11,14 | 11,37 | 11,57 | 11,31 | 11,62 | 11,82 | 11,80 | 10,97 | 11,29 | 11,14 | 11,26 | 11,45 | 11,54 | 11,66 | 11,06 | 11,12 | 11,17 |
| Model: G | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 226,2 | 249,6 | 274,2 | 318,8 | 356,0 | 393,8 | 452,9 | 513,3 | 565,9 | 630,2 | 676,8 | 737,9 | 780,4 | 844,3 | 914,6 | 959,5 | 1004,3 |
| Input power | kW | 74,4 | 84,4 | 95,0 | 107,4 | 121,8 | 139,9 | 154,8 | 174,8 | 197,2 | 218,0 | 240,9 | 255,4 | 275,0 | 296,5 | 314,5 | 338,0 | 361,5 |
| Cooling total input current | A | 134,0 | 150,0 | 167,0 | 190,0 | 213,0 | 242,0 | 269,0 | 306,0 | 344,0 | 382,0 | 421,0 | 447,0 | 478,0 | 517,0 | 551,0 | 591,0 | 631,0 |
| EER | W/W | 3,04 | 2,96 | 2,89 | 2,97 | 2,92 | 2,82 | 2,93 | 2,94 | 2,87 | 2,89 | 2,81 | 2,89 | 2,84 | 2,85 | 2,91 | 2,84 | 2,78 |
| Water flow rate system side | l/h | 38871 | 42893 | 47115 | 54781 | 61158 | 67658 | 77819 | 88186 | 97229 | 108280 | 116278 | 126780 | 134074 | 145060 | 157146 | 164847 | 172544 |
| Pressure drop system side | kPa | 50 | 56 | - | 72 | 89 | 109 | 74 | 91 | 111 | 132 | 125 | 109 | 122 | 132 | 157 | 158 | 174 |
| Cooling performances with free-cooling glycol- | free (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 165,6 | 169,1 | 172,3 | 223,6 | 230,7 | 234,8 | 295,8 | 360,9 | 278,5 | 427,4 | 432,0 | 491,6 | 495,5 | 547,8 | 606,7 | 610,2 | 613,2 |
| Input power | kW | 14,5 | 14,5 | 14,5 | 19,3 | 19,3 | 19,3 | 24,4 | 31,9 | 32,4 | 37,2 | 37,2 | 41,6 | 41,6 | 45,6 | 53,2 | 53,2 | 53,2 |
| Free cooling total input current | А | 26,0 | 26,0 | 25,0 | 34,0 | 34,0 | 33,0 | 42,0 | 56,0 | 57,0 | 65,0 | 65,0 | 73,0 | 72,0 | 79,0 | 93,0 | 93,0 | 93,0 |
| EER | W/W | 11,42 | 11,66 | 11,88 | 11,59 | 11,93 | 12,14 | 12,13 | 11,31 | 11,68 | 11,50 | 11,62 | 11,82 | 11,92 | 12,02 | 11,41 | 11,48 | 11,53 |

NRB - N

| MID II | | | | | | | | | | | | | | | | | | |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Model: B | | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 228,3 | 252,4 | 278,0 | 320,3 | 358,3 | 397,2 | 454,4 | 510,9 | 563,3 | 628,5 | 675,3 | 728,3 | 769,3 | 837,1 | 899,9 | 942,6 | 985,4 |
| Input power | kW | 72,5 | 82,2 | 92,3 | 104,6 | 118,7 | 136,3 | 151,0 | 171,5 | 194,0 | 213,5 | 236,4 | 253,2 | 273,3 | 292,4 | 312,3 | 337,1 | 361,8 |
| Cooling total input current | А | 124,0 | 140,0 | 156,0 | 177,0 | 199,0 | 227,0 | 251,0 | 287,0 | 325,0 | 360,0 | 399,0 | 425,0 | 457,0 | 490,0 | 525,0 | 567,0 | 608,0 |
| EER | W/W | 3,15 | 3,07 | 3,01 | 3,06 | 3,02 | 2,91 | 3,01 | 2,98 | 2,90 | 2,94 | 2,86 | 2,88 | 2,82 | 2,86 | 2,88 | 2,80 | 2,72 |
| Water flow rate system side | l/h | 39222 | 43370 | 47761 | 55033 | 61559 | 68239 | 78074 | 87785 | 96785 | 107983 | 116017 | 125122 | 132179 | 143818 | 154615 | 161957 | 169298 |
| Pressure drop system side | kPa | 46 | 50 | 60 | 72 | 91 | 103 | 71 | 90 | 110 | 131 | 124 | 97 | 109 | 130 | 141 | 158 | 170 |
| Cooling performances with free-cooling glycol- | free (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 173,9 | 177,9 | 181,5 | 218,5 | 225,6 | 235,0 | 293,7 | 331,4 | 347,7 | 386,9 | 390,8 | 445,3 | 448,6 | 497,1 | 534,8 | 537,7 | 540,1 |
| Input power | kW | 14,5 | 14,5 | 14,5 | 18,1 | 18,2 | 18,2 | 24,8 | 28,3 | 28,9 | 31,6 | 31,6 | 34,9 | 34,9 | 41,3 | 44,0 | 44,0 | 44,0 |
| Free cooling total input current | А | 25,0 | 25,0 | 25,0 | 31,0 | 31,0 | 30,0 | 41,0 | 47,0 | 48,0 | 53,0 | 53,0 | 59,0 | 58,0 | 69,0 | 74,0 | 74,0 | 74,0 |
| EER | W/W | 11,95 | 12,23 | 12,48 | 12,07 | 12,41 | 12,90 | 11,84 | 11,73 | 12,04 | 12,24 | 12,37 | 12,75 | 12,85 | 12,02 | 12,15 | 12,21 | 12,27 |
| Model: G | _ | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 227,4 | 251,4 | 276,7 | 318,8 | 356,3 | 394,6 | 451,9 | 508,1 | 559,8 | 624,6 | 670,7 | 723,5 | 763,9 | 831,4 | 894,1 | 935,9 | 977,8 |
| Input power | kW | 73,1 | 82,8 | 93,1 | 105,5 | 119,8 | 137,7 | 152,4 | 173,0 | 195,9 | 215,7 | 239,0 | 255,8 | 276,2 | 295,5 | 315,6 | 340,8 | 366,1 |
| Cooling total input current | А | 125,0 | 141,0 | 157,0 | 178,0 | 201,0 | 229,0 | 253,0 | 289,0 | 328,0 | 362,0 | 402,0 | 429,0 | 461,0 | 494,0 | 529,0 | 572,0 | 614,0 |
| EER | W/W | 3,11 | 3,03 | 2,97 | 3,02 | 2,98 | 2,87 | 2,97 | 2,94 | 2,86 | 2,90 | 2,81 | 2,83 | 2,77 | 2,81 | 2,83 | 2,75 | 2,67 |
| Water flow rate system side | l/h | 39073 | 43187 | 47536 | 54768 | 61222 | 67801 | 77644 | 87290 | 96173 | 107317 | 115226 | 124312 | 131253 | 142839 | 153613 | 160804 | 167994 |
| Pressure drop system side | kPa | 46 | 50 | 59 | 72 | 90 | 101 | 71 | 89 | 108 | 130 | 123 | 96 | 108 | 128 | 139 | 156 | 167 |
| Cooling performances with free-cooling glycol- | free (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 180,0 | 184,4 | 188,2 | 226,3 | 233,9 | 244,1 | 305,6 | 344,3 | 362,0 | 402,3 | 406,6 | 463,5 | 467,1 | 517,6 | 556,4 | 559,5 | 562,1 |
| Input power | kW | 14,7 | 14,6 | 14,7 | 18,3 | 18,4 | 18,4 | 25,0 | 28,5 | 29,2 | 31,9 | 31,9 | 35,3 | 35,3 | 41,7 | 44,4 | 44,4 | 44,4 |
| Free cooling total input current | А | 25,0 | 25,0 | 25,0 | 31,0 | 31,0 | 31,0 | 42,0 | 48,0 | 49,0 | 54,0 | 54,0 | 59,0 | 59,0 | 70,0 | 75,0 | 75,0 | 75,0 |
| EER | W/W | 12,25 | 12,55 | 12,81 | 12,37 | 12,73 | 13,26 | 12,20 | 12,07 | 12,42 | 12,61 | 12,74 | 13,14 | 13,25 | 12,41 | 12,52 | 12,59 | 12,65 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

ENERGY DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model: B | | | | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature | with stand | ard fans (1 |) | | | | | | | | | | | | | | | | |
| | Α | W/W | 5,61 | 5,25 | 5,27 | 5,43 | 5,25 | 5,05 | - | - | - | - | - | - | - | - | - | - | - |
| SEPR | E | W/W | 6,07 | 5,58 | 5,44 | 5,59 | 5,50 | 5,13 | - | - | - | - | - | - | - | - | - | - | - |
| SERK | N | W/W | 6,38 | 6,09 | 5,91 | 5,92 | 5,78 | 5,41 | 5,67 | 5,51 | 5,56 | 5,58 | 5,53 | 5,55 | 5,54 | 5,53 | 5,54 | 5,55 | 5,53 |
| | U | W/W | 6,22 | 5,87 | 5,69 | 5,84 | 5,71 | 5,56 | 5,73 | 5,52 | 5,60 | 5,58 | 5,53 | 5,58 | 5,56 | 5,55 | 5,53 | 5,56 | 5,56 |
| Model: G | | | | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature | with stand | ard fans (1 |) | | | | | | | | | | | | | | | | |
| | Α | W/W | 5,82 | 5,37 | 5,48 | 5,60 | 5,37 | 4,87 | - | - | - | - | - | - | - | - | - | - | - |
| SEPR | E | W/W | 6,42 | 5,83 | 5,62 | 5,85 | 5,69 | 5,10 | - | - | - | - | - | - | - | - | - | - | - |
| | N,U | W/W | 6,96 | 6,54 | 6,28 | 6,28 | 6,08 | 5,63 | 6,13 | 5,90 | 5,77 | 5,73 | 5,58 | 5,79 | 5,47 | 5,56 | 5,61 | 5,32 | 5,18 |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| ELECTRIC DATA | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
| Electric data | | | | | | | | | | | | | | | | | | | |
| | Α | Α | 190,4 | 206,8 | 242,5 | 271,9 | 301,2 | 330,2 | - | - | - | - | - | - | - | - | - | - | - |
| Maximum current (FLA) | E | Α | 209,8 | 226,2 | 242,5 | 291,3 | 320,6 | 349,6 | - | - | - | - | - | - | - | - | - | - | - |
| Maximum current (FLA) | N | А | 229,2 | 245,6 | 261,9 | 310,7 | 340,0 | 369,0 | 423,3 | 487,5 | 532,3 | 580,7 | 609,7 | 678,0 | 710,9 | 771,2 | 831,6 | 872,5 | 913,4 |
| | U | Α | 209,8 | 226,2 | 242,5 | 291,3 | 320,6 | 349,6 | 398,0 | 468,1 | 512,9 | 561,3 | 590,3 | 658,6 | 691,5 | 751,8 | 812,2 | 853,1 | 894,0 |
| | A | Α | 379,0 | 434,2 | 469,9 | 522,6 | 551,9 | 664,4 | - | - | - | - | - | - | - | - | - | - | - |
| Peak current (LRA) | E | Α | 398,4 | 453,6 | 469,9 | 542,0 | 571,3 | 683,8 | - | - | - | - | - | - | - | - | - | - | - |
| reak current (LKA) | N | Α | 417,8 | 473,0 | 489,3 | 561,4 | 590,7 | 703,2 | 757,5 | 821,7 | 866,5 | 914,9 | 943,9 | 947,3 | 980,2 | 1040,5 | 1100,8 | 1141,8 | 1182,7 |
| | U | Α | 398,4 | 453,6 | 469,9 | 542,0 | 571,3 | 683,8 | 732,2 | 802,3 | 847,1 | 895,5 | 924,5 | 927,9 | 960,8 | 1021,1 | 1081,4 | 1122,4 | 1163,3 |

GENERAL TECHNICAL DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|-------------------------------|----------------|------|------|------|------|------|------|------|------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | | | Scroll | | | | | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | | | | | 0n-0ff | | | | | | | | |
| Number | A,E,N,U | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| Circuits | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | | | | | R410A | | | | | | | | |
| | Α | kg | 32,0 | 32,0 | 48,0 | 48,0 | 48,0 | 48,0 | 64,0 | 64,0 | 80,0 | 80,0 | 96,0 | 112,0 | 112,0 | 112,0 | 128,0 | 128,0 | 128,0 |
| Refrigerant charge (1) | E,U | kg | 48,0 | 48,0 | 48,0 | 64,0 | 64,0 | 64,0 | 80,0 | 96,0 | 96,0 | 112,0 | 112,0 | 128,0 | 128,0 | 144,0 | 160,0 | 160,0 | 160,0 |
| | N | kg | 64,0 | 64,0 | 64,0 | 80,0 | 80,0 | 80,0 | 96,0 | 112,0 | 112,0 | 128,0 | 128,0 | 144,0 | 144,0 | 160,0 | 176,0 | 176,0 | 176,0 |
| Hydraulic connections | | | | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Туре | | | | | | | | G | rooved joi | nts | | | | | | | |
| Hydraulic connections withou | t hydronic kit | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | A,E,N,U | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |
| Hydraulic connections with hy | dronic kit | | | | | | | | | | | | | | | | | | |
| Sizes (in/out) | A,E,N,U | Ø | 3" | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 5" | 5" | 5" | 5" | 5" | 5" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

In the versions without a hydronic kit, the water filter is supplied with a connection point for making the connection. In the versions with a hydronic kit, it is supplied ready-mounted.

SOUND DATA

| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | | | | | |
| | Α | dB(A) | 88,0 | 88,1 | 90,3 | 90,2 | 90,2 | 90,2 | - | - | - | - | - | - | - | - | - | - | - |
| Cound nowar loval | E | dB(A) | 85,0 | 85,1 | 85,1 | 86,5 | 86,5 | 86,5 | - | - | - | - | - | - | - | - | - | - | - |
| Sound power level — | N | dB(A) | 86,5 | 86,6 | 86,6 | 87,7 | 87,7 | 87,7 | 88,7 | 90,0 | 90,5 | 91,7 | 92,2 | 92,8 | 92,8 | 93,4 | 93,9 | 93,9 | 93,9 |
| | U | dB(A) | 90,2 | 90,3 | 90,3 | 91,7 | 91,7 | 91,7 | 92,9 | 94,4 | 94,9 | 96,2 | 96,7 | 97,4 | 97,4 | 98,0 | 98,6 | 98,6 | 98,6 |
| _ | Α | dB(A) | 55,9 | 56,0 | 58,0 | 57,9 | 57,9 | 57,9 | - | - | - | - | - | - | - | - | - | - | - |
| Sound pressure level (10 m) — | E | dB(A) | 52,9 | 53,0 | 52,8 | 54,3 | 54,3 | 54,3 | - | - | - | - | - | - | - | - | - | - | - |
| Sound pressure level (10 III) | N | dB(A) | 54,4 | 54,5 | 54,4 | 55,4 | 55,4 | 55,4 | 56,3 | 57,6 | 58,0 | 59,2 | 59,6 | 60,1 | 60,1 | 60,6 | 61,0 | 61,0 | 61,0 |
| | U | dB(A) | 58,0 | 58,1 | 58,0 | 59,4 | 59,4 | 59,4 | 60,5 | 62,0 | 62,4 | 63,7 | 64,0 | 64,6 | 64,6 | 65,3 | 65,7 | 65,7 | 65,7 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

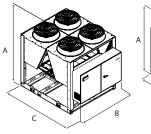
FANS DATA

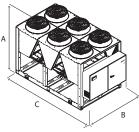
| Size | <u> </u> | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|---------------|----------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: B | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Tuno | A,E | type | axials | axials | axials | axials | axials | axials | - | - | - | - | - | - | - | - | - | - | - |
| Туре | N,U | type | | | | | | | | | axials | | | | | | | | |
| | A | no. | 4 | 4 | 6 | 6 | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - |
| Number | E | no. | 6 | 6 | 6 | 8 | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - |
| Number | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| | U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| | A | m³/h | 57600 | 57600 | 86400 | 86400 | 86400 | 86400 | - | - | - | - | - | - | - | - | - | - | - |
| Air flow rate | E | m³/h | 64800 | 64800 | 64800 | 86400 | 86400 | 86400 | - | - | - | - | - | - | - | - | - | - | - |
| All flow fate | N | m³/h | 86400 | 86400 | 86400 | 108000 | 108000 | 108000 | 129600 | 151200 | 151200 | 172800 | 172800 | 194400 | 194400 | 216000 | 237600 | 237600 | 237600 |
| | U | m³/h | 86400 | 86400 | 86400 | 115200 | 115200 | 115200 | 144000 | 172800 | 172800 | 201600 | 201600 | 230400 | 230400 | 259200 | 288000 | 288000 | 288000 |
| Model: G | | | | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | | | | |
| Type | A,E | type | axials | axials | axials | axials | axials | axials | - | - | - | - | - | - | - | - | - | - | - |
| Туре | N,U | type | | | | | | | | | axials | | | | | | | | |
| | A | no. | 4 | 4 | 6 | 6 | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - |
| Number | E | no. | 6 | 6 | 6 | 8 | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - |
| Nullibel | N | no. | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 22 | 22 | 22 |
| | U | no. | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 20 | 20 | 20 |
| | A | m³/h | 57600 | 57600 | 86400 | 86400 | 86400 | 86400 | - | - | - | - | - | - | - | - | - | - | - |
| Air flow rate | E | m³/h | 64800 | 64800 | 64800 | 86400 | 86400 | 86400 | - | - | - | - | - | - | - | - | - | - | - |
| All HOW fale | N | m³/h | 86400 | 86400 | 86400 | 108000 | 108000 | 108000 | 129600 | 151200 | 151200 | 172800 | 172800 | 194400 | 194400 | 216000 | 237600 | 237600 | 237600 |
| | U | m³/h | 86400 | 86400 | 86400 | 115200 | 115200 | 115200 | 144000 | 172800 | 172800 | 201600 | 201600 | 230400 | 230400 | 259200 | 288000 | 288000 | 288000 |

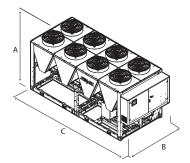
DIMENSIONS

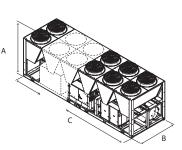
NRB 0800-0900 A

NRB 1000-1400 A NRB 0800-1000 E-U NRB 1100-1400 E-U NRB 0800-1000 N NRB 1100-3600 N NRB 1600-3600 U









| Size | | | 0800 | 0900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1805 | 2006 | 2206 | 2406 | 2600 | 2800 | 3000 | 3200 | 3400 | 3600 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - | - | - | - | - | - | - | - | - | - |
| A | N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| D | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - | - | - | - | - | - | - | - | - | - |
| D | N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | A | mm | 2780 | 2780 | 3970 | 3970 | 3970 | 3970 | - | - | - | - | - | - | - | - | - | - | - |
| (| E | mm | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | - | - | - | - | - | - | - | - | - | - | - |
| C | N | mm | 4760 | 4760 | 4760 | 5950 | 5950 | 5950 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 10710 | 11900 | 13090 | 13090 | 13090 |
| | U | mm | 3970 | 3970 | 3970 | 4760 | 4760 | 4760 | 5950 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 10710 | 11900 | 11900 | 11900 |

■ For the weights please contact the factory.

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com





















NRV 0550 F

Air-water chiller with free-cooling

Cooling capacity 99,9 ÷ 105,4 kW



- Easy and quick to install compact
- Reliability and modularity
- Microchannel coils



DESCRIPTION

NRV is comprised of independent 99.9 kW modules, that can be connected together up to a power of 900 kW. Each individual module is an outdoor chiller for the production of chilled water.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency **E** Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 46°C external air temperature. Unit can produce chilled water up to $4\,^{\circ}\text{C}$.

Maximum yield at full load but even partial load, thanks to the partialisation steps that increase as the number of connected modules increases this ensures continuous adaptation to the actual system requirements.

Modularity

It is possible to couple up to 9 chillers designed to reduce the overall unit dimensions to a minimum.

The combination of the various chillers allows all the strengths of the individual module to be maintained.

Modularity allows you to adapt installation to the actual development needs of the system. This way the cooling capacity can be increased over time simply and affordably.

Modularity is essential when component redundancy is required, as it allows for a safer system design and increased reliability.

Microchannel coils

Microchannel heat exchanger that guarantees higher thermal exchange yield. Circuit that optimises the liquid distribution in the coil, which is arranged with V beam geometry with open angle.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode.

Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

Components

Already equipped with a water filter, differential pressure switch and butterfly check valves, useful to cut off the hydraulic circuit for maintenance; for instance, to clean the filter.

In the event of variable flow rate, the motorised hydronic valves can intercept one or more modules to reduce the flow rate in low heat load conditions.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

Modalità Night Mode: it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERLINK: Wifi Gateway with an RS485 serial port that can be installed on all machines or on all controllers having an RS485 serial port themselves. The module is capable of simultaneously activating the AP WIFI

(Access point) and WIFI Station functions, the latter making it possible to connect to the home or business LAN both with VMF-E5 and E6. To facilitate certain management and control operations of the unit, the AERAPP application is available both for Android and iOS systems.

FB1: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

GPNYB_BACK: kit with 1 anti-intrusion grid for the short side of the unit.

GPNYB_SIDE: kit with 2 anti-intrusion grids for the long side of the unit.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

KNYB: Pair of caps with grooved joints assembled on the unit manifold. **KREC:** Accessory kit to remote the electric power supply input to the

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0550 |
|------------------|-----|------|
| AER485P1 | A,E | • |
| AERBACP | A,E | • |
| AERLINK | A,E | • |
| FB1 | A,E | • |
| GPNYB_BACK | A,E | • |
| GPNYB_SIDE | A,E | • |
| MULTICHILLER_EVO | A,E | • |
| PGD1 | A,E | • |

DRE: electronic device for peak current reduction

| Ver | 0550 |
|-----|---------|
| A,E | DRE (1) |

(1) Contact the factory
A grey background indicates the accessory must be assembled in the factory

KNYB: Pair of caps with grooved joints assembled on the unit manifold

| Ver | 0550 |
|-----|------|
| A,E | KNYB |

A grey background indicates the accessory must be assembled in the factory

KREC: kit to remote the electric power supply input to the back

| Ver | 0550 |
|-----|------|
| A,E | KREC |

A grey background indicates the accessory must be assembled in the factory

RIF: Power factor correction

| Ver | 0550 |
|-----|---------|
| A,E | RIF (1) |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRV |
| 4,5,6,7 | Size |
| .,5,0,, | 0550 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Χ | Electronic thermostatic expansion valve |
| 9 | Model |
| F | Free-cooling |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |

| Field | Description | | | | | | |
|-------|--|--|--|--|--|--|--|
| 12 | Coils / free-cooling coils | | | | | | |
| 0 | Alluminium microchannel / Copper - aluminium | | | | | | |
| 0 | Painted alluminium microchannel / Copper painted aluminium | | | | | | |
| R | Copper-copper/Copper-copper | | | | | | |
| S | Copper-Tinned copper / Copper -Tinned copper | | | | | | |
| ٧ | Copper-painted alumimium / Copper-painted alumimium | | | | | | |
| 13 | Fans | | | | | | |
| 0 | Standard | | | | | | |
| J | Inverter | | | | | | |
| 14 | Power supply | | | | | | |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers | | | | | | |
| 15,16 | Integrated hydronic kit | | | | | | |
| 00 | Without hydronic kit | | | | | | |

(1) Water produced up to +4 °C

PERFORMANCE SPECIFICATIONS

NRV - FA/FE

| Size | | | 0550 |
|---------------------------------------|----------|-----|-------|
| Cooling performance chiller operation | on (1) | | |
| Cooling canacity | A | kW | 105,4 |
| Cooling capacity | E | kW | 99,9 |
| Innut nouser | Α | kW | 36,6 |
| Input power | E | kW | 38,2 |
| Cooling total input current | A,E | A | 65,0 |
| EER | A | W/W | 2,88 |
| EER | E | W/W | 2,61 |
| Water flavores anatom side | A | l/h | 18104 |
| Water flow rate system side | E | l/h | 17164 |
| Duranium duram arratama ai da | A | kPa | 31 |
| Pressure drop system side | E | kPa | 27 |
| Cooling performances with free-cool | ling (2) | | |
| Caaling sanssitu | A | kW | 69,3 |
| Cooling capacity | E | kW | 57,7 |
| launt accord | A | kW | 3,7 |
| Input power | E | kW | 2,6 |
| Free cooling total input current | A | A | 6,7 |
| Free cooling total input current | E | A | 4,5 |
| CCD | A | W/W | 18,48 |
| EER | E | W/W | 21,98 |
| Water flow rate custom side | A | l/h | 18104 |
| Water flow rate system side | E | l/h | 17164 |
| Dunantura duna attata aida | A | kPa | 73 |
| Pressure drop system side | E | kPa | 66 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/7 °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0550 |
|--------------------------------|----------------------------------|-----|--------|
| SEER - 23/18 (EN14825: 2018) w | vith standard fans (1) | | |
| Seasonal efficiency | A | % | 184.2% |
| | E | % | 181.3% |
| SEER | A | W/W | 4,68 |
| SEER | E | W/W | 4,61 |
| SEER - 23/18 (EN14825: 2018) w | vith inverter fans | | |
| r 1 m. | A | % | 191.5% |
| Seasonal efficiency | E | % | 189.2% |
| SEER | A | W/W | 4,86 |
| DEEK | E | W/W | 4,81 |
| SEPR - (EN14825: 2018) High te | mperature with standard fans (1) | | |
| CEDD | A | W/W | 5,94 |
| SEPR | E | W/W | 5,60 |
| SEPR - (EN14825: 2018) High te | mperature with inverter fans (1) | | |
| | A | W/W | 5,94 |
| SEPR | E | W/W | 5,60 |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

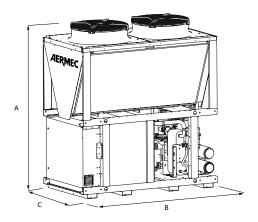
| Size | | | 0550 |
|-----------------------|-----|---|-------|
| Electric data | | | |
| Maximum current (FLA) | A,E | A | 95,6 |
| Peak current (LRA) | A,E | A | 280,6 |

GENERAL TECHNICAL DATA

| Size | | | 0550 |
|------------------------------------|----------|-------|-----------------------------|
| Compressor | | | |
| Туре | A,E | type | Scroll |
| Number | A,E | no. | 2 |
| Circuits | A,E | no. | 1 |
| Refrigerant | A,E | type | R410A |
| System side heat exchanger | | | |
| Туре | A,E | type | Brazed plate |
| Number | A,E | no. | 1 |
| System side hydraulic connections | 1 | | |
| Connections (in/out) | A,E | Туре | Grooved joints |
| Sizes (in/out) | A,E | Ø | 6" |
| Fan | | | |
| Туре | A,E | type | axials |
| Fan motor | A,E | type | Asynchronous with phase cut |
| Number | A,E | no. | 2 |
| Air flow rate | Α | m³/h | 28600 |
| All flow fale | E | m³/h | 22000 |
| Sound data calculated in cooling n | node (1) | | |
| Cound navor lavel | A | dB(A) | 86,9 |
| Sound power level | E | dB(A) | 81,8 |
| Cound proceura loual (10 m) | A | dB(A) | 55,0 |
| Sound pressure level (10 m) | E | dB(A) | 49,9 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0550 |
|------------------------|-----|----|------|
| Dimensions and weights | | | |
| A | A,E | mm | 2480 |
| В | A,E | mm | 2200 |
| C | A,E | mm | 1190 |
| Empty weight | A,E | kg | 1389 |























NSM 1402-9603 F

Air-water chiller with free-cooling

Cooling capacity 306 ÷ 2028 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- · High efficiency also at partial loads



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with screw compressors, axial fans, micro-channel coils, and shell and tube heat exchangers

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency
E Silenced high efficiency
N Silenced very high efficiency
U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Electronic expansion valve

Electronic thermostatic as standard from size 5202 to 6402 and from 8403 to 9603.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------|---------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|
| AER485P1 x n° 2 (1) | A,E,N,U | | • | | | | • | • | | | | • | | • | • |
| AERBACP | A,E,N,U | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E,N,U | • | • | • | • | • | • | • | • | • | | • | • | • | |
| PRV3 | A,E,N,U | • | • | • | • | • | • | • | • | ٠ | • | • | • | • | • |
| Model | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 64 | 102 6 | 503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 x n° 2 (1) | A,E,N,U | • | • | • | • | • | • | | • | | | | | | |
| AER485P1 x n° 3 (1) | A,E,N,U | | | | | | | | | • | • | • | • | • | • |
| AERBACP | A,E,N,U | | | | | | • | | | | | • | • | | |
| AERNET | A,E,N,U | • | • | • | • | | • | | • | | • | • | • | • | • |
| MULTICHILLER EVO | A,E,N,U | • | • | | • | | • | | | | | • | • | | |
| | | | | | | | | | | | | | | | |

(1) x Indicates the quantity of accessories to match.

Antivibration - NSM free - coolina

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| A | AVX929 | AVX929 | AVX929 | AVX932 | AVX933 | AVX933 | AVX933 | AVX934 | AVX937 | AVX937 | AVX937 | AVX938 | AVX938 | AVX942 |
| E,U | AVX929 | AVX929 | AVX930 | AVX933 | AVX933 | AVX934 | AVX934 | AVX935 | AVX935 | AVX935 | AVX935 | AVX939 | AVX939 | AVX940 |
| N | AVX930 | AVX930 | AVX931 | AVX931 | AVX934 | AVX935 | AVX935 | AVX936 | AVX936 | AVX936 | AVX936 | AVX940 | AVX941 | AVX943 |
| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 64 | 02 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| A | AVX942 | AVX944 | AVX944 | AVX944 | AVX945 | 5 AVX94 | 17 AVX | 947 A | VX953 | AVX953 | AVX957 | AVX954 | AVX956 | AVX955 |
| E,U | AVX941 | AVX945 | AVX947 | AVX947 | AVX950 | O AVX95 | 52 AVX | 1948 A | VX954 | AVX956 | AVX956 | AVX958 | - | - |
| N | AVX943 | AVX946 | AVX948 | AVX949 | AVX951 | 1 AVX95 | 51 AVX | 951 A | VX955 | - | - | - | - | - |

Anti-intrusion grid

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| A | GP4V | GP4V | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V |
| E,U | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V | GP8V | GP8V | GP9V |
| N | GP5V | GP5V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP8V | GP8V | GP9V | GP10V | GP11V |

A grey background indicates the accessory must be assembled in the factory

| Ve | er 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|---------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| A | GP8V | GP9V | GP9V | GP9V | - | GP11V | GP11V | GP4V+GP8V | GP4V+GP8V | GP9V | GP5V+GP9V | GP5V+GP10V | GP6V+GP11V |
| E,l | U GP10V | GP10V | GP11V | GP11V | GP6V+GP6V | GP6V+GP7V | GP7V+GP7V | GP5V+GP9V | GP5V+GP10V | GP5V+GP10V | GP6V+GP11V | - | - |
| N | I GP11V | GP6V+GP7V | GP7V+GP7V | GP7V+GP8V | GP8V+GP8V | GP8V+GP8V | GP8V | GP6V+GP11V | - | - | - | _ | _ |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Heater exchangers

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | KRS22 | KRS22 | KRS23 | KRS24 | KRS24 | KRS24 |
| E,N,U | KRS23 | KRS24 | KRS24 | KRS24 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | KRS24 | KRS24 | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 |
| E,U | KRS24 | KRS24 | KRS23 | KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | - | - |
| N | KRS24 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352Q | RIFNSM2502Q | RIFNSM2652Q | RIFNSM2802C |
| E | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| N | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802C | RIFNSM2002Q | RIFNSM2202C | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| U | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002C | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |

A grey background indicates the accessory must be assembled in the factory

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A,E,U | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | RIFNSM4502C | RIFNSM4802C | RIFNSM5202C |
| N | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | - | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|------|------|------|------|------|------|
| A | RIFNSM5602C | RIFNSM6002C | RIFNSM6402C | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Fiel | d | Description |
|------|-----|--|
| 1,2, | .3 | NSM |
| 4,5, | 6,7 | Size 1402, 1602, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602 3902, 4202, 4502, 4802, 5202, 5602, 6002, 6402, 6503, 6703, 6903, 7203, 8403 9603 |
| 8 | | Operating field |
| | 0 | Standard mechanic thermostatic valve (1) |
| | Χ | Electronic thermostatic expansion valve (2) |
| | Υ | Low temperature mechanic thermostatic valve (3) |
| | Z | Low temperature electronic thermostatic valve (3) |
| 9 | | Model |
| | F | Free-cooling |
| | Р | Free-cooling plus (4) |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater |
| 11 | | Version |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| | N | Silenced very high efficiency |
| | U | Very high efficiency |
| 12 | | Coils / free-cooling coils |
| | 0 | Alluminium microchannel / Copper - aluminium |
| | 1 | Copper-aluminium / Copper-aluminium |
| | 0 | Painted alluminium microchannel / Copper painted aluminium |
| | R | Copper-copper/Copper-copper |
| | S | Copper-Tinned copper / Copper -Tinned copper |
| | ٧ | Copper-painted alumimium / Copper-painted alumimium |
| 13 | | Fans |
| | 0 | Standard |
| | J | Inverter |
| 14 | | Power supply |
| | 0 | 400V ~ 3 50Hz with fuses |
| | 2 | 230V ~ 3 50Hz with fuses (5) |
| | 4 | 230V ~ 3 50Hz with magnet circuit breakers (5) |
| | 5 | 500V ~ 3 50Hz with fuses (6) |

| Field | Description |
|-------|--|
| 8 | 400V ~ 3 50Hz with magnet circuit breakers |
| 9 | 500V~3 50Hz with magnet circuit breakers (6) |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (7) |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (7) |
| TF | Double pump F (8) |
| TG | Double pump G (8) |
| TH | Double pump H (8) |
| TI | Double pump I (8) |
| TJ | Double pump J (8) |

- (1) Water produced from 4 °C ÷ 15 °C
 (2) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C
 (3) Water produced from 4 °C ÷ 18 °C for ° version; -10 °C for the others versions
 (4) The Free-Cooling Plus "P" models are only compatible with" ed "0"
 (5) available only for size from 1402 to 2202
 (6) available only for size from 1402 to 3202
 (7) For all configurations including pump J please contact the factory.
 (8) The unit from 5603 to 9603 can only have hydronic kit "TF TG TH-TI TJ"

PERFORMANCE SPECIFICATIONS

NSM - A

| NSIVI - A | | | | | | | | | | | | | | | |
|--|-----|---------|-------|-------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 306,5 | 350,2 | 396,8 | 450,5 | 505,3 | 522,5 | 556,5 | 600,8 | 649,8 | 678,4 | 726,3 | 813,3 | 872,8 | 954,1 |
| Input power | kW | 102,8 | 117,6 | 136,7 | 158,3 | 168,9 | 180,5 | 194,5 | 203,0 | 220,4 | 235,0 | 252,8 | 269,7 | 295,6 | 317,9 |
| Cooling total input current | А | 182,3 | 206,2 | 230,6 | 268,0 | 291,3 | 311,4 | 335,2 | 351,3 | 378,4 | 400,0 | 426,5 | 450,9 | 486,5 | 530,4 |
| EER | W/W | 2,98 | 2,98 | 2,90 | 2,85 | 2,99 | 2,90 | 2,86 | 2,96 | 2,95 | 2,89 | 2,87 | 3,02 | 2,95 | 3,00 |
| Water flow rate system side | l/h | 52654 | 60163 | 68174 | 77407 | 86812 | 89765 | 95621 | 103224 | 111642 | 116561 | 124785 | 139737 | 149958 | 163932 |
| Pressure drop system side | kPa | 45 | 59 | 54 | 36 | 45 | 48 | 54 | 63 | 67 | 73 | 65 | 43 | 50 | 61 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 347,7 | 362,0 | 373,1 | 381,9 | 468,1 | 471,2 | 476,5 | 560,7 | 569,1 | 573,2 | 578,8 | 671,5 | 677,9 | 770,2 |
| Input power | kW | 15,0 | 15,0 | 15,0 | 15,0 | 18,7 | 18,7 | 18,7 | 22,5 | 22,5 | 22,5 | 22,5 | 26,2 | 26,2 | 30,0 |
| Free cooling total input current | A | 30,4 | 30,4 | 30,4 | 30,4 | 38,0 | 38,0 | 38,0 | 45,6 | 45,6 | 45,6 | 45,6 | 53,2 | 53,2 | 60,8 |
| EER | W/W | 23,18 | 24,14 | 24,88 | 25,47 | 24,97 | 25,14 | 25,42 | 24,93 | 25,30 | 25,48 | 25,73 | 25,59 | 25,83 | 25,68 |
| Water flow rate system side | l/h | 60230 | 68250 | 77490 | 86910 | 89860 | 95730 | 103340 | 111770 | 116690 | 124920 | 139890 | 150120 | 164110 | 171460 |
| Pressure drop system side | kPa | 66 | 86 | 85 | 76 | 78 | 84 | 95 | 98 | 107 | 116 | 113 | 87 | 99 | 107 |
| Model: P | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 305,8 | 349,3 | 395,0 | 447,3 | 502,1 | 519,1 | 552,6 | 597,2 | 645,4 | 674,3 | 721,9 | 807,8 | 865,0 | 946,8 |
| Input power | kW | 103,7 | 118,8 | 138,1 | 160,2 | 170,8 | 182,6 | 197,0 | 205,3 | 223,1 | 238,4 | 257,1 | 273,3 | 299,3 | 321,8 |
| Cooling total input current | Α | 182,3 | 206,2 | 230,6 | 268,0 | 291,3 | 311,4 | 335,2 | 351,3 | 378,4 | 400,0 | 426,5 | 450,9 | 486,5 | 530,4 |
| EER | W/W | 2,95 | 2,94 | 2,86 | 2,79 | 2,94 | 2,84 | 2,81 | 2,91 | 2,89 | 2,83 | 2,81 | 2,96 | 2,89 | 2,94 |
| Water flow rate system side | l/h | 52546 | 60019 | 67864 | 76853 | 86266 | 89180 | 94948 | 102598 | 110891 | 115859 | 124023 | 138789 | 148609 | 162675 |
| Pressure drop system side | kPa | 45 | 59 | 54 | 36 | 45 | 48 | 54 | 63 | 67 | 73 | 65 | 43 | 50 | 61 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 371,8 | 388,1 | 400,1 | 409,1 | 501,9 | 505,2 | 510,5 | 601,2 | 610,0 | 614,2 | 619,7 | 719,2 | 725,2 | 824,6 |
| Input power | kW | 15,2 | 15,2 | 15,2 | 15,2 | 19,0 | 19,0 | 19,0 | 22,9 | 22,9 | 22,9 | 22,9 | 26,7 | 26,7 | 30,5 |
| Free cooling total input current | A | 30,7 | 30,7 | 30,7 | 30,7 | 38,4 | 38,4 | 38,4 | 46,1 | 46,1 | 46,1 | 46,1 | 53,7 | 53,7 | 61,4 |
| EER | W/W | 24,41 | 25,48 | 26,27 | 26,86 | 26,36 | 26,53 | 26,81 | 26,31 | 26,69 | 26,88 | 27,12 | 26,98 | 27,20 | 27,07 |
| Water flow rate system side | l/h | 52710 | 60230 | 68250 | 77490 | 86910 | 89860 | 95730 | 103340 | 111770 | 116690 | 124920 | 139890 | 150120 | 164110 |
| Pressure drop system side | kPa | 66 | 86 | 86 | 76 | 79 | 84 | 95 | 98 | 107 | 117 | 114 | 87 | 100 | 108 |
| (1) C | | C CL:II | | 0/ F | I' 00/ | | | | | | | | | | |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2 °C

NSM - A

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 996,8 | 1082,3 | 1128,3 | 1167,3 | 1222,8 | 1304,9 | 1346,7 | 1459,2 | 1501,9 | 1659,0 | 1705,0 | 1838,1 | 2028,1 |
| Input power | kW | 346,1 | 365,7 | 391,9 | 422,5 | 438,9 | 452,7 | 472,4 | 492,1 | 520,2 | 557,2 | 583,3 | 659,0 | 704,1 |
| Cooling total input current | Α | 581,4 | 614,0 | 654,6 | 703,8 | 733,3 | 761,1 | 795,9 | 821,1 | 872,1 | 945,1 | 985,8 | 1100,0 | 1197,7 |
| EER | W/W | 2,88 | 2,96 | 2,88 | 2,76 | 2,79 | 2,88 | 2,85 | 2,97 | 2,89 | 2,98 | 2,92 | 2,79 | 2,88 |
| Water flow rate system side | l/h | 171269 | 185947 | 193855 | 200561 | 210092 | 224201 | 231379 | 250713 | 258050 | 285029 | 292937 | 315803 | 348457 |
| Pressure drop system side | kPa | 66 | 81 | 88 | 75 | 82 | 96 | 102 | 61 | 66 | 81 | 88 | 82 | 102 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 774,7 | 867,5 | 872,2 | 875,9 | 966,0 | 1058,3 | 1062,8 | 1158,4 | 1162,7 | 1346,7 | 1351,7 | 1449,5 | 1636,8 |
| Input power | kW | 30,0 | 33,7 | 33,7 | 33,7 | 37,5 | 41,2 | 41,2 | 45,0 | 45,0 | 52,5 | 52,5 | 56,2 | 63,7 |
| Free cooling total input current | A | 60,8 | 68,4 | 68,4 | 68,4 | 76,0 | 83,6 | 83,6 | 91,2 | 91,2 | 106,4 | 106,4 | 114,0 | 129,2 |
| EER | W/W | 25,83 | 25,71 | 25,85 | 25,96 | 25,77 | 25,66 | 25,77 | 25,75 | 25,85 | 25,66 | 25,75 | 25,78 | 25,68 |
| Water flow rate system side | l/h | 186150 | 194070 | 200780 | 210330 | 224450 | 231640 | 250990 | 258340 | 285350 | 293260 | 316150 | 348840 | 348457 |
| Pressure drop system side | kPa | 117 | 130 | 141 | 131 | 134 | 145 | 154 | 107 | 117 | 130 | 141 | 134 | 154 |
| Model: P | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 988,7 | 1074,2 | 1119,1 | 1156,4 | 1212,7 | 1295,2 | 1336,2 | 1447,7 | 1489,6 | 1646,9 | 1691,9 | 1822,8 | 2013,1 |
| Input power | kW | 350,6 | 370,3 | 397,1 | 428,3 | 444,3 | 458,0 | 478,2 | 498,2 | 527,1 | 564,0 | 590,8 | 667,0 | 712,4 |
| Cooling total input current | A | 581,4 | 614,0 | 654,6 | 703,8 | 733,3 | 761,1 | 795,9 | 821,1 | 872,1 | 945,1 | 985,8 | 1100,0 | 1197,7 |
| EER | W/W | 2,82 | 2,90 | 2,82 | 2,70 | 2,73 | 2,83 | 2,79 | 2,91 | 2,83 | 2,92 | 2,86 | 2,73 | 2,83 |
| Water flow rate system side | l/h | 169873 | 184553 | 192278 | 198678 | 208362 | 222522 | 229577 | 248739 | 255936 | 282961 | 290686 | 313186 | 345875 |
| Pressure drop system side | kPa | 66 | 81 | 88 | 75 | 82 | 96 | 102 | 61 | 66 | 81 | 88 | 82 | 102 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 828,9 | 928,7 | 933,1 | 936,5 | 1033,8 | 1133,1 | 1137,4 | 1239,8 | 1243,9 | 1442,0 | 1446,8 | 1551,1 | 1752,4 |
| Input power | kW | 30,5 | 34,3 | 34,3 | 34,3 | 38,1 | 41,9 | 41,9 | 45,7 | 45,7 | 53,3 | 53,3 | 57,1 | 64,7 |
| Free cooling total input current | A | 61,4 | 69,1 | 69,1 | 69,1 | 76,8 | 84,5 | 84,5 | 92,1 | 92,1 | 107,5 | 107,5 | 115,2 | 130,5 |
| EER | W/W | 27,21 | 27,09 | 27,22 | 27,32 | 27,15 | 27,05 | 27,15 | 27,13 | 27,22 | 27,04 | 27,13 | 27,15 | 27,07 |
| Water flow rate system side | l/h | 171460 | 186150 | 194070 | 200780 | 210330 | 224450 | 231640 | 250990 | 258340 | 285350 | 293260 | 316150 | 348840 |
| Pressure drop system side | kPa | 117 | 130 | 141 | 131 | 134 | 146 | 155 | 108 | 117 | 130 | 141 | 134 | 155 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NSM - E

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 319,8 | 365,8 | 417,7 | 473,0 | 509,1 | 549,8 | 568,8 | 618,6 | 646,3 | 675,1 | 715,5 | 796,7 | 851,7 | 929,6 |
| Input power | kW | 105,5 | 123,3 | 137,5 | 159,4 | 178,3 | 183,3 | 195,5 | 205,2 | 220,4 | 235,9 | 253,5 | 270,8 | 297,1 | 320,1 |
| Cooling total input current | Α | 177,3 | 205,7 | 223,1 | 261,0 | 294,5 | 304,8 | 325,9 | 341,6 | 365,4 | 388,5 | 414,7 | 437,5 | 474,1 | 516,8 |
| EER | W/W | 3,03 | 2,97 | 3,04 | 2,97 | 2,85 | 3,00 | 2,91 | 3,01 | 2,93 | 2,86 | 2,82 | 2,94 | 2,87 | 2,90 |
| Water flow rate system side | l/h | 54946 | 62848 | 71763 | 81260 | 87462 | 94455 | 97732 | 106280 | 111041 | 115993 | 122937 | 136886 | 146332 | 159723 |
| Pressure drop system side | kPa | 33 | 37 | 32 | 37 | 43 | 50 | 54 | 53 | 58 | 64 | 64 | 43 | 49 | 60 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 308,8 | 317,5 | 389,9 | 399,1 | 403,2 | 476,4 | 479,1 | 552,1 | 556,5 | 560,4 | 564,7 | 643,3 | 648,3 | 727,0 |
| Input power | kW | 11,0 | 11,0 | 13,7 | 13,7 | 13,7 | 16,5 | 16,5 | 19,2 | 19,2 | 19,2 | 19,2 | 22,0 | 22,0 | 24,7 |
| Free cooling total input current | Α | 15,9 | 15,9 | 19,9 | 19,9 | 19,9 | 23,9 | 23,9 | 27,9 | 27,9 | 27,9 | 27,9 | 31,8 | 31,8 | 35,8 |
| EER | W/W | 28,07 | 28,87 | 28,36 | 29,03 | 29,33 | 28,88 | 29,04 | 28,69 | 28,91 | 29,11 | 29,34 | 29,25 | 29,47 | 29,38 |
| Water flow rate system side | l/h | 55010 | 62920 | 71840 | 81350 | 87560 | 94560 | 97840 | 106400 | 111160 | 116120 | 123070 | 137040 | 146490 | 159900 |
| Pressure drop system side | kPa | 56 | 67 | 56 | 68 | 78 | 80 | 85 | 82 | 90 | 98 | 102 | 77 | 88 | 97 |
| Model: P | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 316,7 | 363,1 | 414,5 | 469,5 | 504,1 | 545,4 | 564,0 | 613,8 | 640,8 | 669,8 | 710,9 | 790,6 | 843,5 | 921,3 |
| Input power | kW | 106,6 | 124,7 | 138,6 | 161,1 | 181,0 | 185,4 | 197,8 | 207,6 | 223,1 | 239,2 | 257,8 | 274,6 | 301,1 | 324,4 |
| Cooling total input current | Α | 177,3 | 205,7 | 223,1 | 261,0 | 294,5 | 304,8 | 325,9 | 341,6 | 365,4 | 388,5 | 414,7 | 437,5 | 474,1 | 516,8 |
| EER | W/W | 2,97 | 2,91 | 2,99 | 2,91 | 2,79 | 2,94 | 2,85 | 2,96 | 2,87 | 2,80 | 2,76 | 2,88 | 2,80 | 2,84 |
| Water flow rate system side | l/h | 54406 | 62391 | 71215 | 80666 | 86616 | 93710 | 96909 | 105464 | 110105 | 115087 | 122135 | 135840 | 144915 | 158291 |
| Pressure drop system side | kPa | 33 | 37 | 32 | 37 | 43 | 50 | 54 | 54 | 59 | 64 | 65 | 43 | 49 | 60 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328,8 | 338,7 | 415,7 | 425,8 | 429,8 | 508,2 | 511,0 | 589,0 | 593,7 | 597,7 | 602,1 | 686,0 | 690,6 | 774,8 |
| Input power | kW | 11,2 | 11,2 | 13,9 | 13,9 | 13,9 | 16,7 | 16,7 | 19,5 | 19,5 | 19,5 | 19,5 | 22,3 | 22,3 | 25,1 |
| Free cooling total input current | Α | 16,1 | 16,1 | 20,1 | 20,1 | 20,1 | 24,1 | 24,1 | 28,1 | 28,1 | 28,1 | 28,1 | 32,2 | 32,2 | 36,2 |
| EER | W/W | 29,48 | 30,36 | 29,81 | 30,53 | 30,82 | 30,37 | 30,54 | 30,17 | 30,41 | 30,62 | 30,84 | 30,75 | 30,95 | 30,87 |
| Water flow rate system side | l/h | 55010 | 62920 | 71840 | 81350 | 87560 | 94560 | 97840 | 106400 | 111160 | 116120 | 123070 | 137040 | 146490 | 159900 |
| Pressure drop system side | kPa | 57 | 67 | 57 | 68 | 78 | 80 | 86 | 83 | 90 | 98 | 103 | 77 | 88 | 98 |
| | | | | | | | | | | | | | | | |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NSM - E

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Model: F | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 995,2 | 1051,6 | 1137,0 | 1159,2 | 1217,3 | 1279,4 | 1341,6 | 1434,0 | 1499,6 | 1598,6 | 1684,0 | - | - |
| Input power | kW | 339,9 | 370,0 | 389,4 | 418,0 | 436,6 | 448,9 | 461,2 | 491,1 | 510,9 | 568,9 | 588,3 | - | - |
| Cooling total input current | Α | 554,8 | 601,5 | 631,6 | 677,8 | 708,4 | 731,9 | 755,4 | 803,9 | 832,3 | 923,9 | 945,4 | - | - |
| EER | W/W | 2,93 | 2,84 | 2,92 | 2,77 | 2,79 | 2,85 | 2,91 | 2,92 | 2,93 | 2,81 | 2,86 | - | - |
| Water flow rate system side | l/h | 170980 | 180685 | 195353 | 199172 | 209139 | 219823 | 230507 | 246385 | 257643 | 274665 | 289333 | - | - |
| Pressure drop system side | kPa | 68 | 79 | 73 | 76 | 67 | 72 | 82 | 60 | 68 | 79 | 73 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 804,0 | 809,4 | 888,6 | 890,5 | 967,2 | 1043,7 | 1119,7 | 1129,8 | 1206,8 | 1215,8 | 1295,1 | - | - |
| Input power | kW | 27,5 | 27,5 | 30,2 | 30,2 | 33,0 | 35,7 | 38,5 | 38,5 | 41,2 | 41,2 | 44,0 | - | - |
| Free cooling total input current | A | 39,8 | 39,8 | 43,8 | 43,8 | 47,8 | 51,7 | 55,7 | 55,7 | 59,7 | 59,7 | 63,7 | - | - |
| EER | W/W | 29,24 | 29,44 | 29,38 | 29,44 | 29,31 | 29,20 | 29,09 | 29,35 | 29,26 | 29,48 | 29,44 | - | - |
| Water flow rate system side | I/h | 171170 | 180890 | 195570 | 199390 | 209370 | 220070 | 230760 | 246660 | 257930 | 274970 | 289650 | - | - |
| Pressure drop system side | kPa | 104 | 119 | 113 | 117 | 107 | 110 | 119 | 97 | 104 | 119 | 113 | - | - |
| Model: P | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 987,5 | 1041,9 | 1127,1 | 1148,0 | 1206,7 | 1269,3 | 1332,0 | 1421,7 | 1487,9 | 1583,2 | 1668,4 | - | - |
| Input power | kW | 344,2 | 375,3 | 394,8 | 424,0 | 442,2 | 454,4 | 466,6 | 497,6 | 517,4 | 577,4 | 596,8 | - | - |
| Cooling total input current | Α | 554,8 | 601,5 | 631,6 | 677,8 | 708,4 | 731,9 | 755,4 | 803,9 | 832,3 | 923,9 | 945,4 | - | - |
| EER | W/W | 2,87 | 2,78 | 2,86 | 2,71 | 2,73 | 2,79 | 2,85 | 2,86 | 2,88 | 2,74 | 2,80 | - | - |
| Water flow rate system side | l/h | 169667 | 179011 | 193652 | 197235 | 207320 | 218083 | 228845 | 244269 | 255645 | 272005 | 286645 | - | - |
| Pressure drop system side | kPa | 69 | 80 | 74 | 76 | 68 | 72 | 82 | 60 | 69 | 80 | 74 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 857,5 | 862,4 | 947,1 | 948,8 | 1031,1 | 1113,1 | 1194,5 | 1204,3 | 1286,9 | 1295,0 | 1379,9 | - | - |
| Input power | kW | 27,9 | 27,9 | 30,7 | 30,7 | 33,5 | 36,3 | 39,0 | 39,0 | 41,8 | 41,8 | 44,6 | - | - |
| Free cooling total input current | A | 40,2 | 40,2 | 44,2 | 44,2 | 48,2 | 52,3 | 56,3 | 56,3 | 60,3 | 60,3 | 64,3 | - | - |
| EER | W/W | 30,74 | 30,92 | 30,87 | 30,92 | 30,81 | 30,70 | 30,59 | 30,84 | 30,76 | 30,95 | 30,92 | - | - |
| Water flow rate system side | I/h | 171170 | 180890 | 195570 | 199390 | 209370 | 220070 | 230760 | 246660 | 257930 | 274970 | 289650 | - | - |
| Pressure drop system side | kPa | 105 | 119 | 113 | 117 | 107 | 111 | 120 | 98 | 105 | 119 | 113 | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2 °C

NSM - U

| NSM - U | | | | | | | | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328,1 | 378,5 | 429,3 | 491,9 | 531,3 | 568,6 | 589,0 | 638,0 | 667,8 | 695,1 | 735,8 | 824,8 | 891,0 | 967,9 |
| Input power | kW | 105,3 | 121,3 | 136,2 | 155,8 | 172,9 | 180,0 | 191,0 | 202,4 | 216,1 | 228,4 | 242,4 | 263,0 | 288,2 | 311,5 |
| Cooling total input current | A | 185,8 | 211,5 | 232,0 | 266,3 | 297,1 | 312,9 | 332,3 | 352,6 | 374,2 | 392,3 | 413,0 | 442,7 | 477,2 | 522,6 |
| EER | W/W | 3,12 | 3,12 | 3,15 | 3,16 | 3,07 | 3,16 | 3,08 | 3,15 | 3,09 | 3,04 | 3,04 | 3,14 | 3,09 | 3,11 |
| Water flow rate system side | l/h | 56372 | 65027 | 73755 | 84508 | 91287 | 97691 | 101204 | 109611 | 114731 | 119418 | 126414 | 141715 | 153088 | 166304 |
| Pressure drop system side | kPa | 35 | 39 | 34 | 40 | 46 | 53 | 57 | 57 | 62 | 68 | 68 | 46 | 53 | 65 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 356,2 | 369,9 | 451,2 | 466,4 | 473,4 | 555,1 | 559,4 | 641,6 | 648,6 | 654,2 | 661,5 | 753,3 | 763,5 | 854,0 |
| Input power | kW | 15,0 | 15,0 | 18,7 | 18,7 | 18,7 | 22,5 | 22,5 | 26,2 | 26,2 | 26,2 | 26,2 | 30,0 | 30,0 | 33,7 |
| Free cooling total input current | A | 30,4 | 30,4 | 38,0 | 38,0 | 38,0 | 45,6 | 45,6 | 53,2 | 53,2 | 53,2 | 53,2 | 60,8 | 60,8 | 68,4 |
| EER | W/W | 23,76 | 24,67 | 24,07 | 24,88 | 25,26 | 24,68 | 24,87 | 24,45 | 24,71 | 24,93 | 25,21 | 25,12 | 25,46 | 25,31 |
| Water flow rate system side | l/h | 56430 | 65100 | 73840 | 84600 | 91390 | 97800 | 101320 | 109730 | 114860 | 119550 | 126550 | 141870 | 153260 | 166490 |
| Pressure drop system side | kPa | 59 | 71 | 60 | 73 | 85 | 85 | 92 | 88 | 96 | 104 | 108 | 82 | 96 | 105 |
| Model: P | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 326,9 | 376,7 | 427,6 | 488,8 | 527,6 | 565,4 | 585,6 | 634,6 | 664,0 | 691,7 | 732,5 | 820,3 | 884,7 | 961,8 |
| Input power | kW | 106,3 | 122,5 | 137,6 | 157,4 | 174,8 | 181,8 | 193,0 | 204,4 | 218,3 | 231,1 | 245,7 | 266,0 | 291,3 | 314,8 |
| Cooling total input current | А | 185,8 | 211,5 | 232,0 | 266,3 | 297,1 | 312,9 | 332,3 | 352,6 | 374,2 | 392,3 | 413,0 | 442,7 | 477,2 | 522,6 |
| EER | W/W | 3,08 | 3,07 | 3,11 | 3,10 | 3,02 | 3,11 | 3,03 | 3,10 | 3,04 | 2,99 | 2,98 | 3,08 | 3,04 | 3,06 |
| Water flow rate system side | l/h | 56168 | 64715 | 73458 | 83974 | 90642 | 97138 | 100613 | 109029 | 114089 | 118834 | 125850 | 140933 | 152002 | 165249 |
| Pressure drop system side | kPa | 35 | 40 | 34 | 40 | 47 | 54 | 58 | 57 | 63 | 68 | 69 | 46 | 54 | 65 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 381,5 | 396,7 | 483,5 | 500,0 | 507,4 | 595,1 | 599,9 | 687,8 | 695,4 | 701,6 | 709,4 | 807,7 | 818,0 | 915,4 |
| Input power | kW | 15,2 | 15,2 | 19,0 | 19,0 | 19,0 | 22,9 | 22,9 | 26,7 | 26,7 | 26,7 | 26,7 | 30,5 | 30,5 | 34,3 |
| Free cooling total input current | A | 30,7 | 30,7 | 38,4 | 38,4 | 38,4 | 46,1 | 46,1 | 53,7 | 53,7 | 53,7 | 53,7 | 61,4 | 61,4 | 69,1 |
| EER | W/W | 25,04 | 26,04 | 25,39 | 26,26 | 26,65 | 26,05 | 26,25 | 25,80 | 26,09 | 26,32 | 26,61 | 26,51 | 26,85 | 26,71 |
| Water flow rate system side | l/h | 56430 | 65100 | 73840 | 84600 | 91390 | 97800 | 101320 | 109730 | 114860 | 119550 | 126550 | 141870 | 153260 | 166490 |
| Pressure drop system side | kPa | 60 | 72 | 60 | 74 | 85 | 86 | 92 | 88 | 96 | 104 | 109 | 83 | 96 | 106 |
| | | | | | | | | | | | | | | | |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NSM - U

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Model: F | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1031,1 | 1095,0 | 1181,2 | 1208,8 | 1265,8 | 1326,2 | 1386,6 | 1491,1 | 1554,3 | 1666,6 | 1752,7 | - | - |
| Input power | kW | 332,0 | 358,4 | 379,0 | 405,3 | 426,4 | 440,0 | 453,5 | 478,4 | 498,9 | 549,8 | 570,4 | - | - |
| Cooling total input current | А | 564,1 | 604,8 | 638,6 | 681,5 | 718,3 | 746,0 | 773,7 | 811,6 | 846,2 | 926,2 | 954,2 | - | - |
| EER | W/W | 3,11 | 3,06 | 3,12 | 2,98 | 2,97 | 3,01 | 3,06 | 3,12 | 3,12 | 3,03 | 3,07 | - | - |
| Water flow rate system side | l/h | 177155 | 188137 | 202935 | 207692 | 217477 | 227858 | 238239 | 256194 | 267046 | 286336 | 301135 | - | - |
| Pressure drop system side | kPa | 74 | 86 | 79 | 83 | 73 | 77 | 87 | 64 | 74 | 86 | 79 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 941,7 | 951,8 | 1043,5 | 1047,6 | 1134,8 | 1221,6 | 1307,8 | 1326,2 | 1413,8 | 1431,0 | 1522,9 | - | - |
| Input power | kW | 37,5 | 37,5 | 41,2 | 41,2 | 45,0 | 48,7 | 52,5 | 52,5 | 56,2 | 56,2 | 60,0 | - | - |
| Free cooling total input current | A | 76,0 | 76,0 | 83,6 | 83,6 | 91,2 | 98,8 | 106,4 | 106,4 | 114,0 | 114,0 | 121,6 | - | - |
| EER | W/W | 25,12 | 25,39 | 25,30 | 25,40 | 25,22 | 25,07 | 24,92 | 25,27 | 25,14 | 25,45 | 25,39 | - | - |
| Water flow rate system side | l/h | 177350 | 188350 | 203160 | 207920 | 217720 | 228110 | 238500 | 256480 | 267340 | 286650 | 301470 | - | - |
| Pressure drop system side | kPa | 112 | 129 | 122 | 127 | 115 | 119 | 128 | 105 | 112 | 129 | 122 | - | - |
| Model: P | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1025,3 | 1088,1 | 1174,0 | 1200,9 | 1257,9 | 1318,5 | 1379,2 | 1482,0 | 1545,4 | 1655,7 | 1741,6 | - | - |
| Input power | kW | 335,5 | 362,4 | 383,1 | 409,7 | 430,7 | 444,3 | 457,9 | 483,4 | 504,1 | 556,1 | 576,8 | - | - |
| Cooling total input current | A | 564,1 | 604,8 | 638,6 | 681,5 | 718,3 | 746,0 | 773,7 | 811,6 | 846,2 | 926,2 | 954,2 | - | - |
| EER | W/W | 3,06 | 3,00 | 3,06 | 2,93 | 2,92 | 2,97 | 3,01 | 3,07 | 3,07 | 2,98 | 3,02 | - | - |
| Water flow rate system side | l/h | 176150 | 186945 | 201699 | 206322 | 216119 | 226541 | 236963 | 254617 | 265517 | 284475 | 299229 | - | - |
| Pressure drop system side | kPa | 74 | 86 | 79 | 83 | 73 | 78 | 88 | 65 | 74 | 86 | 80 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1009,7 | 1020,0 | 1118,5 | 1122,6 | 1216,5 | 1309,9 | 1402,4 | 1421,6 | 1515,9 | 1533,4 | 1632,1 | - | - |
| Input power | kW | 38,1 | 38,1 | 41,9 | 41,9 | 45,7 | 49,5 | 53,3 | 53,3 | 57,1 | 57,1 | 60,9 | - | - |
| Free cooling total input current | A | 76,8 | 76,8 | 84,5 | 84,5 | 92,1 | 99,8 | 107,5 | 107,5 | 115,2 | 115,2 | 122,8 | - | - |
| EER | W/W | 26,51 | 26,78 | 26,70 | 26,80 | 26,62 | 26,46 | 26,30 | 26,66 | 26,54 | 26,84 | 26,78 | - | - |
| Water flow rate system side | l/h | 177350 | 188350 | 203160 | 207920 | 217720 | 228110 | 238500 | 256480 | 267340 | 286650 | 301470 | - | - |
| Pressure drop system side | kPa | 113 | 129 | 122 | 128 | 116 | 119 | 128 | 106 | 113 | 130 | 123 | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2 °C

NSM - N

| 143141 - 14 | | | | | | | | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 326,0 | 376,5 | 424,5 | 486,3 | 525,3 | 559,6 | 579,7 | 626,1 | 655,1 | 682,6 | 723,4 | 811,7 | 888,8 | 960,7 |
| Input power | kW | 103,6 | 119,3 | 134,4 | 153,8 | 170,9 | 178,3 | 189,4 | 200,8 | 214,8 | 227,9 | 242,9 | 263,8 | 283,0 | 307,1 |
| Cooling total input current | Α | 174,8 | 199,9 | 218,4 | 252,6 | 283,3 | 297,4 | 316,9 | 335,2 | 357,1 | 376,5 | 398,7 | 426,6 | 452,0 | 496,6 |
| EER | W/W | 3,15 | 3,16 | 3,16 | 3,16 | 3,07 | 3,14 | 3,06 | 3,12 | 3,05 | 3,00 | 2,98 | 3,08 | 3,14 | 3,13 |
| Water flow rate system side | l/h | 56017 | 64687 | 72926 | 83554 | 90260 | 96150 | 99597 | 107568 | 112546 | 117285 | 124287 | 139460 | 152703 | 165051 |
| Pressure drop system side | kPa | 34 | 39 | 33 | 39 | 45 | 52 | 55 | 55 | 60 | 65 | 66 | 44 | 53 | 64 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 365,1 | 381,0 | 449,3 | 465,6 | 473,2 | 541,5 | 545,8 | 615,7 | 622,3 | 627,8 | 634,7 | 713,7 | 791,0 | 867,2 |
| Input power | kW | 13,7 | 13,7 | 16,5 | 16,5 | 16,5 | 19,2 | 19,2 | 22,0 | 22,0 | 22,0 | 22,0 | 24,7 | 27,5 | 30,2 |
| Free cooling total input current | A | 19,9 | 19,9 | 23,9 | 23,9 | 23,9 | 27,9 | 27,9 | 31,8 | 31,8 | 31,8 | 31,8 | 35,8 | 39,8 | 43,8 |
| EER | W/W | 26,56 | 27,71 | 27,24 | 28,22 | 28,69 | 28,13 | 28,36 | 27,99 | 28,29 | 28,54 | 28,86 | 28,84 | 28,77 | 28,67 |
| Water flow rate system side | l/h | 56080 | 64760 | 73010 | 83650 | 90360 | 96260 | 99710 | 107690 | 112670 | 117420 | 124420 | 139610 | 152870 | 165230 |
| Pressure drop system side | kPa | 51 | 61 | 51 | 63 | 73 | 76 | 82 | 79 | 87 | 94 | 98 | 74 | 83 | 93 |
| Model: P | _ | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 325,1 | 375,2 | 422,9 | 483,6 | 522,0 | 556,8 | 576,7 | 623,1 | 651,8 | 679,6 | 720,3 | 807,0 | 882,8 | 955,1 |
| Input power | kW | 104,5 | 120,4 | 135,6 | 155,5 | 172,9 | 180,2 | 191,5 | 202,9 | 217,2 | 230,8 | 246,4 | 267,1 | 286,2 | 310,3 |
| Cooling total input current | Α | 174,8 | 199,9 | 218,4 | 252,6 | 283,3 | 297,4 | 316,9 | 335,2 | 357,1 | 376,5 | 398,7 | 426,6 | 452,0 | 496,6 |
| EER | W/W | 3,11 | 3,12 | 3,12 | 3,11 | 3,02 | 3,09 | 3,01 | 3,07 | 3,00 | 2,94 | 2,92 | 3,02 | 3,09 | 3,08 |
| Water flow rate system side | l/h | 55859 | 64457 | 72661 | 83082 | 89692 | 95662 | 99076 | 107055 | 111979 | 116764 | 123749 | 138653 | 151682 | 164102 |
| Pressure drop system side | kPa | 35 | 39 | 33 | 39 | 46 | 52 | 56 | 55 | 61 | 66 | 67 | 45 | 54 | 64 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 387,5 | 406,1 | 478,1 | 496,6 | 505,0 | 577,5 | 582,4 | 656,5 | 663,9 | 670,1 | 677,6 | 761,7 | 844,0 | 925,5 |
| Input power | kW | 13,9 | 13,9 | 16,7 | 16,7 | 16,7 | 19,5 | 19,5 | 22,3 | 22,3 | 22,3 | 22,3 | 25,1 | 27,9 | 30,7 |
| Free cooling total input current | A | 20,1 | 20,1 | 24,1 | 24,1 | 24,1 | 28,1 | 28,1 | 32,2 | 32,2 | 32,2 | 32,2 | 36,2 | 40,2 | 44,2 |
| EER | W/W | 27,79 | 29,12 | 28,57 | 29,68 | 30,18 | 29,58 | 29,83 | 29,42 | 29,75 | 30,03 | 30,37 | 30,35 | 30,26 | 30,16 |
| Water flow rate system side | l/h | 56080 | 64760 | 73010 | 83650 | 90360 | 96260 | 99710 | 107690 | 112670 | 117420 | 124420 | 139610 | 152870 | 165230 |
| Pressure drop system side | kPa | 52 | 62 | 52 | 64 | 74 | 77 | 82 | 80 | 87 | 94 | 99 | 75 | 83 | 94 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

NSM - N

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| Model: F | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1004,9 | 1098,6 | 1161,7 | 1218,0 | 1274,5 | 1318,1 | 1361,6 | 1478,4 | - | - | - | - | - |
| Input power | kW | 332,9 | 349,5 | 369,2 | 392,7 | 416,2 | 433,5 | 450,9 | 472,0 | - | - | - | - | - |
| Cooling total input current | Α | 544,1 | 569,7 | 600,1 | 638,5 | 677,0 | 708,3 | 739,7 | 770,6 | - | - | - | - | - |
| EER | W/W | 3,02 | 3,14 | 3,15 | 3,10 | 3,06 | 3,04 | 3,02 | 3,13 | - | - | - | - | - |
| Water flow rate system side | l/h | 172652 | 188754 | 199587 | 209274 | 218966 | 226457 | 233947 | 254013 | - | - | - | - | - |
| Pressure drop system side | kPa | 70 | 71 | 84 | 88 | 74 | 78 | 85 | 64 | - | - | - | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 874,3 | 1018,1 | 1092,1 | 1164,5 | 1236,6 | 1246,2 | 1254,9 | 1339,1 | - | - | - | - | - |
| Input power | kW | 30,2 | 35,7 | 38,5 | 41,2 | 44,0 | 44,0 | 44,0 | 46,7 | - | - | - | - | - |
| Free cooling total input current | Α | 43,8 | 51,7 | 55,7 | 59,7 | 63,7 | 63,7 | 63,7 | 67,7 | - | - | - | - | - |
| EER | W/W | 28,91 | 28,48 | 28,37 | 28,24 | 28,11 | 28,33 | 28,52 | 28,65 | - | - | - | - | - |
| Water flow rate system side | l/h | 172840 | 188960 | 199810 | 209510 | 219210 | 226710 | 234210 | 254300 | - | - | - | - | - |
| Pressure drop system side | kPa | 102 | 100 | 114 | 117 | 103 | 109 | 118 | 93 | - | - | - | - | - |
| Model: P | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 998,8 | 1092,7 | 1155,6 | 1211,7 | 1267,7 | 1310,9 | 1354,2 | 1470,0 | - | - | - | - | - |
| Input power | kW | 336,7 | 353,2 | 373,0 | 396,5 | 420,0 | 437,6 | 455,3 | 476,9 | - | - | - | - | - |
| Cooling total input current | Α | 544,1 | 569,7 | 600,1 | 638,5 | 677,0 | 708,3 | 739,7 | 770,6 | - | - | - | - | - |
| EER | W/W | 2,97 | 3,09 | 3,10 | 3,06 | 3,02 | 3,00 | 2,97 | 3,08 | - | - | - | - | - |
| Water flow rate system side | I/h | 171604 | 187733 | 198553 | 208183 | 217806 | 225235 | 232663 | 252555 | - | - | - | - | - |
| Pressure drop system side | kPa | 70 | 71 | 85 | 89 | 75 | 78 | 85 | 64 | - | - | - | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 933,0 | 1086,4 | 1165,3 | 1242,2 | 1318,7 | 1329,5 | 1339,1 | 1429,1 | - | - | - | - | - |
| Input power | kW | 30,7 | 36,3 | 39,0 | 41,8 | 44,6 | 44,6 | 44,6 | 47,4 | - | - | - | - | - |
| Free cooling total input current | Α | 44,2 | 52,3 | 56,3 | 60,3 | 64,3 | 64,3 | 64,3 | 68,3 | - | - | - | - | - |
| EER | W/W | 30,41 | 29,96 | 29,84 | 29,69 | 29,55 | 29,79 | 30,01 | 30,14 | - | - | - | - | - |
| Water flow rate system side | l/h | 172840 | 188960 | 199810 | 209510 | 219210 | 226710 | 234210 | 254300 | - | - | - | - | - |
| Pressure drop system side | kPa | 102 | 101 | 114 | 118 | 104 | 109 | 118 | 94 | - | - | - | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/* °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| ENERGY INDICES (RE | :G. 2016/22 | 81 EU) | | | | | | | | | | | | | | |
|---|--------------------------|------------------|--|--|--|--|--|---|---|---|--|--|--|---|--------------------------------|--------------------------------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: F | avatuva with stands | and fone (1) | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temp | erature with standa A | W/W | 7,41 | 7,05 | 6,65 | 6,29 | 6,78 | 6,52 | 6,34 | 6,73 | 6,56 | 6,31 | 6,10 | 6,55 | 6,32 | 6,50 |
| | E | W/W | 7,41 | 6,77 | 7,10 | 6,65 | 6,30 | 6,89 | 6,59 | 6,81 | 6,69 | 6,42 | 6,09 | 6,28 | 6,23 | 6,44 |
| SEPR | L | W/W | 7,68 | 7,36 | 7,10 | 7,20 | 6,78 | 7,10 | 6,94 | 7,15 | 6,90 | 6,67 | 6,45 | 6,78 | 6,94 | 6,93 |
| | <u></u> | W/W | 7,50 | 7,13 | 7,47 | 7,13 | 6,79 | 7,10 | 6,97 | 7,13 | 7,03 | 6,82 | 6,62 | 6,97 | 6,75 | 6,86 |
| SEPR - (EN14825: 2018) High temp | | | 7,50 | 7,13 | 1,11 | 7,13 | 0,17 | 1,22 | 0,71 | 7,20 | 1,03 | 0,02 | 0,02 | 0,71 | 0,73 | 0,00 |
| (| Α | W/W | 7,41 | 7,05 | 6,65 | 6,29 | 6,78 | 6,52 | 6,34 | 6,73 | 6,56 | 6,31 | 6,10 | 6,55 | 6,32 | 6,50 |
| | E | W/W | 7,22 | 6,77 | 7,10 | 6,65 | 6,30 | 6,89 | 6,59 | 6,81 | 6,69 | 6,42 | 6,09 | 6,28 | 6,23 | 6,44 |
| SEPR | N | W/W | 7,68 | 7,36 | 7,56 | 7,20 | 6,78 | 7,10 | 6,94 | 7,15 | 6,90 | 6,67 | 6,45 | 6,78 | 6,94 | 6,93 |
| | U | W/W | 7,50 | 7,13 | 7,47 | 7,13 | 6,79 | 7,22 | 6,97 | 7,28 | 7,03 | 6,82 | 6,62 | 6,97 | 6,75 | 6,86 |
| Model: P | | | , | , - | | | , | | | , | , | -,- | .,. | | -, - | ., |
| SEPR - (EN14825: 2018) High temp | erature with standa | ard fans (1) | | | | | | | | | | | | | | |
| | A | W/W | 7,38 | 7,12 | 6,67 | 6,25 | 6,79 | 6,49 | 6,27 | 6,71 | 6,49 | 6,23 | 5,99 | 6,51 | 6,26 | 6,44 |
| CEDD | E | W/W | 7,25 | 6,73 | 7,15 | 6,60 | 6,20 | 6,83 | 6,51 | 6,84 | 6,61 | 6,31 | 5,99 | 6,46 | 6,22 | 6,34 |
| SEPR | N | W/W | 7,71 | 7,39 | 7,62 | 7,22 | 6,83 | 7,18 | 6,91 | 7,16 | 6,88 | 6,63 | 6,39 | 6,75 | 6,90 | 6,88 |
| | U | W/W | 7,57 | 7,17 | 7,56 | 7,16 | 6,77 | 7,23 | 6,97 | 7,30 | 7,02 | 6,78 | 6,56 | 6,97 | 6,71 | 6,81 |
| SEPR - (EN14825: 2018) High temp | erature with invert | er fans (1) | | | | | | | | | | | | | | |
| | A | W/W | 7,38 | 7,12 | 6,67 | 6,25 | 6,79 | 6,49 | 6,27 | 6,71 | 6,49 | 6,23 | 5,99 | 6,51 | 6,26 | 6,44 |
| SEPR | E | W/W | 7,25 | 6,73 | 7,15 | 6,60 | 6,20 | 6,83 | 6,51 | 6,84 | 6,61 | 6,31 | 5,99 | 6,46 | 6,22 | 6,34 |
| JEFN | N | W/W | 7,71 | 7,39 | 7,62 | 7,22 | 6,83 | 7,18 | 6,91 | 7,16 | 6,88 | 6,63 | 6,39 | 6,75 | 6,90 | 6,88 |
| | U | W/W | 7,57 | 7,17 | 7,56 | 7,16 | 6,77 | 7,23 | 6,97 | 7,30 | 7,02 | 6,78 | 6,56 | 6,97 | 6,71 | 6,81 |
| (1) Calculation performed with FIXED | water flow rate. | | | | | | | | | | | | | | | |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Model: F | | | | | | | | | | | | | | | | |
| Energy index | | | | | | | | | | | | | | | | |
| | A | W/W | 6,16 | 6,38 | 6,15 | 5,85 | 6,01 | 6,2 | 21 | 6,10 | 6,58 | 6,36 | 6,67 | 6,49 | 6,16 | 6,41 |
| CEDD | E | W/W | 6,50 | 6,19 | 6,41 | 5,96 | 6,00 | 6,1 | 6 | 6,47 | 6,70 | 6,81 | 6,19 | 6,44 | - | - |
| SEPR | N | W/W | 6,63 | 6,78 | 6,89 | 7,00 | 6,93 | 6,7 | 1 | 6,69 | 7,26 | - | - | - | - | - |
| | U | W/W | 6,90 | 6,51 | 6,82 | 6,49 | 6,51 | 6,6 | i6 | 6,80 | 7,14 | 7,19 | 6,84 | 6,97 | - | - |
| Model: P | | | | | | | | | | | | | | | | |
| Energy index | | | | | | | | | | | | | | | | |
| | A | W/W | 6,07 | 6,28 | 6,03 | 5,73 | 5,92 | 6,1 | 1 | 5,98 | 6,54 | 6,30 | 6,61 | 6,42 | 6,10 | 6,34 |
| SEPR | E | W/W | 6,41 | 6,06 | 6,29 | 5,84 | 5,92 | 6,0 | 18 | 6,37 | 6,64 | 6,76 | 6,09 | 6,34 | - | - |
| JLI II | N | W/W | 6,57 | 6,90 | 6,84 | 6,96 | 6,92 | 6,7 | '8 | 6,65 | 7,23 | - | - | - | - | - |
| | U | W/W | 6,86 | 6,60 | 6,76 | 6,42 | 6,48 | 6,6 | i3 | 6,77 | 7,12 | 7,16 | 6,80 | 6,93 | - | - |
| | | | | | | | | | | | | | | | | |
| ELECTRIC DATA | | | | | | | | | | | | | | | | |
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Electric data | | | | | | | | | | | | | | | | |
| | A | А | 243,9 | 271,9 | 299,1 | 332,5 | 374,4 | 395,7 | 417,0 | 450,2 | 474,9 | 474,9 | 474,9 | 531,4 | 579,4 | 635,9 |
| Maximum current (FLA) | E,U | Α | 243,9 | 271,9 | 307,6 | 341,0 | 374,4 | 404,2 | 425,5 | 458,7 | 483,4 | 483,4 | 483,4 | 539,9 | 587,9 | 644,4 |
| | N | Α | 252,4 | 280,4 | 316,1 | 349,5 | 382,9 | 412,7 | 434,0 | 467,2 | 491,9 | 491,9 | 491,9 | 548,4 | 604,9 | 667,2 |
| | | | | | | 388,2 | 419,8 | 466,8 | 484,0 | 519,5 | | 529,4 | 529,4 | 661,9 | 701,8 | 831,3 |
| | A | A | 265,5 | 307,3 | 350,2 | J00,2 | - , | | | | | | | | | 839,8 |
| Peak current (LRA) | A E,U | A A | 265,5 265,5 | 307,3 307,3 | 350,2 358,7 | 396,7 | 419,8 | 475,3 | 492,5 | 528,0 | 537,9 | 537,9 | 537,9 | 670,4 | 710,3 | 037,0 |
| Peak current (LRA) | | | | | | | | 475,3 483,8 | 492,5 501,0 | 528,0 536,5 | | | 537,9 546,4 | | 710,3 727,3 | 862,6 |
| | E,U | А | 265,5 274,0 | 307,3 315,8 | 358,7 367,2 | 396,7 405,2 | 419,8 428,3 | 483,8 | 501,0 | 536,5 | 546,4 | 546,4 | 546,4 | 670,4 678,9 | 727,3 | 862,6 |
| Peak current (LRA) Size Flectric data | E,U | А | 265,5 | 307,3 | 358,7 | 396,7 | 419,8 | 483,8 | 501,0 | | | | | 670,4 | | |
| | E,U N | A A | 265,5 274,0 4202 | 307,3 315,8 4502 | 358,7 367,2 4802 | 396,7 405,2 5202 | 419,8 428,3 5602 | 483,8 600 | 501,0 D2 | 536,5 6402 | 546,4 6503 | 546,4 6703 | 546,4 6903 | 670,4 678,9 7203 | 727,3 8403 | 862,6 9603 |
| Size Electric data | E,U N | A A | 265,5 274,0 4202 683,9 | 307,3 315,8 4502 731,4 | 358,7 367,2 4802 770,4 | 396,7 405,2 5202 813,4 | 419,8 428,3 5602 864,9 | 483,8 600 913 | 501,0 | 536,5 6402 947,2 | 546,4 6503 980,7 | 546,4 6703 1028,7 | 546,4 6903 1123,7 | 670,4 678,9 7203 1162,7 | 727,3 8403 1300,2 | 862,6 |
| Size | E,U N | A A A | 265,5 274,0 4202 683,9 700,9 | 307,3 315,8 4502 731,4 739,9 | 358,7 367,2 4802 770,4 793,2 | 396,7 405,2 5202 813,4 836,2 | 419,8 428,3 5602 864,9 887,7 | 483,8 600 913 930 | 501,0 02 ,2 | 536,5 6 402 947,2 972,7 | 546,4 6503 980,7 997,7 | 546,4 6703 1028,7 1054,2 | 546,4 6903 1123,7 1132,2 | 670,4 678,9 7203 1162,7 1179,7 | 727,3 8403 1300,2 | 862,6 9603 1419,2 |
| Size Electric data | A E,U | A A A A | 265,5 274,0 4202 683,9 700,9 715,2 | 307,3 315,8 4502 731,4 739,9 771,2 | 358,7 367,2 4802 770,4 793,2 818,7 | 396,7 405,2 5202 813,4 836,2 870,2 | 419,8 428,3 5602 864,9 887,7 921,7 | 483,8 600 913 930 955 | 501,0 02 1,2 1,2 | 536,5 6402 947,2 972,7 989,7 | 546,4 6503 980,7 997,7 1023,2 | 546,4 6703 1028,7 1054,2 | 546,4 6903 1123,7 1132,2 | 670,4 678,9 7203 1162,7 1179,7 | 727,3 8403 1300,2 | 862,6 9603 1419,2 |
| Size Electric data | E,U N | A A A | 265,5 274,0 4202 683,9 700,9 | 307,3 315,8 4502 731,4 739,9 | 358,7 367,2 4802 770,4 793,2 | 396,7 405,2 5202 813,4 836,2 | 419,8 428,3 5602 864,9 887,7 921,7 1163,9 | 483,8 600 913 930 955 9 1290 | 501,0 02 0,2 1,2 1,7 1,7 1,0,2 1,0,2 1,0,2 1,0,2 1,0,1 | 536,5 6402 947,2 972,7 989,7 287,2 | 546,4 6503 980,7 997,7 | 546,4 6703 1028,7 1054,2 | 546,4 6903 1123,7 1132,2 | 670,4 678,9 7203 1162,7 1179,7 | 727,3 8403 1300,2 | 862,6 9603 1419,2 |

GENERAL TECHNICAL DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|--|---------------------------------------|--|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------|---|---|-------------------|----------------|----------------|----------------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Sci | rew | | | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | | | 0n- | -Off | | | | | | |
| Number | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | | | R1. | 34a | | | | | | |
| | A | kg | 64,0 | 64,0 | 64,0 | 64,0 | 80,0 | 80,0 | 80,0 | 96,0 | 96,0 | 101,0 | 106,0 | 117,0 | 112,0 | 128,0 |
| Refrigerant charge (1) | E,U | kg | 64,0 | 64,0 | 80,0 | 80,0 | 80,0 | 96,0 | 96,0 | 112,0 | 112,0 | 117,0 | 122,0 | 133,0 | 128,0 | 144,0 |
| | N | kg | 80,0 | 80,0 | 96,0 | 96,0 | 96,0 | 112,0 | 112,0 | 128,0 | 128,0 | 133,0 | 138,0 | 149,0 | 160,0 | 176,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Shell a | nd tube | | | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Туре | | | | | | | Groove | d joints | | | | | | |
| (1) The load indicated in the table is | an estimated and prelin | ninary valu | ralue. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office. | | | | | | | | | | | | | |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 | 02 64 | 102 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Compressor | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Sc | rew | | | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | | | 0n | -Off | | | | | | |
| | A | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | - | - | - | - | - |
| | A | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Circuits | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 3 | 3 | 3 | - | - |
| | | | | | ٦. | | | | 1 | 2 | 3 | - | - | - | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | |
| Refrigerant | N A,E,N,U | no. type | 2 | 2 | | 2 | | | | 34a | | | | | | |
| Refrigerant | | | 128,0 | 144,0 | 144,0 | 144,0 | 160,0 | | R1 | 34a | 192,0 | 192,0 | 224,0 | 224,0 | 240,0 | 272,0 |
| Refrigerant Refrigerant charge (1) | A,E,N,U | type | | | | | |) 176 | R1 5,0 17 | 34a '6,0 | | 192,0 240,0 | 224,0 240,0 | 224,0 256,0 | 240,0 | 272,0 |
| | A,E,N,U A | type kg | 128,0 | 144,0 | 144,0 | 144,0 | 160,0 | 176 | R1 5,0 17 3,0 22 | 34a '6,0 '4,0 | | | | | | |
| | A,E,N,U A E,U | type kg kg | 128,0 160,0 | 144,0 160,0 | 144,0 176,0 | 144,0 176,0 | 160,0 192,0 | 176 | R1 5,0 17 3,0 22 | 34a '6,0 '4,0 | 224,0 | 240,0 | 240,0 | 256,0 | - | - |
| Refrigerant charge (1) | A,E,N,U A E,U | type kg kg | 128,0 160,0 | 144,0 160,0 | 144,0 176,0 | 144,0 176,0 | 160,0 192,0 | 176 | R1 5,0 17 8,0 22 5,0 25 | 34a '6,0 '4,0 | 224,0 | 240,0 | 240,0 | 256,0 | - | - |
| Refrigerant charge (1) System side heat exchanger | A,E,N,U A E,U N | type kg kg kg | 128,0 160,0 | 144,0 160,0 | 144,0 176,0 | 144,0 176,0 | 160,0 192,0 | 176 | R1 5,0 17 8,0 22 5,0 25 | 34a (6,0 (4,0 | 224,0 | 240,0 | 240,0 | 256,0 | - | - |
| Refrigerant charge (1) System side heat exchanger | A,E,N,U A E,U N | type kg kg kg | 128,0 160,0 176,0 | 144,0 160,0 208,0 | 144,0 176,0 224,0 | 144,0 176,0 | 160,0 192,0 256,0 |) 176) 208) 256 | R1 5,0 17 8,0 22 5,0 25 | 34a (6,0 (4,0 | 224,0 272,0 | 240,0 | 240,0 | 256,0 | - | - |
| Refrigerant charge (1) System side heat exchanger Type | A,E,N,U A E,U N A,E,N,U A | type kg kg kg type no. | 128,0 160,0 176,0 | 144,0 160,0 208,0 | 144,0 176,0 224,0 | 144,0 176,0 240,0 | 160,0 192,0 256,0 |) 176) 208) 256 | R1 5,0 17 8,0 22 5,0 25 Shell a | 34a 6,0 4,0 66,0 nd tube | 224,0 | 240,0 | 240,0 | 256,0 | 2 | 2 |
| Refrigerant charge (1) System side heat exchanger Type | A,E,N,U A E,U N A,E,N,U A | type kg kg kg type no. | 128,0 160,0 176,0 | 144,0 160,0 208,0 | 144,0 176,0 224,0 | 144,0 176,0 240,0 | 160,0 192,0 256,0 | 1 176 208 0 256 1 2 | R1 5,0 17 8,0 22 5,0 25 Shell a | 34a (6,0 (4,0 (6,0) and tube 1 | 224,0 272,0 2 2 2 | 240,0 | 240,0 | 256,0 | 2 | 2 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

${\sf G.s.} = {\sf Grooved\ joints}$

SOUND DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|---|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | | |
| _ | Α | dB(A) | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,7 | 99,7 | 99,7 | 99,7 | 100,4 | 100,4 | 101,1 |
| Cound nowar lovel | E | dB(A) | 91,0 | 91,0 | 91,7 | 91,9 | 92,1 | 92,6 | 92,5 | 93,0 | 93,0 | 93,0 | 93,0 | 93,7 | 93,9 | 94,6 |
| Sound power level — | N | dB(A) | 91,7 | 91,7 | 92,3 | 92,5 | 92,6 | 93,1 | 93,0 | 93,5 | 93,5 | 93,5 | 93,5 | 94,1 | 94,6 | 95,2 |
| | U | dB(A) | 98,0 | 98,0 | 98,9 | 99,0 | 99,0 | 99,7 | 99,7 | 100,4 | 100,4 | 100,4 | 100,4 | 100,9 | 101,0 | 101,5 |
| | Α | dB(A) | 65,6 | 65,6 | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,1 | 67,1 | 67,6 | 67,7 | 68,2 |
| Cound proceure loyal (10 m) | Е | dB(A) | 58,6 | 58,6 | 59,2 | 59,4 | 59,5 | 59,9 | 59,9 | 60,3 | 60,3 | 60,3 | 60,3 | 60,8 | 61,0 | 61,6 |
| Sound pressure level (10 m) — | N | dB(A) | 59,2 | 59,2 | 59,7 | 59,9 | 60,0 | 60,3 | 60,3 | 60,6 | 60,6 | 60,6 | 60,6 | 61,1 | 61,5 | 62,0 |
| | U | dB(A) | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,6 | 67,6 | 67,6 | 67,6 | 68,1 | 68,1 | 68,5 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

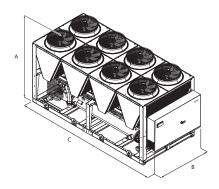
| 41 | | | | | | | | | 4400 | | 4500 | | | | |
|--|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Sound data calculated in cooling mode (1 | 1) | | | | | | | | | | | | | | |
| | Α | dB(A) | 101,1 | 101,6 | 101,6 | 101,6 | 102,1 | 102,5 | 102,5 | 102,7 | 102,8 | 103,4 | 103,4 | 103,7 | 104,2 |
| Cound nowar lovel | E | dB(A) | 95,2 | 95,2 | 95,4 | 95,6 | 96,0 | 96,2 | 96,4 | 96,0 | 96,5 | 96,4 | 96,6 | - | - |
| Sound power level | N | dB(A) | 95,5 | 96,0 | 96,2 | 96,6 | 96,9 | 96,9 | 96,9 | 96,7 | - | - | - | - | - |
| | U | dB(A) | 102,0 | 102,0 | 102,4 | 102,4 | 102,8 | 103,1 | 103,4 | 103,4 | 103,7 | 103,7 | 103,9 | - | - |
| | Α | dB(A) | 68,2 | 68,6 | 68,6 | 68,6 | 69,0 | 69,2 | 69,2 | 69,4 | 69,4 | 69,8 | 69,8 | 70,0 | 70,4 |
| Cound proceure level (10 m) | E | dB(A) | 62,1 | 62,0 | 62,2 | 62,3 | 62,7 | 62,8 | 62,9 | 62,5 | 62,8 | 62,8 | 62,8 | - | - |
| Sound pressure level (10 m) | N | dB(A) | 62,3 | 62,5 | 62,6 | 62,9 | 63,1 | 63,1 | 63,1 | 62,8 | - | - | - | - | - |
| | U | dB(A) | 68,9 | 68,9 | 69,1 | 69,2 | 69,5 | 69,7 | 69,9 | 69,8 | 70,0 | 70,0 | 70,2 | - | - |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

FANS DATA

| FANS DATA | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|---|---|---|--|--|--|--|---|--|--|--|---|--|---|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: F | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| | A | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 16 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 | 22 |
| | A | m³/h | 116000 | 116000 | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 174000 | 174000 | 203000 | 203000 | 232000 |
| Air flow rate | E | m³/h | 89600 | 89600 | 112000 | 112000 | 112000 | 134400 | 134400 | 156800 | 156800 | 156800 | 156800 | 179200 | 179200 | 201600 |
| All How rate | N | m³/h | 112000 | 112000 | 134400 | 134400 | 134400 | 156800 | 156800 | 179200 | 179200 | 179200 | 179200 | 201600 | 224000 | 246400 |
| | U | m³/h | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 203000 | 203000 | 203000 | 203000 | 232000 | 232000 | 261000 |
| Model: P | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| | A | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 16 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 | 22 |
| | A | m³/h | 109600 | 109600 | 109600 | 109600 | 137000 | 137000 | 137000 | 164400 | 164400 | 164400 | 164400 | 191800 | 191800 | 219200 |
| | E | m³/h | 85600 | 85600 | 107000 | 107000 | 107000 | 128400 | 128400 | 149800 | 149800 | 149800 | 149800 | 171200 | 171200 | 192600 |
| Air flow rate | N | m³/h | 107000 | 107000 | 128400 | 128400 | 128400 | 149800 | 149800 | 171200 | 171200 | 171200 | 171200 | 192600 | 214000 | 235400 |
| | U | m³/h | 109600 | 109600 | 137000 | 137000 | 137000 | 164400 | 164400 | 191800 | 191800 | 191800 | 191800 | 219200 | 219200 | 246600 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 2 560 | 2 60 | 02 6 | 102 6 | 503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Model: F | | | | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | Axial | Axial | Axial | Axial | l Axia | al Ax | ial A | xial / | xial | Axial | Axial | Axial | Axial | Axial |
| .,,,,, | A | no. | 16 | 18 | 18 | 18 | 20 | | | 22 | 24 | 24 | 28 | 28 | 30 | 34 |
| Number | | no. | 20 | 20 | | | 20 | _ | | | 41 | 41 | 20 | 20 | | J. |
| Number | N | 110. | | |)) | 22 | 74 | 2 | 6 | 28 | 28 | 30 | 30 | 32 | _ | _ |
| | | no | 22 | | 22 | 22 30 | 24 32 | | | 28 32 | 28 34 | 30 | 30 | 32 | - | - |
| | | no. m ³ /h | 22 | 26 | 28 | 30 | 32 | 3. | 2 | 32 | 34 | - | - | - | - | - |
| | A | m³/h | 232000 | 26 261000 | 28 261000 | 30 26100 | 32 00 29000 | 3.00 319 | 2 | 32 9000 34 | 34 8000 3 | 48000 | - 406000 | 406000 | 435000 | 493000 |
| Air flow rate | A E | m³/h m³/h | 232000 224000 | 26 261000 224000 | 28 261000 246400 | 30) 26100) 24640 | 32 00 29000 00 26880 | 3: 00 319 00 291: | 2 000 31 200 31 | 32 9000 34 3600 31 | 34 8000 3 3600 3 | 48000 36000 | - 406000 336000 | - 406000 358400 | 435000 | - 493000 - |
| Air flow rate | A E N | m ³ /h m ³ /h m ³ /h | 232000 224000 246400 | 26 261000 224000 291200 | 28 261000 246400 313600 | 30 26100 24640 33600 | 32 00 29000 00 26880 00 35840 | 3. 00 319 00 291 00 358 | 2 000 31 200 31 400 35 | 32 9000 34 3600 31 8400 38 | 34 8000 3 3600 3 | - 48000 36000 | - 406000 336000 - | - 406000 358400 - | 435000 | - 493000 - - |
| | A E | m³/h m³/h | 232000 224000 | 26 261000 224000 | 28 261000 246400 | 30 26100 24640 33600 | 32 00 29000 00 26880 00 35840 | 3. 00 319 00 291 00 358 | 2 000 31 200 31 400 35 | 32 9000 34 3600 31 8400 38 | 34 8000 3 3600 3 | - 48000 36000 | - 406000 336000 | - 406000 358400 | 435000 | - 493000 - |
| Model: P | A E N | m ³ /h m ³ /h m ³ /h | 232000 224000 246400 | 26 261000 224000 291200 | 28 261000 246400 313600 | 30 26100 24640 33600 | 32 00 29000 00 26880 00 35840 | 3. 00 319 00 291 00 358 | 2 000 31 200 31 400 35 | 32 9000 34 3600 31 8400 38 | 34 8000 3 3600 3 | - 48000 36000 | - 406000 336000 - | - 406000 358400 - | 435000 | - 493000 - - |
| Model: P Fan | A E N U | m ³ /h m ³ /h m ³ /h m ³ /h | 232000 224000 246400 290000 | 26 261000 224000 291200 290000 | 28 261000 246400 313600 319000 | 30 26100 24640 33600 31900 | 32 00 29000 00 26880 00 35840 00 34800 | 3. 00 319/ 00 291: 00 358/ 00 377/ | 2 000 311 200 31. 400 35 000 40 | 32 9000 34 3600 31 8400 38 6000 40 | 34 18000 3 3600 3 10800 16000 4 | 48000 36000 - 35000 | - 406000 336000 - 435000 | - 406000 358400 - 464000 | - 435000 - - - | - 493000 - - - |
| Model: P | A E N U | m ³ /h m ³ /h m ³ /h m ³ /h | 232000 224000 246400 290000 Axial | 26 261000 224000 291200 290000 Axial | 28 261000 246400 313600 319000 | 30 26100 24640 33600 31900 | 32 00 29000 00 26880 00 35840 00 34800 | 3. 00 319 00 291 00 358 00 377 al Ax | 2 000 311 200 311 400 35 000 400 | 32 9000 34 8600 31 8400 38 5000 40 | 34 18000 3 3600 3 10800 4 16000 4 | - 48000 36000 - 35000 Axial | - 406000 336000 - 435000 Axial | - 406000 358400 - 464000 | - 435000 - - - - - | - 493000 - - - - - |
| Model: P Fan Type | A E N U A,E,N,U A | m ³ /h m ³ /h m ³ /h m ³ /h | 232000 224000 246400 290000 Axial 16 | 26 261000 224000 291200 290000 Axial 18 | 28 261000 246400 313600 319000 Axial | 30 26100 0 24640 0 33600 0 31900 Axial | 32 00 29000 00 26880 00 35840 00 34800 | 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3 | 2 31 200 31 200 31 400 35 31 400 40 40 40 40 40 40 40 40 40 40 40 40 | 32 9000 34 3600 31 38400 38 5000 40 xial / | 34 8000 3 3600 3 90800 16000 4 Lixial 24 | 48000 36000 - 35000 - Axial | - 406000 336000 - 435000 Axial 28 | - 406000 358400 - 464000 Axial 28 | - 435000 - - - - - Axial 30 | - 493000 - - - - - - Axial |
| Model: P Fan | A E N U | m³/h m³/h m³/h m³/h type no. | 232000 224000 246400 290000 Axial 16 20 | 26 261000 224000 291200 290000 Axial 18 20 | 28 261000 246400 313600 319000 Axial 18 22 | 30 26100 24640 33600 31900 Axial 18 22 | 32 00 29000 00 26880 00 35840 00 34800 1 Axia 20 24 | 3. 00 319 00 291: 00 358: 00 377 al Ax 2 | 2 31/200 31/200 31/400 35/200 40/2000 | 32 9000 34 8600 31 8400 38 86000 40 xxial 4 | 34 18000 3 3600 3 10800 4 10800 4 10800 4 | 48000 36000 - 35000 - Axial 24 30 | - 406000 336000 - 435000 Axial 28 30 | - 406000 358400 - 464000 Axial 28 32 | - 435000 - - - - - Axial 30 - | - 493000 - - - - - |
| Model: P Fan Type | A E N U A,E,N,U A E,U N | m³/h m³/h m³/h m³/h type no. no. | 232000 224000 246400 290000 Axial 16 20 22 | 26 261000 224000 291200 290000 Axial 18 20 26 | 28 261000 246400 313600 319000 Axial 18 22 28 | 30 26100 24640 33600 31900 Axial 18 22 30 | 32 00 29000 00 26881 00 35840 00 34800 1 Axia 20 24 | 3. 00 319 00 291. 00 358 00 377 all Ax 2 20 3. | 2 31:200 31:400 35:400 40:400 40:400 40:400 35:400 40:400 40:4000 40:4 | 32 99000 34 8400 38 8400 40 55000 40 222 28 | 34 18000 3 3600 3 10800 4 10800 4 | 48000 36000 335000 Axial 24 30 | - 406000 336000 - 435000 Axial 28 30 | - 406000 358400 - 464000 Axial 28 32 | - 435000 | - 493000 - - - - - - - - - - 34 - - |
| Model: P Fan Type | A E N U A,E,N,U A E,U N | m³/h m³/h m³/h m³/h type no. no. m³/h | 232000 224000 246400 290000 Axial 16 20 22 219200 | 26 261000 224000 291200 290000 Axial 18 20 26 246600 | 28 261000 246400 313600 319000 Axial 18 22 28 246600 | 30 261000 0 24640 0 33600 0 31900 Axial 18 22 30 0 24660 | 32 00 29000 00 26880 00 35840 00 34800 1 Axia 20 24 32 00 27400 | 3.00 319/ 000 291: 000 358: 000 377/ 11 Ax 20 20 3.00 301- | 2 31:200 31:200 31:400 35:5000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 30:000 40:000 30:0000 40:000 30:000 40:000 30:000 40:000 30:000 40:000 30:000 40:0000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:0000 40:0000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:0000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:0000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:000 40:0000 | 32 9000 34 3600 31 38400 38 55000 40 xial // 22 28 33 32 | 34 18000 3 3600 3 10800 6 16000 4 124 128 134 18800 3 | Axial 24 30 - 28800 | - 406000 336000 - 435000 Axial 28 30 - | - 406000 358400 - 464000 Axial 28 32 - 383600 | Axial 30 - 411000 | - 493000 - - - - - - Axial |
| Model: P Fan Type Number | A E N U A,E,N,U A E,U N A E | m³/h m³/h m³/h m³/h type no. no. no. m³/h m³/h | 232000 224000 246400 290000 Axial 16 20 22 219200 214000 | 26 261000 224000 291200 290000 Axial 18 20 26 246600 214000 | 28 261000 246400 313600 319000 Axial 18 22 28 246600 235400 | 30 261000 246400 336000 319000 Axial 18 22 30 246600 235400 23540 | 32 00 29000 00 26880 00 35840 00 34800 1 Axia 20 24 32 00 27400 00 25680 | 3.00 319/00 291.00 358-00 377/00 358-00 377/00 358-00 377/00 301-00 301-00 278.00 301-00 278.00 319/00 278.00 319/00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 278.00 319/00 319/00 278.00 319/ | 2 31000 311200 31.400 35.400 40.600 4 | 32 9000 34 3600 31 3400 38 35000 40 40 40 40 22 28 32 32 34 34 34 34 34 34 34 34 34 34 | 34 18000 3 3600 3 10800 4 10800 4 10800 4 10800 3 10800 4 10800 3 | Axial 24 30 28800 21000 | - 406000 336000 - 435000 - 435000 Axial 28 30 - 383600 321000 | - 406000 358400 - 464000 Axial 28 32 - 383600 342400 | Axial 30 - 411000 - | - 493000 - - - - - - - - - - 34 - - |
| Model: P Fan Type | A E N U A,E,N,U A E,U N | m³/h m³/h m³/h m³/h type no. no. m³/h | 232000 224000 246400 290000 Axial 16 20 22 219200 | 26 261000 224000 291200 290000 Axial 18 20 26 246600 | 28 261000 246400 313600 319000 Axial 18 22 28 246600 | 30 26100 0 24640 0 33600 0 31900 Axial 18 22 30 24660 0 23540 | 32 29000 26880 35840 34800 34800 34800 324 32 20 27400 25680 34240 | 3.00 319/ 000 291: 000 358: 000 377/ 11 Ax 2 2 3.00 301- 000 278: 000 342: | 2 | 32 9000 34 3600 31 8400 38 8400 40 xial 4 22 28 33 21 1400 32 29600 29 | 34 88000 3 3600 3 80800 4 6000 4 1xial 24 28 34 8800 3 9600 3 | Axial 24 30 - 28800 - 21000 | - 406000 336000 - 435000 Axial 28 30 - | - 406000 358400 - 464000 Axial 28 32 - 383600 | Axial 30 - 411000 | - 493000 - - - - - - - - - - 34 - - |

DIMENSIONS



| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------|---------|----|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | Α | mm | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 |
| C | E,U | mm | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 | 10710 |
| | N | mm | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 9520 | 10710 | 11900 | 13090 |
| _ | Α | kg | 4695 | 4730 | 4870 | 5200 | 6065 | 6080 | 6285 | 6950 | 7145 | 7200 | 7300 | 8500 | 8975 | 9590 |
| Empty weight | E,U | kg | 4855 | 4875 | 5435 | 6025 | 6380 | 7025 | 7045 | 7625 | 7715 | 7785 | 7880 | 9145 | 9605 | 10475 |
| | N | kg | 5370 | 5390 | 6065 | 6655 | 7010 | 7560 | 7585 | 8175 | 8265 | 8340 | 8430 | 9930 | 10905 | 11630 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 (| 5402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| | Α | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | E,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - |
| | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 245 | 50 | 2450 | 2450 | - | - | - | - | - |
| | Α | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 2 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | E,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 2 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 220 | 00 2 | 2200 | 2200 | - | - | - | - | - |
| | Α | mm | 9520 | 10710 | 10710 | 10710 | 11900 | 130 | 90 1 | 3090 | 14280 | 14280 | 16660 | 16660 | 17850 | 20230 |
| C | E,U | mm | 11900 | 11900 | 13090 | 13090 | 14280 | 154 | 70 1 | 6660 | 16660 | 17850 | 17850 | 19040 | - | - |
| | N | mm | 13090 | 15470 | 16660 | 17850 | 19040 | 1904 | 40 1 | 9040 | 20230 | - | - | - | - | - |
| | A | kg | 9655 | 10475 | 10525 | 10945 | 11580 | 1220 | 65 1 | 2305 | 14815 | 14880 | 16240 | 16290 | 17510 | 18895 |
| Empty weight | E,U | kg | 11070 | 11130 | 12135 | 12260 | 13260 | 1380 | 00 1 | 4340 | 16230 | 16825 | 16940 | 17955 | - | - |
| | N | kg | 11700 | 13205 | 13990 | 14725 | 15460 | 1550 | 05 1 | 5550 | 18085 | - | - | - | - | - |

For transport reasons, the units with the depth of more than 13090 mm are shipped separately. For more information, please refer to the technical manual and / or installation.

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NSM 1402-9603 B

Air-cooled chiller with free cooling (glycol-free)

Cooling capacity 305,8 ÷ 2028,1 kW



- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- · High efficiency also at partial loads



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

These are outdoor units with screw compressors, axial fans, micro-channel coils, and shell and tube heat exchangers

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency
E Silenced high efficiency
N Silenced very high efficiency
U Very high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on the size and vesion. For more information refer to the dedicated documentations or the selection program Magellano.

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

Free cooling with glycol water

Intermediate plate heat exchanger that creates two circuits:

- Glycol hydraulic circuit (glycol is added to protect the coil from freezing).
- **2.** Primary hydraulic circuit for glycol-free systems.

Electronic expansion valve

Electronic thermostatic as standard from size 5202 to 6402 and from 8403 to 9603.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- Night Mode: it is possible to set a silenced operation profile. Perfect
 for night operation since it guarantees greater acoustic comfort in
 the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using

Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

AK: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

KDI: Double thickness evaporator insulation. Provides stand-still protection down to -20°C. Must be ordered in conjunction with options

ACCESSORIES COMPATIBILITY

| Model | Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 x n° 2 (1) | A,E,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E,N,U | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E,N,U | • | • | • | • | • | | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E,N,U | • | • | • | • | • | | • | • | • | • | • | • | • | |
| PRV3 | A,E,N,U | • | • | • | ٠ | • | • | • | ٠ | • | • | • | • | • | • |
| Model | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 64 | 02 6 | 503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 x n° 2 (1) | A,E,N,U | • | • | • | • | • | • | | | | | | | | |
| AER485P1 x n° 3 (1) | A,E,N,U | | | | | | | | | • | • | • | • | • | • |
| AERBACP | A,E,N,U | • | • | • | | • | • | | | • | • | • | • | • | • |
| AERNET | A,E,N,U | • | • | • | • | • | • | | | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E,N,U | • | • | • | | • | | | | • | • | • | • | • | • |
| PRV3 | A,E,N,U | • | | | | | • | | | | • | | | | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | AVX929 | AVX929 | AVX929 | AVX932 | AVX933 | AVX933 | AVX933 | AVX934 | AVX937 | AVX937 | AVX937 | AVX938 | AVX938 | AVX942 |
| E,U | AVX929 | AVX929 | AVX930 | AVX933 | AVX933 | AVX934 | AVX934 | AVX935 | AVX935 | AVX935 | AVX935 | AVX939 | AVX939 | AVX940 |
| N | AVX930 | AVX930 | AVX931 | AVX931 | AVX934 | AVX935 | AVX935 | AVX936 | AVX936 | AVX936 | AVX936 | AVX940 | AVX941 | AVX943 |
| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 2 64 | 02 6 | 5503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| A | AVX942 | AVX944 | AVX944 | AVX944 | AVX945 | AVX94 | 7 AVX | 947 A | /X953 | AVX953 | AVX957 | AVX954 | AVX956 | AVX955 |
| E,U | AVX941 | AVX945 | AVX947 | AVX947 | AVX950 | AVX95 | 2 AVX | 948 A | /X954 | AVX956 | AVX956 | AVX958 | - | - |
| N | AVX943 | AVX946 | AVX948 | AVX949 | AVX951 | AVX95 | 1 AVX | 951 A\ | /X955 | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

Power factor correction

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352Q | RIFNSM2502Q | RIFNSM2652Q | RIFNSM2802C |
| E | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| N | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802C | RIFNSM2002Q | RIFNSM2202C | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| U | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002C | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |

A grey background indicates the accessory must be assembled in the factory

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A,E,U | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | RIFNSM4502C | RIFNSM4802C | RIFNSM5202C |
| N | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | _ | _ | _ |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|------|------|------|------|------|------|
| A | RIFNSM5602C | RIFNSM6002C | RIFNSM6402C | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

Anti-intrusion grid

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Α | GP4V | GP4V | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V |
| E,U | GP4V | GP4V | GP5V | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V | GP7V | GP7V | GP8V | GP8V | GP9V |
| N | GP5V | GP5V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP8V | GP8V | GP9V | GP10V | GP11V |

A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| Α | GP8V | GP9V | GP9V | GP9V | GP10V | GP11V | GP11V | GP4V+GP8V | GP4V+GP8V | GP5V+GP9V | GP5V+GP9V | GP5V+GP10V | GP6V+GP11V |
| E,U | GP10V | GP10V | GP11V | GP11V | GP6V+GP6V | GP6V+GP7V | GP7V+GP7V | GP5V+GP9V | GP5V+GP10V | GP5V+GP10V | GP6V+GP11V | - | - |
| N | GP11V | GP6V+GP7V | GP7V+GP7V | GP7V+GP8V | GP8V+GP8V | GP8V+GP8V | GP8V+GP8V | GP6V+GP11V | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with

A grey background indicates the accessory must be assembled in the factory

Heater exchangers

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | KRS22 | KRS22 | KRS23 |

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | | | |
|--|--|-------|-------|-------|-------|-------|-------------|-------------|-------------|--|--|--|
| E,N,U | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | | | |
| A grey background indicates the access | ey background indicates the accessory must be assembled in the factory | | | | | | | | | | | |
| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 | | | |
| A,E,U | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | KRS24 | | | |
| N | KRS23 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | | | |

A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | KRS24 | KRS24 | KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 |
| E,U | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | - | - |
| N | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Acoustic kit

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E,N | AK (1) |

(1) Available only in low noise version

A grey background indicates the accessory must be assembled in the factory

| • | | | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| E,N | AK (1) |

(1) Available only in low noise version A grey background indicates the accessory must be assembled in the factory

Double thickness evaporator insulation

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E,N,U | KDI (1) |

(1) Contact us.
A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E,N,U | KDI (1) |

(1) Contact us.
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NSM |
| 4,5,6,7 | Size 1402, 1602, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602, 3902, 4202, 4502, 4802, 5202, 5602, 6002, 6402, 6503, 6703, 6903, 7203, 8403, 9603 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Χ | Electronic thermostatic expansion valve (2) |
| Υ | Low temperature mechanic thermostatic valve (3) |
| Z | Low temperature electronic thermostatic valve (3) |
| 9 | Model |
| В | Free-cooling glycol free |
| G | Free-cooling glycol free plus (4) |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| 11 | Version |
| Α | High efficiency |
| E | Silenced high efficiency |
| N | Silenced very high efficiency |
| U | Very high efficiency |
| 12 | Coils / free-cooling coils |
| 0 | Alluminium microchannel / Copper - aluminium |
| | |

| Field | Description |
|-------|--|
| 0 | Painted alluminium microchannel / Copper painted aluminium |
| R | Copper-copper/Copper-copper |
| S | Copper-Tinned copper / Copper -Tinned copper |
| V | Copper-painted alumimium / Copper-painted alumimium |
| 13 | Fans |
| 0 | Standard |
| J | Inverter |
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with fuses |
| 2 | 230V ~ 3 50Hz with fuses (5) |
| 4 | 230V ~ 3 50Hz with magnet circuit breakers (5) |
| 5 | 500V ~ 3 50Hz with fuses (6) |
| 8 | 400V ~ 3 50Hz with magnet circuit breakers |
| 9 | 500V ~ 3 50Hz with magnet circuit breakers (6) |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |

- (1) Water produced up to +4 °C.
 (2) Water produced up to +4 °C.
 (3) Water produced from +4 °C ÷ -6 °C
 (4) The Free cooling Plus "G" models are only compatible with "°" and "O" coils.
 (5) Available only for size from 1402 to 3202
 (6) Available only for size from 1402 to 3202

PERFORMANCE SPECIFICATIONS

NSM - A

| NSM - A | | | | | | | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: B | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 306,5 | 350,2 | 396,8 | 450,5 | 505,3 | 522,5 | 556,5 | 600,8 | 649,8 | 678,4 | 726,3 | 813,3 | 872,8 | 954,1 |
| Input power | kW | 102,8 | 117,6 | 136,7 | 158,3 | 168,9 | 180,5 | 194,5 | 203,0 | 220,4 | 235,0 | 252,8 | 269,7 | 295,6 | 317,9 |
| Cooling total input current | A | 182,0 | 206,0 | 231,0 | 268,0 | 291,0 | 311,0 | 335,0 | 351,0 | 378,0 | 400,0 | 427,0 | 451,0 | 487,0 | 530,0 |
| EER | W/W | 2,98 | 2,98 | 2,90 | 2,85 | 2,99 | 2,90 | 2,86 | 2,96 | 2,95 | 2,89 | 2,87 | 3,02 | 2,95 | 3,00 |
| Water flow rate system side | l/h | 52653 | 60163 | 68174 | 77407 | 86812 | 89765 | 95621 | 103224 | 111642 | 116561 | 124785 | 139737 | 149957 | 163932 |
| Pressure drop system side | kPa | 73 | 94 | 100 | 72 | 90 | 96 | 108 | 107 | 117 | 100 | 94 | 81 | 93 | 112 |
| Cooling performances with free-cooling glycol-fr | ee (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 201,2 | 207,2 | 212,6 | 221,0 | 271,8 | 273,9 | 277,4 | 334,0 | 337,2 | 352,7 | 355,8 | 414,1 | 417,7 | 460,7 |
| Input power | kW | 18,5 | 18,5 | 18,5 | 18,5 | 24,6 | 24,6 | 24,6 | 32,7 | 32,7 | 32,9 | 32,9 | 38,1 | 38,1 | 42,0 |
| Free cooling total input current | A | 33,0 | 32,0 | 31,0 | 31,0 | 42,0 | 42,0 | 42,0 | 57,0 | 56,0 | 56,0 | 56,0 | 64,0 | 63,0 | 70,0 |
| EER | W/W | 10,87 | 11,19 | 11,48 | 11,92 | 11,06 | 11,14 | 11,28 | 10,20 | 10,30 | 10,71 | 10,81 | 10,86 | 10,95 | 10,97 |
| Model: G | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 305,8 | 349,3 | 395,0 | 447,3 | 502,1 | 519,1 | 552,6 | 597,2 | 645,4 | 674,3 | 721,9 | 807,8 | 865,0 | 946,8 |
| Input power | kW | 103,7 | 118,8 | 138,1 | 160,2 | 170,8 | 182,6 | 197,0 | 205,3 | 223,1 | 238,4 | 257,1 | 273,3 | 299,3 | 321,8 |
| Cooling total input current | А | 184,0 | 208,0 | 233,0 | 271,0 | 294,0 | 315,0 | 339,0 | 355,0 | 382,0 | 405,0 | 433,0 | 456,0 | 492,0 | 536,0 |
| EER | W/W | 2,95 | 2,94 | 2,86 | 2,79 | 2,94 | 2,84 | 2,81 | 2,91 | 2,89 | 2,83 | 2,81 | 2,96 | 2,89 | 2,94 |
| Water flow rate system side | l/h | 52546 | 60019 | 67864 | 76853 | 86266 | 89180 | 94948 | 102598 | 110891 | 115859 | 124023 | 138789 | 148609 | 162675 |
| Pressure drop system side | kPa | 48 | 64 | 74 | 62 | 78 | 84 | 95 | 70 | 74 | 81 | 74 | 86 | 98 | 68 |
| Cooling performances with free-cooling glycol-free (2) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 213,5 | 220,0 | 226,6 | 237,8 | 288,8 | 291,7 | 294,5 | 353,1 | 360,2 | 374,3 | 378,1 | 439,1 | 443,5 | 495,5 |
| Input power | kW | 18,3 | 18,3 | 18,3 | 18,3 | 24,2 | 24,2 | 24,2 | 32,1 | 32,1 | 32,3 | 32,3 | 37,4 | 37,4 | 41,3 |
| Free cooling total input current | A | 32,0 | 32,0 | 31,0 | 31,0 | 42,0 | 42,0 | 42,0 | 55,0 | 55,0 | 55,0 | 54,0 | 62,0 | 61,0 | 69,0 |
| EER | W/W | 11,68 | 12,03 | 12,39 | 12,99 | 11,92 | 12,04 | 12,16 | 11,00 | 11,22 | 11,59 | 11,71 | 11,74 | 11,86 | 12,00 |
| | | | | | | | | | | | | | | | |

NSM - A

| NSW - A | | | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Model: B | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 996,8 | 1082,3 | 1128,3 | 1167,3 | 1222,8 | 1304,9 | 1346,7 | 1459,2 | 1501,9 | 1659,0 | 1705,0 | 1838,1 | 2028,1 |
| Input power | kW | 346,1 | 365,7 | 391,9 | 422,5 | 438,9 | 452,7 | 472,4 | 492,1 | 520,2 | 557,2 | 583,3 | 659,0 | 704,1 |
| Cooling total input current | A | 581,0 | 614,0 | 655,0 | 704,0 | 733,0 | 761,0 | 796,0 | 821,0 | 872,0 | 945,0 | 986,0 | 1100,0 | 1198,0 |
| EER | W/W | 2,88 | 2,96 | 2,88 | 2,76 | 2,79 | 2,88 | 2,85 | 2,97 | 2,89 | 2,98 | 2,92 | 2,79 | 2,88 |
| Water flow rate system side | l/h | 171269 | 185947 | 193855 | 200561 | 210092 | 224201 | 231379 | 250713 | 258050 | 285029 | 292937 | 315803 | 348457 |
| Pressure drop system side | kPa | 122 | 132 | 143 | 116 | 109 | 125 | 133 | 112 | 127 | 132 | 143 | 108 | 135 |
| Cooling performances with free-cooling glycol-free | 2 (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 464,4 | 522,4 | 524,0 | 526,5 | 571,2 | 612,5 | 614,9 | 684,4 | 688,1 | 798,8 | 801,4 | 867,6 | 965,2 |
| Input power | kW | 42,0 | 46,2 | 46,2 | 46,2 | 50,1 | 53,8 | 53,9 | 60,5 | 60,5 | 70,7 | 70,8 | 78,9 | 86,8 |
| Free cooling total input current | A | 71,0 | 77,0 | 77,0 | 77,0 | 84,0 | 91,0 | 91,0 | 101,0 | 101,0 | 120,0 | 120,0 | 132,0 | 148,0 |
| EER | W/W | 11,06 | 11,32 | 11,35 | 11,41 | 11,41 | 11,38 | 11,41 | 11,31 | 11,37 | 11,29 | 11,32 | 10,99 | 11,12 |
| Model: G | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 988,7 | 1074,2 | 1119,1 | 1156,4 | 1212,7 | 1295,2 | 1336,2 | 1447,7 | 1489,6 | 1646,9 | 1691,9 | 1822,8 | 2013,1 |
| Input power | kW | 350,6 | 370,3 | 397,1 | 428,3 | 444,3 | 458,0 | 478,2 | 498,2 | 527,1 | 564,0 | 590,8 | 667,1 | 712,4 |
| Cooling total input current | Α | 588,0 | 621,0 | 663,0 | 713,0 | 741,0 | 769,0 | 805,0 | 830,0 | 882,0 | 956,0 | 998,0 | 1112,0 | 1211,0 |
| EER | W/W | 2,82 | 2,90 | 2,82 | 2,70 | 2,73 | 2,83 | 2,79 | 2,91 | 2,83 | 2,92 | 2,86 | 2,73 | 2,83 |
| Water flow rate system side | l/h | 169873 | 184553 | 192278 | 198678 | 208362 | 222522 | 229577 | 248739 | 255937 | 282961 | 290686 | 313186 | 345875 |
| Pressure drop system side | kPa | 74 | 91 | 98 | 86 | 95 | 109 | 116 | 84 | 84 | 110 | 110 | 101 | 116 |
| Cooling performances with free-cooling glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 500,3 | 559,0 | 564,4 | 569,9 | 610,4 | 656,1 | 662,5 | 737,9 | 742,7 | 856,4 | 861,8 | 926,6 | 1037,6 |
| Input power | kW | 41,3 | 45,5 | 45,5 | 45,5 | 49,3 | 53,1 | 53,1 | 59,6 | 59,6 | 69,7 | 69,7 | 77,6 | 85,4 |
| Free cooling total input current | A | 69,0 | 76,0 | 76,0 | 76,0 | 82,0 | 89,0 | 89,0 | 99,0 | 100,0 | 118,0 | 118,0 | 129,0 | 145,0 |
| EER | W/W | 12,12 | 12,30 | 12,42 | 12,54 | 12,38 | 12,36 | 12,48 | 12,38 | 12,46 | 12,29 | 12,37 | 11,95 | 12,15 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 10%; Free-cooling 0% (2) System side water heat exchanger 12 °C/8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NSM - E

| NJM - L | | | | | | | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: B | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 319,8 | 365,8 | 417,7 | 473,0 | 509,1 | 549,8 | 568,8 | 618,6 | 646,3 | 675,1 | 715,5 | 796,7 | 851,7 | 929,6 |
| Input power | kW | 105,5 | 123,3 | 137,5 | 159,4 | 178,3 | 183,3 | 195,5 | 205,2 | 220,4 | 235,9 | 253,5 | 270,8 | 297,1 | 320,1 |
| Cooling total input current | А | 177,0 | 206,0 | 223,0 | 261,0 | 295,0 | 305,0 | 326,0 | 342,0 | 365,0 | 389,0 | 415,0 | 438,0 | 474,0 | 517,0 |
| EER | W/W | 3,03 | 2,97 | 3,04 | 2,97 | 2,85 | 3,00 | 2,91 | 3,01 | 2,93 | 2,86 | 2,82 | 2,94 | 2,87 | 2,90 |
| Water flow rate system side | l/h | 54946 | 62848 | 71763 | 81260 | 87462 | 94455 | 97732 | 106280 | 111042 | 115993 | 122937 | 136886 | 146332 | 159723 |
| Pressure drop system side | kPa | 62 | 76 | 84 | 78 | 90 | 88 | 94 | 100 | 109 | 91 | 94 | 80 | 92 | 110 |
| Cooling performances with free-cooling glycol-fr | ee (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 186,6 | 192,0 | 231,5 | 241,7 | 246,1 | 294,5 | 297,3 | 334,0 | 337,2 | 351,6 | 354,9 | 403,7 | 407,3 | 448,1 |
| Input power | kW | 15,5 | 15,5 | 19,5 | 19,6 | 19,6 | 26,8 | 26,8 | 30,6 | 30,6 | 31,0 | 31,0 | 34,0 | 34,0 | 36,8 |
| Free cooling total input current | A | 26,0 | 26,0 | 32,0 | 32,0 | 32,0 | 44,0 | 45,0 | 51,0 | 51,0 | 51,0 | 51,0 | 55,0 | 54,0 | 59,0 |
| EER | W/W | 12,01 | 12,36 | 11,89 | 12,34 | 12,57 | 11,01 | 11,11 | 10,92 | 11,03 | 11,35 | 11,45 | 11,88 | 11,98 | 12,18 |
| Model: G | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 316,7 | 363,1 | 414,5 | 469,5 | 504,1 | 545,4 | 564,0 | 613,8 | 640,8 | 669,8 | 710,9 | 790,6 | 843,5 | 921,3 |
| Input power | kW | 106,6 | 124,7 | 138,6 | 161,1 | 181,0 | 185,4 | 197,8 | 207,6 | 223,1 | 239,2 | 257,8 | 274,6 | 301,1 | 324,4 |
| Cooling total input current | А | 179,0 | 208,0 | 225,0 | 263,0 | 298,0 | 308,0 | 329,0 | 345,0 | 369,0 | 393,0 | 421,0 | 443,0 | 480,0 | 523,0 |
| EER | W/W | 2,97 | 2,91 | 2,99 | 2,91 | 2,79 | 2,94 | 2,85 | 2,96 | 2,87 | 2,80 | 2,76 | 2,88 | 2,80 | 2,84 |
| Water flow rate system side | l/h | 54406 | 62391 | 71215 | 80666 | 86616 | 93710 | 96910 | 105465 | 110105 | 115087 | 122135 | 135840 | 144915 | 158291 |
| Pressure drop system side | kPa | 36 | 42 | 54 | 66 | 76 | 54 | 58 | 59 | 65 | 71 | 73 | 47 | 54 | 66 |
| Cooling performances with free-cooling glycol-fr | ee (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 197,2 | 203,1 | 242,3 | 255,6 | 258,0 | 307,4 | 310,5 | 349,3 | 352,8 | 266,5 | 373,6 | 421,8 | 425,7 | 470,1 |
| Input power | kW | 15,2 | 15,2 | 19,1 | 19,2 | 19,2 | 26,1 | 26,1 | 29,9 | 29,9 | 30,3 | 30,3 | 33,3 | 33,3 | 36,1 |
| Free cooling total input current | A | 26,0 | 25,0 | 31,0 | 31,0 | 32,0 | 43,0 | 44,0 | 50,0 | 50,0 | 50,0 | 49,0 | 54,0 | 53,0 | 58,0 |
| EER | W/W | 12,94 | 13,32 | 12,67 | 13,29 | 13,42 | 11,76 | 11,88 | 11,68 | 11,79 | 12,11 | 12,35 | 12,68 | 12,80 | 13,02 |

NSM - E

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Model: B | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 995,2 | 1051,6 | 1137,0 | 1159,2 | 1217,3 | 1279,4 | 1341,6 | 1434,0 | 1499,6 | 1598,6 | 1684,0 | - | - |
| Input power | kW | 339,9 | 370,0 | 389,4 | 418,0 | 436,6 | 448,9 | 461,2 | 491,1 | 510,9 | 568,9 | 588,3 | - | - |
| Cooling total input current | A | 555,0 | 601,0 | 632,0 | 678,0 | 708,0 | 732,0 | 755,0 | 804,0 | 832,0 | 924,0 | 945,0 | - | - |
| EER | W/W | 2,93 | 2,84 | 2,92 | 2,77 | 2,79 | 2,85 | 2,91 | 2,92 | 2,93 | 2,81 | 2,86 | - | - |
| Water flow rate system side | l/h | 170980 | 180685 | 195353 | 199172 | 209139 | 219823 | 230507 | 246385 | 257643 | 274665 | 289333 | - | - |
| Pressure drop system side | kPa | 125 | 128 | 130 | 135 | 84 | 115 | 112 | 110 | 121 | 121 | 130 | - | - |
| Cooling performances with free-cooling glycol-free | ee (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 495,6 | 509,3 | 549,8 | 551,2 | 600,1 | 640,5 | 682,5 | 692,0 | 739,5 | 761,7 | 802,2 | - | - |
| Input power | kW | 44,0 | 44,2 | 46,9 | 47,0 | 53,5 | 57,3 | 61,5 | 56,4 | 63,5 | 65,6 | 68,4 | - | - |
| Free cooling total input current | Α | 72,0 | 72,0 | 76,0 | 76,0 | 87,0 | 93,0 | 100,0 | 92,0 | 104,0 | 107,0 | 110,0 | - | - |
| EER | W/W | 11,27 | 11,54 | 11,72 | 11,73 | 11,22 | 11,17 | 11,14 | 12,27 | 11,64 | 11,60 | 11,72 | - | - |
| Model: G | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 987,5 | 1041,9 | 1127,1 | 1148,0 | 1206,7 | 1269,3 | 1332,0 | 1421,7 | 1487,9 | 1583,2 | 1668,4 | - | - |
| Input power | kW | 344,2 | 375,3 | 394,8 | 424,0 | 442,2 | 454,4 | 466,6 | 497,6 | 517,4 | 577,4 | 596,9 | - | - |
| Cooling total input current | А | 561,0 | 609,0 | 640,0 | 687,0 | 717,0 | 740,0 | 763,0 | 814,0 | 842,0 | 937,0 | 957,0 | - | - |
| EER | W/W | 2,87 | 2,78 | 2,86 | 2,71 | 2,73 | 2,79 | 2,85 | 2,86 | 2,88 | 2,74 | 2,80 | - | - |
| Water flow rate system side | l/h | 169667 | 179011 | 193651 | 197235 | 207320 | 218083 | 228846 | 244269 | 255645 | 272005 | 286645 | - | - |
| Pressure drop system side | kPa | 76 | 87 | 83 | 86 | 58 | 70 | 70 | 86 | 86 | 100 | 100 | - | - |
| Cooling performances with free-cooling glycol-free | e (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 523,4 | 531,6 | 576,1 | 581,5 | 627,1 | 669,8 | 712,5 | 728,1 | 781,4 | 795,8 | 840,2 | - | - |
| Input power | kW | 43,0 | 43,1 | 46,0 | 46,0 | 52,3 | 56,1 | 59,8 | 55,3 | 62,2 | 64,2 | 67,0 | - | - |
| Free cooling total input current | A | 70,0 | 70,0 | 74,0 | 74,0 | 85,0 | 91,0 | 98,0 | 91,0 | 101,0 | 104,0 | 107,0 | - | - |
| EER | W/W | 12,17 | 12,32 | 12,53 | 12,65 | 11,99 | 11,95 | 11,91 | 13,16 | 12,55 | 12,40 | 12,54 | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NSM - U

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---|---------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: B | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328,1 | 378,5 | 429,3 | 491,9 | 531,3 | 568,6 | 589,0 | 638,0 | 667,8 | 695,1 | 735,8 | 824,8 | 891,0 | 967,9 |
| Input power | kW | 105,3 | 121,3 | 136,2 | 155,8 | 172,9 | 180,0 | 191,0 | 202,4 | 216,1 | 228,4 | 242,4 | 263,0 | 288,2 | 311,5 |
| Cooling total input current | А | 186,0 | 212,0 | 232,0 | 266,0 | 297,0 | 313,0 | 332,0 | 353,0 | 374,0 | 392,0 | 413,0 | 443,0 | 477,0 | 523,0 |
| EER | W/W | 3,12 | 3,12 | 3,15 | 3,16 | 3,07 | 3,16 | 3,08 | 3,15 | 3,09 | 3,04 | 3,04 | 3,14 | 3,09 | 3,11 |
| Water flow rate system side | l/h | 56372 | 65027 | 73755 | 84508 | 91287 | 97691 | 101204 | 109611 | 114731 | 119419 | 126414 | 141715 | 153088 | 166304 |
| Pressure drop system side | kPa | 66 | 81 | 88 | 83 | 96 | 93 | 99 | 106 | 88 | 95 | 87 | 85 | 99 | 117 |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 207,3 | 213,5 | 254,5 | 275,3 | 278,0 | 330,7 | 333,2 | 373,6 | 391,6 | 395,4 | 406,8 | 452,9 | 456,9 | 499,3 |
| Input power | kW | 19,5 | 19,5 | 24,5 | 26,5 | 26,5 | 32,7 | 32,8 | 37,6 | 38,0 | 38,0 | 38,1 | 42,0 | 42,0 | 45,8 |
| Free cooling total input current | A | 34,0 | 34,0 | 42,0 | 45,0 | 46,0 | 57,0 | 57,0 | 65,0 | 66,0 | 65,0 | 65,0 | 71,0 | 70,0 | 77,0 |
| EER | W/W | 10,62 | 10,94 | 10,40 | 10,40 | 10,49 | 10,10 | 10,17 | 9,94 | 10,31 | 10,41 | 10,67 | 10,79 | 10,88 | 10,90 |
| Model: G | | | | | | | | | | | | | | | - |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 326,9 | 376,7 | 427,6 | 488,8 | 527,6 | 565,4 | 585,6 | 634,6 | 664,0 | 691,7 | 732,5 | 820,3 | 884,7 | 961,8 |
| Input power | kW | 106,3 | 122,5 | 137,6 | 157,4 | 174,8 | 181,8 | 193,0 | 204,4 | 218,3 | 231,1 | 245,7 | 266,0 | 291,3 | 314,8 |
| Cooling total input current | A | 187,0 | 213,0 | 234,0 | 269,0 | 300,0 | 316,0 | 335,0 | 356,0 | 377,0 | 396,0 | 418,0 | 447,0 | 482,0 | 528,0 |
| EER | W/W | 3,08 | 3,07 | 3,11 | 3,10 | 3,02 | 3,11 | 3,03 | 3,10 | 3,04 | 2,99 | 2,98 | 3,08 | 3,04 | 3,06 |
| Water flow rate system side | l/h | 56168 | 64715 | 73458 | 83974 | 90643 | 97138 | 100613 | 109029 | 114089 | 118834 | 125850 | 140933 | 152003 | 165249 |
| Pressure drop system side | kPa | 39 | 45 | 58 | 72 | 84 | 59 | 63 | 64 | 70 | 76 | 78 | 51 | 59 | 72 |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 219,8 | 228,8 | 272,7 | 291,1 | 297,0 | 349,6 | 353,1 | 394,9 | 414,0 | 418,2 | 430,6 | 479,9 | 489,3 | 530,2 |
| Input power | kW | 19,2 | 19,2 | 24,1 | 26,0 | 26,0 | 32,1 | 32,1 | 36,9 | 37,3 | 37,3 | 37,4 | 41,3 | 41,3 | 45,1 |
| Free cooling total input current | A | 34,0 | 33,0 | 41,0 | 44,0 | 45,0 | 56,0 | 56,0 | 64,0 | 64,0 | 64,0 | 64,0 | 69,0 | 68,0 | 75,0 |
| EER | W/W | 11,43 | 11,90 | 11,30 | 11,20 | 11,42 | 10,89 | 11,00 | 10,71 | 11,11 | 11,22 | 11,51 | 11,63 | 11,86 | 11,77 |

NSM - U

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
| Model: B | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1031,1 | 1095,0 | 1181,2 | 1208,8 | 1265,8 | 1326,2 | 1386,6 | 1491,1 | 1554,3 | 1666,6 | 1752,7 | - | - |
| Input power | kW | 332,0 | 358,4 | 379,0 | 405,3 | 426,4 | 440,0 | 453,5 | 478,4 | 498,9 | 549,8 | 570,4 | - | - |
| Cooling total input current | А | 564,0 | 605,0 | 639,0 | 682,0 | 718,0 | 746,0 | 774,0 | 812,0 | 846,0 | 926,0 | 954,0 | - | - |
| EER | W/W | 3,11 | 3,06 | 3,12 | 2,98 | 2,97 | 3,01 | 3,06 | 3,12 | 3,12 | 3,03 | 3,07 | - | - |
| Water flow rate system side | l/h | 177155 | 188137 | 202935 | 207692 | 217477 | 227858 | 238239 | 256194 | 267046 | 286336 | 301135 | - | - |
| Pressure drop system side | kPa | 119 | 137 | 138 | 145 | 104 | 124 | 113 | 117 | 119 | 137 | 138 | - | - |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 565,8 | 570,9 | 615,3 | 617,2 | 681,2 | 721,6 | 762,0 | 777,2 | 843,7 | 865,6 | 910,0 | - | - |
| Input power | kW | 54,1 | 54,1 | 57,9 | 58,0 | 67,5 | 71,3 | 75,2 | 72,3 | 80,6 | 83,9 | 87,7 | - | - |
| Free cooling total input current | A | 92,0 | 91,0 | 98,0 | 97,0 | 114,0 | 121,0 | 128,0 | 123,0 | 137,0 | 141,0 | 147,0 | - | - |
| EER | W/W | 10,46 | 10,55 | 10,62 | 10,65 | 10,10 | 10,12 | 10,14 | 10,75 | 10,47 | 10,32 | 10,38 | - | - |
| Model: G | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1025,3 | 1088,1 | 1174,0 | 1200,9 | 1257,9 | 1318,5 | 1379,2 | 1482,0 | 1545,4 | 1655,7 | 1741,6 | - | - |
| Input power | kW | 335,5 | 362,4 | 383,1 | 409,7 | 430,7 | 444,3 | 457,9 | 483,4 | 504,1 | 556,1 | 576,8 | - | - |
| Cooling total input current | A | 569,0 | 611,0 | 645,0 | 688,0 | 725,0 | 752,0 | 780,0 | 819,0 | 854,0 | 936,0 | 963,0 | - | - |
| EER | W/W | 3,06 | 3,00 | 3,06 | 2,93 | 2,92 | 2,97 | 3,01 | 3,07 | 3,07 | 2,98 | 3,02 | - | - |
| Water flow rate system side | l/h | 176150 | 186945 | 201699 | 206322 | 216119 | 226541 | 236963 | 254617 | 265517 | 284475 | 299229 | - | - |
| Pressure drop system side | kPa | 81 | 94 | 90 | 94 | 63 | 70 | 75 | 85 | 92 | 103 | 113 | - | - |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 600,3 | 606,3 | 654,1 | 660,5 | 720,3 | 764,2 | 808,1 | 827,1 | 897,3 | 920,4 | 968,2 | - | - |
| Input power | kW | 53,1 | 53,1 | 57,0 | 57,0 | 66,1 | 69,9 | 73,8 | 71,0 | 79,1 | 82,2 | 86,0 | - | - |
| Free cooling total input current | A | 90,0 | 90,0 | 96,0 | 96,0 | 111,0 | 118,0 | 126,0 | 120,0 | 134,0 | 138,0 | 144,0 | - | - |
| EER | W/W | 11,30 | 11,41 | 11,48 | 11,60 | 10.90 | 10.93 | 10.95 | 11.64 | 11.34 | 11,20 | 11,25 | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; fuller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

NSM - N

| NSM - N | | | | | | | | | | | | | | | |
|---|---------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Model: B | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 326,0 | 376,5 | 424,5 | 486,3 | 525,3 | 559,6 | 579,7 | 626,1 | 655,1 | 682,6 | 723,4 | 811,7 | 888,8 | 960,7 |
| Input power | kW | 103,6 | 119,3 | 134,4 | 153,8 | 170,9 | 178,3 | 189,4 | 200,8 | 214,8 | 227,9 | 242,9 | 263,8 | 283,0 | 307,1 |
| Cooling total input current | А | 175,0 | 200,0 | 218,0 | 253,0 | 283,0 | 297,0 | 317,0 | 335,0 | 357,0 | 376,0 | 399,0 | 427,0 | 452,0 | 497,0 |
| EER | W/W | 3,15 | 3,16 | 3,16 | 3,16 | 3,07 | 3,14 | 3,06 | 3,12 | 3,05 | 3,00 | 2,98 | 3,08 | 3,14 | 3,13 |
| Water flow rate system side | l/h | 56017 | 64687 | 72926 | 83554 | 90260 | 96150 | 99597 | 107568 | 112546 | 117285 | 124287 | 139460 | 152704 | 165051 |
| Pressure drop system side | kPa | 54 | 65 | 67 | 83 | 96 | 92 | 98 | 79 | 86 | 93 | 86 | 84 | 100 | 106 |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 220,8 | 232,6 | 273,9 | 282,2 | 286,3 | 327,6 | 330,8 | 378,1 | 381,7 | 385,4 | 396,5 | 442,9 | 482,6 | 528,7 |
| Input power | kW | 18,3 | 19,6 | 26,5 | 26,5 | 27,4 | 30,6 | 30,6 | 33,8 | 33,8 | 33,8 | 34,0 | 40,8 | 43,6 | 46,5 |
| Free cooling total input current | A | 31,0 | 33,0 | 43,0 | 44,0 | 45,0 | 51,0 | 51,0 | 56,0 | 56,0 | 56,0 | 56,0 | 66,0 | 70,0 | 75,0 |
| EER | W/W | 12,04 | 11,88 | 10,32 | 10,63 | 10,44 | 10,71 | 10,82 | 11,17 | 11,28 | 11,39 | 11,66 | 10,86 | 11,07 | 11,37 |
| Model: G | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 325,1 | 375,2 | 422,9 | 483,6 | 522,0 | 556,8 | 576,7 | 623,1 | 651,8 | 679,6 | 720,3 | 807,0 | 882,8 | 955,1 |
| Input power | kW | 104,5 | 120,4 | 135,6 | 155,5 | 172,9 | 180,2 | 191,5 | 202,9 | 217,2 | 230,8 | 246,4 | 267,1 | 286,2 | 310,3 |
| Cooling total input current | А | 176,0 | 201,0 | 220,0 | 255,0 | 286,0 | 300,0 | 320,0 | 338,0 | 360,0 | 381,0 | 404,0 | 431,0 | 457,0 | 501,0 |
| EER | W/W | 3,11 | 3,12 | 3,12 | 3,11 | 3,02 | 3,09 | 3,01 | 3,07 | 3,00 | 2,94 | 2,92 | 3,02 | 3,09 | 3,08 |
| Water flow rate system side | l/h | 55859 | 64457 | 72661 | 83082 | 89692 | 95662 | 99076 | 107055 | 111979 | 116764 | 123748 | 138653 | 151682 | 164102 |
| Pressure drop system side | kPa | 39 | 46 | 36 | 44 | 51 | 58 | 62 | 40 | 43 | 47 | 46 | 50 | 60 | 72 |
| Cooling performances with free-cooling glycol-f | ree (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 230,8 | 243,4 | 284,6 | 294,0 | 301,4 | 342,3 | 345,8 | 395,2 | 403,2 | 407,2 | 414,7 | 463,0 | 509,0 | 554,0 |
| Input power | kW | 18,0 | 19,2 | 25,6 | 25,9 | 26,7 | 29,9 | 29,9 | 33,1 | 33,1 | 33,1 | 33,3 | 39,8 | 42,6 | 45,6 |
| Free cooling total input current | А | 30,0 | 32,0 | 42,0 | 43,0 | 44,0 | 50,0 | 50,0 | 55,0 | 55,0 | 55,0 | 55,0 | 64,0 | 68,0 | 74,0 |
| EER | W/W | 12,79 | 12,66 | 10,98 | 11,34 | 11,27 | 11,44 | 11,56 | 11,93 | 12,17 | 12,29 | 12,46 | 11,62 | 11,94 | 12,15 |
| | | | | | | | | | | | | | | | |

NSM - N

| 143/41 - 14 | | | | | | | | | | | | | | |
|--|---------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|
| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Model: B | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 1004,9 | 1098,6 | 1161,7 | 1218,0 | 1274,5 | 1318,1 | 1361,7 | 1478,4 | - | - | - | - | - |
| Input power | kW | 332,9 | 349,5 | 369,2 | 392,7 | 416,2 | 433,5 | 450,9 | 472,0 | - | - | - | - | - |
| Cooling total input current | А | 544,0 | 570,0 | 600,0 | 639,0 | 677,0 | 708,0 | 740,0 | 771,0 | - | - | - | - | - |
| EER | W/W | 3,02 | 3,14 | 3,15 | 3,10 | 3,06 | 3,04 | 3,02 | 3,13 | - | - | - | - | - |
| Water flow rate system side | l/h | 172652 | 188754 | 199587 | 209274 | 218966 | 226456 | 233947 | 254013 | - | - | - | - | - |
| Pressure drop system side | kPa | 116 | 112 | 104 | 109 | 72 | 78 | 81 | 105 | - | - | - | - | - |
| Cooling performances with free-cooling glycol-fr | ree (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 533,7 | 625,3 | 661,6 | 712,1 | 756,1 | 767,1 | 770,8 | 815,0 | - | - | - | - | - |
| Input power | kW | 46,5 | 57,3 | 61,2 | 64,4 | 67,7 | 67,7 | 67,7 | 73,9 | - | - | - | - | - |
| Free cooling total input current | A | 76,0 | 93,0 | 99,0 | 105,0 | 110,0 | 111,0 | 111,0 | 121,0 | - | - | - | - | - |
| EER | W/W | 11,47 | 10,91 | 10,82 | 11,05 | 11,17 | 11,34 | 11,39 | 11,03 | - | - | - | - | - |
| Model: G | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 998,8 | 1092,7 | 1155,6 | 1211,7 | 1267,7 | 1310,9 | 1354,2 | 1470,0 | - | - | - | - | - |
| Input power | kW | 336,7 | 353,2 | 373,0 | 396,5 | 420,0 | 437,6 | 455,3 | 476,9 | - | - | - | - | - |
| Cooling total input current | A | 550,0 | 575,0 | 606,0 | 644,0 | 682,0 | 714,0 | 746,0 | 778,0 | - | - | - | - | - |
| EER | W/W | 2,97 | 3,09 | 3,10 | 3,06 | 3,02 | 3,00 | 2,97 | 3,08 | - | - | - | - | - |
| Water flow rate system side | l/h | 171604 | 187733 | 198553 | 208183 | 217806 | 225235 | 232663 | 252555 | - | - | - | - | - |
| Pressure drop system side | kPa | 79 | 67 | 76 | 76 | 41 | 44 | 47 | 72 | - | - | - | - | - |
| Cooling performances with free-cooling glycol-fr | ree (2) | | | | | | | | | | | | | |
| Cooling capacity | kW | 559,3 | 653,2 | 691,6 | 748,6 | 798,5 | 804,6 | 806,4 | 852,3 | - | - | - | - | - |
| Input power | kW | 45,6 | 56,1 | 59,8 | 63,1 | 66,3 | 66,2 | 66,3 | 72,3 | - | - | - | - | - |
| Free cooling total input current | A | 74,0 | 91,0 | 97,0 | 102,0 | 108,0 | 108,0 | 109,0 | 118,0 | - | - | - | - | - |
| EER | W/W | 12,27 | 11,65 | 11,56 | 11,87 | 12,05 | 12,15 | 12,17 | 11,79 | - | - | - | - | - |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / 8,7 °C; External air 2 °C; glycol hydraulic circuit 30%; primary hydraulic circuit glycol 0%.

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--|--|---|--|--|--|--|--|--|---|--|--|---|---|---|--|---|
| Model: B | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temp | erature with stand | | | | | | | | | | | | | | | |
| | A | W/W | 6,16 | 5,97 | 5,71 | 5,54 | 5,80 | 5,60 | 5,52 | 5,67 | 5,57 | 5,55 | 5,52 | 5,72 | 5,57 | 5,66 |
| SEPR | E | W/W | 6,18 | 5,87 | 6,03 | 5,79 | 5,54 | 5,86 | 5,65 | 5,80 | 5,67 | 5,56 | 5,51 | 5,72 | 5,57 | 5,64 |
| 22.11 | N | W/W | 6,43 | 6,20 | 6,09 | 5,96 | 5,71 | 5,94 | 5,78 | 6,01 | 5,85 | 5,70 | 5,61 | 5,76 | 5,86 | 5,88 |
| | U | W/W | 6,20 | 6,02 | 6,11 | 6,09 | 5,85 | 6,00 | 5,84 | 5,96 | 5,92 | 5,78 | 5,71 | 5,96 | 5,82 | 5,86 |
| SEPR - (EN14825: 2018) High temp | | | | | | | | | | | | | | | | |
| | A | W/W | 6,16 | 5,97 | 5,71 | 5,54 | 5,80 | 5,60 | 5,52 | 5,67 | 5,57 | 5,55 | 5,52 | 5,72 | 5,57 | 5,66 |
| SEPR | <u>E</u> | W/W | 6,18 | 5,87 | 6,03 | 5,79 | 5,54 | 5,86 | 5,65 | 5,80 | 5,67 | 5,56 | 5,51 | 5,72 | 5,57 | 5,64 |
| | N | W/W | 6,43 | 6,20 | 6,09 | 5,96 | 5,71 | 5,94 | 5,78 | 6,01 | 5,85 | 5,70 | 5,61 | 5,76 | 5,86 | 5,88 |
| | U | W/W | 6,20 | 6,02 | 6,11 | 6,09 | 5,85 | 6,00 | 5,84 | 5,96 | 5,92 | 5,78 | 5,71 | 5,96 | 5,82 | 5,86 |
| Model: G | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temp | | | | | | | | | | | | | | | | |
| | A | W/W | 6,24 | 6,04 | 5,75 | 5,52 | 5,79 | 5,58 | 5,51 | 5,71 | 5,62 | 5,53 | 5,51 | 5,64 | 5,54 | 5,71 |
| SEPR | E | W/W | 6,21 | 5,91 | 6,07 | 5,76 | 5,51 | 5,87 | 5,66 | 5,84 | 5,71 | 5,53 | 5,51 | 5,71 | 5,56 | 5,66 |
| | N | W/W | 6,46 | 6,23 | 6,14 | 6,02 | 5,77 | 5,99 | 5,82 | 6,08 | 5,93 | 5,77 | 5,64 | 5,78 | 5,91 | 5,91 |
| 4888 (Bus 1988 1988) III I . | U | W/W | 6,27 | 6,11 | 6,19 | 6,07 | 5,83 | 6,05 | 5,89 | 6,04 | 5,93 | 5,78 | 5,68 | 6,01 | 5,88 | 5,92 |
| SEPR - (EN14825: 2018) High temp | erature with invert | | | | | | | | | | | | | | | |
| | A | W/W | 6,24 | 6,04 | 5,75 | 5,52 | 5,79 | 5,58 | 5,51 | 5,71 | 5,62 | 5,53 | 5,51 | 5,64 | 5,54 | 5,71 |
| SEPR | E | W/W | 6,21 | 5,91 | 6,07 | 5,76 | 5,51 | 5,87 | 5,66 | 5,84 | 5,71 | 5,53 | 5,51 | 5,71 | 5,56 | 5,66 |
| | N | W/W | 6,46 | 6,23 | 6,14 | 6,02 | 5,77 | 5,99 | 5,82 | 6,08 | 5,93 | 5,77 | 5,64 | 5,78 | 5,91 | 5,91 |
| (1) C.I. I.C | U | W/W | 6,27 | 6,11 | 6,19 | 6,07 | 5,83 | 6,05 | 5,89 | 6,04 | 5,93 | 5,78 | 5,68 | 6,01 | 5,88 | 5,92 |
| | | | | | | | | | | | | | | | | |
| (1) Calculation performed with FIXED | water flow rate. | | | | | | | | | | | | | | | |
| Size | water flow rate. | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 64 | 102 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Size Model: B | | | 4202 | 4502 | 4802 | 5202 | 5602 | 600 |)2 64 | 102 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Size Model: B | erature with stand | | | | | | | | | | | | | | | |
| Size Model: B | erature with stand | W/W | 5,52 | 5,60 | 5,53 | 5,53 | 5,52 | 5,5 | 2 5, | ,51 | 5,73 | 5,60 | 5,77 | 5,64 | 5,52 | 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper | erature with stand | W/W W/W | 5,52 5,61 | 5,60 5,52 | 5,53 5,59 | 5,53 5,54 | 5,52 5,52 | 5,5 5,5 | 2 5, 1 5, | ,51 ,60 | 5,73 5,83 | 5,60 5,85 | 5,77 5,55 | 5,64 5,61 | 5,52 | 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper | erature with stand A E N | W/W W/W W/W | 5,52 5,61 5,69 | 5,60 5,52 5,85 | 5,53 5,59 5,82 | 5,53 5,54 5,93 | 5,52 5,52 5,94 | 5,5 5,5 5,8 | 2 5, 1 5, 7 5, | ,51 ,60 ,81 | 5,73 5,83 6,05 | 5,60 5,85 - | 5,77 5,55 - | 5,64 5,61 - | 5,52 - - | 5,58 - - |
| Size Model: B SEPR - (EN14825: 2018) High temp | erature with stand. A E N U | W/W W/W W/W | 5,52 5,61 | 5,60 5,52 | 5,53 5,59 | 5,53 5,54 | 5,52 5,52 | 5,5 5,5 | 2 5, 1 5, 7 5, | ,51 ,60 | 5,73 5,83 | 5,60 5,85 | 5,77 5,55 | 5,64 5,61 | 5,52 | 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temp | erature with stand. A E N U u erature with invert | W/W W/W W/W w/W | 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 | 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 | 5,5 5,5 5,8 5,6 | 2 5, 1 5, 7 5, 3 5, | ,51 ,60 ,81 | 5,73 5,83 6,05 6,04 | 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 | 5,64 5,61 - 5,85 | 5,52 - - - | 5,58 - - - |
| Size Model: B SEPR - (EN14825: 2018) High temp | erature with stand. A E N U erature with invert | W/W W/W W/W W/W ter fans (1) | 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 5,53 | 5,53 5,54 5,93 5,66 5,53 | 5,52 5,52 5,94 5,62 5,52 | 5,5 5,5 5,8 5,6 | 2 5, 1 5, 7 5, 3 5, | .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 | 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 | 5,64 5,61 - 5,85 | 5,52 - - - - 5,52 | 5,58 - - - - 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR SEPR - (EN14825: 2018) High temper | erature with stand. A E N U erature with invert | W/W W/W W/W W/W ter fans (1) W/W | 5,52 5,61 5,69 5,86 5,52 5,61 | 5,60 5,52 5,85 5,72 5,60 5,52 | 5,53 5,59 5,82 5,81 5,53 5,53 | 5,53 5,54 5,93 5,66 5,53 5,54 | 5,52 5,52 5,94 5,62 5,52 5,52 | 5,5 5,5 5,8 5,6 5,5 | 2 5 ₁ 1 5 ₁ 7 5 ₂ 3 5 ₃ 2 5 ₄ 1 5 | .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 | 5,60 5,85 - 6,05 5,60 5,85 | 5,77 5,55 - 5,78 5,77 5,55 | 5,64 5,61 - 5,85 5,64 5,61 | 5,52 - - - 5,52 | 5,58 - - - - 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR SEPR - (EN14825: 2018) High temper | erature with stand. A E N U erature with invert A E N | W/W W/W W/W W/W ter fans (1) W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 | 5,5 5,5 5,8 5,6 5,5 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, | .51 .60 .81 .77 .51 .60 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 | 5,60 5,85 - 6,05 5,60 5,85 | 5,77 5,55 - 5,78 5,77 5,55 | 5,64 5,61 - 5,85 5,64 5,61 | 5,52 - - - - 5,52 - | 5,58 - - - - 5,58 - |
| Size Model: B SEPR - (EN14825: 2018) High temp SEPR SEPR - (EN14825: 2018) High temp SEPR | erature with stand. A E N U erature with invert | W/W W/W W/W W/W ter fans (1) W/W | 5,52 5,61 5,69 5,86 5,52 5,61 | 5,60 5,52 5,85 5,72 5,60 5,52 | 5,53 5,59 5,82 5,81 5,53 5,53 | 5,53 5,54 5,93 5,66 5,53 5,54 | 5,52 5,52 5,94 5,62 5,52 5,52 | 5,5 5,5 5,8 5,6 5,5 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, | .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 | 5,60 5,85 - 6,05 5,60 5,85 | 5,77 5,55 - 5,78 5,77 5,55 | 5,64 5,61 - 5,85 5,64 5,61 | 5,52 - - - 5,52 | 5,58 - - - - 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U | W/W W/W W/W W/W (er fans (1) W/W W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 | 5,5 5,5 5,8 5,6 5,5 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, | .51 .60 .81 .77 .51 .60 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 | 5,60 5,85 - 6,05 5,60 5,85 | 5,77 5,55 - 5,78 5,77 5,55 | 5,64 5,61 - 5,85 5,64 5,61 | 5,52 - - - - 5,52 - | 5,58 - - - - 5,58 - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G | erature with stand A E N U erature with invert A E N U | W/W W/W W/W ter fans (1) W/W W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 5,62 | 5,5 5,5 5,8 5,6 5,5 5,5 5,5 5,8 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, 3 5, | .51 .60 .81 .77 .51 .60 .81 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,05 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 | 5,52 - - - - 5,52 - - | 5,58 - - - - 5,58 - - |
| Size Model: B SEPR - (EN14825: 2018) High temp SEPR - (EN14825: 2018) High temp SEPR - (EN14825: 2018) High temp SEPR Model: G | erature with stand A E N U erature with invert A E N U erature with stand | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 5,62 | 5,5 5,5 5,8 5,6 5,5 5,5 5,8 5,6 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, 3 5, | .51 .60 .81 .77 .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 | 5,52 - - - 5,52 - - - - 5,51 | 5,58 - - - - 5,58 - - - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A Erature with stand A E | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 5,62 | 5,5 5,5 5,8 5,6 5,5 5,5 5,8 5,6 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, 3 5, | .51 .60 .81 .77 .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,85 | 5,52 - - - 5,52 - - - - 5,51 | 5,58 - - - - 5,58 - - - - - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A E N N N N | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 5,57 5,65 5,72 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 5,64 5,52 5,90 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 5,57 5,61 5,84 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 5,62 5,51 5,49 | 5,5 5,5 5,8 5,6 5,5 5,5 5,8 5,6 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, 3 5, 0 5, | .51 .60 .81 .77 .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 5,75 5,81 6,08 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 5,64 5,87 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,58 | 5,52 - - - 5,52 - - - - | 5,58 - - - 5,58 - - - 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A E E N U erature with stand A E N U | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W W/ | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 | 5,52 5,52 5,94 5,62 5,52 5,52 5,94 5,62 | 5,5 5,5 5,8 5,6 5,5 5,5 5,8 5,6 | 2 5, 1 5, 7 5, 3 5, 2 5, 1 5, 7 5, 3 5, 0 5, | .51 .60 .81 .77 .51 .60 .81 .77 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,85 | 5,52 - - - 5,52 - - - - 5,51 | 5,58 - - - - 5,58 - - - - - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A E N U erature with stand A E N U erature with stand A E N U erature with invert | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W W/W W/W W/ | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 5,57 5,65 5,72 5,91 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 5,64 5,52 5,90 5,76 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 5,57 5,61 5,84 5,87 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 5,53 5,55 5,53 5,55 5,57 5,73 | 5,52 5,52 5,62 5,62 5,52 5,52 5,62 5,62 | 5,5 5,5 5,6 5,6 5,5 5,5 5,6 5,6 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 1 5, 1 5, 1 5, 1 5, 1 | 551 660 881 777 551 660 881 777 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 5,75 5,81 6,08 6,09 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 5,64 5,87 - 6,09 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 - 5,81 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,58 - 5,87 | 5,52 - - - 5,52 - - - - - - | 5,58 - - 5,58 - - - - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper SEPR Model: G SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A E N U erature with invert A A A A A A A A A A A A A A A A A A A | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W W/W W/W W/ | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 5,57 5,65 5,72 5,91 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 5,64 5,52 5,90 5,76 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 5,57 5,61 5,84 5,87 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 5,53 5,55 5,55 5,57 5,73 | 5,52 5,52 5,62 5,62 5,52 5,52 5,62 5,62 | 5,5 5,5 5,6 5,6 5,5 5,5 5,6 5,6 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 | 551 660 881 777 551 660 881 777 551 662 884 882 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 5,75 5,81 6,08 6,09 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 5,64 5,87 - 6,09 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 - 5,81 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,58 - 5,87 | 5,52 - - - 5,52 - - - - 5,51 | 5,58 - - - 5,58 - - - - - 5,58 |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR - (EN14825: 2018) High temper | erature with stand A E N U erature with invert A E N U erature with stand A E N U erature with stand A E N U erature with invert A E N U | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W W/W W/W W/ | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 5,57 5,65 5,72 5,91 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 5,64 5,52 5,90 5,76 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 5,57 5,61 5,84 5,87 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 5,53 5,55 5,55 5,57 5,73 | 5,52 5,52 5,62 5,62 5,52 5,52 5,62 5,62 | 5,5 5,5 5,6 5,6 5,5 5,5 5,6 5,6 5,5 5,5 | 2 5, 1 5, 7 5, 3 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 | 551 660 881 777 551 660 881 777 551 662 884 882 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 5,75 5,81 6,08 6,09 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 5,64 5,87 - 6,09 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 - 5,81 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,58 - 5,66 5,58 | 5,52 - - - 5,52 - - - - 5,51 - - - | 5,58 - - - 5,58 - - - - - - - - |
| Size Model: B SEPR - (EN14825: 2018) High temper SEPR SEPR - (EN14825: 2018) High temper SEPR | erature with stand A E N U erature with invert A E N U erature with stand A E N U erature with invert A A A A A A A A A A A A A A A A A A A | W/W W/W W/W W/W ter fans (1) W/W W/W W/W W/W W/W W/W W/W W/W W/W W/ | 5,52 5,61 5,69 5,86 5,52 5,61 5,69 5,86 5,57 5,65 5,72 5,91 | 5,60 5,52 5,85 5,72 5,60 5,52 5,85 5,72 5,64 5,52 5,90 5,76 | 5,53 5,59 5,82 5,81 5,53 5,59 5,82 5,81 5,57 5,61 5,84 5,87 | 5,53 5,54 5,93 5,66 5,53 5,54 5,93 5,66 5,53 5,55 5,55 5,57 5,73 | 5,52 5,52 5,62 5,62 5,52 5,52 5,62 5,62 | 5,5 5,5 5,6 5,6 5,5 5,5 5,6 5,6 5,5 5,5 | 2 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 5,1 | 551 660 881 777 551 660 881 777 551 662 884 882 | 5,73 5,83 6,05 6,04 5,73 5,83 6,05 6,04 5,75 5,81 6,08 6,09 | 5,60 5,85 - 6,05 5,60 5,85 - 6,05 5,64 5,87 - 6,09 | 5,77 5,55 - 5,78 5,77 5,55 - 5,78 5,77 5,51 - 5,81 | 5,64 5,61 - 5,85 5,64 5,61 - 5,85 5,66 5,58 - 5,87 | 5,52 - - - 5,52 - - - - 5,51 | 5,58 - - - 5,58 - - - - - - 5,58 |

ELECTRIC DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------|-----|---|-------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | |
| | A | А | 243,9 | 271,9 | 299,1 | 332,5 | 374,4 | 395,7 | 417,0 | 450,2 | 474,9 | 474,9 | 474,9 | 531,4 | 579,4 | 635,9 |
| Maximum current (FLA) | E,U | Α | 243,9 | 271,9 | 307,6 | 341,0 | 374,4 | 404,2 | 425,5 | 458,7 | 483,4 | 483,4 | 483,4 | 539,9 | 587,9 | 644,4 |
| | N | Α | 252,4 | 280,4 | 316,1 | 349,5 | 382,9 | 412,7 | 434,0 | 467,2 | 491,9 | 491,9 | 491,9 | 548,4 | 604,9 | 667,2 |
| | A | А | 265,5 | 307,3 | 350,2 | 388,2 | 419,8 | 466,8 | 484,0 | 519,5 | 529,4 | 529,4 | 529,4 | 661,9 | 701,8 | 831,3 |
| Peak current (LRA) | E,U | Α | 265,5 | 307,3 | 358,7 | 396,7 | 419,8 | 475,3 | 492,5 | 528,0 | 537,9 | 537,9 | 537,9 | 670,4 | 710,3 | 839,8 |
| | N | А | 274,0 | 315,8 | 367,2 | 405,2 | 428,3 | 483,8 | 501,0 | 536,5 | 546,4 | 546,4 | 546,4 | 678,9 | 727,3 | 862,6 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 2 60 | 02 6 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Electric data | | | | | | | | | | | | | | | | |
| | A | Α | 683,9 | 731,4 | 770,4 | 813,4 | 864,9 | 913 | 3,2 9 | 147,2 | 980,7 | 1028,7 | 1123,7 | 1162,7 | 1300,2 | 1419,2 |
| Maximum current (FLA) | E,U | Α | 700,9 | 739,9 | 793,2 | 836,2 | 887,7 | 7 930 |),2 9 | 72,7 | 997,7 | 1054,2 | 1132,2 | 1179,7 | - | - |
| | N | А | 715,2 | 771,2 | 818,7 | 870,2 | 921,7 | 7 955 | 5,7 9 | 189,7 | 1023,2 | - | - | - | - | - |
| | A | А | 858,2 | 930,7 | 953,4 | 1108,4 | 1163, | 9 129 | 0,2 1. | 287,2 | 1069,4 | 1096,3 | 1200,0 | 1222,7 | 1480,2 | 1603,2 |
| Peak current (LRA) | E,U | Α | 875,2 | 939,2 | 976,2 | 1131,2 | 1186, | 7 130 | 7,2 1 | 312,7 | 1086,4 | 1121,8 | 1208,5 | 1239,7 | - | - |
| | N | Α | 889,5 | 970,5 | 1001,7 | 1165.2 | 1220, | 7 133 | 27 1 | 329.7 | 1111.9 | | | | | |

GENERAL TECHNICAL DATA

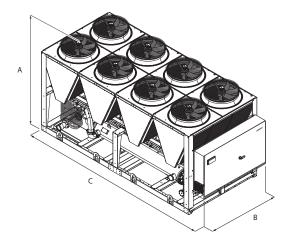
| GENERAL TECHNICAL DI | AIA | | | | | | | | | | | | | | | |
|---|---------|-------|--------|--------|--------|--------|--------|--------|---------|----------|--------|--------|--------|--------|--------|--------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Compressor | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Bi- | vite | | | | | | |
| Compressor regulation | A,E,N,U | Type | | | | | | | On- | -Off | | | | | | |
| Number | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | | | R1: | 34a | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Shell a | nd tube | | | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,E,N,U | Туре | | | | | | | Groove | d joints | | | | | | |
| Fan | | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Ax | ial | | | | | | |
| | Α | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 16 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 | 22 |
| | A | m³/h | 116000 | 116000 | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 174000 | 174000 | 203000 | 203000 | 232000 |
| Air flow rate | E | m³/h | 89600 | 89600 | 112000 | 112000 | 112000 | 134400 | 134400 | 156800 | 156800 | 156800 | 156800 | 179200 | 179200 | 201600 |
| Air now rate | N | m³/h | 112000 | 112000 | 134400 | 134400 | 134400 | 156800 | 156800 | 179200 | 179200 | 179200 | 179200 | 201600 | 224000 | 246400 |
| | U | m³/h | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 203000 | 203000 | 203000 | 203000 | 232000 | 232000 | 261000 |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | | | | | |
| | Α | dB(A) | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,0 | 99,7 | 99,7 | 99,7 | 99,7 | 100,4 | 100,4 | 101,1 |
| Country of the country of | E | dB(A) | 91,0 | 91,0 | 91,7 | 91,9 | 92,1 | 92,6 | 92,5 | 93,0 | 93,0 | 93,0 | 93,0 | 93,7 | 93,9 | 94,6 |
| Sound power level | N | dB(A) | 91,7 | 91,7 | 92,3 | 92,5 | 92,6 | 93,1 | 93,0 | 93,5 | 93,5 | 93,5 | 93,5 | 94,1 | 94,6 | 95,2 |
| | U | dB(A) | 98,0 | 98,0 | 98,9 | 99,0 | 99,0 | 99,7 | 99,7 | 100,4 | 100,4 | 100,4 | 100,4 | 100,9 | 101,0 | 101,5 |
| | A | dB(A) | 65,6 | 65,6 | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,1 | 67,1 | 67,6 | 67,7 | 68,2 |
| S 1 1 1 /10 \ | E | dB(A) | 58,6 | 58,6 | 59,2 | 59,4 | 59,5 | 59,9 | 59,9 | 60,3 | 60,3 | 60,3 | 60,3 | 60,8 | 61,0 | 61,6 |
| Sound pressure level (10 m) | N | dB(A) | 59,2 | 59,2 | 59,7 | 59,9 | 60,0 | 60,3 | 60,3 | 60,6 | 60,6 | 60,6 | 60,6 | 61,1 | 61,5 | 62,0 |
| | U | dB(A) | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,6 | 67,6 | 67,6 | 67,6 | 68,1 | 68,1 | 68,5 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---|---------|-------|--------|--------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|--------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Bi-vite | | | | | | |
| Compressor regulation | A,E,N,U | Туре | | | | | | | 0n-0ff | | | | | | |
| | Α | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | - | - | - | - | - |
| | A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| Circuits | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | - | - |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | - | - | - | - | - |
| Refrigerant | A,E,N,U | type | | | | | | | R134a | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | S | hell and tub | e | | | | | |
| | Α | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number | E,U | no. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| | N | no. | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - |
| Connections (in/out) | A,E,N,U | Type | | | | | | (| irooved join | ts | | | | | |
| Fan | | | | | | | | | | | | | | | |
| Туре | A,E,N,U | type | | | | | | | Axial | | | | | | |
| | A | no. | 16 | 18 | 18 | 18 | 20 | 22 | 22 | 24 | 24 | 28 | 28 | 30 | 34 |
| Number | E,U | no. | 20 | 20 | 22 | 22 | 24 | 26 | 28 | 28 | 30 | 30 | 32 | - | - |
| | N | no. | 22 | 26 | 28 | 30 | 32 | 32 | 32 | 34 | - | - | - | - | - |
| | A | m³/h | 232000 | 261000 | 261000 | 261000 | 290000 | 319000 | 319000 | 348000 | 348000 | 406000 | 406000 | 435000 | 493000 |
| Air flow rate | E | m³/h | 224000 | 224000 | 246400 | 246400 | 268800 | 291200 | 313600 | 313600 | 336000 | 336000 | 358400 | - | - |
| All flow fate | N | m³/h | 246400 | 291200 | 313600 | 336000 | 358400 | 358400 | 358400 | 380800 | - | - | - | - | - |
| | U | m³/h | 290000 | 290000 | 319000 | 319000 | 348000 | 377000 | 406000 | 406000 | 435000 | 435000 | 464000 | - | - |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | | | | | |
| | Α | dB(A) | 101,1 | 101,6 | 101,6 | 101,6 | 102,1 | 102,5 | 102,5 | 102,7 | 102,8 | 103,4 | 103,4 | 103,7 | 104,2 |
| Sound power level | E | dB(A) | 95,2 | 95,2 | 95,4 | 95,6 | 96,0 | 96,2 | 96,4 | 96,0 | 96,5 | 96,4 | 96,6 | - | - |
| Souria power level | N | dB(A) | 95,5 | 96,0 | 96,2 | 96,6 | 96,9 | 96,9 | 96,9 | 96,7 | - | - | - | - | - |
| | U | dB(A) | 102,0 | 102,0 | 102,4 | 102,4 | 102,8 | 103,1 | 103,4 | 103,4 | 103,7 | 103,7 | 103,9 | - | - |
| | Α | dB(A) | 68,2 | 68,6 | 68,6 | 68,6 | 69,0 | 69,2 | 69,2 | 69,4 | 69,4 | 69,8 | 69,8 | 70,0 | 70,4 |
| Cound avecous level (10 m) | E | dB(A) | 62,1 | 62,0 | 62,2 | 62,3 | 62,7 | 62,8 | 62,9 | 62,5 | 62,8 | 62,8 | 62,8 | - | - |
| Sound pressure level (10 m) | N | dB(A) | 62,3 | 62,5 | 62,6 | 62,9 | 63,1 | 63,1 | 63,1 | 62,8 | - | - | - | - | - |
| | U | dB(A) | 68,9 | 68,9 | 69,1 | 69,2 | 69.5 | 69.7 | 69.9 | 69.8 | 70.0 | 70.0 | 70.2 | - | - |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Ci | | | 1402 | 1/02 | 1002 | 2002 | 2202 | 2252 | 2502 | 2/52 | 2002 | 2002 | 2202 | 2402 | 2602 | 2002 |
|------------------------|---------|----|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | А | mm | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 |
| C | E,U | mm | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 | 10710 |
| | N | mm | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 9520 | 10710 | 11900 | 13090 |
| Size | | | 4202 | 4502 | 4802 | 5202 | 5602 | . 60 | 02 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
| Dimensions and weights | | | | | | | | | | | | | | | | |
| | А | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 24 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| A | E,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 24 | 50 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - |
| | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 24 | 50 | 2450 | 2450 | - | - | - | - | - |
| | А | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 22 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| В | E,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 22 | 00 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 22 | 00 | 2200 | 2200 | - | - | - | - | - |
| | A | mm | 9520 | 10710 | 10710 | 10710 | 11900 | 130 | 190 | 13090 | 14280 | 14280 | 16660 | 16660 | 17850 | 20230 |
| C | E,U | mm | 11900 | 11900 | 13090 | 13090 | 14280 |) 154 | 70 | 16660 | 16660 | 17850 | 17850 | 19040 | - | - |
| | N | mm | 13090 | 15470 | 16660 | 17850 | 19040 |) 190 | 140 | 19040 | 20230 | - | - | - | - | - |

For transport reasons, the units with the depth of more than 13090 mm are shipped separately. For more information, please refer to the technical manual and / or installation.



















NSM-HWT-1402-9603-F

Air-water chiller with free-cooling

Cooling capacity 306 ÷ 2001 kW



- · High efficiency also at partial loads
- Microchannel coil
- Ideal in data center applications
- Water outlet temperatures up to 30°C
- Night mode



DESCRIPTION

The NSM are chillers, designed and manufactured to meet air conditioning requirements in residential/commercial buildings or to meet refrigeration requirements in industrial facilities.

These are outdoor units with screw compressors, axial fans, micro-channel coils, and shell and tube heat exchangers. The base, the structure and the panels are made of steel treated with rustproof polyester paint.

These chillers are also equipped with a Free cooling coil and are used when the refrigerant load request persists even during the winter months, or when the outdoor air temperature is below the temperature of the return liquid from the system. In Free cooling operation (mixed Free cooling and compressors, or Free cooling only), the fluid is cooled directly by the outdoor air, allowing even the complete shutdown of compressors with a significant energy saving.

Extremely reliable and flexible units which perfectly adapt themselves to all thermal load requests thanks to inverter technology, with high energy efficiencies both at full and partial load.

VERSIONS

NSM WF_A High Efficiency

NSM WF_E High efficiency low noise **NSM WF_U** Very high efficiency

NSM WF_N Very high efficiency low noise

FEATURES

- Unit with 1/2 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.
- The full range uses aluminium microchannel coils, ensuring very high levels of efficiency. This allows using less refrigerant compared to traditional copper coils.
- Electronic Thermostatic valve brings significant benefits, in particular when the refrigerant is working at partial loads to the benefit of energy efficiency of the unit.
- Standard differential pressure switch

- Throttle valve in the hydraulic circuit for water switching on the Free-Cooling coils
- Fans inverter
- Device for electronically controlling the series condensation, for operation even at low temperatures or in free cooling, which allows adjusting the air flow rate to actual system demand with resulting advantages in terms of consumption reduction.

CONTROLS

Microprocessor adjustment, that allows isolating the condenser coils to maximise the free cooling efficiency, even in mixed Free cooling and compressor operation

- Complete with latest generation Touch screen allowing real time graphics visualization showing water and external air temperatures, pressures and requested load.
- Ethernet communication is offered as standard and allows all information to be visualized on a PC connected to the controller (via IP and browser).
- The presence of a programmable timer allows setting time bands of operation and a possible second set-point
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis. **PRV3:** Allows you to control the chiller at a distance.

FB1: Air filter

MULTICHILLER_EVO: Control system for multiple parallel installed constant flow chillers providing individual chiller on/off and control capability. **AVX:** Spring anti-vibration supports

ACCESSORIES FACTORY FITTED ONLY

KRS: Evaporator trace heating **GP:** Anti-intrusion grids.

AK: ACOUSTIC KIT. This accessory allows further sound reduction. Must be requested at time of order and is available factory fitted only. **RIF:** Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| AER485P1 | | •(x2) |
| AERNET | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | | • | • | • | • | • | | • | • | • | • | • | • | • |
| FB1 | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | | | | • | • | • | • | • | • | | | | | |
| AVX | (1) | • | • | • | • | • | ٠ | • | • | • | • | • | • | • |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 |)2 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 | | •(x2) | •(x2) | •(x2) | •(x2) | •(x2) | •(x2 | 2) | •(x2) | •(x2) | •(x3) | •(x3) | •(x3) | •(x3) |
| AERNET | | | | | • | | | | | | | | | • |
| PRV3 | | • | • | • | • | • | • | | • | • | • | • | • | • |
| FB1 | | • | • | | • | | | | | | • | | | • |
| MULTICHILLER_EVO | | • | • | • | • | • | • | | • | • | • | • | • | • |
| AVX | (1) | • | • | • | • | | • | | | • | • | • | • | • |

⁽¹⁾ Accessories to be defined for compatibility

KRS: Evaporator trace heating

| Ver | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| all | (1) | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | | | | | | | | | | | | | | |
| Ver | | 3902 | 4202 | 4502 | 4802 | 5202 | 56 | i02 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| all | (1) | • | • | • | | | | • | • | • | • | • | • | • |

GP: Anti-intrusion grids

| Ver | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| all | (1) | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | | | | | | | | | | | | | | |
| Ver | | 3902 | 4202 | 4502 | 4802 | 5202 | 56 | 02 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| all | (1) | • | • | • | | • | | • | • | • | • | • | • | • |

AK: Acoustic kit

| Ver | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| all | (2) | • | • | • | • | • | • | • | | • | • | • | • | • |
| | | | | | | | | | | | | | | |
| Ver | | 3902 | 4202 | 4502 | 4802 | 5202 | 56 | 02 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| all | (2) | • | • | • | • | | | | | • | • | • | • | • |

RIF: Power factor correction

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----|------------|-------------|-------------|-------------|-------------|------------|------------|----------|--------------|--------------|------------|------------|------------|
| all | RIFNSM1402 | RIFNSM1602 | RIFNSM1802 | RIFNSM2002 | RIFNSM2202 | RIFNSM2352 | RIFNSM2502 | RIFNSM26 | 52 RIFNSM280 | 2 RIFNSM3002 | RIFNSM3202 | RIFNSM3402 | RIFNSM3602 |
| | | | | | | | | | | | | | |
| Ver | 3902 | 4202 | 4502 | 4802 | 2 52 | 02 5 | 602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| all | RIFNSM3902 | 2 RIFNSM420 |)2 RIFNSM45 | 502 RIFNSM4 | 1802 RIFNSA | 15202 RIFN | SM5602 RIF | NSM6002 | RIFNSM6402 | RIFNSM6903 | RIFNSM7203 | RIFNSM8403 | RIFNSM9603 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

⁽x2) Indicates the amount to order

⁽¹⁾ Accessories to be defined for compatibility
A grey background indicates the accessory must be assembled in the factory

⁽¹⁾ Accessories to be defined for compatibility
A grey background indicates the accessory must be assembled in the factory

⁽²⁾ The accessory is only available for the "E/N" silenced versions
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| <u>Field</u> | Description |
|--------------|---|
| 1,2,3 | NSM |
| 4,5,6,7 | Size 1402-1602-1802-2002-2202-2352-2502-2652-2802-3002-3202-3402-3602-3902-4202-4502-4802-5202-5602-6002-6402-6903-7203-8403-9603 |
| 8 | Operating field |
| W | Electronic thermostatic valve (temperature of water produced from 5°C to 30 °C) |
| 9 | Model |
| F | Free-cooling |
| P | Free-cooling plus (1) |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| U | Very high efficiency |
| N | Silenced very high efficiency |
| 12 | Condensing coils / Free cooling water coils |
| • | Aluminium microchannel / Copper Aluminium |
| 0 | Painted aluminium microchannel / Painted Aluminium Copper |
| R | Copper - Copper (1) / Copper Copper |
| <u> </u> | Copper - Thinned (1) / Copper - Thinned |
| V | Epoxy paint (only free cooling coil)(1) / Epoxy paint (only free cooling coil) |
| 13 | Fans |
| | Inverter |
| 14 | Power supply |
| 15.16 | 400V/3/50Hz |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| PA | Pumping unit (pump A) |
| PB | Pumping unit (pump B) |
| PC PC | Pumping unit (pump C) |
| PD | Pumping unit (pump D) |
| PE | Pumping unit (pump E) |
| PF | Pumping unit (pump F) |
| PG | Pumping unit (pump G) |
| PH | Pumping unit (pump H) |
| PI | Pumping unit (pump I) |
| PJ | Pumping unit (pump J) |
| DA | Pumping unit (pump A and stand-by pump) |
| DB | Pumping unit (pump B and stand-by pump) |
| DC | Pumping unit (pump C and stand-by pump) |
| DD | Pumping unit (pump D and stand-by pump) |
| DE | Pumping unit (pump E and stand-by pump) |
| DF | Pumping unit (pump F and stand-by pump) |
| DG | Pumping unit (pump G and stand-by pump) |
| DH | Pumping unit (pump H and stand-by pump) |
| DI | Pumping unit (pump I and stand-by pump) |
| DJ | Pumping unit (pump J and stand-by pump) |
| TF | Double static, pressure pump (pump F) |
| TG | Double static, pressure pump (pump G) |
| TH | Double static, pressure pump (pump h) |
| TI | Double static, pressure pump (pump i) |
| TJ | Double static, pressure pump (pump J) |
| IJ | pounie static, pressure purity (purity 1) |

⁽¹⁾ The free cooling plus models can have coils only in options $"^{\circ \shortparallel}$ and "0"

NSMW - FA - PA

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|--|---|---|---|---|---|---|---|---|--|---|---|---|---|
| Free-cooling | | 1402 | 1002 | 1002 | 2002 | 2202 | 2332 | 2502 | 2032 | 2002 | 3002 | 3202 | 3402 | 3002 |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 306 | 351 | 400 | 441 | 479 | 505 | 546 | 589 | 638 | 653 | 687 | 753 | 792 |
| Input power | kW | 82 | 95 | 109 | 118 | 125 | 135 | 147 | 155 | 167 | 172 | 179 | 192 | 205 |
| | A | 146 | 166 | 187 | 200 | 208 | 224 | 242 | 258 | 277 | 290 | 306 | 327 | 348 |
| Cooling total input current EER | W/W | 3,75 | 3,69 | 3,69 | | 3,83 | | 3,71 | 3,79 | 3,81 | 3,80 | 3,84 | 3,92 | 3,86 |
| | | | | | 3,73 | | 3,73 | | | | | | | |
| Water flow rate system side | I/h | 52650 | 60360 | 68820 95 | 75940 76 | 82440 89 | 86790 | 93850 | 101330 | 109680 91 | 112330 96 | | 129500 | 136230 |
| Pressure drop system side | kPa | 60 | 80 | 93 | /0 | 07 | 99 | 116 | 85 | 91 | 90 | 84 | 93 | 103 |
| Cooling performances with free-cooling (2) | LAM | 226 | 251 | 262 | 270 | 440 | AFA | 462 | F42 | FF1 | FFA | 550 | CAA | ([1 |
| Cooling capacity | kW kW | 336 | 351 | 363 | 370 | 449 | 454 | 462 | 542 | 551 | 554 | 559 | 644 | 651 |
| Input power | | 19,3 | 19,3 | 19,3 | 19,3 | 24,1 | 24,1 | 24,1 | 28,9 | 28,9 | 28,9 | 28,9 | 33,7 | 33,7 |
| Free cooling total input current | Α | 30,0 | 30,0 | 30,0 | 30,0 | 37,6 | 37,6 | 37,6 | 45,1 | 45,1 | 45,1 | 45,1 | 52,6 | 52,6 |
| EER | W/W | 17,43 | 18,20 | 18,82 | 19,20 | 18,63 | 18,86 | 19,16 | 18,74 | 19,06 | 19,15 | 19,32 | 19,11 | 19,29 |
| Water flow rate system side | l/h | 52650 | 60360 | 68820 | 75940 | 82440 | 86790 | 93850 | 101330 | 109680 | | | 129500 | 136230 |
| Pressure drop system side | kPa | 87 | 115 | 139 | 129 | 133 | 147 | 171 | 128 | 141 | 147 | 141 | 146 | 161 |
| Free-cooling Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 305 | 349 | 398 | 439 | 477 | 502 | 543 | 587 | 635 | 650 | 683 | 749 | 788 |
| Input power | kW | 82 | 96 | 109 | 120 | 126 | 136 | 148 | 157 | 169 | 174 | 181 | 194 | 207 |
| Cooling total input current | A | 147 | 167 | 188 | 201 | 210 | 226 | 244 | 260 | 279 | 292 | 308 | 330 | 351 |
| EER | W/W | 3,70 | 3,64 | 3,64 | 3,68 | 3,78 | 3,68 | 3,66 | 3,74 | 3,76 | 3,74 | 3,78 | 3,86 | 3,80 |
| Water flow rate system side | l/h | 52410 | 60090 | 68480 | 75580 | 82100 | 86410 | 93420 | 100950 | 109190 | | | 128910 | 135580 |
| Pressure drop system side | kPa | 59 | 79 | 94 | 75 | 89 | 98 | 115 | 84 | 90 | 95 | 83 | 92 | 102 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 361 | 378 | 391 | 399 | 484 | 490 | 497 | 584 | 594 | 597 | 602 | 694 | 701 |
| Input power | kW | 19,7 | 19,7 | 19,7 | 19,7 | 24,6 | 24,6 | 24,6 | 29,5 | 29,5 | 29,5 | 29,5 | 34,4 | 34,4 |
| Free cooling total input current | Α | 30,6 | 30,6 | 30,6 | 30,6 | 38,2 | 38,2 | 38,2 | 45,9 | 45,9 | 45,9 | 45,9 | 53,5 | 53,5 |
| EER | W/W | 18,35 | 19,22 | 19,89 | 20,29 | 19,69 | 19,93 | 20,25 | 19,81 | 20,15 | 20,24 | 20,41 | 20,19 | 20,38 |
| Water flow rate system side | l/h | 52410 | 60090 | 68480 | 75580 | 82100 | 86410 | 93420 | 100950 | 109190 | 111820 | 117510 | 128910 | 135580 |
| Pressure drop system side | kPa | 86 | 114 | 138 | 128 | 131 | 145 | 169 | 127 | 139 | 146 | 139 | 145 | 160 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 (| 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 (| 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity | kW | 853 | 882 | 959 | 1014 | 1082 | 1169 | 9 12 | 262 | 1327 | 1476 | 1531 | 1758 | 2001 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power | kW | 853 216 | 882 228 | 959 244 | 1014 260 | 1082 281 | 1169 295 | 9 12 | 262 319 | 1327 343 | 1476 373 | 1531 388 | 1758 442 | 2001 512 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 853 216 362 | 882 228 377 | 959 244 416 | 1014 260 453 | 1082 281 478 | 1169 295 494 | 9 12 5 3 4 5 | 262 119 531 | 1327 343 567 | 1476 373 646 | 1531 388 683 | 1758 442 740 | 2001 512 854 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 853 216 362 3,95 | 882 228 377 3,87 | 959 244 416 3,92 | 1014 260 453 3,90 | 1082 281 478 3,86 | 1169 295 494 3,97 | 9 12 5 3 4 5 7 3 | 262 819 531 ,95 | 1327 343 567 3,87 | 1476 373 646 3,96 | 1531 388 683 3,94 | 1758 442 740 3,97 | 2001 512 854 3,91 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 853 216 362 3,95 146650 | 882 228 377 3,87 151620 | 959 244 416 3,92 165010 | 1014 260 453 3,90 174350 | 1082 281 478 3,86 186190 | 1169 295 494 3,97 0 20119 | 9 12 5 3 4 5 7 3 50 21 | 262 319 531 ,95 7040 2 | 1327 343 567 3,87 28220 | 1476 373 646 3,96 253930 | 1531 388 683 3,94 263260 | 1758 442 740 3,97 302310 | 2001 512 854 3,91 344170 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 853 216 362 3,95 | 882 228 377 3,87 | 959 244 416 3,92 | 1014 260 453 3,90 | 1082 281 478 3,86 | 1169 295 494 3,97 | 9 12 5 3 4 5 7 3 50 21 | 262 819 531 ,95 | 1327 343 567 3,87 | 1476 373 646 3,96 | 1531 388 683 3,94 | 1758 442 740 3,97 | 2001 512 854 3,91 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa | 853 216 362 3,95 146650 69 | 882 228 377 3,87 151620 74 | 959 244 416 3,92 165010 91 | 1014 260 453 3,90 174350 | 1082 281 478 3,86 186190 94 | 1169 295 494 3,97 0 20119 | 9 12 5 3 7 3 7 3 550 212 | 262 319 531 ,95 7040 2 | 1327 343 567 3,87 28220 | 1476 373 646 3,96 253930 116 | 1531 388 683 3,94 263260 116 | 1758 442 740 3,97 302310 117 | 2001 512 854 3,91 344170 138 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa | 853 216 362 3,95 146650 69 | 882 228 377 3,87 151620 74 | 959 244 416 3,92 165010 91 | 1014 260 453 3,90 174350 101 | 1082 281 478 3,86 186190 94 | 1169 295 494 3,97 0 2011! 110 | 9 1.3 5 3 3 5 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 | 262 819 831 ,95 7040 2 | 1327 343 567 3,87 28220 144 | 1476 373 646 3,96 253930 116 | 1531 388 683 3,94 263260 116 | 1758 442 740 3,97 302310 117 | 2001 512 854 3,91 344170 138 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 853 216 362 3,95 146650 69 735 38,5 | 882 228 377 3,87 151620 74 740 38,5 | 959 244 416 3,92 165010 91 827 43,4 | 1014 260 453 3,90 174350 101 836 43,4 | 1082 281 478 3,86 186190 94 845 43,4 | 1169 295 494 3,97 0 2011! 110 | 9 12 5 3 7 3 7 3 7 1 1 1 5 1 1 5 1 1 5 1 1 5 1 1 1 1 1 1 1 | 262 319 531 ,95 7040 2 130 | 1327 343 567 3,87 28220 144 | 1476 373 646 3,96 253930 116 | 1531 388 683 3,94 263260 116 | 1758 442 740 3,97 302310 117 1402 72,3 | 2001 512 854 3,91 344170 138 1590 81,9 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 853 216 362 3,95 146650 69 735 38,5 60,1 | 882 228 377 3,87 151620 74 740 38,5 60,1 | 959 244 416 3,92 165010 91 827 43,4 67,6 | 1014 260 453 3,90 174350 101 836 43,4 67,6 | 1082 281 478 3,86 186190 94 845 43,4 67,6 | 1169 295 494 3,97 3 2011! 110 935 48,2 75,1 | 9 13 5 3 7 3 7 3 7 3 10 1 10 1 5 11 5 2 5 5 2 5 | 262 319 331 ,95 7040 2 330 025 33,0 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 | 2001 512 854 3,91 344170 138 1590 81,9 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 | 9 1: 5 3 7 3 70 21: 0 1 5 10 5 11 8 12 8 19 9 159 | 262 319 331 ,95 7040 2 330 025 33,0 52,6 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 | 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 | 9 13 5 3 4 5 7 3 7 3 10 1 5 10 5 11 8 1 8 19 19 1550 21 | 262 119 131 195 17040 2 130 1025 133,0 122,6 1933 17040 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 | 9 13 5 3 4 5 7 3 7 3 10 1 5 10 5 11 8 1 8 19 19 1550 21 | 262 119 131 195 17040 2 130 1025 133,0 122,6 1933 17040 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 | 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 | 9 13 5 3 4 5 7 3 7 3 10 1 5 10 5 11 8 1 8 19 19 1550 21 | 262 119 131 195 17040 2 130 1025 133,0 122,6 1933 17040 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 5 10 2 5 1 8 19 19 19 15 15 10 21: | 262 319 331 ,95 7040 2 330 025 33,0 22,6 9,33 7040 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 5 10 2 5 1 8 19 19 19 19 14 1: | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 10,00 10,000 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 5 10 2 5 1 8 19 19 19 19 14 1: | 262 319 331 ,95 7040 2 330 025 33,0 22,6 9,33 7040 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 5 11 2 5 5 1 8 8 19 19 15 550 21: 3 1 | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 10,00 10,000 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 5 11 8 1 99 19 199 19 18 3 1 4 1: 4 1: | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 7040 2 194 256 322 336 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Prescoling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 | 9 1: 5 33 4 55 7 3 3 50 21: 0 1 2 5 11 8 8 99 199 199 193 3 1 | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 7040 2 194 256 322 336 3,90 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 | 9 1: 5 3 4 5 7 3 7 3 7 3 7 5 0 21: 6 10 2 5 1 8 8 9 19 19 19 19 19 19 19 19 19 19 19 19 1 | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 7040 2 194 256 322 336 3,90 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 | 1082 281 478 3,86 18619(94 845 43,4 67,6 19,48 18619(159 1077 284 482 3,80 18523(| 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1164 298 498 3,91 0 2001! | 9 1: 5 3 4 5 7 3 7 3 7 3 7 5 0 21: 6 10 2 5 1 8 8 9 19 19 19 19 19 19 19 19 19 19 19 19 1 | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 7040 2 194 256 322 336 3,90 55990 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling performance swith free-cooling (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 | 1082 281 478 3,86 18619(94 845 43,4 67,6 19,48 18619(159 1077 284 482 3,80 18523(| 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1164 298 498 3,91 0 2001! | 9 1: 5 3 4 5 7 3 7 3 7 3 7 5 0 21: 6 10 1 8 8 9 19 19 19 19 19 19 19 19 19 19 19 19 1 | 262 319 331 ,95 7040 2 330 025 33,0 12,6 19,33 7040 2 194 256 322 336 3,90 55990 2 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance swith free-cooling (2) Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa kW kW A W/W L/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 849 218 365 3,90 146000 69 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 73 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 90 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 100 | 1082 281 478 3,86 18619(94 845 43,4 67,6 19,48 18619(159 1077 284 482 3,80 18523(93 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1164 298 498 3,91 0 2001: | 9 1: 5 3 4 5 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 | 262 319 331 ,95 7040 2 130 025 33,0 12,6 19,33 7040 2 194 256 322 336 3,90 55990 2 1129 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 142 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 115 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 115 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 115 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 136 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance swith free-cooling (2) Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa kW kW A W/W L/h kPa kW kW A | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 849 218 365 3,90 146000 69 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 73 797 39,3 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 90 891 44,2 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 100 900 44,2 | 1082 281 478 3,86 186199 94 845 43,4 67,6 19,48 186190 159 1077 284 482 3,80 185230 93 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1166 298 498 498 3,91 100 100 49,7 | 9 1: 5 3 4 55 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 | 262 319 331 ,95 7040 2 330 025 33,0 62,6 9333 7040 2 194 256 322 336 390 5990 2 1129 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 142 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 115 1384 68,8 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 115 1393 68,8 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 115 1510 73,7 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 136 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling performance chiller operation (1) Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling capacity Input power Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 849 218 365 3,90 146000 69 792 39,3 61,2 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 73 797 39,3 61,2 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 90 891 44,2 68,8 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 100 900 44,2 68,8 | 1082 281 478 3,86 18619(94 845 43,4 67,6 19,48 18619(19) 159 1077 284 482 3,80 18523(19) 93 910 44,2 68,8 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1164 298 498 3,91 0 2001: 109 1000 49,7 | 9 1: 5 3 4 5 7 3 7 50 21: 0 1 5 11 2 5 1 8 8 9 19 15 50 21: 3 1 4 1: 3 3 3 1 3 3 1 3 3 7 1 1 5 5 8 | 262 319 331 ,95 7040 2 330 025 33,0 62,6 9333 7040 2 194 256 322 336 3,90 5990 2 1129 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 142 1113 54,0 84,1 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 115 1384 68,8 107,0 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 115 1393 68,8 107,0 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 115 1510 73,7 114,7 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 136 1713 83,5 130,0 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prec-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A W/W A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 849 218 365 3,90 146000 69 792 39,3 61,2 20,16 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 73 797 39,3 61,2 20,28 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 90 891 44,2 68,8 20,16 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 100 900 44,2 68,8 20,36 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 1077 284 482 3,80 185230 93 910 44,2 68,8 20,58 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1166 298 498 3,91 109 109 49,7 76,5 | 9 1: 5 3 4 5 7 3 7 3 5 50 21: 0 1 6 11 6 11 8 19 19 5 50 21: 1 3 3 3 3 1 3 3 5 1 3 3 2 0 2 1 3 3 1 3 3 2 0 2 1 3 3 2 3 3 3 3 5 5 5 8 1 9 9 20 | 262 319 331 ,95 7040 2 330 025 33,0 025 33,0 22,6 33,0 22,6 33,0 22,6 33,0 22,6 23,0 24,0 25,0 26,0 27,0 28,0 29,0 20,0 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 142 1113 54,0 84,1 20,59 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 115 1384 68,8 107,0 20,12 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 115 1393 68,8 107,0 20,25 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 115 1510 73,7 114,7 20,49 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 136 1713 83,5 130,0 20,51 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling performance chiller operation (1) Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling capacity Input power Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 853 216 362 3,95 146650 69 735 38,5 60,1 19,07 146650 119 849 218 365 3,90 146000 69 792 39,3 61,2 | 882 228 377 3,87 151620 74 740 38,5 60,1 19,19 151620 127 878 230 381 3,81 150930 73 797 39,3 61,2 | 959 244 416 3,92 165010 91 827 43,4 67,6 19,07 165010 142 955 247 420 3,87 164290 90 891 44,2 68,8 | 1014 260 453 3,90 174350 101 836 43,4 67,6 19,27 174350 158 1009 262 456 3,84 173550 100 900 44,2 68,8 | 1082 281 478 3,86 186190 94 845 43,4 67,6 19,48 186190 159 1077 284 482 3,80 185230 93 910 44,2 68,8 20,58 | 1169 295 494 3,97 0 2011! 110 935 48,2 75,1 19,3 0 2011! 173 1166 298 498 3,91 109 109 49,7 76,5 | 9 1: 5 3 4 5 7 3 5 50 21: 0 1 6 11 6 11 8 19 19 5 50 21: 1 8 3 1 3 1 3 2 0 21: 7 1 1 5 5 8 19 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 262 319 331 ,95 7040 2 330 025 33,0 025 33,0 22,6 33,0 22,6 33,0 22,6 33,0 22,6 23,0 24,0 25,0 26,0 27,0 28,0 29,0 20,0 | 1327 343 567 3,87 28220 144 1033 53,0 82,6 19,49 28220 213 1320 346 571 3,81 27050 142 1113 54,0 84,1 | 1476 373 646 3,96 253930 116 1284 67,5 105,1 19,03 253930 165 1470 377 652 3,90 252860 115 1384 68,8 107,0 | 1531 388 683 3,94 263260 116 1293 67,5 105,1 19,17 263260 165 1524 392 688 3,89 262120 115 1393 68,8 107,0 | 1758 442 740 3,97 302310 117 1402 72,3 112,7 19,40 302310 179 1749 447 747 3,91 300800 115 1510 73,7 114,7 | 2001 512 854 3,91 344170 138 1590 81,9 127,7 19,42 344170 207 1991 517 861 3,85 342450 136 |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - FE - PE

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|---|---|---|---|---|---|---|--|--|---|--|---|-----------------------|-----------------------|
| Free-cooling | | 1102 | 1002 | 1002 | | | 2332 | | 2032 | | 3002 | 3202 | 5.102 | 5002 |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 315 | 362 | 415 | 456 | 478 | 524 | 551 | 599 | 626 | 641 | 667 | 735 | 772 |
| Input power | kW | 75 | 91 | 101 | 112 | 120 | 127 | 138 | 145 | 156 | 161 | 169 | 178 | 192 |
| Cooling total input current | A | 134 | 158 | 175 | 189 | 199 | 210 | 227 | 240 | 258 | 272 | 288 | 303 | 325 |
| EER EER | W/W | 4,19 | 3,97 | 4,09 | 4,07 | 3,98 | 4,13 | 4,00 | 4,12 | 4,02 | 3,97 | 3,95 | 4,13 | 4,03 |
| Water flow rate system side | I/h | | | 71300 | | 82240 | 90170 | | | 107680 | 110230 | | | 132800 |
| , | kPa | 54220 | 62220 | | 78430 | | | 94830 | 102950 | | | | 126390 | |
| Pressure drop system side | KPa | 42 | 49 | 64 | 76 | 85 | 61 | 66 | 68 | 74 | 79 | 80 | 51 | 58 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 267 | 273 | 337 | 342 | 344 | 408 | 411 | 474 | 478 | 479 | 482 | 548 | 551 |
| Input power | kW | 6,4 | 6,4 | 7,9 | 7,9 | 7,9 | 9,5 | 9,5 | 11,1 | 11,1 | 11,1 | 11,1 | 12,7 | 12,7 |
| Free cooling total input current | A | 9,4 | 9,4 | 11,8 | 11,8 | 11,8 | 14,1 | 14,1 | 16,5 | 16,5 | 16,5 | 16,5 | 18,8 | 18,8 |
| EER | W/W | 41,99 | 43,01 | 42,41 | 43,05 | 43,31 | 42,79 | 43,10 | 42,64 | 42,94 | 43,08 | 43,29 | 43,10 | 43,35 |
| Water flow rate system side | l/h | 54220 | 62220 | 71300 | 78430 | 82240 | 90170 | 94830 | 102950 | 107680 | 110230 | 114670 | 126390 | 132800 |
| Pressure drop system side | kPa | 71 | 86 | 97 | 115 | 127 | 95 | 104 | 102 | 112 | 118 | 122 | 89 | 99 |
| Free-cooling Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 314 | 360 | 412 | 453 | 474 | 521 | 548 | 595 | 622 | 637 | 662 | 730 | 767 |
| Input power | kW | 76 | 92 | 102 | 113 | 122 | 128 | 139 | 147 | 157 | 163 | 170 | 180 | 194 |
| Cooling total input current | A | 134 | 159 | 176 | 190 | 201 | 211 | 229 | 242 | 260 | 274 | 291 | 306 | 328 |
| EER EER | W/W | 4,14 | 3,92 | 4,03 | 4,00 | 3,90 | 4,07 | 3,93 | 4,06 | 3,96 | 3,90 | 3,88 | 4,06 | 3,95 |
| Water flow rate system side | I/h | 53990 | 61890 | 70890 | 77860 | 81600 | 89640 | 94230 | 102360 | 107020 | 109540 | | 125570 | 131860 |
| Pressure drop system side | kPa | 42 | 49 | 63 | 75 | 83 | 60 | 65 | 67 | 73 | 78 | 79 | 51 | 57 |
| Cooling performances with free-cooling (2) | NI d | TL | TJ | 03 | 13 | UJ | 00 | UJ. | U | 73 | 70 | 17 | 71 | JI |
| Cooling capacity | kW | 285 | 292 | 360 | 365 | 367 | 435 | 438 | 506 | 509 | 511 | 513 | 584 | 587 |
| | kW | | | | | 8,1 | 9,7 | | | | | | 12,9 | |
| Input power | | 6,5 | 6,5 | 8,1 | 8,1 | | | 9,7 | 11,3 | 11,3 | 11,3 | 11,3 | | 12,9 |
| Free cooling total input current | A | 9,6 | 9,6 | 11,9 | 11,9 | 11,9 | 14,3 | 14,3 | 16,7 | 16,7 | 16,7 | 16,7 | 19,1 | 19,1 |
| EER | W/W | 44,05 | 45,10 | 44,49 | 45,14 | 45,38 | 44,88 | 45,19 | 44,73 | 45,03 | 45,17 | 45,36 | 45,18 | 45,42 |
| Water flow rate system side | l/h | 53990 | 61890 | 70890 | 77860 | 81600 | 89640 | 94230 | 102360 | 107020 | 109540 | | 125570 | 131860 |
| Pressure drop system side | kPa | 70 | 86 | 96 | 113 | 125 | 94 | 102 | 101 | 110 | 116 | 120 | 88 | 98 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Ciro | | 2002 | 4202 | 4502 | 4902 | 5202 | E60° | 2 60 | 102 4 | 102 | 6002 | 7202 | 9402 | 0602 |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 2 60 | 002 | 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 2 60 | 002 | 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling Cooling performance chiller operation (1) | I.W. | | | | | | | | | | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity | kW | 823 | 870 | 932 | 1011 | 1070 | 1152 | 2 12 | 226 | 1300 | 1423 | 1502 | - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power | kW | 823 202 | 870 210 | 932 228 | 1011 241 | 1070 260 | 1152 275 | 2 12 | 226 96 | 1300 318 | 1423 350 | 1502 364 | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 823 202 339 | 870 210 348 | 932 228 388 | 1011 241 421 | 1070 260 443 | 1152 275 460 | ? 12 29 49 | 126 96 93 | 1300 318 526 | 1423 350 601 | 1502 364 631 | - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 823 202 339 4,07 | 870 210 348 4,15 | 932 228 388 4,09 | 1011 241 421 4,19 | 1070 260 443 4,12 | 1152 275 460 4,19 | 2 12 29 49 4, | 96 93 14 | 1300 318 526 4,09 | 1423 350 601 4,07 | 1502 364 631 4,13 | - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 823 202 339 | 870 210 348 | 932 228 388 | 1011 241 421 | 1070 260 443 4,12 | 1152 275 460 4,19 | 2 12 29 49 4, | 96 93 14 | 1300 318 526 4,09 | 1423 350 601 | 1502 364 631 | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 823 202 339 4,07 | 870 210 348 4,15 | 932 228 388 4,09 | 1011 241 421 4,19 | 1070 260 443 4,12 | 1152 275 460 4,19 | 2 12 29 49 4, 20 210 | 96 93 14 | 1300 318 526 4,09 | 1423 350 601 4,07 | 1502 364 631 4,13 | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 823 202 339 4,07 141610 | 870 210 348 4,15 149590 | 932 228 388 4,09 160240 | 1011 241 421 4,19 173870 | 1070 260 443 4,12 184060 | 1152 275 460 4,19 0 19812 | 2 12 29 49 4, 20 210 | 96 93 14 0870 2 | 1300 318 526 4,09 23620 | 1423 350 601 4,07 244770 | 1502 364 631 4,13 258380 | - - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W I/h | 823 202 339 4,07 141610 | 870 210 348 4,15 149590 | 932 228 388 4,09 160240 | 1011 241 421 4,19 173870 | 1070 260 443 4,12 184060 | 1152 275 460 4,19 0 19812 | 2 12 29 49 4, 4, 20 210 8 | 96 93 14 0870 2 | 1300 318 526 4,09 23620 | 1423 350 601 4,07 244770 | 1502 364 631 4,13 258380 | - - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa | 823 202 339 4,07 141610 69 | 870 210 348 4,15 149590 78 | 932 228 388 4,09 160240 91 | 1011 241 421 4,19 173870 86 | 1070 260 443 4,12 184060 94 | 1152 275 460 4,19 0 19812 65 | 2 122 29 49 4,0 4,0 20 210 8 | 9226 996 993 14 1870 2 | 1300 318 526 4,09 23620 81 | 1423 350 601 4,07 244770 105 | 1502 364 631 4,13 258380 105 | - - - - - | - - - - - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa | 823 202 339 4,07 141610 69 | 870 210 348 4,15 149590 78 | 932 228 388 4,09 160240 91 | 1011 241 421 4,19 173870 86 | 1070 260 443 4,12 184060 94 | 1152 275 460 4,19 0 19812 65 | 2 12 29 49 4,0 4,0 20 210 8 | 96 993 14 1870 2 31 | 1300 318 526 4,09 23620 81 | 1423 350 601 4,07 244770 105 | 1502 364 631 4,13 258380 105 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 823 202 339 4,07 141610 69 616 14,3 | 870 210 348 4,15 149590 78 680 15,9 | 932 228 388 4,09 160240 91 686 15,9 | 1011 241 421 4,19 173870 86 753 | 1070 260 443 4,12 184060 94 759 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 | 2 12 29 49 4,0 4,0 20 210 8 88 20 20 | 96 99 14 0870 2 31 | 1300 318 526 4,09 23620 81 960 22,3 32,9 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 | 1070 260 443 4,12 18406(94 759 17,5 25,9 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 | 2 122 29 49 49 4, 20 2100 88 89 20 20 301 302 432 433 | 96 99 14 9870 2 31 93 93 93 93 94 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,33 | 2 122 29 49 49 4, 4, 20 2100 8 8 89 20 20 20 210 210 210 210 210 210 210 21 | 96 99 14 9870 2 31 93 93 0,7 0,6 ,24 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 | 1423 350 601 4,07 2244770 105 1031 23,8 35,3 43,27 244770 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 | 1070 260 443 4,12 18406(94 759 17,5 25,9 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 | 2 122 29 49 49 4, 4, 20 2100 8 8 89 20 20 20 210 210 210 210 210 210 210 21 | 96 99 14 9870 2 31 93 93 0,7 0,6 ,24 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,33 | 2 122 29 49 49 4, 4, 20 2100 8 8 89 20 20 20 210 210 210 210 210 210 210 21 | 96 99 14 9870 2 31 93 93 0,7 0,6 ,24 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 | 1423 350 601 4,07 2244770 105 1031 23,8 35,3 43,27 244770 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 | 2 122 29 44 4, 4, 20 2100 8 8 20 210 2 43 20 2100 | 96 97 98 14 14 1870 2 181 193 103 104 108 107 108 108 108 108 108 108 108 108 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 | 2 122 29 49 4, 4, 20 2100 8 8 20 210 210 11: | 9226 996 993 14 1870 2 181 93 93 0,7 0,6 1,24 218 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 | 2 122 29 44 4, 4, 20 210 8 8 20 210 210 11: | 226 96 93 14 0870 2 31 93 00,7 00,6 00,24 0 00,7 021 021 021 021 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 | 2 122 29 44 4, 4, 20 2100 8 8 20 20 2 43 20 2100 11: | 96 97 98 14 1870 2 181 193 10,7 10,6 10,7 10,6 10,7 10 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 | 2 122 29 44 4, 4, 20 2100 8 8 20 20 2100 11: 4 122 4 30 20 2100 4 4: | 9226 996 993 14 1870 2 181 193 10,7 10,6 10,24 10,7 10,6 10,24 10,7 10 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 1063 263 448 4,04 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 1144 278 464 4,12 0 19675 | 2 122 29 44 4 4, 20 2100 8 8 20 2100 11: 4 122 4 30 20 2100 11: 4 122 4 4, 50 2050 | 226 96 93 14 0870 2 31 93 00,7 00,6 0,24 4 0870 2 211 218 00 97 007 0470 2 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 | 2 122 29 44 4 4, 20 2100 8 8 20 2100 11: 4 122 4 30 20 2100 11: 4 122 4 4, 50 2050 | 9226 996 993 14 1870 2 181 193 10,7 10,6 10,24 10,7 10,6 10,24 10,7 10 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance shiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 1063 263 448 4,04 18279(93 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 106 1144 278 464 4,12 0 19675 64 | 2 122 29 44 4 4, 20 2100 8 8 20 2100 11: 4 122 4 126 4 4, 50 2095 8 | 93 14 9870 2 31 93 31 93 30,7 00,6 02,24 4 0870 2 211 218 000 997 007 0470 2 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance shiller operation (2) Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 1063 263 448 4,04 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,32 0 19812 106 1144 278 464 4,12 0 19675 | 2 122 29 44 4, 4, 20 2100 8 8 20 2100 11: 4 122 4 126 50 2095 8 | 93 14 9870 2 31 93 31 93 30,7 00,6 02,24 4 0870 2 211 218 000 997 007 0470 2 330 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance shiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 1063 263 448 4,04 18279(93 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 106 1144 278 464 4,12 0 19675 64 | 2 122 29 44 4, 4, 20 2100 8 8 20 2100 11: 4 122 4 126 50 2095 8 | 93 14 9870 2 31 93 31 93 30,7 00,6 02,24 4 0870 2 211 218 000 997 007 0470 2 330 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling Plus Cooling performance shiller operation (2) Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 | 1070 260 443 4,12 18406(94 759 17,5 25,9 43,39 18406(140 1063 263 448 4,04 18279(93 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 106 1144 278 464 4,12 0 19675 64 | 2 122 29 44 4 4, 20 2100 8 8 20 2100 11: 4 122 4 4, 20 250 209 8 | 9226 96 93 14 1870 2 31 93 93 97 97 97 97 97 97 9470 2 30 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW KW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 | 1070 260 443 4,12 184060 94 759 17,5 25,9 43,39 184060 140 1063 263 448 4,04 182799 93 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 106 1144 278 464 4,12 0 19675 64 | 2 122 29 44 44, 4, 4, 20 2100 88 20 2100 11: 4 122 4 4, 50 2099 8 | 9226 96 93 14 1870 2 31 93 0,7 0,6 1,24 218 000 97 007 0470 2 30 52 1,0 1,0 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kPa kW kW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 657 14,5 21,5 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 732 16,2 23,9 45,26 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 | 1070 260 443 4,12 184060 94 759 17,5 25,9 43,39 184060 140 1063 263 448 4,04 182790 93 808 17,8 26,3 45,45 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,3; 0 19812 106 1144 278 464 4,12 0 19675 64 880 19,4 28,7 64 | 2 122 29 44 44, 4, 4, 20 2100 88 20 2100 11: 4 122 4 310 20 209 8 8 9, 4 1 22 7 3 30 0 45 | 926 96 93 14 1870 2 31 93 0,7 0,6 1,24 218 000 997 007 9470 2 30 52 1,0 1,0 5,32 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 1024 22,6 33,4 45,24 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 244770 150 1414 354 607 3,99 243180 104 1099 24,2 35,8 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kPa kW kW A W/W KW A W/W I/h kPa | 823 202 339 4,07 141610 69 616 14,3 21,2 43,07 141610 107 818 204 342 4,00 140680 68 657 14,5 21,5 45,16 | 870 210 348 4,15 149590 78 680 15,9 23,5 42,76 149590 114 865 212 351 4,08 148750 77 725 16,2 23,9 44,85 | 932 228 388 4,09 160240 91 686 15,9 23,5 43,17 160240 133 926 230 392 4,02 159230 90 732 16,2 23,9 | 1011 241 421 4,19 173870 86 753 17,5 25,9 43,10 173870 128 1005 244 425 4,12 172870 85 803 17,8 26,3 45,19 | 1070 260 443 4,12 184060 94 759 17,5 25,9 43,39 184060 140 1063 263 448 4,04 182790 93 808 17,8 26,3 45,45 | 1152 275 460 4,19 0 19812 65 826 19,1 28,2 43,3; 0 19812 106 1144 278 464 4,12 0 19675 64 880 19,4 28,7 64 | 2 122 29 44 44, 4, 20 2100 88 20 2100 11: 4 122 4 30 20 2100 11: 4 122 4 4, 20 209 8 | 926 96 93 14 1870 2 31 93 0,7 0,6 1,24 218 000 997 007 9470 2 30 52 1,0 1,0 5,32 | 1300 318 526 4,09 23620 81 960 22,3 32,9 43,16 23620 121 1292 321 531 4,02 22190 80 1024 22,6 33,4 45,24 | 1423 350 601 4,07 244770 105 1031 23,8 35,3 43,27 2244770 150 1414 354 607 3,99 243180 104 1099 24,2 35,8 45,35 | 1502 364 631 4,13 258380 105 1099 25,4 37,6 43,21 258380 150 1493 368 636 4,06 256800 104 1171 25,9 38,2 45,30 | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - FU - PU

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|--|---|--|---|---|--|--|--|--|--|---|---|------------------|--------|
| Free-cooling | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328 | 381 | 435 | 482 | 506 | 550 | 580 | 627 | 657 | 674 | 703 | 772 | 814 |
| Input power | kW | 84 | 98 | 112 | 121 | 128 | 138 | 148 | 159 | 168 | 172 | 178 | 191 | 203 |
| Cooling total input current | A | 148 | 170 | 192 | 204 | 212 | 229 | 244 | 263 | 279 | 291 | 305 | 326 | 345 |
| EER EER | W/W | 3,93 | 3,90 | 3,89 | 3,99 | 3,97 | 3,99 | 3,92 | 3,94 | 3,91 | 3,91 | 3,95 | 4,05 | 4,02 |
| Water flow rate system side | I/h | 56440 | 65570 | 74810 | 82890 | 87080 | 94670 | 99780 | 107790 | 113080 | | | 132770 | 139960 |
| Pressure drop system side | kPa | 46 | 54 | 71 | 84 | 94 | 66 | 72 | 74 | 81 | 86 | 87 | 56 | 64 |
| Cooling performances with free-cooling (2) | NI d | 40 | J 1 | / 1 | 04 | 24 | 00 | 12 | /4 | 01 | 00 | 07 | 30 | 04 |
| | kW | 244 | 250 | 127 | 450 | AFF | E22 | E 40 | 617 | 625 | 620 | 625 | 710 | 720 |
| Cooling capacity | kW | 344 | 359 | 437 | 450 | 455 | 533 | 540 | 617 | 625 | 629 | 635 | 719 | 728 |
| Input power | | 19,3 | 19,3 | 24,1 | 24,1 | 24,1 | 28,9 | 28,9 | 33,7 | 33,7 | 33,7 | 33,7 | 38,5 | 38,5 |
| Free cooling total input current | A | 30,0 | 30,0 | 37,6 | 37,6 | 37,6 | 45,1 | 45,1 | 52,6 | 52,6 | 52,6 | 52,6 | 60,1 | 60,1 |
| EER | W/W | 17,84 | 18,61 | 18,16 | 18,66 | 18,87 | 18,43 | 18,67 | 18,31 | 18,54 | 18,65 | 18,84 | 18,66 | 18,89 |
| Water flow rate system side | I/h | 56440 | 65570 | 74810 | 82890 | 87080 | 94670 | 99780 | 107790 | 113080 | | | 132770 | 139960 |
| Pressure drop system side | kPa | 77 | 95 | 107 | 127 | 142 | 104 | 114 | 111 | 122 | 129 | 134 | 97 | 109 |
| Free-cooling Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 327 | 380 | 433 | 480 | 504 | 548 | 578 | 624 | 655 | 671 | 700 | 769 | 810 |
| Input power | kW | 84 | 99 | 113 | 122 | 129 | 139 | 149 | 160 | 170 | 174 | 180 | 192 | 205 |
| Cooling total input current | А | | | | | | | | | | | | | |
| EER | W/W | 3,88 | 3,84 | 3,84 | 3,93 | 3,91 | 3,94 | 3,87 | 3,89 | 3,86 | 3,86 | 3,89 | 4,00 | 3,96 |
| Water flow rate system side | l/h | 56250 | 65300 | 74510 | 82510 | 86670 | 94290 | 99370 | 107380 | 112630 | 115420 | 120380 | 132250 | 139380 |
| Pressure drop system side | kPa | 46 | 54 | 70 | 83 | 93 | 66 | 72 | 73 | 80 | 85 | 86 | 55 | 63 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 370 | 386 | 471 | 484 | 490 | 574 | 582 | 665 | 674 | 678 | 685 | 775 | 785 |
| Input power | kW | 19,7 | 19,7 | 24,6 | 24,6 | 24,6 | 29,5 | 29,5 | 34,4 | 34,4 | 34,4 | 34,4 | 39,3 | 39,3 |
| Free cooling total input current | A | 17,1 | 17,1 | 21,0 | 21,0 | 21,0 | 27,5 | 27,5 | 3 1,1 | 31,1 | 3 1,1 | 31,1 | ررد <u>د</u> | 37,3 |
| EER EER | W/W | 18,82 | 19,66 | 19,17 | 19,72 | 19,94 | 19,47 | 19,73 | 19,34 | 19,59 | 19,71 | 19,91 | 19,72 | 19,97 |
| Water flow rate system side | I/h | 56250 | 65300 | 74510 | 82510 | 86670 | 94290 | 99370 | 107380 | 112630 | | | 132250 | 139380 |
| Pressure drop system side | kPa | 77 | 94 | 106 | 126 | 140 | 103 | 113 | 111 | 12030 | 128 | 133 | 96 | 108 |
| riessule drop system side | KFd | 11 | 74 | 100 | 120 | 140 | 103 | 113 | 1111 | 121 | 120 | 133 | 90 | 100 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 560 |)2 60 | 002 (| 6402 | 6903 | 7203 | 8403 | 9603 |
| Size Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 560 |)2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 560 |)2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling Cooling performance chiller operation (1) | kW | 3902 | 909 | 4502 978 | 4802 | 520 2 | | | | 1365 | 6903 | | 8403 | 9603 |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity | | 864 | 909 | 978 | 1059 | 1127 | 121 | 3 1. | 289 | 1365 | 1495 | 1576 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power | kW | 864 216 | 909 228 | 978 243 | 1059 260 | 1127 276 | 121 | 3 1: 3 3 | 289 317 | 1365 341 | 1495 372 | 1576 388 | - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 864 216 363 | 909 228 378 | 978 243 414 | 1059 260 454 | 1127 276 472 | 121 293 49. | 3 1: 3 3 | 289 117 529 | 1365 341 566 | 1495 372 639 | 1576 388 677 | - - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 864 216 363 3,99 | 909 228 378 3,99 | 978 243 414 4,02 | 1059 260 454 4,08 | 1127 276 472 4,09 | 121 29: 49: 4,1 | 3 1: 3 3 3 5 4 4 | 289 817 529 -,06 | 1365 341 566 4,00 | 1495 372 639 4,02 | 1576 388 677 4,06 | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 864 216 363 3,99 148610 | 909 228 378 3,99 156340 | 978 243 414 4,02 168140 | 1059 260 454 4,08 182140 | 1127 276 472 4,09 | 121 29 49 4,1 0 2086 | 13 1. 3 3 3 5 4 4 510 22 | 289 317 529 ,06 1670 2 | 1365 341 566 4,00 | 1495 372 639 4,02 257070 | 1576 388 677 4,06 271060 | - - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 864 216 363 3,99 | 909 228 378 3,99 | 978 243 414 4,02 | 1059 260 454 4,08 | 1127 276 472 4,09 | 121 29: 49: 4,1 | 13 1. 3 3 3 5 4 4 510 22 | 289 817 529 -,06 | 1365 341 566 4,00 | 1495 372 639 4,02 | 1576 388 677 4,06 | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa | 864 216 363 3,99 148610 75 | 909 228 378 3,99 156340 84 | 978 243 414 4,02 168140 99 | 1059 260 454 4,08 182140 94 | 1127 276 472 4,09 19379 103 | 121 29 49 4,1 0 2086 71 | 13 1. 33 3 33 5 4 4 4 510 22 | 289 317 529 ,,06 1670 2 | 1365 341 566 4,00 34730 88 | 1495 372 639 4,02 257070 116 | 1576 388 677 4,06 271060 116 | - - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa | 864 216 363 3,99 148610 75 | 909 228 378 3,99 156340 84 | 978 243 414 4,02 168140 99 | 1059 260 454 4,08 182140 94 | 1127 276 472 4,09 19379 103 | 121 29. 49. 4,1 0 20860 71 | 13 13 33 33 35 34 4 44 4510 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 317 529 ,06 1670 2 | 1365 341 566 4,00 34730 88 | 1495 372 639 4,02 257070 116 | 1576 388 677 4,06 271060 116 | - - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 864 216 363 3,99 148610 75 808 43,4 | 909 228 378 3,99 156340 84 886 48,2 | 978 243 414 4,02 168140 99 902 48,2 | 1059 260 454 4,08 182140 94 989 53,0 | 1127 276 472 4,09 19379 103 1003 53,0 | 121 299 499 4,1 00 2086 71 109 57, | 13 13 33 33 53 44 44 510 22 1 5 | 289 117 529 ,,06 1670 2 88 | 1365 341 566 4,00 34730 88 | 1495 372 639 4,02 257070 116 | 1576 388 677 4,06 271060 116 1446 77,1 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 864 216 363 3,99 148610 75 808 43,4 67,6 | 909 228 378 3,99 156340 84 886 48,2 75,1 | 978 243 414 4,02 168140 99 902 48,2 75,1 | 1059 260 454 4,08 182140 94 989 53,0 82,6 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 | 121 29: 49: 4,1 00 20866 71 109 57, | 13 13 33 33 53 54 44 44 610 22 1 1 1 88 66 11 9 | 289 317 529 ,06 11670 2 888 177 52,6 | 1365 341 566 4,00 34730 88 1262 67,5 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 | 1059 260 454 4,08 182140 94 989 53,0 82,6 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 | 121 29. 49. 4,1 70 20866 71 109 57, 90, 2 | 13 1: 33 3: 33 3: 54 4 4 510 22: 1 1: 101 1: 188 66 11 9: | 289 317 529 ,06 1670 2 88 177 2,6 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 | 1127 276 472 4,09 1 19379 103 1003 53,0 82,6 18,92 | 121 299 490 4,1 200 2086 71 109 57, 90, 2 18,6 00 2086 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 117 529 ,06 1670 2 88 177 ,2,6 ,7,6 8,78 | 1365 341 566 4,00 (34730 88 1262 67,5 105,1 18,71 (34730 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 | 1059 260 454 4,08 182140 94 989 53,0 82,6 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 | 121 299 490 4,1 200 2086 71 109 57, 90, 2 18,6 00 2086 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 317 529 ,06 1670 2 88 177 2,6 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 | 1127 276 472 4,09 1 19379 103 1003 53,0 82,6 18,92 | 121 299 490 4,1 200 2086 71 109 57, 90, 2 18,6 00 2086 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 117 529 ,06 1670 2 88 177 ,2,6 ,7,6 8,78 | 1365 341 566 4,00 (34730 88 1262 67,5 105,1 18,71 (34730 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 | 1127 276 472 4,09 1 19379 103 1003 53,0 82,6 18,92 | 121 299 490 4,1 200 2086 71 109 57, 90, 2 18,6 00 2086 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 117 529 ,06 1670 2 88 177 ,2,6 ,7,6 8,78 | 1365 341 566 4,00 (34730 88 1262 67,5 105,1 18,71 (34730 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 | 1127 276 472 4,09 1 19379 103 1003 53,0 82,6 18,92 | 121 299 491 4,1 90 2086 71 109 57, 90, 2 18,8 90 2086 11 | 13 1: 13 3 3 13 3 3 14 4 4 16 10 22 18 6 6 18 6 18 18 6 18 6 18 18 | 289 317 529 ,06 1670 2 88 177 22,6 77,6 8,78 1670 2 | 1365 341 566 4,00 (34730 88 1262 67,5 105,1 18,71 (34730 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 19379 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,80 110 110 120 120 120 120 120 120 120 12 | 13 1: 13 3 3 13 3 3 14 4 4 1610 22 18 6 6 18 6 18 18 6 10 22 16 11 1 9 18 6 1 1 1 9 18 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 317 529 ,06 1670 2 88 177 22,6 77,6 8,78 1670 2 132 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 1 19379 154 | 121 299 491 4,1 00 2086 71 57, 90, 22 18,8 00 2086 11 12 29 | 13 1: 13 3 3 13 3 3 14 4 4 16 10 22 18 6 18 18 6 18 6 18 18 6 1 | 289 317 529 ,06 1670 2 88 177 22,6 77,6 8,78 1670 2 132 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 19379 154 | 121 299 491 4,1 00 20866 71 57, 90, 22 18,8 00 20866 110 29 29 49 | 13 1: 13 3 3: 14 4 4 4 4 6: 10 22 1 5: 10 1 1 1 8 6: 11 9 86 18 6: 13 10 22 6: 14 10 10 10 10 10 10 10 10 10 10 10 10 10 | 289 317 529 ,06 11670 2 88 177 22,6 17,6 8,78 11670 2 132 284 320 533 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 | 1127 276 472 4,09 19379 103 53,0 82,6 18,92 154 1122 278 475 4,03 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,8 00 2086 111 29 49 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 18 6 18 18 6 18 16 10 22 16 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 317 529 ,06 11670 2 88 177 22,6 17,6 8,78 11670 2 132 284 320 533 1,01 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 19379 154 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,8 10 2086 11 29 49 4,0 10 2077 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 18 6 18 18 6 18 16 10 22 16 11 11 11 11 11 11 11 11 11 11 11 11 1 | 289 317 529 ,06 11670 2 88 177 22,6 17,6 8,78 11670 2 132 284 320 533 1,01 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 154 1122 278 475 4,03 19301 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,8 00 2086 110 29 49 4,0 00 2077 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 18 6 18 18 6 18 16 10 22 16 11 11 11 11 11 11 11 11 11 11 11 11 1 | 289 317 529 ,06 1670 2 88 177 22,6 17,6 8,78 1670 2 132 284 320 533 1,01 0780 2 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 133810 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 154 1122 278 475 4,03 19301 102 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,8 10 2086 110 29 49 4,0 00 2077 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 15 18 6 18 16 10 22 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 317 529 ,06 11670 2 88 177 22,6 17,6 8,78 11670 2 132 284 320 533 1,01 0780 2 87 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 133810 87 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-tooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW KW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 1122 278 475 4,03 19301 102 | 121 299 491 4,1 00 2086 71 109 57, 90, 22 18,8 00 2086 110 29 49 4,0 00 2077 70 | 13 1: 13 3 3 13 3 3 14 4 4 15 10 22 18 6 18 18 6 18 16 10 22 16 1 1 17 5 18 4 18 4 4 17 5 0 22 17 6 1 1 | 289 317 529 ,06 1670 2 88 177 22,6 77,6 8,78 1670 2 132 284 320 533 ,01 0780 2 87 | 1365 341 566 4,00 34730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 133810 87 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW KW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 972 49,1 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 154 1122 278 475 4,03 19301 102 1081 | 121 299 491 4,1 00 2086 71 109 57, 90, 2 18,8 90 2086 110 2 120 2 29 49 4,0 0 2077 70 | 33 13 33 33 34 4 44 4510 22 1 8 66 11 99 16 10 22 16 10 22 17 10 22 18 10 22 18 10 22 18 10 22 19 10 22 10 2 | 289 317 529 ,06 1670 2 88 177 12,6 77,6 8,78 1670 2 132 284 332 333 1,01 0780 2 87 | 1365 341 566 4,00 334730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 233810 87 1360 68,8 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 1465 73,7 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 1558 78,6 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 954 49,1 76,5 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 972 49,1 76,5 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 1003 53,0 82,6 18,92 1 19379 154 1122 278 475 4,03 0 19301 102 | 2 121 299 491 4,1 100 2086 71 109 57, 90, 2 18,8 90 2086 110 2 29 49 4,0 10 2077 70 71 | 33 13 33 33 34 4 44 4510 22 1 8 66 11 99 86 18 86 11 98 87 10 22 88 11 10 22 98 11 10 | 289 317 529 ,06 1670 2 88 177 12,6 77,6 8,78 1670 2 132 284 332 333 1,01 0780 2 87 268 33,9 19,4 | 1365 341 566 4,00 334730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 233810 87 1360 68,8 107,0 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 1465 73,7 114,7 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 1558 78,6 122,3 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW KW A W/W I/h kPa kW KW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 871 44,2 68,8 19,70 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 954 49,1 76,5 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 972 49,1 76,5 19,79 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 53,0 82,6 18,92 1122 278 475 4,03 1 1081 1081 1081 54,0 84,1 20,00 | 121 293 493 4,1 100 2086 71 103 57, 90, 2 18,8 90 2086 111 2 120 29 49 4,0 10 2077 70 11 117 | 33 1:33 3:33 3:33 3:44 44 45:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:10 22:1 1 5:4 5:4 5:4 5:4 5:4 5:4 5:4 5:4 5:4 5:4 | 289 317 529 ,06 1670 2 88 177 2,6 7,6 8,78 1670 2 132 284 332 284 333 ,01 0780 2 87 268 33,9 19,4 9,85 | 1365 341 566 4,00 334730 88 1262 67,5 105,1 18,71 334730 132 1359 344 570 3,95 33810 87 1360 68,8 107,0 19,77 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 1465 73,7 114,7 19,88 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 1558 78,6 122,3 19,82 | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW A W/W I/h kPa | 864 216 363 3,99 148610 75 808 43,4 67,6 18,64 148610 117 861 218 366 3,94 148030 75 | 909 228 378 3,99 156340 84 886 48,2 75,1 18,38 156340 124 906 230 381 3,94 155780 84 954 49,1 76,5 | 978 243 414 4,02 168140 99 902 48,2 75,1 18,72 168140 145 974 245 418 3,97 167500 99 972 49,1 76,5 | 1059 260 454 4,08 182140 94 989 53,0 82,6 18,65 182140 140 1055 262 457 4,03 181460 93 | 1127 276 472 4,09 19379 103 53,0 82,6 18,92 1122 278 475 4,03 0 19301 102 1081 54,0 84,1 20,00 | 2 120 493 491 491 491 491 491 491 57, 90, 2 18,8 90 2086 111 2 120 29 49 4,0 10 2077 70 117 15 59, 91, 91, 91, 91, 91, 91, 91, 9 | 33 1:33 3:33 3:33 3:44 44 45:10 22:11 5:41 5:11 5:11 5:11 5:11 5:11 5:11 5 | 289 317 529 ,06 1670 2 88 177 2,6 7,6 8,78 1670 2 132 284 332 284 333 ,01 0780 2 87 268 33,9 19,4 9,85 | 1365 341 566 4,00 334730 88 1262 67,5 105,1 18,71 134730 132 1359 344 570 3,95 233810 87 1360 68,8 107,0 | 1495 372 639 4,02 257070 116 1359 72,3 112,7 18,80 257070 166 1489 375 644 3,97 256070 115 1465 73,7 114,7 | 1576 388 677 4,06 271060 116 1446 77,1 120,2 18,75 271060 165 1570 392 682 4,01 270020 115 1558 78,6 122,3 | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - FN - PN

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|---|--|---|---|---|---|---|---|--|---|--|--------|-------------|-------------|-------------|
| Free-cooling | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 324 | 376 | 428 | 473 | 497 | 538 | 567 | 614 | 643 | 659 | 687 | 751 | 803 |
| Input power | kW | 74 | 88 | 99 | 109 | 116 | 124 | 134 | 142 | 152 | 157 | 163 | 174 | 184 |
| Cooling total input current | A | 132 | 154 | 172 | 184 | 192 | 206 | 222 | 235 | 252 | 265 | 280 | 297 | 313 |
| EER EER | W/W | 4,41 | 4,27 | 4,31 | 4,35 | 4,29 | 4,33 | 4,21 | 4,32 | 4,24 | 4,21 | 4,22 | 4,32 | 4,38 |
| | I/h | | | | 81410 | 85540 | 92510 | 97450 | | 110670 | | 118220 | 129100 | |
| Water flow rate system side | | 55800 | 64730 | 73570 | | | | | 105570 | | 113400 | | | 138190 |
| Pressure drop system side | kPa | 46 | 54 | 42 | 49 | 56 | 65 | 71 | 45 | 49 | 53 | 51 | 54 | 64 |
| Cooling performances with free-cooling (2) | 1111 | 240 | 222 | 204 | 104 | | | 170 | | | | | 407 | 470 |
| Cooling capacity | kW | 318 | 330 | 391 | 401 | 404 | 465 | 470 | 531 | 536 | 539 | 543 | 607 | 670 |
| Input power | kW | 7,9 | 7,9 | 9,5 | 9,5 | 9,5 | 11,1 | 11,1 | 12,7 | 12,7 | 12,7 | 12,7 | 14,3 | 15,9 |
| Free cooling total input current | A | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 19 | 19 | 19 | 19 | 21 | 24 |
| EER | W/W | 39,96 | 41,57 | 41,02 | 42,00 | 42,41 | 41,76 | 42,22 | 41,75 | 42,17 | 42,36 | 42,67 | 42,46 | 42,16 |
| Water flow rate system side | l/h | 55800 | 64730 | 73570 | 81410 | 85540 | 92510 | 97450 | 105570 | 110670 | 113400 | 118220 | 129100 | 138190 |
| Pressure drop system side | kPa | 67 | 81 | 66 | 78 | 87 | 93 | 102 | 72 | 79 | 84 | 84 | 87 | 95 |
| Free-cooling Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 323 | 374 | 426 | 471 | 494 | 535 | 564 | 611 | 640 | 656 | 683 | 746 | 799 |
| Input power | kW | 74 | 89 | 100 | 110 | 117 | 125 | 136 | 143 | 153 | 158 | 164 | 175 | 185 |
| Cooling total input current | A | 132 | 155 | 173 | 185 | 194 | 207 | 224 | 237 | 254 | 267 | 282 | 300 | 316 |
| EER EER | W/W | 4,36 | 4,22 | 4,26 | 4,29 | 4,23 | 4,27 | 4,15 | 4,26 | 4,18 | 4,15 | 4,16 | 4,26 | 4,32 |
| Water flow rate system side | I/h | 55590 | 64410 | 73210 | 80970 | 85050 | 92040 | 96930 | 105040 | 110080 | 112780 | 117540 | 128400 | 137510 |
| Pressure drop system side | kPa | 45 | 53 | 42 | 49 | 55 | 64 | 70 | 44 | 49 | 52 | 50 | 54 | 63 |
| Cooling performances with free-cooling (2) | ni u | 19 | 33 | 12 | 17 | 33 | VT | 70 | 17 | 17 | JL | 30 | 51 | 03 |
| Cooling capacity | kW | 337 | 352 | 417 | 427 | 431 | 495 | 501 | 566 | 572 | 575 | 579 | 648 | 715 |
| | kW | 8,1 | 8,1 | 9,7 | 9,7 | 9,7 | 11,3 | 11,3 | 12,9 | 12,9 | 12,9 | 12,9 | 14,5 | 16,2 |
| Input power | | 12 | | 14 | 14 | | | | | | | | | |
| Free cooling total input current | A | | 12 | | | 14 | 17 | 17 | 19 | 19 | 19 | 19 | 21 | 24 |
| EER | W/W | 41,76 | 43,58 | 42,96 | 44,05 | 44,49 | 43,79 | 44,29 | 43,78 | 44,23 | 44,44 | 44,76 | 44,54 | 44,22 |
| Water flow rate system side | I/h | 55590 | 64410 | 73210 | 80970 | 85050 | 92040 | 96930 | 105040 | 110080 | 112780 | 117540 | 128400 | 137510 |
| Pressure drop system side | kPa | 66 | 80 | 65 | 77 | 86 | 92 | 101 | 71 | 78 | 83 | 83 | 86 | 94 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 (| 5402 | 6903 | 7203 | 8403 | 9603 |
| Size Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 560 | 2 60 | 002 (| 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 560 | 2 60 | 002 (| 5402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling Cooling performance chiller operation (1) | ĿW | | | | | | | | | | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity | kW | 852 | 881 | 969 | 1033 | 1115 | 119 | 8 12 | 263 | 1329 | - | - | - | - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power | kW | 852 195 | 881 207 | 969 218 | 1033 232 | 1115 249 | 119 265 | 8 12 5 2 | 263 88 | 1329 311 | - | - | - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 852 195 328 | 881 207 343 | 969 218 374 | 1033 232 408 | 1115 249 427 | 119 265 447 | 8 12 5 2 | 263 88 81 | 1329 311 516 | - - | - - - | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 852 195 328 4,37 | 881 207 343 4,26 | 969 218 374 4,44 | 1033 232 408 4,46 | 1115 249 427 4,49 | 119 265 447 4,5 | 8 12 5 2 7 4 | 263 88 81 ,38 | 1329 311 516 4,27 | - | | - - - | - - - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 852 195 328 4,37 146560 | 881 207 343 4,26 151590 | 969 218 374 4,44 166730 | 1033 232 408 4,46 177640 | 1115 249 427 4,49 19182 | 119 265 447 4,5° 0 2060 | 8 12 5 2 7 4 1 4 10 21 | 263 88 81 ,38 7280 2 | 1329 311 516 4,27 28590 | | | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 852 195 328 4,37 | 881 207 343 4,26 | 969 218 374 4,44 | 1033 232 408 4,46 | 1115 249 427 4,49 | 119 265 447 4,5 | 8 12 5 2 7 4 1 4 10 21 | 263 88 81 ,38 | 1329 311 516 4,27 | - | | - - - | - - - |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa | 852 195 328 4,37 146560 75 | 881 207 343 4,26 151590 81 | 969 218 374 4,44 166730 80 | 1033 232 408 4,46 177640 80 | 1115 249 427 4,49 19182 80 | 119 265 447 4,5 0 2060 45 | 8 12 5 2 7 4 1 4 10 212 | 263 88 81 ,38 7280 2 | 1329 311 516 4,27 28590 53 | | | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa | 852 195 328 4,37 146560 75 | 881 207 343 4,26 151590 81 | 969 218 374 4,44 166730 80 | 1033 232 408 4,46 177640 80 | 1115 249 427 4,49 19182 80 | 119. 265 447 4,5° 0 2060 45 | 8 1.3 5 2 5 2 7 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 88 81 ,38 7280 2 | 1329 311 516 4,27 28590 53 | | | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 852 195 328 4,37 146560 75 731 | 881 207 343 4,26 151590 81 737 17,5 | 969 218 374 4,44 166730 80 857 20,7 | 1033 232 408 4,46 177640 80 921 22,3 | 1115 249 427 4,49 19182 80 988 23,8 | 119. 265 447 4,5° 0 2060 45 | 8 12 5 2 7 4 1 4 10 21 6 10 6 10 | 263 88 81 ,38 7280 2 53 | 1329 311 516 4,27 28590 53 | | | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW A | 852 195 328 4,37 146560 75 731 17,5 26 | 881 207 343 4,26 151590 81 737 17,5 26 | 969 218 374 4,44 166730 80 857 20,7 | 1033 232 408 4,46 177640 80 921 22,3 33 | 1115 249 427 4,49 19182 80 988 23,8 | 119. 265 447 4,5' 0 2060 45 105 25,4 | 88 13 5 22 7 4 11 4 110 213 66 110 | 263 88 81 ,38 7280 2 53 | 1329 311 516 4,27 28590 53 1079 25,4 38 | | | - - - | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 852 195 328 4,37 146560 75 731 | 881 207 343 4,26 151590 81 737 17,5 | 969 218 374 4,44 166730 80 857 20,7 | 1033 232 408 4,46 177640 80 921 22,3 | 1115 249 427 4,49 19182 80 988 23,8 | 119. 265 447 4,5' 0 2060 45 105 25,4 | 88 13 5 22 7 4 11 4 110 213 66 110 | 263 88 81 ,38 7280 2 53 | 1329 311 516 4,27 28590 53 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW A | 852 195 328 4,37 146560 75 731 17,5 26 | 881 207 343 4,26 151590 81 737 17,5 26 | 969 218 374 4,44 166730 80 857 20,7 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 | 119. 265 447 4,5° 0 2060 45 105 25,4° 38 6 41,5° | 8 13 5 2 7 4 1 4 10 213 6 10 6 10 6 10 6 10 6 10 | 263 88 81 ,38 7280 2 53 068 55,4 38 8 | 1329 311 516 4,27 28590 53 1079 25,4 38 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 852 195 328 4,37 146560 75 731 17,5 26 41,84 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 | 119. 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 | 8 13 5 2 7 4 1 4 110 213 6 110 6 114 2 4 2 42 110 213 | 263 88 81 ,38 7280 2 53 068 55,4 38 8 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 | 119. 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 | 8 13 5 2 7 4 1 4 110 213 6 110 6 114 2 4 2 42 110 213 | 263 88 81 ,38 7280 2 53 068 55,4 38 2,01 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus | kW A W/W I/h kPa kW kW A W/W I/h | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 | 119. 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 | 8 13 5 2 7 4 1 4 110 213 6 110 6 114 2 4 2 42 110 213 | 263 88 81 ,38 7280 2 53 068 55,4 38 2,01 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 | 1199 265 447 4,5° 0 2060 45 105 25,- 38 6 41,5° 0 2060 71 | 88 13. 5 22 42. 10 21. 11 4 2. 12 42. 10 21. | 263 88 81 ,38 7280 2 53 068 55,4 38 2,01 7280 2 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5° 0 2060 71 | 8 1.3 5 2 5 7 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 88 81 ,38 7280 2 53 068 55,4 38 2,01 7280 2 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 | 1199 265 447 4,5' 0 2060 45 105 25,4 38 6 41,5' 0 2060 71 | 8 1.3 5 2 7 4 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 88 81 ,38 7280 2 53 068 55,4 38 2,01 7280 2 84 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling total input current EER Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 | 1199 265 447 4,5' 0 2060 45 105 25,4 38 6 41,5' 0 2060 71 119 268 450 | 88 1.3 1.3 1.5 2.5 2.7 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 | 263 88 81 ,38 7280 2 53 253 268 2,01 7280 2 84 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling total input current EER Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 | 1199 265 447 4,5° 0 2060 45 105 25,4° 38 5 41,5° 0 2060 71 119 268 450 4,4° | 8 1.3 5 2 7 4 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 88 81 ,38 7280 2 53 268 2,01 7280 2 84 257 .991 .85 ,32 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling total input current EER Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 | 1199 265 447 4,5° 0 2060 45 105 25,4° 38 5 41,5° 0 2060 71 119 268 450 4,4° | 8 1.3 | 263 88 81 ,38 ,7280 2 53 268 2,01 77280 2 84 257 191 185 ,32 66210 2 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 27390 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 | 1199 265 447 4,5° 0 2060 45 105 25,4° 38 5 41,5° 0 2060 71 119 268 450 4,4° | 8 1.3 | 263 88 81 ,38 7280 2 53 268 2,01 7280 2 84 257 .991 .85 ,32 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 1110 251 430 4,43 19095 79 | 1199 265 447 4,5° 0 2060 45 105 25,4° 38 5 41,5° 0 2060 71 119 268 450 4,4° 0 2050 | 8 1.3 | 263 88 81 ,38 ,38 ,7280 2 53 268 2,01 ,7280 2 84 257 ,91 ,85 ,32 ,32 ,32 ,32 ,32 ,33 ,38 ,38 ,38 ,38 ,38 ,38 ,38 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 27390 53 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Free-cooling Plus Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity | kW A W/W I/h kPa kW A W/W I/h kPa kW A W/W I/h kPa kW KW A W/W KW A W/W KW A W/W KW | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 1110 251 430 4,43 19095 79 | 1199 263 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 71 119 268 450 4,4° 0 2050 45 | 8 1.3 | 263 88 81 ,38 ,38 ,7280 2 53 253 268 2,01 ,7280 2 84 257 ,91 ,85 ,32 ,32 ,32 ,32 ,33 ,38 ,38 ,38 ,38 ,38 ,38 ,48 ,54 ,48 ,54 ,48 ,54 ,54 ,54 ,54 ,54 ,54 ,54 ,54 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 227390 53 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW KPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 786 17,8 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 1028 234 411 4,40 176870 79 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 1110 251 430 4,43 19095 79 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 5 41,5 0 2060 71 119 268 450 4,4' 4,4' 60 2050 45 | 88 12 5 2 7 4 11 4 10 212 66 111 64 2 2 10 212 10 212 1 | 263 88 81 ,38 87280 2 53 253 268 2008 88 201 2 77280 2 88 257 191 185 ,32 66210 2 53 139 5,9 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 27390 53 1151 25,9 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Prescooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 780 17,8 26 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 786 17,8 26 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 1028 234 411 4,40 176870 79 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 11100 251 430 4,43 19095 79 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 5 41,50 0 2060 71 119 268 450 4,4' 4,0' 0 2050 45 | 8 1.3 | 263 88 81 ,38 ,38 ,7280 2 53 253 268 2,01 ,7280 2 84 257 ,91 ,85 ,32 ,32 ,32 ,32 ,33 ,38 ,38 ,4 ,4 ,5 ,4 ,4 ,5 ,4 ,4 ,5 ,4 ,4 ,5 ,5 ,4 ,4 ,5 ,5 ,6 ,6 ,7 ,7 ,7 ,7 ,7 ,7 ,7 ,7 ,7 ,7 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 227390 53 1151 25,9 38 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Pus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Cooling capacity Input power Cooling performances with free-cooling (2) Cooling performances with free-cooling total input current EER Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A W/W I/h kPa kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 780 17,8 26 43,88 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 786 17,8 26 44,20 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 1028 234 411 4,40 176870 79 981 22,6 33 43,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 11100 2511 430 4,43 19095 79 1053 24,2 36 43,45 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 71 119 268 450 4,4 0 2050 45 112 25,4 38 43,5 44,5 105 105 105 105 105 105 105 10 | 88 12.5 22 7 44 11 44 110 211: 110 21: | 263 88 81 ,38 7280 2 53 068 5,4 38 2,01 77280 2 84 2257 191 85 ,32 6210 2 53 139 5,9 38 4,06 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 227390 53 1151 25,9 38 44,51 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 780 17,8 26 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 786 17,8 26 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 1028 234 411 4,40 176870 79 981 22,6 33 43,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 11100 2511 430 4,43 19095 79 1053 24,2 36 43,45 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 71 119 268 450 4,4 0 2050 45 112 25,4 38 43,5 44,5 105 105 105 105 105 105 105 10 | 88 12.5 22 7 44 11 44 110 211: 110 21: | 263 88 81 ,38 7280 2 53 068 5,4 38 2,01 77280 2 84 2257 191 85 ,32 6210 2 53 139 5,9 38 4,06 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 227390 53 1151 25,9 38 | | | | |
| Free-cooling Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling Pus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Cooling capacity Input power Cooling performances with free-cooling (2) Cooling performances with free-cooling total input current EER Cooling performances with free-cooling (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A W/W I/h kPa kW A W/W I/h kPa | 852 195 328 4,37 146560 75 731 17,5 26 41,84 146560 105 848 197 330 4,31 145850 74 780 17,8 26 43,88 | 881 207 343 4,26 151590 81 737 17,5 26 42,13 151590 113 877 209 346 4,20 150820 80 786 17,8 26 44,20 | 969 218 374 4,44 166730 80 857 20,7 31 41,48 166730 106 965 220 377 4,38 165970 79 | 1033 232 408 4,46 177640 80 921 22,3 33 41,37 177640 106 1028 234 411 4,40 176870 79 981 22,6 33 43,37 | 1115 249 427 4,49 19182 80 988 23,8 35 41,45 19182 106 11100 2511 430 4,43 19095 79 1053 24,2 36 43,45 | 1199 265 447 4,5° 0 2060 45 105 25,4 38 6 41,5 0 2060 71 119 268 450 4,4' 0 2050 45 112 25,4 38 38 43,5° 44,5° 105 105 105 105 105 105 105 105 | 88 12.5 22.7 44.1 4.10 21.3 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 | 263 88 81 ,38 7280 2 53 068 5,4 38 2,01 77280 2 84 2257 191 85 ,32 6210 2 53 139 5,9 38 4,06 | 1329 311 516 4,27 28590 53 1079 25,4 38 42,42 28590 84 1322 314 520 4,21 227390 53 1151 25,9 38 44,51 | | | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

ELECTRIC DATA

| Size | | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----------------------|-------|-----|---|------|------|------|------|-------|------|------|------|------|------|------|------|------|
| Electrical data | | | | | | | | | | | | | | | | |
| | FA-PA | (1) | А | 204 | 226 | 251 | 257 | 273 | 290 | 306 | 335 | 355 | 380 | 405 | 428 | 440 |
| Maximum august (FLA) | FE-PE | (1) | Α | 204 | 226 | 261 | 267 | 273 | 299 | 316 | 345 | 364 | 390 | 415 | 437 | 450 |
| Maximum current (FLA) | FU-PU | (1) | Α | 204 | 226 | 261 | 267 | 273 | 299 | 316 | 345 | 364 | 390 | 415 | 437 | 450 |
| | FN-PN | (1) | Α | 214 | 236 | 270 | 277 | 283 | 309 | 325 | 354 | 374 | 399 | 425 | 447 | 469 |
| | FA-PA | (1) | Α | 277 | 285 | 299 | 336 | 350 | 346 | 359 | 439 | 451 | 515 | 568 | 622 | 592 |
| Deals sussessed (LDA) | FE-PE | (1) | Α | 277 | 285 | 308 | 345 | 350 | 356 | 368 | 449 | 461 | 525 | 578 | 632 | 601 |
| Peak current (LRA) | FU-PU | (1) | Α | 277 | 285 | 308 | 345 | 350 | 356 | 368 | 449 | 461 | 525 | 578 | 632 | 601 |
| | FN-PN | (1) | А | 287 | 295 | 318 | 355 | 360 | 366 | 378 | 458 | 471 | 535 | 588 | 641 | 621 |
| Size | | | | 3902 | 4202 | 4502 | 4802 | 2 520 | 02 | 5602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Electrical data | | | | | | | | | | | | | | | | |
| | FA-PA | (1) | Α | 473 | 497 | 538 | 570 | 59 | 00 | 620 | 668 | 701 | 831 | 863 | 933 | 1051 |
| Mariana (FLA) | FE-PE | (1) | А | 483 | 516 | 548 | 595 | 61 | 5 | 645 | 688 | 730 | 841 | 882 | - | - |
| Maximum current (FLA) | FU-PU | (1) | Α | 483 | 516 | 548 | 595 | 61 | 5 | 645 | 688 | 730 | 841 | 882 | - | - |
| | FN-PN | (1) | Α | 508 | 531 | 583 | 624 | 65 | 64 | 683 | 716 | 749 | - | - | - | - |
| | FA-PA | (1) | Α | 601 | 625 | 680 | 710 | 84 | 16 | 886 | 965 | 958 | 902 | 932 | 1137 | 1205 |

Α

Α

FE-PE

FU-PU

FN-PN

(1)

(1)

(1)

GENERAL TECHNICAL DATA

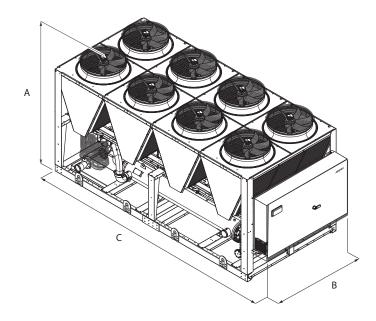
Peak current (LRA)

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 360 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|------|
| Compressors | | | | | | | | | | | | | | | |
| Compressors | All | Туре | | | | - | | | Screw | | | | | | |
| Compressors / Circuit | All | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Refrigerant | All | Туре | | | | | | | R134a | | | | | | |
| System side heat exchanger | | /1 | | | | | | | | | | | | | |
| Exchanger | All | Туре | | | | | | | Shell&tub | e | | | | | |
| Exchanger | All | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fans | | | | | | | | | | | | | - | | |
| Fans | All | Туре | Axial | Axial | Axial | Axial | Axial | Axial | Axia |
| | FA-PA | n° | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| | FE-PE | n° | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| Fans | FU-PU | n° | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| | FN-PN | n° | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 |
| Sound data calculated in coolin | | | | | 12 | 12 | 14 | 17 | 17 | 10 | 10 | 10 | 10 | 10 | 20 |
| wasa sarsaratea iii tooliii | FA-PA | dB(A) | 97 | 97 | 97 | 97 | 98 | 98 | 98 | 98 | 98 | 99 | 99 | 100 | 101 |
| | FE-PE | dB(A) | 93 | 93 | 93 | 94 | 94 | 93 | 93 | 93 | 93 | 95 | 96 | 98 | 98 |
| Sound power level (1) | FU-PU | dB(A) | 97 | 97 | 98 | 98 | 98 | 99 | 99 | 99 | 99 | 99 | 100 | 101 | 102 |
| | FN-PN | dB(A) | 93 | 93 | 94 | 94 | 94 | 94 | 93 | 93 | 93 | 94 | 96 | 98 | 99 |
| | | | | | | | | | | | | | | | |
| Size | | | 3902 | 4202 | 4502 | 4802 | 520 | 02 5 | 602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Compressors | | | | | | | | | | | | | | | |
| Compressors | All | Туре | | | | | | | Screw | | | | | | |
| | FA-PA | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/ | 2 2 | 2/2 | 2/2 | 2/2 | 3/3 | 3/3 | 3/3 | 3/3 |
| C | FE-PE | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/ | 2 2 | 2/2 | 2/2 | 2/2 | 3-3 | 3-3 | - | - |
| Compressors / Circuit | FU-PU | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/ | 2 2 | 2/2 | 2/2 | 2/2 | 3-3 | 3-3 | - | - |
| | FN-PN | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/ | 2 : | 2/2 | 2/2 | 2/2 | - | - | - | - |
| Refrigerant | All | Туре | | | | | | | R134a | | | | | | |
| System side heat exchanger | | /1 | | | | | | | | | | | | | |
| Exchanger | All | Туре | | | | | | | Shell&tuk | oe . | | | | | |
| | FA-PA | n° | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | FE-PE | n° | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | - | |
| Exchanger | FU-PU | n° | 1 | 1 | 1 | 1 | 1 | | 2 | 2 | 2 | 2 | 2 | - | _ |
| | FN-PN | n° | 1 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | - | - | - | |
| Fans | | | · · | | | | | | | | | | | | |
| Fans | All | Туре | Axial | Axial | Axial | Axial | Axi | ial A | ixial | Axial | Axial | Axial | Axial | Axial | Axia |
| TUIIS | FA-PA | n° | 16 | 16 | 18 | 18 | 18 | | 20 | 22 | 22 | 28 | 28 | 30 | 34 |
| | FE-PE | n° | 18 | 20 | 20 | 22 | 22 | | 24 | 26 | 28 | 30 | 32 | - | - |
| Fans | FU-PU | n° | 18 | 20 | 20 | 22 | 22 | | 24 | 26 | 28 | 30 | 32 | | |
| | FN-PN | n° | 22 | 22 | 26 | 28 | 30 | | 32 | 32 | 32 | - | - | | |
| Sound data calculated in coolin | | Ш | | 22 | 20 | 20 |)(| U | JL | JŁ | JL | - | - | | |
| Jounn data Calculated III COOIIII | - | dD(V) | 101 | 100 | 101 | 101 | 10 | 11 . | 102 | 102 | 102 | 104 | 104 | 105 | 105 |
| | FA-PA | dB(A) | 101 | 100 | 101 | 101 | 10 | | 102 | 102 | 102 | 104 | 104 | 105 | |
| Sound power level (1) | FE-PE | dB(A) | 98 | 96 | 97 | 97 | 99 | | 100 | 100 | 99 | 99 | 99 | - | - |
| • | FU-PU | dB(A) | 101 | 101 | 101 | 102 | 10 | | 103 | 103 | 103 | 104 | 104 | - | |
| | FN-PN | dB(A) | 98 | 97 | 97 | 97 | 99 | | 100 | 100 | 99 | _ | - | - | _ |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification

⁽¹⁾ Unit standard configuration without hydronic kit

DIMENSIONS



| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|----------------|-----------|-----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Dimensions and | l weights | | | | | | | | | | | | | | |
| A | mm | All | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | mm | All | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | Α | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 7140 | 7140 | 8330 | 8330 |
| c | mm | E | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 |
| C | mm | U | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 |
| | | N | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 9520 | 10710 | 11900 |

| Size | | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
|------------------|----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dimensions and w | eights . | | | | | | | | | | | | | |
| A | mm | All | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | mm | All | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | Α | 9520 | 9520 | 10710 | 10710 | 10710 | 11900 | 13090 | 13090 | 16660 | 16660 | 17850 | 20230 |
| C | | E | 10710 | 11900 | 11900 | 13090 | 13090 | 14280 | 15470 | 16660 | 17850 | 19040 | - | - |
| C | mm | U | 10710 | 11900 | 11900 | 13090 | 13090 | 14280 | 15470 | 16660 | 17850 | 19040 | - | - |
| | | N | 13090 | 13090 | 15470 | 16660 | 17850 | 19040 | 19040 | 19040 | - | - | - | - |

For transport reasons, units with depth greater than 13090 mm are shipped separately. For further information, refer to the technical and/or installation manual.



















NSM-HWT-1402-9603-B

Air-water chiller with free-cooling glycol free

Cooling capacity 306 ÷ 1991 kW



- High efficiency also at partial loads
- Microchannel condenser technology
- Ideal in data center applications
- Water outlet temperatures up to 30°C
- Night mode function



DESCRIPTION

NSM chillers are designed and manufactured to meet air conditioning requirements in residential/commercial buildings or to meet refrigeration requirements in industrial facilities.

These are outdoor units with screw compressors, axial fans, micro-channel coils, and shell and tube heat exchangers. The base, the structure and the panels are made of steel treated with rustproof polyester paint.

These chillers are also equipped with a Free cooling coil and are used when the refrigerant load request persists even during the winter months, or when the outdoor air temperature is below the temperature of the return liquid from the system. In Free cooling operation (mixed Free cooling and compressors, or Free cooling only), the fluid is cooled directly by the outdoor air, allowing even the complete shutdown of compressors with a significant energy saving.

VERSIONS

A High Efficiency **E** High efficiency low noise **U** Very high efficiency

N Very high efficiency low noise

FEATURES

- Unit with 2 or 3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.
- An intermediate plate heat exchanger provides two circuits: a glycol circuit, where glycol is added to protect the chiller's coils from freezing, and the chilled water circuit without glycol.
- The full range uses aluminium microchannel coils, ensuring very high levels of efficiency. This allows using less refrigerant compared to traditional copper coils.
- Electronic Thermostatic valve brings significant benefits, in particular when the refrigerant is working at partial loads to the benefit of energy efficiency of the unit.

- Standard differential pressure switch
- Throttle valve in the hydraulic circuit for water switching on the Free-Cooling coils
- Fans inverter
- Device for electronically controlling the series condensation, for operation even at low temperatures or in free cooling, which allows adjusting the air flow rate to actual system demand with resulting advantages in terms of consumption reduction.

CONTROL

Microprocessor adjustment, that allows isolating the condenser coils to maximise the free cooling efficiency, even in mixed Free cooling and compressor operation

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS pro-

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis. FB1: Air filter

MULTICHILLER_EVO: Control system for multiple parallel installed constant flow chillers providing individual chiller on/off and control capability. AVX: Spring anti-vibration mounts.

ACCESSORIES FACTORY FITTED ONLY

KRS: Evaporator trace heating

RIFNSM: Current power factor correction. Connected in parallel to the motor, it allows a reduction of the input current (approx. 10%).

GP: Anti-intrusion grids.

AK: ACOUSTIC KIT. This accessory allows further sound reduction. Must be requested at time of order and is available factory fitted only.

ACCESSORIES COMPATIBILITY

| Size | vers. | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| AER485P1 | | •(x2) |
| AERNET | | • | • | • | • | • | • | • | • | • | • | • | • | |
| PRV3 | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | | • | • | | • | | • | • | | | • | • | | |
| AVX (1) | | • | • | • | ٠ | • | • | • | • | • | • | • | • | • |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 2 56 | 502 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| AER485P1 | | •(x2) | •(x2) | •(x2) | •(x2) | •(x2) |) •() | x2) | •(x2) | •(x2) | •(x3) | •(x3) | •(x3) | •(x3) |
| AERNET | | | • | | | • | | | | • | | | • | |
| PRV3 | | • | • | • | • | • | | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | | • | • | | • | • | | • | • | • | • | • | • | • |
| AVX (1) | | • | • | | • | • | | | | • | • | • | • | • |

⁽¹⁾ Accessories to be defined for compatibility

Evaporator trace heating

| Vers. | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | (1) | KRS |
| | | | | | | | | | | | | | | |
| Vers. | | 3902 | 4202 | 4502 | 4802 | 5202 | 5 | 602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | (1) | KRS | KRS | KRS | KRS | KRS | | KRS |

Power factor correction

| Vers. | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-------|------------|------------|------------|------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|
| | RIFNSM1402 | RIFNSM1602 | RIFNSM1802 | RIFNSM2002 | RIFNSM2202 | RIFNSM2352 | RIFNSM2502 | RIFNSM2652 | RIFNSM2802 | RIFNSM3002 | RIFNSM3202 | RIFNSM3402 | RIFNSM3602 |
| | | | | | | | | | | | | | |
| Vers. | 3902 | 4202 | 4502 | 4802 | 520 |)2 56 | 502 | 5002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | RIFNSM3902 | RIFNSM420 | 2 RIFNSM45 | 02 RIFNSM4 | 802 RIFNSM | 15202 RIFNS | M5602 RIFN | ISM6002 RIF | NSM6402 R | FNSM6903 F | RIFNSM7203 | RIFNSM8403 | RIFNSM9603 |

A grey background indicates the accessory must be assembled in the factory $\,$

Anti-intrusion grids

| Vers. | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | (1) | GP |
| | | | | | | | | | | | | | | |
| Vers. | | 3902 | 4202 | 4502 | 4802 | 5202 | 5 | 602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | (1) | GP | GP | GP | GP | GP | | GP |

Acoustic kit

| Vers. | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | (2) | AK |
| | | | | | | | | | | | | | | |
| Vers. | | 3902 | 4202 | 4502 | 4802 | 5202 | 5 | 602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | (2) | AK | AK | AK | AK | AK | | AK |

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NSM |
| 4,5,6,7 | Size |
| | 1402-1602-1802-2002-2202-2352-2502-2652-2802-3002-3202 |
| | 3402-3602-3902-4202-4502-4802-5202-5602-6002-6402 |
| | 6903-7203-8403-9603 |
| 8 | Operational limits |
| W | Electronic thermostatic valve (temperature of water produced from 5°C to 30°C) |
| 9 | Model |
| В | Free cooling Glycol Free |
| G | Free cooling Glycol Free Plus (1) |
| 10 | Versions |
| A | High efficiency |
| E | Low noise high efficency |
| U | Very high efficiency |
| N | Low noise very high efficiency |

⁽¹⁾ The free cooling plus models can have coils only in options "o" and "O" $\,$

| Field | Description |
|-------|---|
| 11 | Condensing coils/ Free cooling water coils |
| 0 | Aluminium microchannel/ Copper Aluminium |
| 0 | Painted aluminium microchannel/ Painted Aluminium Copper |
| R | Copper - Copper/Copper - Copper (1) |
| S | Copper - Thinned/Copper - Thinned (1) |
| ٧ | Epoxy paint (only free cooling coil)/Epoxy paint (only free cooling coil) (1) |
| 12 | Fans |
| J | Inverter |
| 13 | Power supply |
| 0 | 400V/3/50Hz |
| 14-15 | Integrated hydronic kit |
| 0 | Without hydronic kit |

⁽x2) Indicates the amount to order

⁽¹⁾ Accessories to be defined for compatibility
A grey background indicates the accessory must be assembled in the factory

⁽¹⁾ Accessories to be defined for compatibility
A grey background indicates the accessory must be assembled in the factory

⁽²⁾ The accessory is only available for the "E/N" silenced versions A grey background indicates the accessory must be assembled in the factory

NSMW - BA - GA

| Cina | | 1402 | 1602 | 1002 | 2002 | 2202 | 2252 | 2502 | 2652 | 2002 | 2002 | 2202 | 3402 | 2602 |
|--|---|---|---|---|--|---|--|---|---|---|---|---|--|---|
| Size Free-cooling glycol free | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
| | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | LAM | 206 | 251 | 400 | 441 | 470 | 505 | F46 | 500 | (20 | (5) | 607 | 752 | 700 |
| Cooling capacity | kW | 306 | 351 | 400 | 441 | 479 | 505 | 546 | 589 | 638 | 653 | 687 | 753 | 792 |
| Input power | kW | 82 | 95 | 109 | 118 | 125 | 135 | 147 | 155 | 167 | 172 | 179 | 192 | 205 |
| Cooling total input current | A | 146 | 166 | 187 | 200 | 208 | 224 | 242 | 258 | 277 | 290 | 306 | 327 | 348 |
| EER | W/W | 3,75 | 3,69 | 3,69 | 3,73 | 3,83 | 3,73 | 3,71 | 3,79 | 3,81 | 3,8 | 3,84 | 3,92 | 3,86 |
| Water flow rate system side | I/h | 52824 | 60556 | 69042 | 76187 | 82709 | 87074 | 94164 | 101663 | 110040 | 112699 | | 129925 | 136678 |
| Pressure drop system side | kPa | 91 | 120 | 119 | 91 | 107 | 118 | 139 | 135 | 152 | 133 | 130 | 99 | 110 |
| Cooling performances with glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 303 | 276 | 281 | 292 | 360 | 363 | 367 | 437 | 441 | 454 | 456 | 541 | 542 |
| Input power | kW | 22,6 | 22,6 | 22,6 | 22,6 | 29,7 | 29,7 | 29,7 | 38,6 | 38,6 | 38,7 | 38,7 | 44,8 | 44,8 |
| Free cooling total input current | А | 36,1 | 36,1 | 36,1 | 36,1 | 47 | 47 | 47 | 61,5 | 61,5 | 61,7 | 61,7 | 71,2 | 71,2 |
| EER | W/W | 13,43 | 12,22 | 12,46 | 12,93 | 12,14 | 12,23 | 12,36 | 11,32 | 11,43 | 11,73 | 11,79 | 12,07 | 12,11 |
| Water flow rate system side | l/h | 52824 | 60556 | 69042 | 76187 | 82709 | 87074 | 94164 | 101663 | 110040 | 112699 | 118488 | 129925 | 136678 |
| Pressure drop system side | kPa | 91 | 120 | 119 | 91 | 107 | 118 | 139 | 135 | 152 | 133 | 130 | 99 | 110 |
| Free-cooling glycol free Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 305 | 349 | 398 | 439 | 477 | 502 | 543 | 587 | 635 | 650 | 683 | 749 | 788 |
| Input power | kW | 82 | 96 | 109 | 120 | 126 | 136 | 148 | 157 | 169 | 174 | 181 | 194 | 207 |
| Cooling total input current | A | 147 | 167 | 188 | 201 | 210 | 226 | 244 | 260 | 279 | 292 | 308 | 330 | 351 |
| | W/W | | | | | 3,78 | | | | | | | | |
| Wester Grow water growth and girls | | 3,70 | 3,64 | 3,64 | 3,68 | | 3,68 | 3,66 | 3,74 | 3,76 | 3,74 | 3,78 | 3,86 | 3,80 |
| Water flow rate system side | I/h | 52588 | 60291 | 68707 | 75829 | 82367 | 86693 | 93725 | 101283 | 109546 | 112184 | | 129336 | 136024 |
| Pressure drop system side | kPa | 90 | 119 | 118 | 90 | 106 | 117 | 137 | 134 | 151 | 132 | 129 | 98 | 108 |
| Cooling performances with glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 314 | 287 | 293 | 305 | 377 | 380 | 384 | 459 | 463 | 478 | 481 | 570 | 572 |
| Input power | kW | 23 | 22,9 | 22,9 | 23 | 30,1 | 30,1 | 30,1 | 39,2 | 39,2 | 39,3 | 39,3 | 45,5 | 45,5 |
| Free cooling total input current | A | 36,6 | 36,6 | 36,6 | 36,6 | 47,7 | 47,7 | 47,7 | 62,3 | 62,3 | 62,5 | 62,5 | 72,1 | 72,1 |
| EER | W/W | 13,67 | 12,52 | 12,77 | 13,30 | 12,51 | 12,60 | 12,74 | 11,72 | 11,84 | 12,18 | 12,25 | 12,53 | 12,58 |
| Water flow rate system side | l/h | 52588 | 60291 | 68707 | 75829 | 82367 | 86693 | 93725 | 101283 | 109546 | 112184 | 117898 | 129336 | 136024 |
| Pressure drop system side | kPa | 90 | 119 | 118 | 90 | 106 | 117 | 137 | 134 | 151 | 132 | 129 | 98 | 108 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free | kW | 3902 853 | 4202 882 | 4502 959 | 4802 | 5202 | 560 | | | 6 402 1327 | 6903 1476 | 7203 1531 | 8403 1758 | 9603 2001 |
| Free-cooling glycol free Cooling performance chiller operation (1) | kW kW | | | | | | | 9 12 | | | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity | | 853 | 882 | 959 | 1014 | 1082 | 116 | 9 12 | 262 | 1327 | 1476 | 1531 | 1758 | 2001 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power | kW | 853 216 | 882 228 | 959 244 | 1014 260 | 1082 281 | 116 295 | 9 12 5 3 4 5 | 262 119 | 1327 343 | 1476 373 | 1531 388 | 1758 442 | 2001 512 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A | 853 216 362 | 882 228 377 | 959 244 416 | 1014 260 453 | 1082 281 478 3,86 | 116 295 494 3,97 | 9 12 5 3 4 5 7 3 | 262 119 331 ,95 | 1327 343 567 3,87 | 1476 373 646 | 1531 388 683 | 1758 442 740 | 2001 512 854 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W | 853 216 362 3,95 | 882 228 377 3,87 | 959 244 416 3,92 | 1014 260 453 3,9 | 1082 281 478 3,86 | 116 295 494 3,97 | 9 12 5 3 4 5 7 3 11 212 | 262 119 331 ,95 | 1327 343 567 3,87 | 1476 373 646 3,96 | 1531 388 683 3,94 | 1758 442 740 3,97 | 2001 512 854 3,91 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W I/h | 853 216 362 3,95 147129 | 882 228 377 3,87 152124 | 959 244 416 3,92 165550 | 1014 260 453 3,9 174920 | 1082 281 478 3,86 18680 | 116 295 494 3,97 2 2018 | 9 12 5 3 4 5 7 3 11 212 | 262 119 331 ,95 7758 2 | 1327 343 567 3,87 28975 | 1476 373 646 3,96 254763 | 1531 388 683 3,94 264131 | 1758 442 740 3,97 303311 | 2001 512 854 3,91 345300 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa | 853 216 362 3,95 147129 128 | 882 228 377 3,87 152124 137 | 959 244 416 3,92 165550 148 | 1014 260 453 3,9 174920 165 | 1082 281 478 3,86 18680. | 116 295 494 3,97 2 2018 | 9 13 5 3 4 5 7 3 11 213 5 1 | 262 :19 :31 ,95 :7758 2 | 1327 343 567 3,87 28975 | 1476 373 646 3,96 254763 126 | 1531 388 683 3,94 264131 141 | 1758 442 740 3,97 303311 111 | 2001 512 854 3,91 345300 144 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa | 853 216 362 3,95 147129 128 | 882 228 377 3,87 152124 137 | 959 244 416 3,92 165550 148 | 1014 260 453 3,9 174920 165 | 1082 281 478 3,86 186800 155 | 1160 295 494 3,91 2 2018 146 | 9 13 5 35 7 37 7 37 111 213 5 1 | 262 119 131 ,95 77758 2 | 1327 343 567 3,87 28975 190 | 1476 373 646 3,96 254763 126 | 1531 388 683 3,94 264131 141 | 1758 442 740 3,97 303311 111 | 2001 512 854 3,91 345300 144 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 853 216 362 3,95 147129 128 598 49,8 | 882 228 377 3,87 152124 137 599 | 959 244 416 3,92 165550 148 674 | 1014 260 453 3,9 174920 165 675 | 1082 281 478 3,86 18680 155 675 | 116 295 494 3,97 2 2018 146 748 | 9 13 5 3 4 5 7 3 7 3 111 213 5 1 | 262 119 131 195 17758 2 171 | 1327 343 567 3,87 28975 190 | 1476 373 646 3,96 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 | 1758 442 740 3,97 303311 111 1134 93,7 | 2001 512 854 3,91 345300 144 1263 103,6 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 853 216 362 3,95 147129 128 598 49,8 78,9 | 882 228 377 3,87 152124 137 599 49,8 78,9 | 959 244 416 3,92 165550 148 674 55 | 1014 260 453 3,9 174920 165 675 55 | 1082 281 478 3,86 18680 155 675 55 87,1 | 116 295 494 3,97 2 2018 146 748 60 | 9 13 5 3 7 3 7 3 7 3 111 213 5 1 8 8 6 6 | 262 119 131 ,95 77758 2 771 | 1327 343 567 3,87 28975 190 807 64,9 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 | 1082 281 478 3,86 186800 155 675 55 87,1 12,28 | 1166 295 494 3,97 2 2018 146 748 60 95 | 99 13 5 3 7 3 7 3 7 3 7 3 8 8 6 6 10 | 262 119 131 ,95 77758 2 771 802 4,9 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 | 1082 281 478 3,86 186800 155 675 55 87,1 12,28 | 1166 295 494 3,97 2 2018 146 748 60 95 12,4 2 2018 | 9 12 5 3 4 5 7 3 111 212 6 1 8 8 6 10 16 12 | 262 119 331 ,95 77758 2 71 302 4,9 202,6 2,36 77758 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 | 1082 281 478 3,86 186800 155 675 55 87,1 12,28 | 1166 295 494 3,97 2 2018 146 748 60 95 | 9 12 5 3 4 5 7 3 111 212 6 1 8 8 6 10 16 12 | 262 119 331 ,95 77758 2 71 302 4,9 202,6 2,36 77758 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus | kW A W/W I/h kPa kW kW A W/W I/h | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 | 1082 281 478 3,86 186800 155 675 55 87,1 12,28 | 1166 295 494 3,97 2 2018 146 748 60 95 12,4 2 2018 | 9 12 5 3 4 5 7 3 111 212 6 1 8 8 6 10 16 12 | 262 119 331 ,95 77758 2 71 302 4,9 202,6 2,36 77758 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 | 1166 295 494 3,91 2 2018 146 748 60 95 12,4 2 2018 | 9 1: 5 3 4 5 7 3 7 3 111 21: 5 1 1 21: 8 8 6 6 10: 16 12: 111 21: | 262 119 331 ,95 77758 2 771 802 4,9 922,6 2,36 77758 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 | 1166 295 494 3,91 2 2018 146 60 95 12,4 2 2018 146 | 9 1: 5 3 4 5 7 3 7 3 111 21: 5 1 1 21: 6 1 10: 16 12: 111 21: 15 1 1 | 262 119 331 ,95 77758 2 771 802 4,9 02,6 2,36 77758 2 171 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 116 298 | 9 1: 5 3 4 5 7 3 7 3 111 21: 5 1 16 12: 16 12: 17 11 21: 18 8 8 6 6 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: | 262 119 131 195 17758 2 171 1802 4,9 192,6 193,6 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 116 298 498 | 9 1: 5 3 4 5 7 3 7 3 111 21: 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 119 131 195 17758 2 171 1802 4,9 102,6 102,6 17758 2 171 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,9 | 9 1: 5 3 4 5 7 3 7 3 111 21: 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 302 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,9 | 9 1: 5 3 4 5 7 3 7 3 111 21: 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 302 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,9 | 9 1: 5 3 4 5 7 3 111 21: 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 302 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 18583 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,99 8 2007 | 9 1: 5 3 4 5 7 3 111 21: 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 802 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 6706 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 27798 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 18583 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,99 8 2007 | 9 1: 5 3 4 5 7 3 111 21: 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 802 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 6706 2 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 27798 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 127 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 136 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 147 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 164 | 1082 281 478 3,86 18680 155 675 55 87,1 12,28 18680 155 1077 284 482 3,80 18583 153 | 1166 295 494 3,93 2 2018 146 60 95 12,4 2 2018 146 298 498 3,99 8 2007 | 9 1: 5 3 4 5 7 3 111 21: 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1 | 262 319 331 ,95 77758 2 771 302 4,9 02,6 2,36 77758 2 171 256 322 336 ,90 6706 2 170 | 1327 343 567 3,87 28975 190 807 64,9 102,6 12,43 28975 190 1320 346 571 3,81 27798 188 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 125 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 140 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 110 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 143 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW KW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 127 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 136 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 147 708 55,8 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 164 | 1082 281 478 3,86 18680; 155 675 55 87,1 12,28 18680; 155 1077 284 482 3,80 18583; 153 | 1166 295 494 3,97 2 2018 146 60 95 12,4 2 2018 146 298 498 3,9 8 2007 144 785 61,1 | 99 12 5 3 4 5 7 3 111 212 5 1 8 6 6 12 111 212 6 1 14 12 13 3 3 13 3 5 1 3 84 21 14 1 | 262 119 331 ,95 7758 2 771 302 4,9 102,6 102,36 17758 2 171 256 1622 1336 190 190 190 190 190 190 190 190 | 1327 343 567 3,87 28975 190 807 64,9 102,6 112,43 28975 190 1320 346 571 3,81 27798 188 844 66,0 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 125 1089 86,0 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 140 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 110 1192 95,1 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 143 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW A W/W I/h kPa kW KW A | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 127 628 50,5 80,0 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 136 629 50,5 80,0 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 147 708 55,8 88,3 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 164 | 1082 281 478 3,86 18680; 155 675 55 87,1 12,28 18680; 155 1077 284 482 3,80 18583; 153 709 55,8 88,3 | 1166 295 494 3,97 2 2018 146 60 95 12,4 2 2018 146 116 298 3,9 8 2007 144 785 61,1 96,6 | 9 1: 5 3 4 5 7 3 111 21: 5 1 8 8 6 6 10 16 12: 111 21: 5 1 4 1: 8 3 3 3 8 4 21: 4 1: 5 8 0 6 4 10 | 262 119 331 ,95 7758 2 771 302 4,9 22,6 22,36 77758 2 171 256 222 336 ,90 66706 2 170 339 66,0 04,1 | 1327 343 567 3,87 28975 190 807 64,9 102,6 112,43 28975 190 1320 346 571 3,81 27798 188 844 66,0 104,1 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 125 1089 86,0 136,0 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 140 1090 86,0 136,0 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 110 1192 95,1 150,8 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 143 1325 105,2 166,6 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Cooling performance with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A W/W I/h kPa kW KW A W/W I/h kPa | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 127 628 50,5 80,0 12,43 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 136 629 50,5 80,0 12,45 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 147 708 55,8 88,3 12,68 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 164 709 55,8 88,3 12,70 | 1082 281 478 3,86 18680; 155 675 55 87,1 12,28 18680; 155 1077 284 482 3,80 18583; 153 709 55,8 88,3 12,70 | 1166 295 494 3,97 2 2018 146 60 95 12,4 2 2018 146 116 298 498 3,9 8 2007 144 785 61,1 96,1 | 9 1: 5 3 4 5 7 3 111 21: 5 1 8 8 6 6 10: 111 21: 5 1 4 1: 8 3 3 3 5 1 3 3 8 4 21: 4 1: 5 8 0 6 6 4 10: 6 12: 6 12: 7 12: 8 13: 8 14: 8 15: 8 16: 8 | 262 119 331 ,95 7758 2 771 302 4,9 102,6 102,36 17758 2 171 256 1622 171 170 170 170 170 170 170 170 | 1327 343 567 3,87 28975 190 807 64,9 102,6 112,43 28975 190 1320 346 571 3,81 27798 188 844 66,0 104,1 12,80 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 125 1089 86,0 136,0 12,67 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 140 1090 86,0 136,0 12,68 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 110 1192 95,1 150,8 12,54 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 143 1325 105,2 166,6 12,59 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW A W/W I/h kPa kW KW A | 853 216 362 3,95 147129 128 598 49,8 78,9 12,03 147129 128 849 218 365 3,90 146478 127 628 50,5 80,0 | 882 228 377 3,87 152124 137 599 49,8 78,9 12,04 152124 137 878 230 381 3,81 151430 136 629 50,5 80,0 | 959 244 416 3,92 165550 148 674 55 87,1 12,26 165550 148 955 247 420 3,87 164829 147 708 55,8 88,3 | 1014 260 453 3,9 174920 165 675 55 87,1 12,28 174920 165 1009 262 456 3,84 174121 164 | 1082 281 478 3,86 18680; 155 675 55 87,1 12,28 18680; 155 1077 284 482 3,80 18583; 153 709 55,8 88,3 12,70 | 1166 295 494 3,97 2 2018 146 60 95 12,4 2 2018 146 116 298 498 3,9 8 2007 144 785 61,1 96,1 | 9 1: 5 3 4 5 7 3 111 21: 5 1 8 6 6 12: 111 21: 6 1 4 1: 8 3 3 3 5 1 3 3 8 4 21: 4 1: 6 8 6 6 6 6 6 6 6 6 6 7 6 6 6 6 6 7 6 7 | 262 119 331 ,95 7758 2 771 302 4,9 102,6 102,36 17758 2 171 256 1622 171 170 170 170 170 170 170 170 | 1327 343 567 3,87 28975 190 807 64,9 102,6 112,43 28975 190 1320 346 571 3,81 27798 188 844 66,0 104,1 12,80 | 1476 373 646 3,96 254763 126 1038 84,7 134,1 12,26 254763 126 1470 377 652 3,90 253695 125 1089 86,0 136,0 | 1531 388 683 3,94 264131 141 1039 84,7 134,1 12,27 264131 141 1524 392 688 3,89 262987 140 1090 86,0 136,0 | 1758 442 740 3,97 303311 111 1134 93,7 148,7 12,1 303311 111 1749 447 747 3,91 301787 110 1192 95,1 150,8 | 2001 512 854 3,91 345300 144 1263 103,6 164,3 12,18 345300 144 1991 517 861 3,85 343582 143 1325 105,2 166,6 |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - BE - GE

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|--|---|---|---|---|--|---|--|---|--|---|---|--------------|---------------|
| Free-cooling glycol free | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 315 | 362 | 415 | 456 | 478 | 524 | 551 | 599 | 626 | 641 | 667 | 735 | 772 |
| Input power | kW | 75 | 91 | 101 | 112 | 120 | 127 | 138 | 145 | 156 | 161 | 169 | 178 | 192 |
| Cooling total input current | A | 134 | 158 | 175 | 189 | 199 | 210 | 227 | 240 | 258 | 272 | 288 | 303 | 325 |
| EER | W/W | 4,19 | 3,97 | 4,09 | 4,07 | 3,98 | 4,13 | 4,00 | 4,12 | 4,02 | 3,97 | 3,95 | 4,13 | 4,03 |
| Water flow rate system side | l/h | 54400 | 62421 | 71530 | 78692 | 82506 | 90469 | 95144 | 103288 | 108035 | 110595 | 115049 | 126808 | 133234 |
| Pressure drop system side | kPa | 81 | 100 | 101 | 95 | 104 | 105 | 116 | 127 | 139 | 121 | 125 | 96 | 106 |
| Cooling performances with glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 260 | 228 | 276 | 285 | 287 | 343 | 345 | 389 | 391 | 402 | 403 | 469 | 471 |
| Input power | kW | 10,6 | 10,6 | 13,4 | 13,5 | 13,5 | 19,2 | 19,2 | 21,9 | 21,9 | 22,1 | 22,1 | 23,9 | 23,9 |
| Free cooling total input current | A | 16,7 | 16,6 | 21,0 | 21,2 | 21,2 | 30,5 | 30,5 | 34,5 | 34,5 | 34,9 | 34,9 | 37,6 | 37,6 |
| EER | W/W | 24,39 | 21,44 | 20,58 | 21,09 | 21,21 | 17,84 | 17,94 | 17,79 | 17,87 | 18,15 | 18,22 | 19,61 | 19,67 |
| Water flow rate system side | I/h | 54400 | 62421 | 71530 | 78692 | 82506 | 90469 | 95144 | 103288 | 108035 | 110595 | | 126808 | 133234 |
| Pressure drop system side | kPa | 81 | 100 | 101 | 95 | 104 | 105 | 116 | 127 | 139 | 121 | 125 | 96 | 106 |
| Free-cooling glycol free Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 314 | 360 | 412 | 453 | 474 | 521 | 548 | 595 | 622 | 637 | 662 | 730 | 767 |
| Input power | kW | 76 | 92 | 102 | 113 | 122 | 128 | 139 | 147 | 157 | 163 | 170 | 180 | 194 |
| Cooling total input current | A | 134 | 159 | 176 | 190 | 201 | 211 | 229 | 242 | 260 | 274 | 291 | 306 | 328 |
| EER | W/W | 4,14 | 3,92 | 4,03 | 4,00 | 3,90 | 4,07 | 3,93 | 4,06 | 3,96 | 3,90 | 3,88 | 4,06 | 3,95 |
| Water flow rate system side | I/h | 54167 | 62091 | 71121 | 78115 | 81864 | 89932 | 94544 | 102700 | 107375 | 109898 | | 125980 | 132294 |
| Pressure drop system side | kPa | 81 | 99 | 99 | 94 | 103 | 103 | 114 | 126 | 138 | 119 | 123 | 94 | 104 |
| Cooling performances with glycol-free (2) | 1,147 | 270 | 727 | 200 | 200 | 200 | 250 | 240 | 400 | 400 | 410 | 424 | 401 | 402 |
| Cooling capacity | kW | 270 | 237 | 288 | 298 | 300 | 358 | 360 | 406 | 408 | 419 | 421 | 491 | 492 |
| Input power | kW | 10,8 | 10,7 | 13,5 | 13,7 | 13,7 | 19,4 | 19,4 | 22,1 | 22,1 | 22,3 | 22,3 | 24,1 | 24,1 |
| Free cooling total input current | A | 16,8 | 16,8 | 21,2 | 21,4 | 21,4 | 30,8 | 30,8 | 34,8 | 34,8 | 35,2 | 35,2 | 37,9 | 37,9 |
| EER | W/W | 25,10 | 22,15 | 21,24 | 21,80 | 21,93 | 18,48 | 18,59 | 18,39 | 18,48 | 18,80 | 18,87 | 20,33 | 20,39 |
| Water flow rate system side | I/h kPa | 54167 81 | 62091 99 | 71121 99 | 78115 94 | 81864 103 | 89932 103 | 94544 | 102700 126 | 107375 138 | 109898 119 | 114268 | 125980 94 | 132294 104 |
| Pressure drop system side | Kra | 01 | ענ | צנ | 74 | 10.5 | 103 | 114 | 120 | 130 | 117 | 123 | 74 | 104 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 02 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Size Free-cooling glycol free | | 3902 | 4202 | 4502 | 4802 | | 560 |)2 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | | 3902 | 4202 | 4502 | 4802 | | 560 | 02 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free | kW | 3902 823 | 4202 870 | 4502 932 | 4802 | | | | | 6402 1300 | 6903 1423 | 7203 1502 | 8403 | 9603 |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power | kW kW | | | | | 5202 | | 52 1 | | | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 823 202 339 | 870 210 348 | 932 228 388 | 1011 241 421 | 1070 260 443 | 115 27 46 | 52 1 5 2 | 226 296 493 | 1300 318 526 | 1423 350 601 | 1502 364 631 | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW | 823 202 | 870 210 | 932 228 | 1011 241 | 5202 1070 260 | 115 | 52 1 5 2 0 4 | 226 296 493 4,14 | 1300 318 526 4,09 | 1423 350 601 4,07 | 1502 364 631 4,13 | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 823 202 339 4,07 142081 | 870 210 348 4,15 150081 | 932 228 388 4,09 160772 | 1011 241 421 4,19 174443 | 1070 260 443 4,12 18466 | 115 27 46 4,1 5 1987 | 52 1 5 2 0 4 9 4 768 21 | 226 296 493 4,14 1564 2 | 1300 318 526 4,09 24359 | 1423 350 601 4,07 245581 | 1502 364 631 4,13 259231 | - - - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 823 202 339 4,07 | 870 210 348 4,15 | 932 228 388 4,09 | 1011 241 421 4,19 | 1070 260 443 4,12 | 115 27 46 4,1 | 52 1 5 2 0 4 9 4 768 21 | 226 296 493 4,14 | 1300 318 526 4,09 | 1423 350 601 4,07 | 1502 364 631 4,13 | - - - | - - - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa | 823 202 339 4,07 142081 121 | 870 210 348 4,15 150081 135 | 932 228 388 4,09 160772 142 | 1011 241 421 4,19 174443 152 | 1070 260 443 4,12 18466. | 115 27. 46 4,1 5 1987 81 | 52 1 5 2 0 4 9 4 768 21 | 226 296 493 4,14 1564 2 | 1300 318 526 4,09 24359 110 | 1423 350 601 4,07 245581 119 | 1502 364 631 4,13 259231 123 | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa | 823 202 339 4,07 142081 121 | 870 210 348 4,15 150081 135 | 932 228 388 4,09 160772 142 | 1011 241 421 4,19 174443 152 | 1070 260 443 4,12 18466 170 | 115 27. 46 4,1 5 1987 81 | 552 1 55 2 0 4 9 4 1 | 226 296 493 4,14 11564 2 128 | 1300 318 526 4,09 24359 110 | 1423 350 601 4,07 245581 119 | 1502 364 631 4,13 259231 123 | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 823 202 339 4,07 142081 121 515 25,6 | 870 210 348 4,15 150081 135 578 31,3 | 932 228 388 4,09 160772 142 588 31,5 | 1011 241 421 4,19 174443 152 633 33,1 | 1070 260 443 4,12 18466 170 | 115 27. 466 4,1 5 1987 81 69 | 52 1 5 2 0 4 9 2 768 21 1 | 226 296 493 4,14 1564 2 128 | 1300 318 526 4,09 24359 110 | 1423 350 601 4,07 245581 119 880 46,8 | 1502 364 631 4,13 259231 123 924 48,5 | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 823 202 339 4,07 142081 121 515 25,6 40,1 | 870 210 348 4,15 150081 135 578 31,3 48,8 | 932 228 388 4,09 160772 142 588 31,5 | 1011 241 421 4,19 174443 152 633 33,1 51,6 | 1070 260 443 4,12 18466 170 634 33,1 51,6 | 115 27 46 4,1 5 1987 81 69 38, | 52 1 5 2 0 4 9 4 768 21 1 | 226 296 493 4,14 11564 2 128 742 41,1 | 1300 318 526 4,09 24359 110 788 43,7 69,0 | 1423 350 601 4,07 245581 119 880 46,8 73,4 | 1502 364 631 4,13 259231 123 924 48,5 75,9 | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 | 1070 260 443 4,12 18466 170 634 33,1 51,6 | 115 27 46 4,1 5 1987 81 69 38, 61, | 52 155 200 409 42768 211 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2 128 742 41,1 555,0 8,06 | 1300 318 526 4,09 24359 110 788 43,7 69,0 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 | - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,65 | 52 155 200 409 42768 211 33 44 44 44 44 11 602 11 602 12 6 | 226 296 493 4,14 11564 2 1128 742 41,1 555,0 8,06 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 | 1070 260 443 4,12 18466 170 634 33,1 51,6 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,65 | 52 155 200 409 42768 211 33 44 44 44 44 11 602 11 602 12 6 | 226 296 493 4,14 11564 2 128 742 41,1 555,0 8,06 | 1300 318 526 4,09 24359 110 788 43,7 69,0 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus | kW A W/W I/h kPa kW kW A W/W I/h | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,65 | 52 155 200 409 42768 211 33 44 44 44 44 11 602 11 602 12 6 | 226 296 493 4,14 11564 2 1128 742 41,1 555,0 8,06 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 | 5202 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 | 52 155 2 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2 128 742 41,1 55,0 8,06 11564 2 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 | 1070 260 443 4,12 18466. 170 634 33,1 51,6 19,12 18466 170 | 115 277 466 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 | 768 21 768 21 1 2768 21 1 2768 21 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 128 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 | 1070 260 443 4,12 18466. 170 634 33,1 51,6 19,12 18466 170 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 | 52 155 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 1128 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 | 1070 260 443 4,12 18466. 170 634 33,1 51,6 19,12 18466 170 | 115 277 466 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 | 768 21 768 21 1 2768 21 1 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 128 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 | 115 27, 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 114 27 46 4,1 | 768 21 1 2 1 1 3 2 1 1 4 4 4 1 1 8 2 4 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 128 1218 300 497 4,07 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 | 115 27, 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 27 46 4,1 | 52 155 250 44 44 44 44 44 44 44 44 44 44 44 44 44 | 226 296 493 4,14 11564 2 1128 742 41,1 55,0 8,06 11564 2 128 1218 300 497 4,07 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 22920 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling stal input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 | 115 27. 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 27 46 4,1 | 52 155 250 44 44 44 44 44 44 44 44 44 44 44 44 44 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 128 1218 300 497 4,07 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling stall input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 | 115 27, 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 27 46 4,1 4 1973 80 | 768 21 1 2 1 1 3 2 1 1 3 2 1 1 4 4 2 1 1 8 2 1 1 4 4 2 4 2 1 1 4 5 2 1 1 7 6 8 2 1 | 226 296 493 4,14 11564 2 1128 742 41,1 65,0 8,06 11564 2 1218 300 497 4,07 10159 2 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 22920 109 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling glycol free Plus Cooling performance swith glycol-free (2) Cooling performances with glycol-free (2) Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa kW A W/W I/h kPa kW A W/W I/h kPa kW A W/W KW A W/W KW A W/W KW A W/W KW A | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 | 115 27, 46 4,1 5 1987 81 69 38, 61, 2 18,0 5 1987 81 27 46 4,1 44 1973 80 | 52 1 5 2 0 4 9 4 768 21 1 3 4 4 1 002 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2 1128 742 41,1 655,0 8,06 11564 2 1128 2128 300 497 4,07 10159 2 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 22920 109 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A kW KW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 538 25,8 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 615 31,7 | 1011 241 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 661 33,4 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 | 115 27 46 4,1 5 1987 81 69 38,61,2 11,4 2 18,65 1987 81 4 11,4 27 46 4,1 4 1973 80 | 52 155 2 1 55 2 1 5 1 5 2 1 1 1 1 1 1 1 | 2226 2996 493 4,14 11564 2128 742 41,1 555,0 8,06 11564 2 1218 300 497 4,07 10159 2 127 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 224359 110 1292 321 531 4,02 22920 109 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling total input current EER Cooling performance with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 538 25,8 40,5 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 615 31,7 | 1011 241 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 661 33,4 52,0 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 662 33,4 52,0 | 115 27 46 4,1 5 1987 81 69 38,61,2 11,4 27 46 4,1 4 1973 80 72 38,61,61,61 | 52 155 2 1 55 2 1 5 1 5 2 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2128 742 41,1 555,0 8,06 11564 2 1218 300 497 4,07 10159 2 1127 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 224359 110 1292 321 531 4,02 22920 109 822 44,1 69,5 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 920 46,8 73,9 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 966 48,9 76,5 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A W/W I/h kPa kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 538 25,8 40,5 20,80 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 615 31,7 49,4 19,38 | 1011 241 421 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 661 33,4 52,0 19,78 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 662 33,4 52,0 19,80 | 115 27 46 4,1 5 1987 81 69 38,61,2 114 27 46 4,1 41 27 46 4,1 41 72 80 72 38,61,0 18,0 18,0 | 52 155 2 1 55 2 1 5 1 5 1 5 1 5 1 5 1 5 | 226 296 493 4,14 11564 2128 742 41,1 555,0 8,06 11564 2128 300 497 4,07 10159 2127 775 41,4 655,5 8,70 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 22920 109 822 44,1 69,5 18,64 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 920 46,8 73,9 19,65 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 966 48,9 76,5 19,74 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling total input current EER Cooling performance with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kPa kW kW A W/W I/h kPa | 823 202 339 4,07 142081 121 515 25,6 40,1 20,11 142081 121 818 204 342 4,00 141148 120 538 25,8 40,5 | 870 210 348 4,15 150081 135 578 31,3 48,8 18,44 150081 135 865 212 351 4,08 149240 134 | 932 228 388 4,09 160772 142 588 31,5 49,1 18,68 160772 142 926 230 392 4,02 159755 140 615 31,7 | 1011 241 4,19 174443 152 633 33,1 51,6 19,09 174443 152 1005 244 425 4,12 173439 150 661 33,4 52,0 | 1070 260 443 4,12 18466 170 634 33,1 51,6 19,12 18466 170 1063 263 448 4,04 18339 168 662 33,4 52,0 19,80 | 115 27 46 4,1 5 1987 81 69 38,61,2 114 27 46 4,1 41 973 80 61,0 18,0 18,0 18,0 18,0 18,0 18,0 18,0 1 | 52 15 5 2 0 4 9 4 768 21 1 3 4 4 4 1 1 6 102 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 226 296 493 4,14 11564 2128 742 41,1 555,0 8,06 11564 2128 300 497 4,07 10159 2127 775 41,4 655,5 8,70 | 1300 318 526 4,09 24359 110 788 43,7 69,0 18,01 24359 110 1292 321 531 4,02 22920 109 822 44,1 69,5 18,64 | 1423 350 601 4,07 245581 119 880 46,8 73,4 18,79 245581 119 1414 354 607 3,99 243982 118 920 46,8 73,9 | 1502 364 631 4,13 259231 123 924 48,5 75,9 19,06 259231 123 1493 368 636 4,06 257648 122 966 48,9 76,5 | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - BU - GU

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|---|---|---|---|--|---|---|---|---|--|---|---|-------------|-------------|
| Free-cooling glycol free | | | | | | | | | | | | 7272 | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328 | 381 | 435 | 482 | 506 | 550 | 580 | 627 | 657 | 674 | 703 | 772 | 814 |
| Input power | kW | 84 | 98 | 112 | 121 | 128 | 138 | 148 | 159 | 168 | 172 | 178 | 191 | 203 |
| Cooling total input current | A | 148 | 170 | 192 | 204 | 212 | 229 | 244 | 263 | 279 | 291 | 305 | 326 | 345 |
| EER EER | W/W | 3,93 | 3,90 | 3,89 | 3,99 | 3,97 | 3,99 | 3,92 | 3,94 | 3,91 | 3,91 | 3,95 | 4,05 | 4,02 |
| Water flow rate system side | I/h | 56622 | 65790 | 75056 | 83161 | 87363 | 94979 | 100110 | 108143 | 113452 | | | 133207 | 140417 |
| Pressure drop system side | kPa | 88 | 112 | 111 | 106 | 117 | 115 | 128 | 139 | 127 | 134 | 130 | 106 | 117 |
| Cooling performances with glycol-free (2) | KI U | 00 | 112 | - 111 | 100 | 117 | 113 | 120 | 137 | 127 | 131 | 130 | 100 | 117 |
| Cooling capacity | kW | 319 | 287 | 345 | 367 | 369 | 433 | 436 | 488 | 506 | 507 | 538 | 595 | 597 |
| Input power | kW | 23,6 | 23,5 | 29,6 | 31,5 | 31,5 | 38,6 | 38,6 | 44,5 | 44,7 | 44,7 | 44,8 | 49,8 | 49,8 |
| Free cooling total input current | A | 37,3 | 37,3 | 46,8 | 50,1 | 50,1 | 61,5 | 61,5 | 70,6 | 71,0 | 71,0 | 71,2 | 78,9 | 78,9 |
| EER EER | W/W | 13,52 | 12,20 | 11,67 | 11,64 | 11,72 | 11,22 | 11,30 | 10,96 | 11,31 | 11,35 | 12,01 | 11,96 | 12,00 |
| | I/h | 56622 | | 75056 | 83161 | 87363 | 94979 | | | | | | | |
| Water flow rate system side | | | 65790 | | | | | 100110 | 108143 | 113452 | | | 133207 | 140417 |
| Pressure drop system side | kPa | 88 | 112 | 111 | 106 | 117 | 115 | 128 | 139 | 127 | 134 | 130 | 106 | 117 |
| Free-cooling glycol free Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | LAM | 227 | 200 | 422 | 400 | 504 | F40 | F70 | (24 | (55 | (71 | 700 | 760 | 010 |
| Cooling capacity | kW | 327 | 380 | 433 | 480 | 504 | 548 | 578 | 624 | 655 | 671 | 700 | 769 | 810 |
| Input power | kW | 84 | 99 | 113 | 122 | 129 | 139 | 149 | 160 | 170 | 174 | 180 | 192 | 205 |
| Cooling total input current | A | 149 | 171 | 194 | 205 | 214 | 231 | 246 | 265 | 281 | 294 | 308 | 328 | 347 |
| EER | W/W | 3,88 | 3,84 | 3,84 | 3,93 | 3,91 | 3,94 | 3,87 | 3,89 | 3,86 | 3,86 | 3,89 | 4,00 | 3,96 |
| Water flow rate system side | I/h | 56434 | 65512 | 74759 | 82781 | 86955 | 94601 | 99699 | 107739 | 113006 | | | 132683 | 139835 |
| Pressure drop system side | kPa | 87 | 111 | 110 | 105 | 116 | 115 | 127 | 138 | 126 | 132 | 129 | 105 | 116 |
| Cooling performances with glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 331 | 300 | 360 | 385 | 388 | 455 | 458 | 510 | 531 | 533 | 567 | 624 | 626 |
| Input power | kW | 23,9 | 23,9 | 30 | 32 | 32 | 39,2 | 39,2 | 45,1 | 45,4 | 45,4 | 45,5 | 50,5 | 50,5 |
| Free cooling total input current | A | 37,9 | 37,8 | 47,5 | 50,8 | 50,8 | 62,3 | 62,3 | 71,6 | 72,0 | 72,0 | 72,1 | 80,0 | 80,0 |
| EER | W/W | 13,81 | 12,56 | 11,98 | 12,04 | 12,13 | 11,61 | 11,69 | 11,30 | 11,70 | 11,73 | 12,47 | 12,36 | 12,40 |
| Water flow rate system side | l/h | 56434 | 65512 | 74759 | 82781 | 86955 | 94601 | 99699 | 107739 | 113006 | 11579 | 9 120780 | 132683 | 139835 |
| Pressure drop system side | kPa | 87 | 111 | 110 | 105 | 116 | 115 | 127 | 138 | 126 | 132 | 129 | 105 | 116 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Cinc. | | 2002 | 4202 | 4503 | 4003 | 5202 | F (0) | 2 (0 | 102 | (402 | (002 | 7202 | 0403 | 0603 |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 2 60 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free Cooling performance chiller operation (1) | LW | | | | | | | | | | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity | kW | 864 | 909 | 978 | 1059 | 1127 | 1213 | 3 12 | 189 | 1365 | 1495 | 1576 | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power | kW | 864 216 | 909 228 | 978 243 | 1059 260 | 1127 276 | 121 <u>3</u> 293 | 3 12 | 189 17 | 1365 341 | 1495 372 | 1576 388 | - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 864 216 363 | 909 228 378 | 978 243 414 | 1059 260 454 | 1127 276 472 | 1213 293 493 | 3 12 3 3 | 189 17 29 | 1365 341 566 | 1495 372 639 | 1576 388 677 | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W | 864 216 363 3,99 | 909 228 378 3,99 | 978 243 414 4,02 | 1059 260 454 4,08 | 1127 276 472 4,09 | 1213 293 493 4,14 | 3 12 3 5 4 4, | 189 17 29 06 | 1365 341 566 4,00 | 1495 372 639 4,02 | 1576 388 677 4,06 | - - - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h | 864 216 363 3,99 149099 | 909 228 378 3,99 156852 | 978 243 414 4,02 168696 | 1059 260 454 4,08 182745 | 1127 276 472 4,09 19443 | 1213 293 493 4,14 1 20929 | 3 12 3 5 5 4 4, | 289 17 29 06 | 1365 341 566 4,00 | 1495 372 639 4,02 257918 | 1576 388 677 4,06 271953 | - - - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 864 216 363 3,99 | 909 228 378 3,99 | 978 243 414 4,02 | 1059 260 454 4,08 | 1127 276 472 4,09 | 1213 293 493 4,14 | 3 12 3 5 5 4 4, | 189 17 29 06 | 1365 341 566 4,00 | 1495 372 639 4,02 | 1576 388 677 4,06 | - - - | - - - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa | 864 216 363 3,99 149099 134 | 909 228 378 3,99 156852 133 | 978 243 414 4,02 168696 156 | 1059 260 454 4,08 182745 166 | 1127 276 472 4,09 19443 188 | 1213 293 493 4,14 1 20929 | 3 12 3 3 5. 5. 4 4, 98 222 | 289 17 29 06 2401 2 | 1365 341 566 4,00 35505 128 | 1495 372 639 4,02 257918 | 1576 388 677 4,06 271953 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa | 864 216 363 3,99 149099 134 | 909 228 378 3,99 156852 133 | 978 243 414 4,02 168696 156 | 1059 260 454 4,08 182745 166 | 1127 276 472 4,09 19443 188 | 1212 293 493 4,14 1 2092! 112 | 3 123 3 3 55 4 4,4 4,4 4,98 2222 1 1-1 9.6 | 189 117 229 06 2401 2 42 | 1365 341 566 4,00 35505 128 | 1495 372 639 4,02 257918 131 | 1576 388 677 4,06 271953 135 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW | 864 216 363 3,99 149099 134 647 54,7 | 909 228 378 3,99 156852 133 743 63,8 | 978 243 414 4,02 168696 156 746 63,8 | 1059 260 454 4,08 182745 166 796 68,7 | 1127 276 472 4,09 19443 188 797 68,7 | 121: 293 493 4,14 1 2092: 112 885 | 3 12 3 3 5. 4 4, 998 222 1 1 | 289 17 29 06 2401 2 42 38 4,0 | 1365 341 566 4,00 35505 128 | 1495 372 639 4,02 257918 131 1126 98,2 | 1576 388 677 4,06 271953 135 1177 103,1 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 864 216 363 3,99 149099 134 647 54,7 86,6 | 909 228 378 3,99 156852 133 743 63,8 | 978 243 414 4,02 168696 156 746 63,8 100,7 | 1059 260 454 4,08 182745 166 796 68,7 108,3 | 1127 276 472 4,09 19443 188 797 68,7 | 121: 293 493 4,14 1 2092! 112 885 79,0 | 3 12 3 3 5. 4 4, 98 222 1 1 6 9. 8 4 7 13 | 189 17 29 06 2401 2 42 38 44,0 | 1365 341 566 4,00 335505 128 990 89,0 141,2 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 | 978 243 414 4,02 168696 156 746 63,8 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 | 121: 293 493 4,14 1 2092: 112 885 79,0 8 125, | 3 123 3 3 5. 4 4, 4 4, 9 9 222 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 189 17 29 06 2401 2 42 38 44,0 33,4 ,17 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 11,2 | 3 12 3 3 5. 4 4, 98 222 1 1. 6 9. 7 13 0 11 | 189 17 29 06 2401 2 42 38 44,0 33,4 ,17 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 335505 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 100,7 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 11,2 | 3 12 3 3 5. 4 4, 98 222 1 1. 6 9. 7 13 0 11 | 189 17 29 06 2401 2 42 38 44,0 33,4 ,17 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 | | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 11,2 | 3 12 3 3 5. 4 4, 98 222 1 1. 6 9. 7 13 0 11 | 189 17 29 06 2401 2 42 38 44,0 33,4 ,17 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 335505 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 11,2 | 3 12 3 3 5. 4 4, 98 222 1 1. 6 9. 7 13 0 11 | 189 17 29 06 2401 2 42 38 44,0 33,4 ,17 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 335505 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus | kW A W/W I/h kPa kW kW A W/W I/h | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 1 2092! 112 | 3 123 3 3 5 5. 4 4, 998 2222 1 1 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 335505 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 9, 0 84 7 13 0 11 98 222 1 1 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 335505 128 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 112 296 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 9, 0 84 7 13 0 11 98 222 1 1 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 112 296 497 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 9, 0 11 98 222 1 1 8 12 6 3, 7 5 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 284 20 33 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 1 11,2 11 2092! 112 112 296 497 4,08 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 9, 0 84 7 13 0 11 198 222 1 1 8 12 6 3. 7 5 3 4, | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 284 20 33 01 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 296 497 4,08 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 99 0 84 7 13 0 11 98 222 1 1 8 12 6 3 7 5 3 4, 3 3 6 221 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 284 20 33 01 1510 2 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling system side Prescooling system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 296 497 4,08 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 99 0 84 7 13 0 11 98 222 1 1 8 12 6 3 7 5 3 4, 3 3 6 221 | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 284 20 33 01 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 334585 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling stal input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa kW kW A W/W I/h kPa kW L/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 19364 187 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 1 2092! 112 296 497 4,08 11 2084: 111 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 99 0 84 7 13 0 11 98 222 1 1 8 12 6 3 7 5 3 4, 3 4, | 289 17 29 06 2401 2 42 38 44,0 33,4 ,17 2401 2 42 284 20 33 01 1510 2 41 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 334585 127 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling glycol free Plus Cooling performance swith glycol-free (2) Cooling performances with glycol-free (2) Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 133 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 132 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 155 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 19364 187 | 121: 293 493 4,14 1 2092! 112 885 79,0 3 125, 1 11,2 11 2092! 112 296 497 4,08 11 2084: 1111 | 3 12 3 3 5 5 4 4, 98 222 1 1 6 9, 0 84 7 13 0 11 98 222 1 1 8 12 6 3. 7 5 3 4, 3 4, 4 9, 9 9, 1 1 | 289 17 29 06 2401 2 42 38 4,0 33,4 ,17 2401 2 42 284 20 33 01 1510 2 41 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 34585 127 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kW A kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 133 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 132 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 155 783 64,7 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 834 69,7 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 19364 187 | 121: 293 493 4,14 1 2092: 112 885 79,0 3 125, 1 1,2 1 2092: 1 120 296 497 4,08 1 2084: 111 931 | 3 123 3 3 5 5 4 4, 98 2222 1 1- 6 99 0 84 7 133 0 111 98 2222 1 1- 8 12 8 12 6 3 7 5 8 3 4 4, 9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 17 29 06 2401 2 42 38 4,0 33,4 ,17 2401 2 42 284 20 33 ,01 1510 2 41 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 34485 127 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 133 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 132 780 64,7 102 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 155 783 64,7 102 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 834 69,7 109,8 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 475 4,03 19364 187 835 69,7 | 121: 293 493 4,14 1 2092: 112 885 79,0 3 125, 1 1,2 1 2092: 1 120 497 4,08 41 2084: 111 931 80,7 3 127, | 3 123 3 3 5 5 4 4, 98 2222 1 1- 6 99 0 84 7 13 0 11 198 2222 1 1- 8 12 8 12 6 3 7 5 8 3 7 5 8 3 7 5 8 3 8 3 9 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 289 17 29 06 2401 2 42 38 4,0 33,4 ,17 2401 2 42 284 20 33 ,01 1510 2 41 84 84 85,2 155,2 | 1365 341 566 4,00 335505 128 990 89,0 141,2 11,13 335505 128 1359 344 570 3,95 234585 127 1036 90,3 143,1 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 1185 99,6 157,6 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 133 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 132 780 64,7 102 12,05 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 155 783 64,7 102 12,11 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 834 69,7 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 19364 187 19364 11,98 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 1 1,2 1 2092! 112 112 112 112 112 113 114 115 116 117 117 117 118 119 119 119 119 119 110 110 110 110 110 | 3 123 3 3 5 5 4 4, 98 222 1 1 6 9 0 88 7 13 0 11 98 222 1 1 8 12 6 3 7 5 8 3 7 5 8 12 1 1 8 3 7 5 8 12 1 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 | 289 17 29 06 2401 2 42 338 4,0 3,4 1,7 2401 2 42 284 20 33 301 1510 2 41 84 5,2 155,2 1,54 | 1365 341 566 4,00 35505 128 990 89,0 141,2 11,13 35505 128 1359 344 570 3,95 134585 127 1036 90,3 143,1 11,48 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 1185 99,6 157,6 11,90 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 1236 104,6 165,4 11,81 | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa kW kW A W/W I/h kPa | 864 216 363 3,99 149099 134 647 54,7 86,6 11,83 149099 134 861 218 366 3,94 148519 133 | 909 228 378 3,99 156852 133 743 63,8 100,7 11,65 156852 133 906 230 381 3,94 156292 132 780 64,7 102 | 978 243 414 4,02 168696 156 746 63,8 100,7 11,69 168696 156 974 245 418 3,97 168052 155 783 64,7 102 | 1059 260 454 4,08 182745 166 796 68,7 108,3 11,60 182745 166 1055 262 457 4,03 182059 165 834 69,7 109,8 | 1127 276 472 4,09 19443 188 797 68,7 108,3 11,61 19443 188 1122 278 475 4,03 19364 187 19364 11,98 | 121: 293 493 4,14 1 2092! 112 885 79,0 8 125, 1 1,2 1 2092! 112 112 112 112 113 114 115 115 116 117 117 117 118 119 119 119 110 110 110 110 110 110 110 | 3 123 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 289 17 29 06 2401 2 42 338 4,0 3,4 1,7 2401 2 42 284 20 33 301 1510 2 41 84 5,2 155,2 1,54 | 1365 341 566 4,00 335505 128 990 89,0 141,2 11,13 335505 128 1359 344 570 3,95 234585 127 1036 90,3 143,1 | 1495 372 639 4,02 257918 131 1126 98,2 155,6 11,46 257918 131 1489 375 644 3,97 256917 130 1185 99,6 157,6 | 1576 388 677 4,06 271953 135 1177 103,1 163,2 11,41 271953 135 1570 392 682 4,01 270905 134 | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

NSMW - BN - GN

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|--|---|---|---|---|--|---|---|---|---|---|--------|---------------|-------------|-------------|
| Free-cooling glycol free | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 324 | 376 | 428 | 473 | 497 | 538 | 567 | 614 | 643 | 659 | 687 | 751 | 803 |
| Input power | kW | 74 | 88 | 99 | 109 | 116 | 124 | 134 | 142 | 152 | 157 | 163 | 174 | 184 |
| Cooling total input current | А | 132 | 154 | 172 | 184 | 192 | 206 | 222 | 235 | 252 | 265 | 280 | 297 | 313 |
| EER | W/W | 4,41 | 4,27 | 4,31 | 4,35 | 4,29 | 4,33 | 4,21 | 4,32 | 4,24 | 4,21 | 4,22 | 4,32 | 4,38 |
| Water flow rate system side | l/h | 55983 | 64940 | 73810 | 81682 | 85818 | 92811 | 97769 | 105919 | 111036 | 113774 | 118607 | 129528 | 138643 |
| Pressure drop system side | kPa | 74 | 93 | 87 | 102 | 113 | 110 | 122 | 111 | 122 | 128 | 125 | 100 | 115 |
| Cooling performances with glycol-free (2) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 266 | 278 | 329 | 334 | 337 | 384 | 387 | 439 | 441 | 442 | 467 | 523 | 567 |
| Input power | kW | 12 | 14 | 19 | 19 | 20 | 22 | 22 | 24 | 24 | 24 | 24 | 29 | 31 |
| Free cooling total input current | A | 19,1 | 21,2 | 30,3 | 30,3 | 31,5 | 34,5 | 34,5 | 37,5 | 37,5 | 37,5 | 37,6 | 45,8 | 48,3 |
| <u>eer</u> | W/W | 21,73 | 20,57 | 17,29 | 17,53 | 16,94 | 17,58 | 17,68 | 18,41 | 18,50 | 18,55 | 19,52 | 17,83 | 18,28 |
| Water flow rate system side | I/h | 55983 | 64940 | 73810 | 81682 | 85818 | 92811 | 97769 | 105919 | 111036 | 113774 | 118607 | 129528 | 138643 |
| Pressure drop system side | kPa | 74 | 93 | 87 | 102 | 113 | 110 | 122 | 111 | 122 | 128 | 125 | 100 | 115 |
| Free-cooling glycol free Plus | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 323 | 374 | 426 | 471 | 494 | 535 | 564 | 611 | 640 | 656 | 683 | 746 | 799 |
| Input power | kW | 74 | 89 | 100 | 110 | 117 | 125 | 136 | 143 | 153 | 158 | 164 | 175 | 185 |
| Cooling total input current | A | 132 | 155 | 173 | 185 | 194 | 207 | 224 | 237 | 254 | 267 | 282 | 300 | 316 |
| EER | W/W | 4,36 | 4,22 | 4,26 | 4,29 | 4,23 | 4,27 | 4,15 | 4,26 | 4,18 | 4,15 | 4,16 | 4,26 | 4,32 |
| Water flow rate system side | I/h | 55770 | 64623 | 73447 | 81232 | 85330 | 92341 | 97251 | 105389 | 110441 | 113149 | 117928 | 128821 | 137959 |
| Pressure drop system side | kPa | 74 | 92 | 86 | 101 | 112 | 109 | 121 | 110 | 121 | 127 | 123 | 99 | 113 |
| Cooling performances with glycol-free (2) | 1.147 | 270 | 202 | 246 | 251 | 257 | 40.4 | 407 | 101 | 102 | 161 | 404 | F 40 | F0F |
| Cooling capacity | kW | 279 | 292 | 346 | 351 | 354 | 404 | 407 | 461 | 463 | 464 | 491 | 549 | 595 |
| Input power | kW | 12,4 | 13,7 | 19,2 | 19,2 | 20 | 22,1 | 22,1 | 24,1 | 24,1 | 24,1 | 24,1 | 29,5 | 31,3 |
| Free cooling total input current | A | 19,2 | 21,4 | 30,5 | 30,5 | 31,7 | 34,8 | 34,8 | 37,8 | 37,8 | 37,8 | 37,9 | 46,1 | 48,6 |
| EER | W/W | 22,53 | 21,40 | 18,03 | 18,27 | 17,67 | 18,32 | 18,43 | 19,17 | 19,27 | 19,31 | 20,33 | 18,59 | 19,04 |
| Water flow rate system side | I/h kPa | 55770 74 | 64623 92 | 73447 | 81232 101 | 85330 112 | 92341 109 | 97251 121 | 105389 | 110441 | 113149 | 117928 123 | 128821 | 137959 |
| Pressure drop system side | Krd | /4 | 92 | 86 | 101 | 112 | 109 | IZI | 110 | 121 | 127 | 123 | 99 | 113 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Size | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Size Free-cooling glycol free | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| | | 3902 | 4202 | 4502 | 4802 | 5202 | 560 | 2 6 | 002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free | kW | 3902 852 | 4202 881 | 4502 969 | 4802 1033 | 5202 | 560 | | | 6402 1329 | 6903 | 7203 | 8403 | 9603 |
| Free-cooling glycol free Cooling performance chiller operation (1) | kW kW | | | | | | | 8 1 | 263 | | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 852 | 881 | 969 | 1033 | 1115 | 119 | 8 1 | 263 | 1329 | - | - | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW | 852 195 | 881 207 | 969 218 | 1033 232 | 1115 249 | 119 265 | 8 1 5 2 | 263 288 481 | 1329 311 | - | - | - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A | 852 195 328 | 881 207 343 | 969 218 374 | 1033 232 408 | 1115 249 427 | 119 265 447 4,5 | 8 1 5 2 7 4 1 4 | 263 288 481 | 1329 311 516 | | | - - - | - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side | kW A W/W | 852 195 328 4,37 | 881 207 343 4,26 | 969 218 374 4,44 | 1033 232 408 4,46 | 1115 249 427 4,49 | 119 265 447 4,5 | 8 1 5 2 7 4 1 4 85 21 | 263 288 481 | 1329 311 516 4,27 | | - | - - - | - - - |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa | 852 195 328 4,37 147047 117 | 881 207 343 4,26 152087 125 | 969 218 374 4,44 167278 101 | 1033 232 408 4,46 178230 93 | 1115 249 427 4,49 19244 102 | 119 265 447 4,5 8 2066 75 | 8 1 5 2 7 4 1 4 85 21 | 263 288 481 4,38 7997 2 | 1329 311 516 4,27 29339 92 | | | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa | 852 195 328 4,37 147047 117 | 881 207 343 4,26 152087 125 | 969 218 374 4,44 167278 101 | 1033 232 408 4,46 178230 93 | 1115 249 427 4,49 19244 102 | 119 265 447 4,5 8 2066 75 | 8 1 5 5 7 4 1 4 1 4 8 5 2 1 5 5 5 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 263 288 481 4,38 7997 2 | 1329 311 516 4,27 29339 92 | | | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW | 852 195 328 4,37 147047 117 617 32,8 | 881 207 343 4,26 152087 125 618 32,8 | 969 218 374 4,44 167278 101 727 41,1 | 1033 232 408 4,46 178230 93 770 43,7 | 1115 249 427 4,49 19244 102 828 45,7 | 119 265 447 4,5 8 2066 75 880 47, | 8 1 5 2 7 4 1 4 85 21 | 263 288 481 4,38 77997 2 92 | 1329 311 516 4,27 29339 92 889 47,7 | | | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A | 852 195 328 4,37 147047 117 617 32,8 51,0 | 881 207 343 4,26 152087 125 618 32,8 51,0 | 969 218 374 4,44 167278 101 727 41,1 65,0 | 1033 232 408 4,46 178230 93 770 43,7 69,0 | 1115 249 427 4,49 19244 102 828 45,7 72,0 | 119 265 447 4,5 8 2066 75 880 47, | 8 15 27 4 1 4 885 21 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 263 288 481 4,38 7997 2 92 887 47,7 | 1329 311 516 4,27 29339 92 889 47,7 75,0 | | | - - - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W | 852 195 328 4,37 147047 117 617 32,8 51,0 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 | 1115 249 427 4,49 19244 102 828 45,7 72,0 | 119 265 447 4,5' 8 2066 75 880 47, 75, | 8 1 5 2 7 4 1 4 85 21 0 8 7 4 7 4 0 7 46 1 | 263 288 481 4,38 7797 2 92 92 47,7 75,0 | 1329 311 516 4,27 29339 92 889 47,7 75,0 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 | 119 265 447 4,5 8 2066 75 888 47, 75,1 ! 18,4 8 2066 | 8 1 5 2 7 4 1 4 85 21 0 8 7 4 0 7 46 1 85 21 | 263 288 481 4,38 77997 2 92 3887 47,7 75,0 8,60 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W | 852 195 328 4,37 147047 117 617 32,8 51,0 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 | 1115 249 427 4,49 19244 102 828 45,7 72,0 | 119 265 447 4,5' 8 2066 75 880 47, 75, | 8 1 5 2 7 4 1 4 85 21 0 8 7 4 0 7 46 1 85 21 | 263 288 481 4,38 7797 2 92 92 47,7 75,0 | 1329 311 516 4,27 29339 92 889 47,7 75,0 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus | kW A W/W I/h kPa kW kW A W/W I/h | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 | 119 265 447 4,5 8 2066 75 888 47, 75,1 ! 18,4 8 2066 | 8 1 5 2 7 4 1 4 85 21 0 8 7 4 0 7 46 1 85 21 | 263 288 481 4,38 77997 2 92 3887 47,7 75,0 8,60 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 | | | - | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 | 119 265 447 4,5 8 2066 75 880 47, 75, 1 18,4 8 2066 | 8 1 5 2 7 4 1 1 4 885 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 92 887 47,7 75,0 8,60 7997 2 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Prescoling glycol free Plus Cooling performance chiller operation (1) Cooling capacity | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 | 119 265 447 4,5 8 2066 75 880 47, 75, 118,4 8 2066 75 | 8 15 27 4 11 4 85 21 5 7 4 7 7 4 7 16 11 885 21 5 1 8 8 7 1 8 7 1 | 263 288 481 4,38 7997 2 92 887 47,7 75,0 8,60 77997 2 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Prescoling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 | 119 265 447, 4,5 8 2066 75 880 47, 75, 118,4 8 2066 75 | 3 8 1 1 1 4 4 5 5 5 2 1 1 1 4 4 5 5 5 6 6 7 7 7 4 4 6 7 7 7 7 4 7 7 7 7 7 7 7 | 263 288 481 4,38 7997 2 92 887 47,7 75,0 8,60 77997 2 92 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 | 119 265 447 4,5 8 2066 75 880 47, 75, 118,4 8 2066 75 | 8 8 1 1 1 4 5 5 5 6 6 7 7 7 4 4 7 7 7 7 4 4 7 7 7 7 4 7 7 7 7 4 7 | 263 288 481 4,38 7997 2 992 887 47,7 75,0 8,60 77997 2 992 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 | 119 265 447 4,5 8 2066 75 880 47, 75,0 2 18,4 8 2066 75 119 268 450 4,4 | 8 8 1 1 1 4 4 5 5 5 2 1 1 1 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 992 887 47,7 75,0 8,60 7997 2 992 257 291 485 4,32 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 | 119 265 447 4,5 8 2066 75 880 47, 75,1 119 268 450 4,4 6 2057 | 8 8 1 1 1 4 5 5 5 2 1 1 1 4 4 5 1 1 1 1 4 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 92 887 47,7 75,0 8,60 77997 2 92 257 291 485 4,32 6918 2 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prescooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Prescooling stal input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side | kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 | 119 265 447 4,5 8 2066 75 880 47, 75,0 2 18,4 8 2066 75 119 268 450 4,4 | 8 8 1 1 1 4 5 5 5 2 1 1 1 4 4 5 1 1 1 1 4 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 992 887 47,7 75,0 8,60 7997 2 992 257 291 485 4,32 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prece cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) | kW A W/W I/h kPa kW A W/W I/h kPa kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 19157 | 119 265 447 4,5 8 2066 75 880 47, 75,1 119 268 450 4,4 6 2057 | 8 1 1 5 5 2 1 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 992 887 47,7 75,0 8,60 7997 2 992 257 291 485 4,32 6918 2 91 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity | kW A W/W I/h kPa kW A W/W I/h kPa kW A W/W I/h kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 100 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 92 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 19157 101 | 119 265 447 4,5 8 2066 75 880 47, 75,1 119 268 450 4,4 6 2057 74 | 8 | 263 288 481 4,38 7997 2 992 887 47,7 75,0 8,60 7997 2 992 257 291 485 4,32 6918 2 91 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Free-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Pressure drop system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 100 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 92 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 19157 101 | 119 265 447 4,5' 8 2066 75 888 47, 75, 18,48 8 2066 75 119 268 450 4,4 6 2057 74 925 48, | 8 1 1 1 4 4 5 5 21 1 4 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 92 3887 47,7 75,0 8,60 77997 2 92 257 291 485 4,32 6918 2 91 932 48,1 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 934 48,1 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precauling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 649 33,1 51,4 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 100 764 41,4 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 92 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 1110 251 430 4,43 19157 101 870 46,1 72,5 | 119 265 447 4,5' 8 2066 75 888 47, 75, 118,48 8 2066 75 119 268 450 4,4,4 6 2057 74 925 48,75, | 8 1 1 1 4 4 5 5 21 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 92 3887 47,7 75,0 8,60 77997 2 92 257 291 485 4,32 6918 2 91 932 48,1 75,5 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 934 48,1 75,5 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Prec-cooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kW A kW A W/W I/h kPa kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 647 33,1 51,4 19,56 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 649 33,1 51,4 19,61 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 100 764 41,4 65,5 18,44 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 92 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 11100 251 430 4,43 19157 101 870 46,1 72,5 18,87 | 119 265 447 4,5' 8 2066 75 888 47, 75,6' 1199 268 450 4,4 6 2057 74 92: 48, 75, 719,2 | 8 1 1 1 4 4 5 5 21 1 1 4 4 5 5 5 4 4 5 5 5 7 7 7 4 4 5 7 7 7 4 7 7 7 7 | 263 288 481 4,38 7997 2 92 257 75,0 28,60 7797 2 91 485 4,32 66918 2 91 932 48,1 75,5 9,37 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 934 48,1 75,5 19,41 | | | | |
| Free-cooling glycol free Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current EER Water flow rate system side Pressure drop system side Pressure drop system side Precooling glycol free Plus Cooling performance chiller operation (1) Cooling capacity Input power Cooling total input current EER Water flow rate system side Pressure drop system side Cooling performances with glycol-free (2) Cooling capacity Input power Free cooling total input current | kW A W/W I/h kPa kW kW A W/W I/h kPa kW kPa kW kPa kW kW A W/W I/h kPa | 852 195 328 4,37 147047 117 617 32,8 51,0 18,81 147047 117 848 197 330 4,31 146331 116 | 881 207 343 4,26 152087 125 618 32,8 51,0 18,85 152087 125 877 209 346 4,20 151317 124 649 33,1 51,4 | 969 218 374 4,44 167278 101 727 41,1 65,0 17,68 167278 101 965 220 377 4,38 166517 100 | 1033 232 408 4,46 178230 93 770 43,7 69,0 17,59 178230 93 1028 234 411 4,40 177452 92 | 1115 249 427 4,49 19244 102 828 45,7 72,0 18,12 19244 102 11100 251 430 4,43 19157 101 870 46,1 72,5 18,87 | 119 265 447 4,5' 8 2066 75 888 47, 75,6' 1199 268 450 4,4 6 2057 74 92: 48, 75, 719,2 | 8 1 1 4 4 5 5 21 1 4 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 263 288 481 4,38 7997 2 92 257 75,0 28,60 7797 2 91 485 4,32 66918 2 91 932 48,1 75,5 9,37 | 1329 311 516 4,27 29339 92 889 47,7 75,0 18,64 29339 92 1322 314 520 4,21 28136 91 934 48,1 75,5 | | | | |

⁽¹⁾ System side water heat exchanger 25°C/20°C, External air 35°C; 0% Free-cooling (2) System side water heat exchanger 25°C; External air 12°C

ELECTRIC DATA

| Size | | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----------------------|-------|-----|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Electrical data | | | | | | | | | | | | | | | | |
| | BA,GA | (1) | Α | 206 | 228 | 253 | 265 | 289 | 306 | 324 | 362 | 384 | 400 | 415 | 449 | 472 |
| Maximum surrent (FLA) | BE,GE | (1) | Α | 207 | 229 | 265 | 277 | 289 | 322 | 339 | 372 | 394 | 410 | 426 | 457 | 480 |
| Maximum current (FLA) | BU,GU | (1) | Α | 207 | 229 | 265 | 280 | 292 | 322 | 339 | 372 | 395 | 410 | 426 | 457 | 480 |
| | BN,GN | (1) | Α | 215 | 240 | 280 | 292 | 305 | 332 | 349 | 381 | 404 | 419 | 434 | 472 | 503 |
| | BA,GA | (1) | Α | 279 | 269 | 308 | 346 | 362 | 395 | 406 | 457 | 472 | 490 | 500 | 536 | 551 |
| Dook current (LDA) | BE,GE | (1) | Α | 279 | 269 | 317 | 354 | 362 | 403 | 415 | 466 | 480 | 499 | 509 | 545 | 560 |
| Peak current (LRA) | BU,GU | (1) | Α | 279 | 269 | 317 | 357 | 365 | 403 | 415 | 466 | 481 | 499 | 509 | 545 | 560 |
| | BN,GN | (1) | Α | 288 | 280 | 332 | 369 | 378 | 414 | 425 | 475 | 490 | 508 | 518 | 559 | 583 |

| Size | | | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
|-----------------------|-------|-----|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Electrical data | | | | | | | | | | | | | | | |
| | BA,GA | (1) | Α | 504 | 527 | 569 | 602 | 619 | 645 | 698 | 737 | 877 | 910 | 976 | 1111 |
| Mariana arment (FLA) | BE,GE | (1) | Α | 512 | 550 | 583 | 631 | 648 | 681 | 730 | 779 | 894 | 936 | - | - |
| Maximum current (FLA) | BU,GU | (1) | Α | 512 | 550 | 583 | 631 | 648 | 683 | 731 | 779 | 899 | 941 | - | - |
| | BN,GN | (1) | Α | 541 | 564 | 624 | 667 | 693 | 719 | 758 | 797 | - | - | - | - |
| | BA,GA | (1) | Α | 590 | 611 | 643 | 665 | 857 | 883 | 963 | 990 | 866 | 888 | 1072 | 1204 |
| Dook surrent (LDA) | BE,GE | (1) | Α | 598 | 628 | 651 | 687 | 879 | 906 | 980 | 1016 | 875 | 905 | - | - |
| Peak current (LRA) | BU,GU | (1) | Α | 598 | 628 | 651 | 687 | 879 | 909 | 982 | 1016 | 880 | 910 | - | - |
| | BN,GN | (1) | A | 627 | 642 | 692 | 723 | 924 | 945 | 1009 | 1034 | - | - | - | - |

⁽¹⁾ Unit standar configuration without hydronic kit

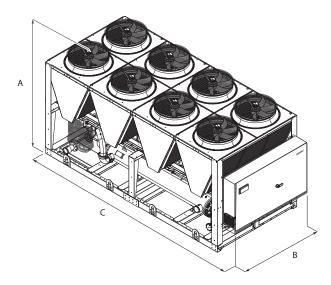
GENERAL TECHNICAL DATA

| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|
| Compressors | | | | | | | | | | | | | | | |
| Compressors | All | type | | | | | | | Screw | | | | | | |
| Compressors / Circuit | All | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Refrigerant | All | type | | | | | | | R134a | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Exchanger | All | type | | | | | | | Shell&tube | | | | | | |
| Exchanger | All | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fans | | | | | | | | | | | | | | | |
| Fans | All | type | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| | BA,GA | n° | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| Fame | BE,GE | n° | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| Fans | BU,GU | n° | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| | BN,GN | n° | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 20 |
| Sound data calculated in cooling mo | de | | | | | | | | | | | | | | |
| | BA,GA | dB(A) | 97,1 | 97,1 | 97,4 | 97,3 | 98,1 | 98,0 | 97,8 | 98,4 | 98,4 | 98,7 | 99,3 | 100,4 | 100,8 |
| Sound power level (1) | BE,GE | dB(A) | 92,7 | 93,0 | 93,4 | 93,6 | 93,8 | 93,4 | 92,8 | 92,7 | 92,5 | 94,9 | 96,4 | 97,6 | 98,4 |
| Soutiu power level (1) | BU,GU | dB(A) | 97,3 | 97,4 | 98,4 | 98,3 | 98,4 | 98,8 | 98,7 | 99,1 | 99,1 | 99,5 | 100,1 | 101,2 | 101,6 |
| | BN,GN | dB(A) | 92,8 | 93,1 | 93,9 | 93,8 | 93,9 | 93,7 | 93,2 | 93,0 | 92,8 | 94,3 | 96,0 | 97,9 | 98,7 |

| | BN,GN | dB(A) | 92,8 | 93,1 | 93,9 | 93,8 | 93,9 | 93,/ 93 | 3 <u>,</u> 2 93, | 0 92,8 | 94,3 | 96,0 | 97,9 | 98,/ |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|------------------|--------|-------|-------|-------|-------|
| Size | | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
| Compressors | | | | | | | | | | | | | | |
| Compressors | All | Туре | | | | | | Sc | rew | | | | | |
| | BA,GA | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 3/3 | 3/3 | 3/3 | 3/3 |
| Communication / Cinquit | BE,GE | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 3/3 | 3/3 | - | - |
| Compressors / Circuit | BU,GU | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 3/3 | 3/3 | - | - |
| | BN,GN | n° | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 | - | - | - | - |
| Refrigerant | All | Туре | | | | | | R1 | 34a | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | |
| Exchanger | All | Туре | | | | | | Shell | &tube | | | | | |
| | BA,GA | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Evehanger | BE,GE | n° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | - | - |
| Exchanger | BU,GU | n° | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | - | - |
| | BN,GN | n° | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - |
| Fans | | | | | | | | | | | | | | |
| Fans | All | Туре | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial | Axial |
| | BA,GA | n° | 16 | 16 | 18 | 18 | 18 | 20 | 22 | 22 | 28 | 28 | 30 | 34 |
| Fans | BE,GE | n° | 18 | 20 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | - | - |
| Talis | BU,GU | n° | 18 | 20 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | - | - |
| | BN,GN | n° | 22 | 22 | 26 | 28 | 30 | 32 | 32 | 32 | - | - | - | - |
| Sound data calculated in cooling n | node | | | | | | | | | | | | | |
| | BA,GA | dB(A) | 100,8 | 100,4 | 100,8 | 100,9 | 101,4 | 102,3 | 102,3 | 101,9 | 103,7 | 103,8 | 105,0 | 104,8 |
| Sound power level (1) | BE,GE | dB(A) | 97,6 | 96,4 | 96,7 | 97,0 | 98,9 | 100,3 | 99,5 | 98,7 | 98,7 | 98,9 | - | - |
| Journa power level (1) | BU,GU | dB(A) | 101,5 | 101,4 | 101,4 | 101,8 | 102,3 | 103,2 | 103,1 | 102,9 | 104,0 | 104,3 | - | - |
| | BN,GN | dB(A) | 97,9 | 96,8 | 97,0 | 97,3 | 98,7 | 100,1 | 99,5 | 98,7 | - | - | - | - |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNIEN ISO 9614-2, as required for Eurovent certification

DIMENSIONS



| Size | | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 |
|-----------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Dimension | s and weights | | | | | | | | | | | | | | |
| A | mm | Alls | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | mm | Alls | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | А | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 7140 | 7140 | 8330 | 8330 |
| • | | Е | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 |
| C | mm | U | 5160 | 5160 | 6350 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 8330 | 9520 | 9520 |
| | | N | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 9520 | 10710 | 11900 |

| Size | | | 3902 | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6903 | 7203 | 8403 | 9603 |
|---------------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dimensions ar | nd weights | | | | | | | | | | | | | |
| A | mm | Alls | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | mm | Alls | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| | | Α | 9520 | 9520 | 10710 | 10710 | 10710 | 11900 | 13090 | 13090 | 16660 | 16660 | 17850 | 20230 |
| C | | E | 10710 | 11900 | 11900 | 13090 | 13090 | 14280 | 15470 | 16660 | 17850 | 19040 | - | - |
| C | mm | U | 10710 | 11900 | 11900 | 13090 | 13090 | 14280 | 15470 | 16660 | 17850 | 19040 | - | - |
| | | N | 13090 | 13090 | 15470 | 16660 | 17850 | 19040 | 19040 | 19040 | - | - | - | - |

For transport reasons, units with depth greater than 13090 mm are shipped separately. For further information, refer to the technical and/or installation manual.

All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NSMI 1251-6102 F

Air-water chiller with free-cooling

Cooling capacity 286 ÷ 1280 kW



- · High efficiency also at partial loads
- Microchannel coil
- Low electrical consumption



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications.

Outdoor units with high-efficiency screw compressors axial fans, microchannel external coils and plant side shell and tube heat exchanger. In the unit with desuperheater, it is also possible to produce free-hot water

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to $50\,^{\circ}\text{C}$ external air temperature. Unit can produce chilled water (up to $-6\,^{\circ}\text{C}$).

Units mono or dual-circuit

Unit with 1–2 refrigerant circuits.

The single circuit units have the inverter compressor, while the dual-circuit have an asynchronous compressor on/off switch and an inverter, the combination provides both high efficiency at part load and full load

Aluminium microchannel coils

The microchannel condensing aluminum coils ensure high levels of efficiency, reduced quantities of refrigerant and lower unit weight. The treatment "O" available as configurator it ensures high resistance to corrosion even in the most aggressive environments.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations, to obtain a solution that allows you to save money and to facilitate installation.

Low noise version

Silenced versions feature a special compressor jacket which ensures a further noise reduction of approximately 4 dB.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

Further features:

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FB1: Air filter to protect the micro-channel coils. Formed of a frame and a composite baffle in micro-expanded aluminium mesh, with particularly low pressure drops.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ve | 125 | 1 16 | 01 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|--|--------|--------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|-------|
| AER485P1 | A,E | • | • | , | • | | | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A,E | | | | | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | A,E | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | | , | • | • | • | • | • | • | • | • | • | • | • | • | • |
| FB1 | A,E | • | • | , | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | A,E | | | , | • | • | • | • | • | • | • | | • | • | | | |
| PRV3 | A,E | | | | • | | • | • | • | • | • | • | • | • | • | • | • |
| (1) x Indicates the quantity of accessories to | match. | | | | | | | | | | | | | | | | |
| Ver | 1251 | 1601 1 | 301 | 2352 | 26 | 52 2 | 802 | 3202 | 3402 | 3802 | 4102 | 4402 | 48 | 02 5 | 202 | 5702 | 6102 |
| A,E | GP4V | GP4V G | P5V | GP5V | GP | 6V (| P7V | GP7V | GP7V | GP8V | GP9V | GP10\ | GP. | 11V G | P11V | GP11V | GP11V |

A grey background indicates the accessory must be assembled in the factory

Antivibration - NSMI free-cooling

| Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | |
| A | AVX991 | AVX992 | AVX993 | AVX966 | AVX970 | AVX995 | AVX995 | AVX995 | AVX996 | AVX988 | AVX989 | AVX990 | AVX990 | AVX990 | AVX990 |
| E | AVX991 | AVX992 | AVX994 | AVX966 | AVX970 | AVX995 | AVX995 | AVX995 | AVX996 | AVX988 | AVX989 | AVX990 | AVX990 | AVX990 | AVX990 |

Antivibration - NSMI free-cooling plus

| | Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|---|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ī | ntegrated hydronic kit: 00 | | | | | | | | | | | | | | | |
| | A | AVX991 | AVX992 | AVX993 | AVX966 | AVX970 | AVX995 | AVX995 | AVX995 | AVX996 | AVX988 | AVX989 | AVX990 | AVX990 | AVX990 | AVX990 |
| | E | AVX991 | AVX992 | AVX994 | AVX966 | AVX970 | AVX995 | AVX995 | AVX999 | AVX996 | AVX988 | AVX989 | AVX990 | AVX990 | AVX990 | AVX990 |

Heater exchangers

| Ver | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | KRS23 | - | KRS24 |
| E | KRS23 | KRS24 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Description |
|---|
| NSMI |
| Size 1251, 1601, 1801, 2352, 2652, 2802, 3202, 3402, 3802, 4102, 4402, 4802, 5202 5702, 6102 |
| Operating field |
| Model |
| Free-cooling Free-cooling |
| Free-cooling plus (1) |
| Heat recovery |
| Without heat recovery |
| With desuperheater (2) |
| Version |
| High efficiency |
| Silenced high efficiency |
| Coils / free-cooling coils |
| Alluminium microchannel / Copper - aluminium |
| Painted alluminium microchannel / Copper painted aluminium |
| Copper-copper/Copper |
| Copper-Tinned copper / Copper -Tinned copper |
| Copper-painted alumimium / Copper-painted alumimium |
| Fans |
| Standard |
| Inverter |
| Power supply |
| 400V ~ 3 50Hz with magnet circuit breakers |
| Integrated hydronic kit |
| Without hydronic kit |
| Kit with n° 1 pump |
| Pump A |
| |

| Field | Description |
|-------|--------------------------------|
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (3) |
| | Pump n° 1 pump + stand-by pump |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (3) |
| | Kit with 2 pumps |
| TF | Double pump F |
| TG | Double pump G |
| TH | Double pump H |
| TI | Double pump I |
| TJ | Double pump J (3) |

- (1) The Free-Cooling Plus "P" models are only compatible with"°" ed "O"
 (2) The temperature of the water in the heat exchanger inlet must never drop below 35°C.
 (3) For all configurations including pump J please contact the factory.

PERFORMANCE SPECIFICATIONS

NSMI - free-cooling (FA/FE - PA/PE)

| NSMI - Hee-cooling (TA/TE-TA/ | • -/ | | | | | | | | | | | | | | | | |
|--|------|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
| Model: F | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 286,5 | 385,6 | 455,6 | 496,5 | 587,5 | 649,6 | 718,4 | 784,3 | 832,8 | 929,0 | 989,0 | 1096,3 | 1164,2 | 1208,4 | 1280,3 |
| Input power | A,E | kW | 96,6 | 126,7 | 157,5 | 177,7 | 206,3 | 221,2 | 244,7 | 272,7 | 280,5 | 324,3 | 343,8 | 368,4 | 417,3 | 436,6 | 477,9 |
| Cooling total input current | A,E | A | 166,0 | 212,0 | 261,0 | 309,0 | 356,0 | 381,0 | 417,0 | 456,0 | 470,0 | 547,0 | 580,0 | 644,0 | 692,0 | 728,0 | 761,0 |
| EER | A,E | W/W | 2,97 | 3,04 | 2,89 | 2,79 | 2,85 | 2,94 | 2,94 | 2,88 | 2,97 | 2,86 | 2,88 | 2,98 | 2,79 | 2,77 | 2,68 |
| Water flow rate system side | A,E | l/h | 49230 | 66245 | 78283 | 85309 | 100931 | 111607 | 123424 | 134748 | 143088 | 159614 | 169917 | 188349 | 200020 | 207622 | 219967 |
| Pressure drop system side | A,E | kPa | 52 | 78 | 75 | 48 | 67 | 68 | 76 | 46 | 54 | 68 | 79 | 80 | 90 | 94 | 107 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 254,5 | 276,0 | 340,9 | 346,5 | 414,6 | 649,6 | 488,1 | 495,1 | 559,2 | 628,2 | 692,4 | 762,8 | 771,1 | 775,7 | 782,2 |
| Input power | A,E | kW | 15,0 | 15,0 | 18,7 | 18,7 | 22,5 | 26,2 | 26,2 | 26,2 | 30,0 | 33,7 | 37,5 | 41,2 | 41,2 | 41,2 | 41,2 |
| Free cooling total input current | A,E | A | 26,0 | 25,0 | 31,0 | 33,0 | 39,0 | 45,0 | 45,0 | 44,0 | 50,0 | 57,0 | 63,0 | 72,0 | 68,0 | 69,0 | 66,0 |
| EER | A,E | W/W | 19,97 | 18,41 | 18,19 | 18,49 | 18,43 | 18,22 | 18,60 | 18,87 | 18,65 | 18,62 | 18,47 | 18,50 | 18,70 | 18,81 | 18,97 |
| Water flow rate system side | A,E | l/h | 49230 | 66245 | 78283 | 85309 | 100931 | 111607 | 123424 | 134748 | 143088 | 159614 | 169917 | 188349 | 200020 | 207622 | 219967 |
| Pressure drop system side | A,E | kPa | 80 | 121 | 128 | 88 | 109 | 109 | 124 | 94 | 99 | 108 | 125 | 127 | 143 | 157 | 169 |
| Model: P | | | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 285,5 | 383,5 | 453,4 | 493,5 | 584,0 | 646,4 | 714,7 | 778,5 | 827,8 | 923,5 | 983,6 | 1090,1 | 1156,6 | 1200,5 | 1270,3 |
| Input power | A,E | kW | 97,4 | 127,8 | 158,9 | 179,7 | 208,6 | 223,4 | 247,5 | 275,8 | 283,4 | 327,8 | 347,4 | 372,4 | 421,9 | 441,5 | 483,8 |
| Cooling total input current | A,E | A | 168,0 | 214,0 | 263,0 | 312,0 | 360,0 | 385,0 | 421,0 | 461,0 | 474,0 | 553,0 | 585,0 | 644,0 | 692,0 | 728,0 | 761,0 |
| EER | A,E | W/W | 2,93 | 3,00 | 2,85 | 2,75 | 2,80 | 2,89 | 2,89 | 2,82 | 2,92 | 2,82 | 2,83 | 2,93 | 2,74 | 2,72 | 2,63 |
| Water flow rate system side | A,E | l/h | 49048 | 65887 | 77903 | 84789 | 100332 | 111060 | 122801 | 133758 | 142233 | 158667 | 168998 | 187289 | 198712 | 206254 | 218254 |
| Pressure drop system side | A,E | kPa | 51 | 78 | 74 | 47 | 67 | 67 | 75 | 45 | 53 | 67 | 79 | 79 | 89 | 92 | 105 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 271,8 | 296,0 | 365,5 | 371,4 | 444,5 | 512,7 | 523,2 | 530,1 | 599,3 | 673,3 | 742,3 | 817,7 | 826,2 | 830,9 | 837,1 |
| Input power | A,E | kW | 15,2 | 15,2 | 19,0 | 19,0 | 22,8 | 26,7 | 26,7 | 26,7 | 30,5 | 34,3 | 38,1 | 41,9 | 41,9 | 41,9 | 41,9 |
| Free cooling total input current | A,E | A | 26,0 | 25,0 | 32,0 | 33,0 | 39,0 | 46,0 | 45,0 | 45,0 | 51,0 | 58,0 | 64,0 | 72,0 | 69,0 | 69,0 | 66,0 |
| EER | A,E | W/W | 17,84 | 19,43 | 19,19 | 19,50 | 19,45 | 19,23 | 19,63 | 19,89 | 19,67 | 19,64 | 19,49 | 19,52 | 19,72 | 19,83 | 19,98 |
| Water flow rate system side | A,E | l/h | 49048 | 65887 | 77903 | 84789 | 100332 | 111060 | 122801 | 133758 | 142233 | 158667 | 168998 | 187289 | 198712 | 206254 | 218254 |
| Pressure drop system side | A,E | kPa | 80 | 120 | 127 | 87 | 108 | 108 | 123 | 93 | 98 | 107 | 123 | 125 | 141 | 155 | 166 |
| | | | | | | | | | | | | | | | | | |

- (1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model: F | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | |
| SEPR A,E W/W | 6,95 | 6,32 | 6,23 | 6,60 | 6,73 | 7,06 | 6,85 | 6,65 | 6,98 | 6,74 | 6,83 | 7,24 | 7,11 | 7,28 | 7,05 |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | |
| SEPR A,E W/W | 6,95 | 6,32 | 6,23 | 6,60 | 6,73 | 7,06 | 6,85 | 6,65 | 6,98 | 6,74 | 6,83 | 7,24 | 7,11 | 7,28 | 7,05 |
| Model: P | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | |
| SEPR A,E W/W | 7,02 | 6,39 | 6,31 | 6,69 | 6,83 | 7,19 | 6,93 | 6,69 | 7,06 | 6,82 | 6,93 | 7,30 | 7,15 | 7,31 | 7,05 |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | |
| SEPR A,E W/W | 7,02 | 6,39 | 6,31 | 6,69 | 6,83 | 7,19 | 6,93 | 6,69 | 7,06 | 6,82 | 6,93 | 7,30 | 7,15 | 7,31 | 7,05 |

⁽¹⁾ Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | Α | 259,9 | 299,9 | 388,4 | 452,7 | 485,9 | 534,4 | 534,4 | 582,4 | 670,9 | 727,4 | 774,9 | 874,2 | 917,2 | 1002,2 | 1036,2 |
| Peak current (LRA) | A,E | Α | 59,9 | 59,9 | 68,4 | 582,4 | 617,9 | 666,4 | 666,4 | 790,4 | 878,9 | 1008,4 | 1080,0 | 1180,2 | 1335,2 | 1420,2 | 1532,2 |

GENERAL TECHNICAL DATA

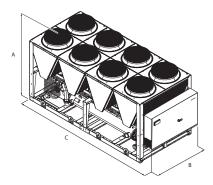
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|-----------------------------------|-----|------|--------|--------|--------|----------|----------|----------|----------|-------------|-----------|----------|----------|----------|----------|----------|----------|
| Compressor | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Screw | | | | | | | |
| Compressor regulation | A,E | Туре | I | - | - 1 | I+0n/0ff | I+0n/0ff | I+0n/0ff | 1+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff | I+0n/0ff |
| Number | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | | | | R134a | | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | S | hell and tu | be | | | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | | | G | rooved joir | its | | | | | | |
| Sizes (in/out) | A,E | Ø | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 8" | 8" | 8" | 8" | 10" | 10" | 10" | 10" |
| Fan | | | | | | | | | | | | | | | | | |
| Туре | A,E | type | | | | | | | | Axial | | | | | | | |
| Fan motor | A,E | type | | | | | | | Asynchro | nous with | phase cut | | | | | | |
| Number | A,E | no. | 8 | 8 | 10 | 10 | 12 | 14 | 14 | 14 | 16 | 18 | 20 | 22 | 22 | 22 | 22 |
| Air flow rate | A,E | m³/h | 109600 | 109600 | 137000 | 137000 | 164400 | 191800 | 191800 | 191800 | 219200 | 146600 | 274000 | 301400 | 301400 | 301400 | 301400 |

Sound data

| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|--|---|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sound data calculated in cooling mode (1 |) | | | | | | | | | | | | | | | | |
| Cound a count lovel | Α | dB(A) | 98,1 | 99,2 | 99,4 | 99,4 | 99,7 | 100,7 | 100,7 | 101,1 | 101,2 | 101,3 | 101,9 | 103,6 | 103,8 | 103,8 | 103,9 |
| Sound power level | F | dR(A) | 94 2 | 96.0 | 96 3 | 95 7 | 96.2 | 96.6 | 96.6 | 97.8 | 97 9 | 98 3 | 98.6 | 100.2 | 100.2 | 100.2 | 100 3 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
|------------------------------|-----|----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| | | | 1231 | 1001 | 1001 | 2332 | 2032 | 2002 | 3202 | 3402 | 3002 | 4102 | 4402 | 4002 | 3202 | 3/02 | 0102 |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| (| A,E | mm | 4760 | 4760 | 5950 | 6400 | 7140 | 8330 | 8330 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 | 13090 | 13090 |
| Weight NSMI free-cooling | | | | | | | | | | | | | | | | | |
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| Frankrissisk | Α | kg | 4220 | 4670 | 5207 | 6669 | 7211 | 7767 | 7858 | 8507 | 9106 | 9983 | 10543 | 12125 | 12214 | 12244 | 12318 |
| Empty weight | E | kg | 4522 | 4972 | 5508 | 7272 | 7815 | 8371 | 8462 | 9110 | 9709 | 10586 | 11146 | 12963 | 13053 | 13083 | 13156 |
| Weight NSMI free-cooling plu | ıs | | | | | | | | | | | | | | | | |
| Size | | | 1251 | 1601 | 1801 | 2352 | 2652 | 2802 | 3202 | 3402 | 3802 | 4102 | 4402 | 4802 | 5202 | 5702 | 6102 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | |
| Emptyweight | Α | kg | 4327 | 4777 | 5340 | 6803 | 7404 | 7992 | 8083 | 8731 | 9363 | 10272 | 10864 | 12478 | 12567 | 12597 | 12671 |
| Empty weight | E | kg | 4629 | 5079 | 5642 | 7406 | 8007 | 8596 | 8687 | 9335 | 9966 | 10875 | 11467 | 13316 | 13406 | 13436 | 13510 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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TBA 1300-3350 F

Air-water chiller with free-cooling

Cooling capacity 317,2 ÷ 1223,6 kW



- · High efficiency also at partial loads
- Microchannel coil
- Low peak current (only 6 Amps!)
- · Evaporator with low refrigerant charge
- Available also R513A (XP10) refrigerant gas



DESCRIPTION

Air-cooled chiller designed to meet air conditioning needs in residential / commercial complexes or industrial applications.

These are outdoor units with oil free centrifugal compressor, axial fans, micro-channel coils, and shell and tube heat exchangers.

The base, the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 43°C external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

Units mono or dual-circuit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Oil free centrifugal compressor

Two-stage oil-free centrifugal compressor with magnetic levitation and inverter.

Compressor features:

- Operates without oil as bearings are magnetic levitation type
- Continuous load modulation by varying rpm (from 30% to 100%)
- Low peak currents (only 6 Amps!)

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

Further features:

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

CONFIGURATOR

| _ | | GURATUR |
|------|-----|--|
| Fiel | | Description |
| 1,2, | .3 | TBA |
| 4,5, | 6,7 | Size 1300, 1350, 2300, 2325, 2350, 3300, 3320, 3340, 3350 |
| 8 | | Model |
| | F | Free-cooling |
| | Р | Free-cooling plus (1) |
| 9 | | Heat recovery |
| | 0 | Without heat recovery |
| 10 | | Version |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| 11 | | Coils / free-cooling coils |
| | 0 | Alluminium microchannel / Copper - aluminium |
| | 0 | Painted alluminium microchannel / Copper painted aluminium |
| | R | Copper-copper/Copper-copper |
| | S | Copper-Tinned copper / Copper -Tinned copper |
| | V | Copper-painted alumimium / Copper-painted alumimium |
| 12 | | Fans |
| | J | Inverter |
| 13 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14,1 | 15 | Integrated hydronic kit |
| | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (2) |
| | | Pump n° 1 pump + stand-by pump |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| | DF | Pump F + stand-by pump |
| | DG | Pump G + stand-by pump |
| | | |

| Field | Description |
|-------|--|
| | H Pump H + stand-by pump |
| | |
| | |
| | Kit with inverter pump to fixed speed |
| | |
| | |
| | |
| | |
| | |
| | · · · · · · |
| | |
| | |
| | |
| - I. | Pump J equipped with inverter device to work at fixed speed (2) |
| | Kit with n°1 pump + stand-by pump both equipped wih inverter device to work at |
| | fixed speed |
| J | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| J | B Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| J | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| J | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| J | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| J | Pump F+stand-by pump, both equipped with inverter to work at fixed speed |
| J | 71 17 17 17 17 17 17 17 17 17 17 17 17 1 |
| J | H Pump H+stand-by pump, both equipped with inverter to work at fixed speed |
| J | 1 |
| J | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (2) |
| | Kit with double pump both equipped with inverter device to work at fixed speed |
| K | |
| K | G Doble pump G with inverter device to work at fixed speed |
| K | H Doble pump H with inverter device to work at fixed speed |
| K | |
| K | · · · · · · · · · · · · · · · · · · · |
| | Kit with double pumps |
| T | |
| T | |
| T | |
| T | |
| T | |
| 16 | Refrigerant gas |
| | R134a |
| | R513A (XP10) |

⁽¹⁾ The Free-Cooling Plus "P" models are only compatible with"^{o"} ed "O" (2) For all configurations including pump J please contact the factory.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible

to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

GP_T: Anti-intrusion grid kit

ACCESSORIES COMPATIBILITY

| ACCESSORIES COM | / TITOTETT | | | | | | | | | |
|---------------------|------------|------|------|------|------|------|------|------|------|------|
| Model | Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
| AER485P1 | A,E | • | • | • | | • | • | | • | • |
| AER485P1 x n° 2 (1) | A,E | | | | | | | | | |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | | | | | | | | • |
| MULTICHILLER_EVO | A,E | • | • | • | • | • | • | • | • | • |
| PGD1 | A,E | | | | | | | | | • |

⁽¹⁾ x Indicates the quantity of accessories to match.

Antivibration

| Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,E | AVX (1) |

(1) Contact us.

Anti-intrusion grid

| Ver | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|-----|------|------|------|------|------|------|-------|-------|-------|
| A,E | GP3T | GP4T | GP6T | GP7T | GP8T | GP9T | GP10T | GP11T | GP11T |

A grey background indicates the accessory must be assembled in the factory $% \left(1\right) =\left(1\right) \left(1\right)$

PERFORMANCE SPECIFICATIONS

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|-----------------------------------|------------|-------|-------|-------|--------|---------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | |
| Cooling performance chiller opera | ation (1) | | | | | | | | | | |
| Cooling capacity | A,E | kW | 317,2 | 419,2 | 634,5 | 736,4 | 838,4 | 934,7 | 1065,0 | 1149,0 | 1223,6 |
| Input power | A,E | kW | 91,6 | 121,8 | 182,8 | 214,3 | 244,4 | 267,3 | 311,2 | 337,8 | 365,9 |
| Cooling total input current | A,E | A | 147,5 | 198,3 | 295,0 | 345,8 | 396,7 | 427,5 | 498,3 | 559,2 | 604,2 |
| EER | A,E | W/W | 3,46 | 3,44 | 3,47 | 3,44 | 3,43 | 3,50 | 3,42 | 3,40 | 3,34 |
| Water flow rate system side | A,E | I/h | 54505 | 72025 | 109011 | 126530 | 144050 | 160596 | 182983 | 197414 | 210235 |
| Pressure drop system side | A,E | kPa | 65 | 32 | 70 | 54 | 45 | 69 | 72 | 66 | 52 |
| Cooling performances with free-c | ooling (2) | | | | | | | | | | |
| Cooling capacity | A,E | kW | 297,2 | 395,5 | 594,4 | 692,7 | 791,1 | 888,3 | 994,1 | 1085,0 | 1100,1 |
| Input power | A,E | kW | 11,3 | 15,0 | 22,5 | 26,3 | 30,0 | 33,8 | 37,5 | 41,3 | 41,3 |
| Free cooling total input current | A,E | A | 17,5 | 23,3 | 35,0 | 40,8 | 46,7 | 52,5 | 58,3 | 64,2 | 64,2 |
| EER | A,E | W/W | 26,41 | 26,36 | 26,41 | 26,38 | 26,36 | 26,31 | 26,50 | 26,30 | 26,66 |
| Water flow rate system side | A,E | l/h | 54505 | 72025 | 109011 | 126530 | 144050 | 160596 | 182983 | 197414 | 210235 |
| Pressure drop system side | A,E | kPa | 118 | 78 | 130 | 103 | 99 | 127 | 138 | 117 | 109 |
| Model: P | - | | | | | | | | | | |
| Cooling performance chiller opera | ation (1) | | | | | | | | | | |
| Cooling capacity | A,E | kW | 317,2 | 419,2 | 634,5 | 736,4 | 838,4 | 934,7 | 1065,0 | 1149,0 | 1206,6 |
| Input power | A,E | kW | 93,1 | 123,9 | 185,8 | 217,9 | 248,6 | 271,6 | 316,4 | 343,6 | 366,0 |
| Cooling total input current | A,E | A | 147,9 | 198,8 | 295,7 | 346,7 | 397,6 | 428,6 | 499,6 | 560,5 | 605,5 |
| EER | A,E | W/W | 3,41 | 3,38 | 3,42 | 3,38 | 3,37 | 3,44 | 3,37 | 3,34 | 3,30 |
| Water flow rate system side | A,E | I/h | 54505 | 72025 | 109011 | 126530 | 144050 | 160596 | 182983 | 197414 | 207315 |
| Pressure drop system side | A,E | kPa | 65 | 32 | 70 | 54 | 45 | 69 | 72 | 66 | 50 |
| Cooling performances with free-c | ooling (2) | | | | | | | | | | |
| Cooling capacity | A,E | kW | 319,4 | 425,1 | 638,8 | 744,5 | 850,2 | 954,8 | 1068,2 | 1166,2 | 1181,8 |
| Input power | A,E | kW | 11,5 | 15,3 | 23,0 | 26,8 | 30,7 | 34,5 | 38,4 | 42,2 | 42,2 |
| Free cooling total input current | A,E | A | 17,9 | 18,8 | 35,7 | 36,7 | 37,6 | 53,6 | 44,6 | 65,5 | 80,5 |
| | | W/W | 27,76 | 27,71 | 27,76 | 27,73 | 27,71 | 27,66 | 27,85 | 27,64 | 28,01 |
| EER | A,E | VV/VV | 21,10 | 41,11 | 21,10 | ב ון וב | 2,,, , | 27,00 | 21,03 | 27,04 | 20,01 |
| EER Water flow rate system side | A,E | I/h | 54505 | 72025 | 109011 | 126530 | 144050 | 160596 | 182983 | 197414 | 207315 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C/7 °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|-----------------------------------|----------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | |
| SEER - (EN14825:2018) 12/7 with i | nverter fans (1) | | | | | | | | | | |
| SEER | A,E | W/W | 5,06 | 5,14 | 5,21 | 5,17 | 5,30 | 5,40 | 5,32 | 5,26 | 5,23 |
| Seasonal efficiency | A,E | % | 199,3% | 202,7% | 205,5% | 203,6% | 208,8% | 212,8% | 209,6% | 207,2% | 206,1% |
| SEPR - (EN14825: 2018) High temp | erature with inverte | r fans (2) | | | | | | | | | |
| SEPR | A,E | W/W | 8,65 | 8,51 | 8,79 | 8,32 | 8,53 | 9,04 | 9,34 | 8,89 | 8,58 |
| Model: P | | | | | | | | | | | |
| SEER - (EN14825:2018) 12/7 with i | nverter fans (1) | | | | | | | | | | |
| SEER | A,E | W/W | 4,98 | 5,06 | 5,14 | 5,09 | 5,21 | 5,32 | 5,11 | 5,18 | 5,17 |
| Seasonal efficiency | A,E | % | 196,3% | 199,4% | 202,5% | 200,4% | 205,5% | 209,7% | 201,2% | 204,0% | 203,7% |
| SEPR - (EN14825: 2018) High temp | erature with inverte | r fans (2) | | | | | | | | | |
| SEPR | A,E | W/W | 8,91 | 8,45 | 8,88 | 8,53 | 8,65 | 9,18 | 8,99 | 9,06 | 8,81 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | |
| Maximum current (FLA) | A,E | A | 165,0 | 249,0 | 329,0 | 413,0 | 498,0 | 493,0 | 577,0 | 737,0 | 737,0 |
| Peak current (LRA) | A,E | A | 36.0 | 45.0 | 210.0 | 305.0 | 315.0 | 384,0 | 479.0 | 575,0 | 575,0 |

GENERAL TECHNICAL DATA

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|---------------------------------------|-------|-------|------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | |
| Туре | A,E | type | | | | | Centrifugal | | | | |
| Compressor regulation | A,E | Туре | | | | | Inverter | | | | |
| Number | A,E | no. | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Circuits | A,E | no. | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| Refrigerant | A,E | type | | | | | R134a | | | | |
| Refrigerant charge (1) | A,E | kg | 81,5 | 165,7 | 163,0 | 253,8 | 295,8 | 275,2 | 317,2 | 327,9 | 397,9 |
| System side heat exchanger | | | | | | | | | | | |
| Туре | A,E | type | | | | | Shell and tube | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | Grooved joints | | | | |
| Size (in) | A,E | Ø | 3" | 4" | 4" | 5" | 5" | 5" | 5" | 6" | 6" |
| Size (out) | A,E | Ø | 3" | 4" | 4" | 5" | 5" | 5" | 5" | 6" | 6" |
| Sound data calculated in cooling mode | 2 (2) | | | | | | | | | | |
| Country and a second | A | dB(A) | 88,3 | 90,0 | 91,3 | 92,8 | 93,1 | 93,1 | 94,1 | 95,5 | 95,5 |
| Sound power level | E | dB(A) | 82,3 | 84,0 | 85,3 | 86,8 | 87,1 | 87,1 | 88,1 | 89,5 | 89,5 |
| Cound assessme level (10 m) | A | dB(A) | 56,1 | 57,6 | 58,7 | 60,0 | 60,2 | 60,1 | 61,0 | 62,3 | 62,3 |
| Sound pressure level (10 m) | E | dB(A) | 50,1 | 51,6 | 52,7 | 54,0 | 54,2 | 54,1 | 55,0 | 56,3 | 56,3 |

General data - fans (F model)

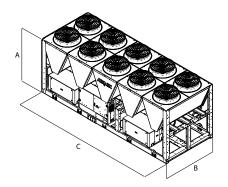
| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|---------------|-----|------|-------|--------|--------|--------|----------|--------|--------|--------|--------|
| Fan | | | | | | | | | | | |
| Туре | A,E | type | | | | | Axial | | | | |
| Fan motor | A,E | type | | | | | Inverter | | | | |
| Number | A,E | no. | 6 | 8 | 12 | 14 | 16 | 18 | 20 | 22 | 22 |
| Air flow rate | A,E | m³/h | 93180 | 124240 | 186360 | 217420 | 248480 | 279540 | 310600 | 341660 | 341660 |

General data - fans (P model)

| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|---------------|-----|------|-------|--------|--------|--------|----------|--------|--------|--------|--------|
| Fan | | | | | | | | | | | |
| Туре | A,E | type | | | | | Axial | | | | |
| Fan motor | A,E | type | | | | | Inverter | | | | |
| Number | A,E | no. | 6 | 8 | 12 | 14 | 16 | 18 | 20 | 22 | 22 |
| Air flow rate | A,E | m³/h | 88680 | 118240 | 177360 | 206920 | 236480 | 266040 | 295600 | 325160 | 325160 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
|------------------------|-------|----|------|------|------|------|------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| (| A,E | mm | 3570 | 4760 | 7140 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 |
| Model F | | | | | | | | | | | |
| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
| Integrated hydronic ki | t: 00 | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Former to be | A | kg | 3290 | 4330 | 5860 | 7050 | 8020 | 8490 | 9820 | 10310 | 10670 |
| Empty weight | E | kg | 3370 | 4440 | 6030 | 7250 | 8240 | 8740 | 10100 | 10610 | 10970 |
| W. L. C. et al. | A | kg | 3570 | 4720 | 6380 | 7680 | 8790 | 9270 | 10720 | 11270 | 11710 |
| Weight functioning | E | kg | 3650 | 4830 | 6550 | 7880 | 9010 | 9520 | 11000 | 11570 | 12010 |
| Model P | | | | | | | | | | | |
| Size | | | 1300 | 1350 | 2300 | 2325 | 2350 | 3300 | 3320 | 3340 | 3350 |
| Integrated hydronic ki | t: 00 | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Emptyweight | A | kg | 3380 | 4460 | 6050 | 7270 | 8270 | 8780 | 10140 | 10650 | 11020 |
| Empty weight | E | kg | 3470 | 4570 | 6220 | 7470 | 8490 | 9020 | 10410 | 10960 | 11320 |
| Weight functioning | A | kg | 3700 | 4910 | 6650 | 8000 | 9150 | 9680 | 11180 | 11760 | 12220 |
| Weight functioning | E | kg | 3790 | 5020 | 6820 | 8200 | 9370 | 9920 | 11450 | 12070 | 12520 |





















TBG 1230-4310 F

Air-water chiller with free-cooling

Cooling capacity 238 ÷ 1110 kW



- HFO R1234ze refrigerant gas
- · High efficiency also at partial loads
- Microchannel coil
- Low peak current (only 6 Amps!)
- · Evaporator with low refrigerant charge



DESCRIPTION

Air-cooled chiller designed to meet air conditioning needs in residential / commercial complexes or industrial applications.

These are outdoor units with oil free centrifugal compressor, axial fans, micro-channel coils, and shell and tube heat exchangers.

The base, the structure and the panels are made of steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Operation at full load up to 43°C external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

Units mono or dual-circuit

The units according to the size are mono or dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Oil free centrifugal compressor

Two-stage oil-free centrifugal compressor with magnetic levitation and inverter.

Compressor features:

- Operates without oil as bearings are magnetic levitation type
- Continuous load modulation by varying rpm (from 30% to 100%)
- Low peak currents (only 6 Amps!)

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

 A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations, to obtain a solution that allows you to save money and to facilitate installation.

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

da ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430:

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

Further features:

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

| CO | NFI | GURATOR |
|------|-----|--|
| Fiel | d | Description |
| 1,2, | .3 | TBG |
| 4,5, | 6,7 | Size 1230, 1310, 2230, 2270, 2310, 3270, 3280, 3310, 4270, 4310 |
| 8 | | Model |
| | F | Free-cooling |
| | Р | Free-cooling plus (1) |
| 9 | | Heat recovery |
| | 0 | Without heat recovery |
| 10 | | Version |
| | Α | High efficiency |
| | E | Silenced high efficiency |
| 11 | | Coils / free-cooling coils |
| | 0 | Alluminium microchannel / Copper - aluminium |
| | 0 | Painted alluminium microchannel / Copper painted aluminium |
| | R | Copper-copper/Copper-copper |
| | S | Copper-Tinned copper / Copper -Tinned copper |
| | V | Copper-painted alumimium / Copper-painted alumimium |
| 12 | | Fans |
| | J | Inverter |
| 13 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14, | 15 | Integrated hydronic kit |
| _ | 00 | Without hydronic kit |
| | | Kit with n° 1 pump |
| | PA | Pump A |
| | PB | Pump B |
| | PC | Pump C |
| | PD | Pump D |
| | PE | Pump E |
| _ | PF | Pump F |
| | PG | Pump G |
| | PH | Pump H |
| | PI | Pump I |
| | PJ | Pump J (2) |
| | | Pump n° 1 pump + stand-by pump |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| | DF | Pump F + stand-by pump |

| Field | Description |
|-------|--|
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (2) |
| | Kit with inverter pump to fixed speed |
| IA | Pump A equipped with inverter device to work at fixed speed |
| IB | Pump B equipped with inverter device to work at fixed speed |
| IC | Pump C equipped with inverter device to work at fixed speedr |
| ID | Pump D equipped with inverter device to work at fixed speed |
| IE | Pump E equipped with inverter device to work at fixed speed |
| IF | Pump F equipped with inverter device to work at fixed speed |
| IG | Pump G equipped with inverter device to work at fixed speed |
| IH | Pump H equipped with inverter device to work at fixed speed |
| II | Pump I equipped with inverter device to work at fixed speed |
| IJ | Pump J equipped with inverter device to work at fixed speed (2) |
| | Kit with n°1 pump + stand-by pump both equipped wih inverter device to work at |
| | fixed speed |
| JA | Pump A+stand-by pump, both equipped with inverter to work at fixed speed |
| JB | Pump B+stand-by pump, both equipped with inverter to work at fixed speed |
| JC | Pump C+stand-by pump, both equipped with inverter to work at fixed speed |
| JD | Pump D+stand-by pump, both equipped with inverter to work at fixed speed |
| JE | Pump E+stand-by pump, both equipped with inverter to work at fixed speed |
| JF | Pump F+stand-by pump, both equipped with inverter to work at fixed speed |
| JG | Pump G+stand-by pump, both equipped with inverter to work at fixed speed |
| JH | Pump H+stand-by pump, both equipped with inverter to work at fixed speed |
| JI | Pump I+stand-by pump, both equipped with inverter to work at fixed speed |
| JJ | Pump J+stand-by pump, both equipped with inverter to work at fixed speed (2) |
| | Kit with double pump both equipped with inverter device to work at fixed speed |
| KF | Doble pump F with inverter device to work at fixed speed |
| KG | Doble pump G with inverter device to work at fixed speed |
| KH | Doble pump H with inverter device to work at fixed speed |
| KI | Doble pump I with inverter device to work at fixed speed |
| KJ | Doble pump J with inverter device to work at fixed speed (2) |
| | Kit with double pumps |
| TF | Double pump F |
| TG | Double pump G |
| TH | Double pump H |
| TI | Double pump I |
| TJ | Double pump J (2) |

⁽¹⁾ The Free-Cooling Plus "P" models are only compatible with"^{o"} ed "O" (2) For all configurations including pump J please contact the factory.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 4: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

GP T: Anti-intrusion grid kit

ACCESSORIES COMPATIBILITY

| Model | Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,E | • | • | | | | | | | | |
| AER485P1 x n° 2 (1) | A,E | | | • | • | • | | | | | |
| AER485P1 x n° 3 (1) | A,E | | | | | | • | • | • | • | |
| AER485P1 x n° 4 (1) | A,E | | | | | | | | | | • |
| AERBACP | A,E | • | • | • | • | • | • | • | • | • | • |
| AERNET | A,E | • | • | • | • | • | • | • | • | • | • |
| PGD1 | A,E | | | • | | • | | • | | | |

(1) x Indicates the quantity of accessories to match.

Antivibration

| , in this is a tron | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
| A,E | AVX (1) |

(1) Contact us.

Anti-intrusion grid

| Ver | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----|------|------|------|------|------|------|------|-------|-------|-------|
| A,E | GP3T | GP4T | GP5T | GP6T | GP7T | GP8T | GP9T | GP10T | GP11T | GP11T |

A grey background indicates the accessory must be assembled in the factory

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---|-----|-----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 237,9 | 328,6 | 453,2 | 526,8 | 623,2 | 730,8 | 798,8 | 907,5 | 1019,7 | 1110,3 |
| Input power | A,E | kW | 68,6 | 95,3 | 130,6 | 153,1 | 181,1 | 211,4 | 231,7 | 260,0 | 294,0 | 328,1 |
| Cooling total input current | A,E | А | 112,5 | 158,3 | 214,2 | 255,0 | 300,8 | 346,7 | 387,5 | 433,3 | 489,2 | 549,2 |
| EER | A,E | W/W | 3,47 | 3,45 | 3,47 | 3,44 | 3,44 | 3,46 | 3,45 | 3,49 | 3,47 | 3,38 |
| Water flow rate system side | A,E | l/h | 40879 | 56452 | 77865 | 90518 | 107064 | 125557 | 137237 | 155924 | 175196 | 190769 |
| Pressure drop system side | A,E | kPa | 48 | 51 | 45 | 54 | 50 | 55 | 54 | 63 | 46 | 56 |
| Cooling performances with free-cooling (2 | 2) | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 275,5 | 371,6 | 478,0 | 568,6 | 665,9 | 766,4 | 855,5 | 956,3 | 1057,8 | 1079,5 |
| Input power | A,E | kW | 11,3 | 15,0 | 18,8 | 22,5 | 26,3 | 30,0 | 33,8 | 37,5 | 41,3 | 41,3 |
| Free cooling total input current | A,E | A | 17,5 | 23,3 | 29,2 | 35,0 | 40,8 | 46,7 | 52,5 | 58,3 | 64,2 | 64,2 |
| EER | A,E | W/W | 24,49 | 24,77 | 25,49 | 25,27 | 25,36 | 25,54 | 25,34 | 25,50 | 25,64 | 26,16 |
| Water flow rate system side | A,E | l/h | 40879 | 56452 | 77865 | 90518 | 107064 | 125557 | 137237 | 155924 | 175196 | 190769 |
| Pressure drop system side | A,E | kPa | 81 | 93 | 86 | 97 | 87 | 97 | 98 | 113 | 88 | 105 |
| Model: P | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 237,9 | 328,6 | 453,2 | 526,8 | 623,1 | 730,8 | 798,8 | 907,5 | 1019,7 | 1110,3 |
| Input power | A,E | kW | 69,6 | 96,9 | 132,6 | 155,8 | 184,3 | 214,7 | 235,6 | 265,7 | 296,9 | 337,7 |
| Cooling total input current | A,E | A | 112,5 | 158,3 | 214,2 | 255,0 | 300,8 | 346,7 | 387,5 | 433,3 | 489,2 | 549,2 |
| EER | A,E | W/W | 3,42 | 3,39 | 3,42 | 3,38 | 3,38 | 3,40 | 3,39 | 3,42 | 3,43 | 3,29 |
| Water flow rate system side | A,E | l/h | 40879 | 56452 | 77865 | 90518 | 107064 | 125557 | 137237 | 155924 | 175196 | 190769 |
| Pressure drop system side | A,E | kPa | 48 | 51 | 45 | 54 | 50 | 55 | 54 | 63 | 46 | 56 |
| Cooling performances with free-cooling (2 | 2) | | | | | | | | | | | |
| Cooling capacity | A,E | kW | 295,4 | 398,2 | 514,2 | 610,9 | 714,2 | 823,8 | 919,0 | 1029,7 | 1136,1 | 1160,9 |
| Input power | A,E | kW | 11,5 | 15,4 | 19,2 | 23,0 | 26,9 | 30,7 | 34,5 | 38,3 | 42,2 | 42,2 |
| Free cooling total input current | A,E | A | 17,5 | 23,3 | 29,2 | 35,0 | 40,8 | 46,7 | 52,5 | 58,3 | 64,2 | 64,2 |
| EER | A,E | W/W | 25,70 | 25,90 | 26,80 | 26,50 | 26,60 | 26,90 | 26,60 | 26,90 | 26,90 | 27,50 |
| Water flow rate system side | A,E | l/h | 40879 | 56452 | 77864 | 90517 | 107064 | 125557 | 137236 | 155924 | 175196 | 190768 |
| Pressure drop system side | A,E | kPa | 78 | 91 | 83 | 94 | 84 | 94 | 95 | 110 | 84 | 101 |

⁽¹⁾ System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0% (2) System side water heat exchanger 12 °C / * °C; External air 2 °C

ENERGY INDICES (REG. 2016/2281 EU)

| | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-------------------|--|--|---|---|--|---|--|---|--|---|--|
| | | | | | | | | | | | |
| rter fans (1) | | | | | | | | | | | |
| A,E | W/W | 5,40 | 5,47 | 5,72 | 5,35 | 5,72 | 5,53 | 5,64 | 5,67 | 5,66 | 5,49 |
| A,E | % | 213,1% | 215,7% | 225,9% | 210,9% | 225,8% | 218,0% | 222,6% | 223,7% | 223,4% | 216,4% |
| ture with inverte | r fans (2) | | | | | | | | | | |
| A,E | W/W | 9,45 | 9,36 | 9,37 | 8,49 | 9,15 | 9,31 | 9,45 | 9,50 | 9,47 | 9,13 |
| | | | | | | | | | | | |
| rter fans (1) | | | | | | | | | | | |
| A,E | W/W | 5,33 | 5,58 | 5,65 | 5,27 | 5,63 | 5,45 | 5,56 | 5,56 | 5,63 | 5,34 |
| A,E | % | 210,3% | 220,0% | 222,8% | 207,6% | 222,2% | 214,9% | 219,2% | 219,3% | 222,3% | 210,7% |
| ture with inverte | r fans (2) | | | | | | | | | | |
| A,E | W/W | 9,36 | 9,24 | 9,27 | 8,55 | 9,21 | 9,34 | 9,35 | 9,35 | 9,43 | 8,93 |
| | A,E A,E ture with inverte A,E rter fans (1) A,E A,E ture with inverte | A,E W/W A,E % ture with inverter fans (2) A,E W/W rter fans (1) A,E W/W A,E % ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 A,E % 213,1% ture with inverter fans (2) A,E W/W 9,45 rter fans (1) A,E W/W 5,33 A,E % 210,3% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 A,E % 213,1% 215,7% ture with inverter fans (2) A,E W/W 9,45 9,36 rter fans (1) A,E W/W 5,33 5,58 A,E % 210,3% 220,0% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 A,E % 213,1% 215,7% 225,9% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 rter fans (1) A,E W/W 5,33 5,58 5,65 A,E % 210,3% 220,0% 222,8% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 A,E % 213,1% 215,7% 225,9% 210,9% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 A,E % 210,3% 220,0% 222,8% 207,6% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 5,72 A,E % 213,1% 215,7% 225,9% 210,9% 225,8% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 9,15 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 5,63 A,E % 210,3% 220,0% 222,8% 207,6% 222,2% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 5,72 5,53 A,E % 213,1% 215,7% 225,9% 210,9% 225,8% 218,0% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 9,15 9,31 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 5,63 5,45 A,E % 210,3% 220,0% 222,8% 207,6% 222,2% 214,9% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 5,72 5,53 5,64 A,E % 213,1% 215,7% 225,9% 210,9% 225,8% 218,0% 222,6% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 9,15 9,31 9,45 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 5,63 5,45 5,56 A,E % 210,3% 220,0% 222,8% 207,6% 222,2% 214,9% 219,2% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 5,72 5,53 5,64 5,67 A,E % 213,1% 215,7% 225,9% 210,9% 225,8% 218,0% 222,6% 223,7% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 9,15 9,31 9,45 9,50 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 5,63 5,45 5,56 5,56 A,E % 210,3% 220,0% 222,8% 207,6% 222,2% 214,9% 219,2% 219,3% ture with inverter fans (2) | rter fans (1) A,E W/W 5,40 5,47 5,72 5,35 5,72 5,53 5,64 5,67 5,66 A,E % 213,1% 215,7% 225,9% 210,9% 225,8% 218,0% 222,6% 223,7% 223,4% ture with inverter fans (2) A,E W/W 9,45 9,36 9,37 8,49 9,15 9,31 9,45 9,50 9,47 rter fans (1) A,E W/W 5,33 5,58 5,65 5,27 5,63 5,45 5,56 5,56 5,63 A,E % 210,3% 220,0% 222,8% 207,6% 222,2% 214,9% 219,2% 219,3% 222,3% ture with inverter fans (2) |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | |
| Maximum current (FLA) | A,E | A | 125,0 | 189,0 | 239,0 | 304,0 | 368,0 | 418,0 | 538,0 | 547,0 | 597,0 | 707,0 |
| Peak current (LRA) | A,E | A | 36,0 | 45,0 | 161,0 | 230,0 | 239,0 | 355,0 | 424,0 | 433,0 | 549,0 | 608,0 |

GENERAL TECHNICAL DATA

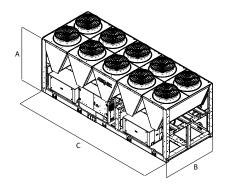
| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---------------------------------------|-----|-------|------|-------|-------|-------|---------|----------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Centi | ifugal | | | | |
| Compressor regulation | A,E | Туре | | | | | Inve | erter | | | | |
| Number | A,E | no. | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| Circuits | A,E | no. | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| Refrigerant | A,E | type | | | | | R12 | 34ze | | | | |
| Refrigerant charge (1) | A,E | kg | 81,5 | 120,1 | 152,3 | 187,1 | 197,8 | 264,5 | 275,2 | 285,9 | 327,9 | 327,9 |
| System side heat exchanger | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Shell a | nd tube | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydraulic connections | | | | | | | | | | | | |
| Connections (in/out) | A,E | Туре | | | | | Groove | d joints | | | | |
| Size (in) | A,E | Ø | 3" | 3" | 4" | 4" | 5" | 5" | 5" | 5" | 6" | 6" |
| Size (out) | A,E | Ø | 3" | 3" | 4" | 4" | 5" | 5" | 5" | 5" | 6" | 6" |
| Sound data calculated in cooling mode | (2) | | | | | | | | | | | |
| | A | dB(A) | 86,3 | 88,9 | 88,8 | 90,5 | 91,7 | 91,6 | 93,1 | 93,3 | 93,3 | 94,2 |
| Sound power level | E | dB(A) | 83,3 | 85,9 | 85,8 | 87,5 | 88,7 | 88,6 | 90,1 | 90,3 | 90,3 | 91,2 |
| C d /10 \ | A | dB(A) | 54,1 | 56,5 | 56,3 | 57,9 | 58,9 | 58,7 | 60,1 | 60,2 | 60,1 | 61,0 |
| Sound pressure level (10 m) | E | dB(A) | 51,1 | 53,5 | 53,3 | 54,9 | 55,9 | 55,7 | 57,1 | 57,2 | 57,1 | 58,0 |

General data - fans

| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|---------------|-----|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Ax | ial | | | | |
| Fan motor | A,E | type | | | | | Inve | erter | | | | |
| Number | A,E | no. | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 22 |
| Air flow rate | A,E | m³/h | 93150 | 124200 | 155250 | 186300 | 217350 | 248400 | 279450 | 310500 | 341550 | 341550 |
| Model: P | | | | | | | | | | | | |
| Inverter fan | | | | | | | | | | | | |
| Туре | A,E | type | | | | | Ax | ial | | | | |
| Fan motor | A,E | type | | | | | Inve | erter | | | | |
| Number | A,E | no. | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 22 |
| Air flow rate | A,E | m³/h | 88800 | 118400 | 148000 | 177600 | 207200 | 236800 | 266400 | 296000 | 325600 | 325600 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
|-----------------------------|-----|----|------|------|------|------|------|------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| C | A,E | mm | 3570 | 4760 | 5950 | 7140 | 8330 | 9520 | 10710 | 11900 | 13090 | 13090 |
| Model F | | | | | | | | | | | | |
| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| F | А | kg | 3250 | 4110 | 5220 | 6180 | 6770 | 8130 | 8720 | 9400 | 10960 | 11220 |
| Empty weight | E | kg | 3330 | 4220 | 5360 | 6350 | 6960 | 8350 | 8960 | 9670 | 11270 | 11520 |
| W. inha formation in | A | kg | 3510 | 4450 | 5630 | 6700 | 7360 | 8820 | 9500 | 10250 | 11920 | 12190 |
| Weight functioning | E | kg | 3590 | 4560 | 5770 | 6870 | 7550 | 9040 | 9740 | 10520 | 12230 | 12490 |
| Model P | | | | | | | | | | | | |
| Size | | | 1230 | 1310 | 2230 | 2270 | 2310 | 3270 | 3280 | 3310 | 4270 | 4310 |
| Integrated hydronic kit: 00 | | | | | | | | | | | | |
| Weights | | | | | | | | | | | | |
| Emptyweight | A | kg | 3340 | 4240 | 5380 | 6370 | 6990 | 8380 | 9000 | 9710 | 11310 | 11570 |
| Empty weight | E | kg | 3430 | 4350 | 5520 | 6540 | 7180 | 8600 | 9250 | 9990 | 11610 | 11870 |
| Wainha for sainning | А | kg | 3640 | 4640 | 5860 | 6970 | 7680 | 9180 | 9900 | 10700 | 12420 | 12690 |
| Weight functioning | E | kg | 3730 | 4750 | 6000 | 7140 | 7870 | 9400 | 10150 | 10980 | 12720 | 12990 |

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WATER / WATER CHILLERS AND HEAT PUMPS

Aermec plant engineering really comes into its own in the field of machines and technology for centralised systems. Aermec offer a full range of chillers and heat pumps from the small domestic system up to that of the large size for the service industry.

The cooling capacity range is extremely wide, and the fittings solutions are equally diverse, for scroll, screw or centrifugal compressor applications.

The careful selection of materials and the close attention paid to every detail of assembly coupled with the huge selection of accessories complete the industry-leading products designed for use in this sector, making Aermec units a real "must" in the world of Italian and European climate control.

| | R CHILLERS AND HEAT PUMPS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|--------------------------|--|-------------------------|--------------------|--------------------|------|
| Units with scroll compr | | | | | |
| VENICE H | Reversible water-cooled heat pump, gas side | | 6,9-9,8 | 8,3-11,6 | 652 |
| WRL 026H-161H | Reversible water-cooled heat pump, gas side | | 6,0-40,0 | 8,0-48,0 | 655 |
| WRL 026-161 | Water cooled heat pump reversible water side | | 6,6-44,2 | 7,5-48,0 | 662 |
| WRL 180H-650H | Reversible water-cooled heat pump, gas side | | 44,9-157,4 | 53,0-183,3 | 668 |
| WRL 180-650 | Water cooled heat pump reversible water side | | 49,0-174,0 | 55,0-192,0 | 672 |
| WRK | Reversible water-cooled heat pump, gas side | | 38,9-165,9 | 48,5-207,7 | 677 |
| WWB 0300-0900 | Water-water heat pumps only | | | 56,7-265,9 | 684 |
| WWM | Water cooled heat pump reversible water side | | 96 | 110 | 688 |
| NXW 0503-1654 | Water cooled heat pump reversible water side | | 111-511 | 127-582 | 694 |
| NXW 0503H - 1654H | Reversible water-cooled heat pump, gas side | | 106-477 | 125-565 | 699 |
| Units with screw compr | essors | | | | |
| WS 0601-2802 | Water cooled heat pump reversible water side | | 147-700 | 164-778 | 704 |
| HWS 0601 - 2802 | Water cooled heat pump reversible water side | | 147-369 | 165-778 | 708 |
| HWSG | Water cooled heat pump reversible water side | | 110-396 | 122-595 | 712 |
| WSH | Reversible water-cooled heat pump, gas side | | 165,8-269,7 | 183,3-300,3 | 716 |
| WFGI | Water cooled heat pump reversible water side | | 217-1765 | 243-1960 | 720 |
| WFGN | Water cooled heat pump reversible water side | | 136-1727 | 153-1921 | 729 |
| WFI | Water cooled heat pump reversible water side | | 291-2406 | 326-2664 | 736 |
| WFN | Water cooled heat pump reversible water side | | 182-2349 | 205-2610 | 745 |
| Units with centrifugal c | ompressors | | | | |
| WMX | Water/water chiller (with R134a) | | 280,1-324,2 | | 753 |
| WMG | Water/water chiller (with R1234ze) | | 282,3-312,4 | | 756 |
| WTX | Water/water chiller | | 222,9-1958,4 | | 759 |
| WTG | Water/water chiller (with R1234ze) | | 246,6-1959,4 | | 764 |
| | | | | | |

















VENICE-H



- Compact dimensions
- Quick & easy installation

Reversible water-cooled heat pump, gas side

Cooling capacity 6,9 ÷ 9,7 kW Heating capacity 8,3 ÷ 11,7 kW





DESCRIPTION

The water-cooled heat pumps are reversible units for the production of chilled and hot water. They are indoor units with scroll compressors, system side heat exchangers and a plate source, which fully meet the needs of the residential market: reduced size, easy installation, low noise levels.

FEATURES

- Cycle reversal on refrigerant circuit
- All versions are equipped with circulation pump, water tank, water filter and safety valve
- Complies with safety (EC) directive
- Differential pressure switch on the external circuit standard on heat pumps
- Flow-switch supplied in series only on the DHW side exchanger.
- Microprocessor control

- Control panel
- Plate heat exchanger
- Compact dimensions
- Metallic protective cabinet with rustproofing polyester paint RAL 9003
- Protection rating IP 24

ACCESSORIES

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

VPH: Pressure switch valve with bypass solenoid valve, during cooling mode operation the bypass valve is closed so the water flows exclusively through the circuit with the pressure switch. During heating mode operation the water flows through both branches of the circuit.

VT: Antivibration supports

ACCESSORIES COMPATIBILITY

| Accessory | VENICE 20H | VENICE 25H | VENICE 30H |
|-----------------------|------------|------------|------------|
| PR3 | • | • | • |
| Pressure switch valve | | | |
| Accessory | VENICE 20H | VENICE 25H | VENICE 30H |
| VPH10 | • | | |
| VPH11 | | • | • |
| Antivibration | | | |
| Accessory | VENICE 20H | VENICE 25H | VENICE 30H |
| VT7 | • | • | • |

652 www.aermec.com VENICE-20-30-HP_Y_UN50_04

PERFORMANCE SPECIFICATIONS

| | | VENICE 20H | VENICE 25H | VENICE 30H |
|---------------------------------------|-----|------------|------------|------------|
| Cooling performance 12 °C / 7 °C (1) | | | | |
| Cooling capacity | kW | 6,9 | 8,2 | 9,7 |
| Input power | kW | 1,9 | 2,2 | 2,6 |
| Cooling total input current | A | 9,0 | 11,0 | 13,0 |
| EER | W/W | 3,62 | 3,71 | 3,72 |
| Water flow rate system side | l/h | 1185 | 1409 | 1667 |
| Useful head system side | kPa | 63,0 | 61,0 | 59,0 |
| Water flow rate source side | l/h | 1495 | 1769 | 2095 |
| Pressure drop source side | kPa | 18 | 17 | 12 |
| Heating performance 40 °C / 45 °C (2) | | | | |
| Heating capacity | kW | 8,3 | 10,0 | 11,7 |
| Input power | kW | 2,3 | 2,7 | 3,2 |
| Heating total input current | A | 12,0 | 14,0 | 16,0 |
| COP | W/W | 3,66 | 3,66 | 3,70 |
| Water flow rate system side | l/h | 1450 | 1729 | 2027 |
| Useful head system side | kPa | 48,0 | 44,0 | 41,0 |
| Water flow rate source side | l/h | 1791 | 2133 | 2505 |
| Pressure drop source side | kPa | 25 | 25 | 17 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

| | | VENICE 20H | VENICE 25H | VENICE 30H |
|--|-----------------------------------|--------------------------|------------|------------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | |
| SEER | W/W | 3,66 | 3,94 | 4,02 |
| Seasonal efficiency | % | 143,4 | 154,6 | 157,8 |
| UE 811/2013 performance in average amb | ient conditions (average) - 35 °C | : - Pdesignh ≤ 70 kW (2) | | |
| Pdesignh | kW | 11 | 13 | 16 |
| SCOP | W/W | 4,20 | 4,25 | 4,33 |
| ηsh | % | 160,00 | 162,00 | 165,00 |
| Efficiency energy class | | A++ | A++ | A++ |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Efficiencies for low temperature applications (35 $^{\circ}$ C)

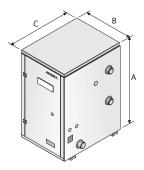
ELECTRIC DATA

| | | VENICE 20H | VENICE 25H | VENICE 30H |
|-----------------------|---|------------|------------|------------|
| Power supply | | | | |
| Power supply | | 230V~50Hz | 230V~50Hz | 230V~50Hz |
| Electric data | | | | |
| Maximum current (FLA) | A | 15,0 | 18,0 | 24,0 |
| Peak current (LRA) | A | 61,0 | 76,0 | 100,0 |

GENERAL TECHNICAL DATA

| | | VENICE 20H | VENICE 25H | VENICE 30H |
|----------------------------|-------|--------------|--------------|--------------|
| Compressor | | | | |
| Туре | type | Scroll | Scroll | Scroll |
| Number | no. | 1 | 1 | 1 |
| Circuits | no. | 1 | 1 | 1 |
| Refrigerant | type | R407C | R407C | R407C |
| System side heat exchanger | | | | |
| Туре | type | Brazed plate | Brazed plate | Brazed plate |
| Number | no. | 1 | 1 | 1 |
| Connections (in/out) | Туре | Gas M | Gas M | Gas M |
| Sizes (in/out) | Ø | 1″ | 1" | 1" |
| Source side heat exchanger | | | | |
| Туре | type | Brazed plate | Brazed plate | Brazed plate |
| Number | no. | 1 | 1 | 1 |
| Connections (in/out) | Туре | Gas M | Gas M | Gas M |
| Sizes (in/out) | Ø | 1″ | 1" | 1" |
| Sound data | | | | |
| Sound power level | dB(A) | 56,0 | 56,0 | 57,0 |
| Sound pressure | dB(A) | 48,0 | 48,0 | 49,0 |

DIMENSIONS



| | | VENICE 20H | VENICE 25H | VENICE 30H |
|------------------------|----|------------|------------|------------|
| Dimensions and weights | | | | |
| A | mm | 625 | 625 | 625 |
| В | mm | 404 | 404 | 404 |
| C | mm | 504 | 504 | 504 |
| Empty weight | kg | 103 | 106 | 109 |



















WRL 026H - 161H

Reversible water-cooled heat pump, gas side

Cooling capacity 6 ÷ 40 kW Heating capacity 8 ÷ 48 kW



- High efficiency
- Production of hot water up to 60 °C
- Production of domestic hot water priority
- Suitable for geothermal applications





DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications. Indoor units with hermetic scroll compressors and plate heat exchangers.

In the configuration with desuperheater, it is also possible to produce free-hot water.

The technological choices made, always oriented to the highest quality, ensure very easy installation. In fact the electrical and hydraulic connections are all located in the upper part of the unit, facilitating the installation and maintenance operations and also reducing the technical gaps and their position in as little space as possible.

VERSIONS

° Without storage tank **A** With storage tank

FEATURES

Operating field

Operation at full power with domestic hot water for the system up to

(for more information, refer to the technical documentation).

Plug and play

All the units are equipped with scroll compressors and plate heat exchangers; the base and panelling are made of steel treated with RAL 9003 polyester paints.

The electric and hydraulic connections are all located on the upper part of the unit facilitating installation and maintenance. This allows reduced plant room space and installation in the smallest space possible. The heat pump can be supplied with all the components required for its installation in new systems and to replace other heat generators. It can be combined with low temperature emission systems such as floor heating or fan coils, but also with conventional radiators.

Version with Integrated hydronic kit

The standard unit is supplied with a water filter, differential pressure switch and safety valve already installed on the service and source side (and also on the recovery side, if present).

To obtain a solution that offers economic savings and facilitates installation, these units can be configured with an integrated hydronic kit on both hydraulic sides (service and source).

Low-head and high-head pumps are available, along with a modulating 2-way valve that can only be applied on the source side to reduce consumption in applications with groundwater.

CONTROL MPC

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

KSAE: External air sensor.

PGD1: Allows you to control the unit at a distance.

SSM: Probe to be used with the mixer valve in applications with radiant panels. The probe requires the VMF-CRP area accessory as well.

TAH: Ambient terminal with temperature and humidity probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump and dehumidifier consent.

TAT: Ambient terminal with temperature probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump.

VT: Antivibration supports

VPHL: Pressure switch valve with bypass solenoid valve, during cooling mode operation the bypass valve is closed so the water flows exclusively through the circuit with the pressure switch. During heating mode $\,$ operation the water flows through both branches of the circuit.

ACCESSORIES COMPATIBILITY

| Model | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER485P1 | • | • | • | • | • | • | • | • | • |
| AERBACP | • | • | • | • | • | • | • | • | • |
| KSAE | • | • | • | • | • | • | • | • | • |
| PGD1 | • | • | • | • | • | • | • | • | • |
| SSM | • | • | • | • | • | • | • | • | • |
| TAH | • | • | • | • | • | • | • | • | • |
| TAT | • | • | • | • | • | • | • | • | • |

Antivibration

| Version | Integrated hydronic kit, source side | Integrated hydronic kit user side | 026 | 031 | 041 | 051 | 071 |
|---------|---|--------------------------------------|-----------|------|------|------|------|
| 0 | °,B,I,U,V | °,N,P | VT9 | VT9 | VT9 | VT9 | VT9 |
| A | °,B,I,U,V | °,N,P | VT15 | VT15 | VT15 | VT15 | VT15 |
| Version | Integrated hydronic source side | kit, Integrated hydror user side | nic kit 0 | 31 | 101 | 141 | 161 |
| | Jource Jide | user side | | | | | |
| 0 | °,B,I,U,V | °,N,P | V | [9 | VT15 | VT15 | VT15 |

Pressure switch valve

| ressure switch valve | | | | | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Ver | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 | |
| °,A | VPHL1 | VPHL1 | VPHL2 | VPHL2 | VPHL3 | VPHL3 | VPHL4 | VPHL4 | VPHL4 | |

CONFIGURATOR

| Field | Description | |
|-------|---|--|
| 1,2,3 | WRL | |
| 4,5,6 | Size | |
| 4,5,0 | 026, 031, 041, 051, 071, 081, 101, 141, 161 | |
| 7 | Operating field | |
| Х | Electronic thermostatic expansion valve | |
| 8 | Model | |
| Н | Reversible heat pump, gas side | |
| 9 | Version | |
| 0 | Without storage tank | |
| A | With storage tank | |
| 10 | Heat recovery | |
| 0 | Without heat recovery | |
| 11 | Integrated hydronic kit, source side | |
| 0 | Without hydronic kit | |
| В | On-off pump (1) | |
| 1 | Inverter pump (2) | |
| U | Pump high head (3) | |
| V | Applications with bore hole water | |
| 12 | Integrated hydronic kit user side | |
| 0 | Without hydronic kit | |
| N | Pump high head (3) | |
| Р | On-off pump (1) | |
| 13 | Integrated hydronic kit, recovery side | |
| 0 | Without hydronic kit | |
| 14 | Soft-start | |
| 0 | Without soft-start | |
| S | With soft-start | |
| 15 | Power supply | |
| 0 | 400V~3N 50Hz | |
| 4 | 230V~3 50Hz (4) | |
| М | 230V~ 50Hz (5) | |

⁽¹⁾ For size WRL 051 ÷ 081. The speed of the inverter pump must be set upon commissioning, according to the useful static pressure required; once it has been set, the pump will work at a constant flow rate.

(2) Only for WRL 026 ÷ 081

(3) Only for WRL 101 ÷ 161

(4) Only for WRL 051 ÷ 141

(5) Only for WRL 026 ÷ 041

657

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

$WRL - (H^{\circ}) - (400V 3N \sim 50Hz)$

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---------------------------------------|-----|------|------|------|------|------|------|------|------|-------|
| Power supply: ° | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 6,3 | 8,1 | 10,4 | 13,7 | 17,8 | 20,3 | 27,6 | 35,4 | 40,4 |
| Input power | kW | 1,6 | 2,3 | 2,3 | 3,0 | 4,2 | 5,0 | 6,1 | 8,5 | 10,1 |
| Cooling total input current | A | 4,0 | 4,0 | 6,0 | 7,0 | 9,0 | 10,0 | 13,0 | 17,0 | 19,0 |
| EER | W/W | 3,98 | 3,47 | 4,52 | 4,51 | 4,18 | 4,08 | 4,49 | 4,15 | 4,01 |
| Water flow rate source side | l/h | 1346 | 1782 | 2178 | 2870 | 3759 | 4312 | 5763 | 7501 | 8611 |
| Pressure drop source side | kPa | 13 | 16 | 19 | 20 | 24 | 27 | 28 | 37 | 44 |
| Water flow rate system side | l/h | 1085 | 1396 | 1798 | 2367 | 3058 | 3492 | 4748 | 6098 | 6964 |
| Pressure drop system side | kPa | 9 | 11 | 13 | 14 | 16 | 18 | 20 | 24 | 29 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,9 | 9,5 | 12,4 | 16,4 | 20,9 | 24,0 | 32,7 | 41,7 | 47,6 |
| Input power | kW | 2,1 | 2,4 | 3,0 | 4,0 | 5,2 | 6,1 | 8,1 | 10,5 | 12,3 |
| Heating total input current | A | 4,8 | 4,8 | 6,6 | 8,3 | 10,0 | 12,0 | 16,0 | 20,0 | 23,0 |
| COP | W/W | 3,84 | 3,96 | 4,08 | 4,07 | 4,01 | 3,94 | 4,05 | 3,97 | 3,87 |
| Water flow rate source side | I/h | 1714 | 2086 | 2759 | 3635 | 4611 | 5291 | 7248 | 9196 | 10445 |
| Pressure drop source side | kPa | 34 | 34 | 46 | 43 | 50 | 59 | 52 | 62 | 73 |
| Water flow rate system side | l/h | 1364 | 1644 | 2151 | 2842 | 3616 | 4165 | 5669 | 7217 | 8246 |
| Pressure drop system side | kPa | 20 | 18 | 28 | 28 | 32 | 38 | 35 | 43 | 51 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Technical data WRL (H°) - (230V ~ 50Hz)

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---------------------------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|
| Power supply: M | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 6,3 | 7,9 | 10,3 | - | - | - | - | - | - |
| Input power | kW | 1,7 | 1,9 | 2,4 | - | - | - | - | - | - |
| Cooling total input current | A | 9,0 | 11,0 | 14,0 | - | - | - | - | - | - |
| EER | W/W | 3,74 | 4,13 | 4,28 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1363 | 1678 | 2179 | - | - | - | - | - | - |
| Pressure drop source side | kPa | 14 | 16 | 19 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1085 | 1362 | 1781 | - | - | - | - | - | - |
| Pressure drop system side | kPa | 9 | 10 | 13 | - | - | - | - | - | - |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,9 | 9,9 | 12,6 | - | - | - | - | - | - |
| Input power | kW | 2,1 | 2,6 | 3,3 | - | - | - | - | - | - |
| Heating total input current | A | 10,0 | 13,0 | 17,0 | - | - | - | - | - | - |
| COP | W/W | 3,85 | 3,89 | 3,82 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1717 | 2173 | 2745 | - | - | - | - | - | - |
| Pressure drop source side | kPa | 34 | 36 | 46 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1366 | 1723 | 2186 | - | - | - | - | - | - |
| Pressure drop system side | kPa | 20 | 22 | 29 | - | - | - | - | - | - |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

$WRL - (H^{\circ}) - (400V 3N \sim 50Hz)$

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---------------------------------------|-----|------|------|------|------|------|------|------|-------|-------|
| Power supply: ° | | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 8,3 | 10,0 | 13,5 | 17,5 | 23,9 | 27,4 | 34,9 | 47,8 | 54,5 |
| Input power | kW | 1,6 | 1,9 | 2,4 | 3,3 | 4,4 | 5,2 | 6,6 | 9,0 | 10,7 |
| Cooling total input current | A | 4,1 | 3,0 | 6,0 | 7,6 | 9,2 | 10,0 | 14,0 | 17,0 | 19,0 |
| EER | W/W | 5,22 | 5,34 | 5,54 | 5,35 | 5,39 | 5,25 | 5,31 | 5,32 | 5,11 |
| Water flow rate source side | l/h | 1681 | 2039 | 2719 | 3547 | 4844 | 5557 | 7089 | 9679 | 11092 |
| Pressure drop source side | kPa | 20 | 21 | 30 | 31 | 40 | 45 | 42 | 62 | 73 |
| Water flow rate system side | l/h | 1428 | 1737 | 2330 | 3022 | 4136 | 4730 | 6040 | 8270 | 9438 |
| Pressure drop system side | kPa | 16 | 17 | 22 | 23 | 29 | 33 | 32 | 44 | 53 |
| Heating performance 30 °C/35 °C(2) | | | | | | | | | | |
| Heating capacity | kW | 8,1 | 10,1 | 13,0 | 17,0 | 22,6 | 25,8 | 34,1 | 45,0 | 50,8 |
| Input power | kW | 1,6 | 1,9 | 2,5 | 3,2 | 4,3 | 5,1 | 6,4 | 8,7 | 10,3 |
| Heating total input current | A | 3,7 | 3,7 | 5,2 | 6,4 | 8,4 | 9,7 | 12,0 | 16,0 | 19,0 |
| COP | W/W | 5,03 | 5,38 | 5,29 | 5,33 | 5,24 | 5,06 | 5,31 | 5,18 | 4,91 |
| Water flow rate source side | l/h | 1397 | 1751 | 2246 | 2934 | 3893 | 4456 | 5888 | 7770 | 8761 |
| Pressure drop source side | kPa | 21 | 20 | 30 | 30 | 37 | 43 | 38 | 50 | 58 |
| Water flow rate system side | l/h | 1901 | 2418 | 3098 | 4045 | 5363 | 6102 | 8125 | 10710 | 11951 |
| Pressure drop system side | kPa | 42 | 46 | 58 | 53 | 68 | 78 | 65 | 84 | 95 |

⁽¹⁾ Date 14511:2022; Water user side 23 °C / 18 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 30 °C / 35 °C; Water source side 10 °C / 5 °C

$WRL (H^{\circ}) - (230V \sim 50Hz)$

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---------------------------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|
| Power supply: M | | | | | | | | | | |
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 8,3 | 10,1 | 13,3 | - | - | - | - | - | - |
| Input power | kW | 1,6 | 2,0 | 2,5 | - | - | - | - | - | - |
| Cooling total input current | A | 8,1 | 11,0 | 14,0 | - | - | - | - | - | - |
| EER | W/W | 5,05 | 5,18 | 5,27 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1690 | 2070 | 2699 | - | - | - | - | - | - |
| Pressure drop source side | kPa | 22 | 24 | 29 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1428 | 1755 | 2295 | - | - | - | - | - | - |
| Pressure drop system side | kPa | 16 | 17 | 22 | - | - | - | - | - | - |
| Heating performance 30 °C/35 °C(2) | | | | | | | | | | |
| Heating capacity | kW | 8,2 | 10,2 | 13,1 | - | - | - | - | - | - |
| Input power | kW | 1,6 | 1,9 | 2,6 | - | - | - | - | - | - |
| Heating total input current | А | 8,1 | 9,7 | 13,0 | - | - | - | - | - | - |
| COP | W/W | 5,05 | 5,27 | 5,01 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1409 | 1767 | 2263 | - | - | - | - | - | - |
| Pressure drop source side | kPa | 21 | 23 | 31 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1919 | 2430 | 3082 | - | - | - | - | - | - |
| Pressure drop system side | kPa | 42 | 45 | 58 | - | - | - | - | - | - |

⁽¹⁾ Date 14511:2022; Water user side 23 °C / 18 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 30 °C / 35 °C; Water source side 10 °C / 5 °C

ENERGY INDICES (REG. 2016/2281 EU)

$WRL - (H^{\circ}) - (400V 3N \sim 50Hz)$

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|--|-------------------|-----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 3,64 | 3,39 | 4,31 | 4,53 | 4,20 | 4,13 | 4,81 | 4,49 | 4,36 |
| Seasonal efficiency | % | 142,7% | 132,4% | 169,4% | 178,1% | 165,1% | 162,3% | 189,4% | 176,5% | 171,4% |
| UE 811/2013 performance in average ambient conditi | ons (average) - 5 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 10 | 12 | 16 | 21 | 26 | 31 | 42 | 53 | 61 |
| ηsh | % | 141.0% | 145.0% | 151.0% | 152.0% | 151.0% | 150.0% | 175.0% | 173.0% | 167.0% |
| SCOP | W/W | 3,73 | 3,83 | 3,98 | 4,00 | 3,98 | 3,95 | 4,58 | 4,53 | 4,38 |
| Efficiency energy class | | A++ | A++ | A+++ |
| UE 811/2013 performance in average ambient conditi | ons (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (3) | | | | | | | |
| Pdesignh | kW | 11 | 14 | 17 | 23 | 30 | 35 | 45 | 60 | 68 |
| ηsh | % | 195.0% | 210.0% | 207.0% | 212.0% | 211.0% | 205.0% | 233.0% | 226.0% | 212.0% |
| SCOP | W/W | 5,08 | 5,45 | 5,38 | 5,50 | 5,48 | 5,33 | 6,03 | 5,85 | 5,50 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |

- (1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
 (2) Efficiencies for average temperature applications (55 °C)
 (3) Efficiencies for low temperature applications (35 °C)

WRL - (H°) - (230V ~ 50Hz)

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---|-------------------------|-----------------|-------------|--------|-----|-----|-----|-----|-----|-----|
| Power supply: M | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 3,48 | 3,80 | 4,15 | - | - | - | - | - | - |
| Seasonal efficiency | % | 136,2% | 148,8% | 163,1% | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient of | onditions (average) - 5 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 10 | 13 | 16 | - | - | - | - | - | - |
| ηsh | % | 142.0% | 145.0% | 142.0% | - | - | - | - | - | - |
| SCOP | W/W | 3,75 | 3,83 | 3,75 | - | - | - | - | - | - |
| Efficiency energy class | | A++ | A++ | A++ | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient of | onditions (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (3) | | | | | | | |
| Pdesignh | kW | 11 | 14 | 17 | - | - | - | - | - | - |
| ηsh | % | 198.0% | 212.0% | 199.0% | - | - | - | - | - | - |
| SCOP | W/W | 5,15 | 5,50 | 5,18 | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | A+++ | A+++ | - | - | - | - | - | - |

- (1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
 (2) Efficiencies for average temperature applications (55 °C)
 (3) Efficiencies for low temperature applications (35 °C)

$WRL - (H ABP) - (400V 3N \sim 50Hz)$

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|--|------------------|-----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 4,47 | 4,07 | 5,37 | 5,40 | 4,96 | 4,85 | 5,17 | 4,75 | 4,67 |
| Seasonal efficiency | % | 175,9% | 159,7% | 211,8% | 213,1% | 195,3% | 190,9% | 203,7% | 186,8% | 183,9% |
| UE 811/2013 performance in average ambient condition | ıs (average) - 5 | 5°C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 10 | 12 | 16 | 21 | 26 | 30 | 41 | 52 | 60 |
| ηsh | % | 151.0% | 155.0% | 161.0% | 161.0% | 157.0% | 155.0% | 173.0% | 170.0% | 166.0% |
| SCOP | W/W | 3,98 | 4,08 | 4,23 | 4,23 | 4,13 | 4,08 | 4,53 | 4,45 | 4,35 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| UE 811/2013 performance in average ambient condition | ıs (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (3) | | | | | | | |
| Pdesignh | kW | 10 | 13 | 17 | 22 | 30 | 34 | 44 | 59 | 66 |
| ηsh | % | 223.0% | 238.0% | 222.0% | 237.0% | 222.0% | 210.0% | 232.0% | 230.0% | 216.0% |
| SCOP | W/W | 5,78 | 6,15 | 5,75 | 6,13 | 5,75 | 5,45 | 6,00 | 5,95 | 5,60 |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |

- (1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
 (2) Efficiencies for average temperature applications (55 °C)
 (3) Efficiencies for low temperature applications (35 °C)

WRL - (H ABP) - (230V ~ 50Hz)

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|--|-------------------|-----------------|-------------|--------|-----|-----|-----|-----|-----|-----|
| Power supply: M | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 4,21 | 4,63 | 5,14 | - | - | - | - | - | - |
| Seasonal efficiency | % | 165,5% | 182,3% | 202,7% | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient conditi | ons (average) - 5 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 10 | 13 | 16 | - | - | - | - | - | - |
| ηsh | % | 152.0% | 156.0% | 152.0% | - | - | - | - | - | - |
| SCOP | W/W | 4,00 | 4,10 | 4,00 | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | A+++ | A+++ | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient conditi | ons (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (3) | | | | | | | |
| Pdesignh | kW | 11 | 13 | 17 | - | - | - | - | - | - |
| ηsh | % | 228.0% | 243.0% | 214.0% | - | - | - | - | - | - |
| SCOP | W/W | 5,90 | 6,28 | 5,55 | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | A+++ | A+++ | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)
(3) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

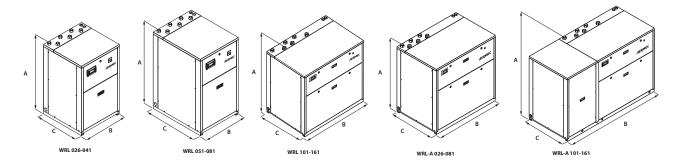
| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|-----------------------|---|------|------|------|------|------|------|------|------|------|
| Power supply: ° | ' | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | A | 8,5 | 9,0 | 11,0 | 13,0 | 20,0 | 23,0 | 23,0 | 37,0 | 43,0 |
| Peak current (LRA) | A | 34,0 | 37,0 | 50,0 | 66,0 | 75,0 | 75,0 | 88,0 | 91,0 | 94,0 |
| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
| Power supply: M | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | A | 19,0 | 22,0 | 26,0 | - | - | - | - | - | - |
| Peak current (LRA) | A | 63,0 | 84,0 | 99,0 | - | - | - | - | - | - |

GENERAL TECHNICAL DATA

| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---|-----|-------|------|------|------|------|--------------|------|------|------|------|
| Compressor | | | | | | | | | | | |
| Туре | °,A | type | | | | | Scroll | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,A | type | | | | | R410A | | | | |
| Source side heat exchanger | | | | | | | | | | | |
| Туре | °,A | type | | | | | Brazed plate | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side heat exchanger | | | | | | | | | | | |
| Туре | °,A | type | | | | | Brazed plate | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | °,A | Туре | | | | | Gas - F | | | | |
| Sizes (in/out) | °,A | Ø | | | | | 1"1/4 | | | | |
| System side hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | °,A | Туре | | | | | Gas - F | | | | |
| Sizes (in/out) | °,A | Ø | | | | | 1"1/4 | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | |
| Sound power level | °,A | dB(A) | 55,5 | 57,0 | 57,5 | 59,0 | 60,0 | 60,5 | 62,0 | 63,0 | 63,5 |
| Saund arrassura laural (10 ms) | 0 | dB(A) | 24,3 | 25,8 | 26,3 | 27,7 | 28,7 | 29,2 | 30,6 | 31,6 | 32,1 |
| Sound pressure level (10 m) | A | dB(A) | 24,1 | 25,6 | 26,1 | 27,6 | 28,6 | 29,1 | 30,5 | 31,5 | 32,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|------------------------|---|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | | | | | | |
| Λ. | 0 | mm | 976 | 976 | 976 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 |
| A | Α | mm | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 |
| D | 0 | mm | 605 | 605 | 605 | 605 | 605 | 605 | 1155 | 1155 | 1155 |
| В | A | mm | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1755 | 1755 | 1755 |
| (| • | mm | 603 | 603 | 603 | 773 | 773 | 773 | 773 | 773 | 773 |
| | Α | mm | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 |
| Empty weight | 0 | kg | 120 | 125 | 130 | 150 | 170 | 180 | 260 | 270 | 280 |
| Empty weight | A | kg | 190 (1) | 200 (1) | 210 (1) | 230 (1) | 250 (1) | 260 (1) | 340 (1) | 350 (1) | 360 (1) |

⁽¹⁾ Units with two heat exchangers and storage tank, without pumps

















WRL 026 -161

Water cooled heat pump reversible water side

Cooling capacity 6,6 ÷ 44,2 kW Heating capacity 7,5 ÷ 48,0 kW



- High efficiency
- Suitable for geothermal applications





DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications. Indoor units with hermetic scroll compressors and plate heat exchangers.

In the configuration with desuperheater, it is also possible to produce free-hot water.

The technological choices made, always oriented to the highest quality, ensure very easy installation.

In fact, the electrical and hydraulic connections are all located at the top of the unit making it easy to install and maintain, also reducing the technical areas and their placement in the smallest space possible.

VERSIONS

° Without storage tank **A** With storage tank

FEATURES

Operating field

Full-load operation with the production of chilled water 4-18°C, and the possibility to produce also negative temperature water down to -8°C for the evaporator and hot water for the condenser up to 55 °C. (for more information, refer to the technical documentation).

Plug and play

All the units are equipped with scroll compressors and plate heat exchangers; the base and panelling are made of steel treated with RAL 9003 polyester paints.

The electric and hydraulic connections are all located on the upper part of the unit facilitating installation and maintenance. This allows reduced plant room space and installation in the smallest space possible. The heat pump can be supplied with all the components required for its installation in new systems and to replace other heat generators. It can be combined with low temperature emission systems such as floor heating or fan coils, but also with conventional radiators.

Version with Integrated hydronic kit

The standard unit is supplied with a water filter, differential pressure switch and safety valve already installed on the service and source side (and also on the recovery side, if present).

To obtain a solution that offers economic savings and facilitates installation, these units can be configured with an integrated hydronic kit on both hydraulic sides (service and source).

Low-head and high-head pumps are available, along with a modulating 2-way valve that can only be applied on the source side to reduce consumption in applications with groundwater.

MODUCONTROL CONTROL

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

The regulation using an outside air temperature sensor (accessory) allows a dynamic control of the water temperature produced by increasing the energy efficiency of the system.

ACCESSORIES

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

KSAE: External air sensor.

 $\begin{tabular}{ll} \bf MODU-485BL: RS-485 & interface for supervision systems with MODBUS protocol. \end{tabular}$

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

VT: Antivibration supports

VPL: Pressure switch valve complete with connections, piloted directly in relation to condensation pressure; the valve modulates the volume

of water needed to cool the condenser, thereby maintaining the condensation temperature unchanged.

ACCESSORIES COMPATIBILITY

| Model | Ver | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AERBACP | °,A | • | • | • | • | • | • | • | • | • |
| AERSET | °,A | • | • | • | • | • | • | • | • | • |
| KSAE | °,A | | | | | | • | • | • | • |
| MODU-485BL | °,A | • | | | | | • | | • | • |
| PR3 | °,A | | | | | | | | • | • |

Antivibration

| Version | Integrated hydronic kit, source side | Integrated hydronic kit user side | 026 | 031 | 041 | 051 | 071 |
|---------|---|--------------------------------------|------|------|------|------|------|
| 0 | 0 | 0 | VT9 | VT9 | VT9 | VT9 | VT9 |
| ٥ | B,I,U,V | N,P | VT9 | VT9 | VT9 | VT9 | VT9 |
| A | °,B,I,U,V | °,N,P | VT15 | VT15 | VT15 | VT15 | VT15 |

| Version | Integrated hydronic kit, source side | Integrated hydronic kit user side | 081 | 101 | 141 | 161 |
|---------|---|--------------------------------------|------|-------|-------|-------|
| 0 | 0 | 0 | VT9 | VT15 | VT15 | VT15 |
| 0 | U | N,P | VT9 | VT15 | VT15 | VT15 |
| 0 | B,I,V | N,P | VT9 | VT15 | VT15 | - |
| A | °,B,I,U,V | °,N,P | VT15 | VT15A | VT15A | VT15A |

not available

Pressure switch valve

| Ver | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|-----|------|------|------|------|------|------|------|------|------|
| °,A | VPL1 | VPL1 | VPL2 | VPL2 | VPL3 | VPL3 | VPL4 | VPL4 | VPL4 |

CONFIGURATOR

| CONFIGUR | |
|----------------|---|
| Field | Description |
| 1,2,3 | WRL |
| 4,5,6 | Size |
| - | 026, 031, 041, 051, 071, 081, 101, 141, 161 |
| / 。 | Operating field |
| | Standard mechanic thermostatic valve (1) |
| <u>Y</u> | Low temperature mechanic thermostatic valve (2) |
| 8 | Model |
| | Heat pump reversible on the water side |
| E | Evaporating unit (3) |
| 9 | Version |
| 0 | Without storage tank |
| A | With storage tank |
| 10 | Heat recovery |
| | Without heat recovery |
| D | With desuperheater |
| 11 | Integrated hydronic kit, source side |
| 0 | Without hydronic kit |
| В | On-off pump (4) |
| 1 | Inverter pump (5) |
| U | Pump high head (6) |
| | Applications with bore hole water |
| V | 2-way modulating valve |
| 12 | Integrated hydronic kit user side |
| 0 | Without hydronic kit |
| N | Pump high head (6) |
| P | On-off pump (4) |
| 13 | Field for future development |
| 0 | Field not used |
| 14 | Soft-start |
| 0 | Without soft-start |
| S | With soft-start |
| 15 | Power supply |
| 0 | 400V~3N 50Hz |
| M | 230V~ 50Hz (7) |
| | |

⁽¹⁾ Water produced from 4 °C ÷ 18 °C
(2) Water produced from 4 °C ÷ 18 °C
(3) Shipped with holding charge only
(4) For size WRL 051 ÷ 081. The speed of the inverter pump must be set upon commissioning, according to the useful static pressure required; once it has been set, the pump will work at a constant flow rate.
(5) Only for WRL 026 ÷ 081
(6) Only for WRL 026 ÷ 081
(7) Only for WRL 026 ÷ 041

PERFORMANCE SPECIFICATIONS

WRL - °

| WAL - | | | *** | | | | | | | |
|---------------------------------------|------|------|------|------|------|------|------|------|------|-------|
| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
| Power supply: ° | | | | | | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 6,7 | 8,4 | 11,3 | 14,7 | 19,3 | 21,9 | 29,5 | 38,5 | 43,9 |
| Input power | kW | 1,5 | 1,8 | 2,6 | 3,1 | 4,0 | 4,7 | 6,2 | 8,1 | 9,5 |
| Cooling total input current | A | 3,1 | 2,6 | 4,9 | 6,4 | 7,4 | 9,1 | 13,0 | 15,0 | 18,0 |
| EER | W/W | 4,49 | 4,74 | 4,39 | 4,70 | 4,77 | 4,63 | 4,72 | 4,75 | 4,62 |
| Water flow rate source side | I/h | 1396 | 1735 | 2375 | 3054 | 3978 | 4538 | 6100 | 7947 | 9077 |
| Pressure drop source side | kPa | 28 | 30 | 35 | 32 | 40 | 46 | 42 | 57 | 66 |
| Water flow rate system side | l/h | 1154 | 1447 | 1955 | 2541 | 3320 | 3770 | 5078 | 6638 | 7555 |
| Pressure drop system side | kPa | 15 | 17 | 23 | 21 | 26 | 30 | 25 | 34 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,7 | 9,3 | 12,6 | 16,3 | 21,0 | 24,0 | 32,5 | 42,1 | 48,0 |
| Input power | kW | 1,9 | 2,3 | 3,2 | 4,0 | 5,1 | 5,9 | 8,0 | 10,2 | 12,0 |
| Heating total input current | A | 4,1 | 3,4 | 6,1 | 8,2 | 9,2 | 11,0 | 16,0 | 18,0 | 23,0 |
| COP | W/W | 3,93 | 4,04 | 3,94 | 4,05 | 4,17 | 4,04 | 4,06 | 4,14 | 4,02 |
| Water flow rate source side | l/h | 1680 | 2053 | 2767 | 3602 | 4708 | 5325 | 7200 | 9414 | 10671 |
| Pressure drop source side | kPa | 32 | 34 | 46 | 42 | 52 | 60 | 50 | 68 | 76 |
| Water flow rate system side | l/h | 1326 | 1607 | 2181 | 2819 | 3647 | 4159 | 5629 | 7284 | 8315 |
| Pressure drop system side | kPa | 25 | 26 | 30 | 27 | 34 | 39 | 36 | 48 | 55 |
| Power supply: M | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | kW | 6,6 | 8,3 | 11,3 | - | - | - | - | - | - |
| Input power | kW | 1,5 | 1,8 | 2,5 | - | - | - | - | - | - |
| Cooling total input current | A | 7,2 | 9,2 | 12,0 | - | - | - | - | - | - |
| EER | W/W | 4,30 | 4,50 | 4,56 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1386 | 1731 | 2359 | - | - | - | - | - | - |
| Pressure drop source side | kPa | 28 | 29 | 36 | - | - | - | - | - | - |
| Water flow rate system side | I/h | 1137 | 1430 | 1955 | - | - | - | - | - | - |
| Pressure drop system side | kPa | 15 | 17 | 23 | - | - | - | - | - | - |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,6 | 9,4 | 12,5 | - | - | - | - | - | - |
| Input power | kW | 2,0 | 2,4 | 3,1 | - | - | - | - | - | - |
| Heating total input current | A | 9,3 | 12,0 | 15,0 | - | - | - | - | - | - |
| COP | W/W | 3,86 | 3,89 | 4,05 | - | - | - | - | - | - |
| Water flow rate source side | I/h | 1662 | 2053 | 2778 | - | - | - | | - | |
| Pressure drop source side | kPa | 32 | 35 | 46 | - | - | - | - | - | - |
| Water flow rate system side | I/h | 1319 | 1626 | 2171 | - | _ | - | | _ | _ |
| Pressure drop system side | kPa | 25 | 26 | 30 | _ | _ | _ | _ | | _ |
| . restare drop system side | KI U | | 20 | 30 | | | | | | |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

WRL - °

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---|--------------------------|-----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 3,93 | 4,29 | 4,13 | 4,51 | 4,66 | 4,52 | 4,93 | 4,93 | 4,75 |
| Seasonal efficiency | % | 154,0% | 168,5% | 162,1% | 177,3% | 183,3% | 177,8% | 194,1% | 194,0% | 187,1% |
| UE 811/2013 performance in average ambient of | onditions (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 11 | 14 | 17 | 23 | 30 | 35 | 45 | 60 | 68 |
| SCOP | W/W | 5,08 | 5,45 | 5,38 | 5,50 | 5,48 | 5,33 | 6,03 | 5,85 | 5,50 |
| ηsh | % | 195.0% | 210.0% | 207.0% | 212.0% | 211.0% | 205.0% | 233.0% | 226.0% | 212.0% |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Power supply: M | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 3,77 | 4,13 | 4,27 | - | - | - | - | - | - |
| Seasonal efficiency | % | 147,9% | 162,0% | 167,6% | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient of | conditions (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 11 | 14 | 17 | - | - | - | - | - | - |
| SCOP | W/W | 5,15 | 5,50 | 5,18 | - | - | - | - | - | - |
| ηsh | % | 198.0% | 212.0% | 199.0% | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | A+++ | A+++ | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)

PERFORMANCE SPECIFICATIONS

WRL ABP

| Size | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---------------------------------------|-----|------|------|------|------|------|------|-------|-------|-------|
| Power supply: ° | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | kW | 6,8 | 8,5 | 11,4 | 14,9 | 19,4 | 22,0 | 29,8 | 38,9 | 44,2 |
| Input power | kW | 1,4 | 1,7 | 2,5 | 3,1 | 3,9 | 4,6 | 6,3 | 8,1 | 9,4 |
| Cooling total input current | A | 3,7 | 3,3 | 5,6 | 7,5 | 8,6 | 10,0 | 14,0 | 17,0 | 20,0 |
| EER | W/W | 4,75 | 5,02 | 4,62 | 4,84 | 4,93 | 4,78 | 4,75 | 4,79 | 4,69 |
| Water flow rate source side | l/h | 1396 | 1735 | 2375 | 3054 | 3978 | 4538 | 6100 | 7947 | 9077 |
| Useful head source side | kPa | 59 | 53 | 36 | 63 | 43 | 28 | 116 | 137 | 125 |
| Water flow rate system side | l/h | 1154 | 1447 | 1955 | 2541 | 3320 | 3770 | 5078 | 6638 | 7555 |
| Useful head system side | kPa | 74,0 | 70,0 | 56,0 | 79,0 | 66,0 | 56,0 | 148,0 | 164,0 | 157,0 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,6 | 9,2 | 12,5 | 16,1 | 20,9 | 23,8 | 32,2 | 41,6 | 47,6 |
| Input power | kW | 1,9 | 2,2 | 3,1 | 3,9 | 4,9 | 5,8 | 8,0 | 10,1 | 11,8 |
| Heating total input current | A | 4,7 | 4,0 | 6,7 | 9,3 | 10,0 | 13,0 | 18,0 | 20,0 | 25,0 |
| COP | W/W | 4,05 | 4,17 | 4,05 | 4,11 | 4,24 | 4,09 | 4,01 | 4,13 | 4,04 |
| Water flow rate source side | l/h | 1680 | 2053 | 2767 | 3602 | 4708 | 5325 | 7200 | 9414 | 10671 |
| Useful head source side | kPa | 52 | 43 | 16 | 46 | 20 | 4 | 90 | 121 | 109 |
| Water flow rate system side | l/h | 1326 | 1607 | 2181 | 2819 | 3647 | 4159 | 5629 | 7284 | 8315 |
| Useful head system side | kPa | 63,0 | 59,0 | 46,0 | 70,0 | 54,0 | 41,0 | 130,0 | 148,0 | 138,0 |
| Power supply: M | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 6,7 | 8,4 | 11,4 | - | - | - | - | - | - |
| Input power | kW | 1,5 | 1,8 | 2,4 | - | - | - | - | - | - |
| Cooling total input current | A | 7,8 | 9,9 | 12,0 | - | - | - | - | - | - |
| EER | W/W | 4,54 | 4,75 | 4,80 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1386 | 1731 | 2359 | - | - | - | - | - | - |
| Useful head source side | kPa | 59 | 54 | 36 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1137 | 1430 | 1955 | - | - | - | - | - | - |
| Useful head system side | kPa | 74,0 | 70,0 | 56,0 | - | - | - | - | - | - |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 7,5 | 9,3 | 12,4 | - | - | - | - | - | - |
| Input power | kW | 1,9 | 2,3 | 3,0 | - | - | - | - | - | - |
| Heating total input current | A | 9,9 | 13,0 | 15,0 | - | - | - | - | - | - |
| COP | W/W | 3,97 | 4,01 | 4,17 | - | - | - | - | - | - |
| Water flow rate source side | l/h | 1662 | 2053 | 2778 | - | - | - | - | - | - |
| Useful head source side | kPa | 52 | 43 | 16 | - | - | - | - | - | - |
| Water flow rate system side | l/h | 1319 | 1626 | 2171 | - | - | - | - | - | - |
| Useful head system side | kPa | 63,0 | 59,0 | 45,0 | - | - | - | - | - | - |

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|---|-----|-----|------|------|------|------|------|------|------|------|------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | E | kW | 6,3 | 7,8 | 10,4 | 13,4 | 17,4 | 19,7 | 26,8 | 34,7 | 39,4 |
| Input power | E | kW | 1,7 | 2,0 | 2,8 | 3,6 | 4,5 | 5,3 | 7,2 | 9,1 | 10,6 |
| Cooling total input current | E | A | 3,0 | 3,0 | 5,0 | 7,0 | 8,0 | 10,0 | 14,0 | 17,0 | 21,0 |
| EER | E | W/W | 3,71 | 3,90 | 3,71 | 3,72 | 3,87 | 3,72 | 3,72 | 3,81 | 3,72 |
| Water flow rate system side | E | l/h | 1082 | 1340 | 1787 | 2302 | 2990 | 3385 | 4605 | 5962 | 6769 |
| Pressure drop system side | E | kPa | 13 | 15 | 20 | 17 | 21 | 25 | 21 | 28 | 31 |
| Length of refrigerant lines from/to 0 - 1 | 0 m | | | | | | | | | | |
| Gas line (C1) | E | Ø | 9,5 | 9,5 | 9,5 | 12,7 | 12,7 | 15,9 | 15,9 | 18,0 | 18,0 |
| Liquid line (C1) | E | Ø | 9,5 | 9,5 | 9,5 | 12,7 | 12,7 | 12,7 | 15,9 | 18,0 | 18,0 |
| Topping up the refrigerant gas (C1) | E | g/m | 54 | 54 | 54 | 103 | 103 | 108 | 161 | 214 | 214 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

WRL ABP

| Size | • | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|--|--------------------------|-----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| Power supply: ° | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 5,00 | 5,37 | 5,22 | 5,38 | 5,62 | 5,30 | 5,31 | 5,27 | 5,21 |
| Seasonal efficiency | % | 196,9% | 211,7% | 205,8% | 212,0% | 221,7% | 208,8% | 209,2% | 207,7% | 205,5% |
| UE 811/2013 performance in average ambient | conditions (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 10 | 13 | 17 | 22 | 30 | 34 | 44 | 59 | 66 |
| SCOP | W/W | 5,78 | 6,15 | 5,75 | 6,13 | 5,75 | 5,45 | 6,00 | 5,95 | 5,60 |
| ηsh | % | 223.0% | 238.0% | 222.0% | 237.0% | 222.0% | 210.0% | 232.0% | 230.0% | 216.0% |
| Efficiency energy class | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Power supply: M | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | W/W | 4,73 | 5,20 | 5,22 | - | - | - | - | - | - |
| Seasonal efficiency | % | 186,3% | 205,1% | 205,6% | - | - | - | - | - | - |
| UE 811/2013 performance in average ambient | conditions (average) - 3 | 5 °C - Pdesignh | ≤ 70 kW (2) | | | | | | | |
| Pdesignh | kW | 11 | 13 | 17 | - | - | - | - | - | - |
| SCOP | W/W | 5,90 | 6,28 | 5,55 | - | - | - | - | - | - |
| ηsh | % | 228.0% | 243.0% | 214.0% | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | A+++ | A+++ | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|-----------------------|---|---|------|------|-------|------|------|------|------|------|------|
| Electric data | | | | | | | | | | | |
| Maximum aument (FLA) | 0 | Α | 8,0 | 8,0 | 15,0 | 17,0 | 21,0 | 22,0 | 32,0 | 40,0 | 41,0 |
| Maximum current (FLA) | M | A | 18,0 | 21,0 | 34,0 | - | - | - | - | - | - |
| Deal: surrent (LDA) | 0 | А | 34,0 | 37,0 | 65,0 | 75,0 | 75,0 | 75,0 | 90,0 | 94,0 | 95,0 |
| Peak current (LRA) | M | Δ | 63.0 | 84.0 | 110 በ | _ | _ | _ | _ | _ | _ |

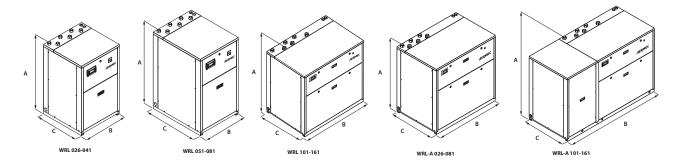
GENERAL TECHNICAL DATA

| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|--------------------------------------|--------|-------|------|------|------|------|--------------|------|------|------|------|
| Compressor | | | | | | | | | | | |
| Туре | °,A | type | | | | | Scroll | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Circuits | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,A | type | | | | | R410A | | | | |
| Refrigerant charge (1) | °,A | kg | 0,8 | 0,9 | 1,2 | 1,6 | 1,9 | 2,0 | 3,6 | 4,4 | 4,7 |
| Source side heat exchanger | | | | | | | | | | | |
| Туре | °,A | type | | | | | Brazed plate | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side heat exchanger | | | | | | | | | | | |
| Туре | °,A | type | | | | | Brazed plate | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | °,A | Туре | | | | | Gas-F | | | | |
| Sizes (in/out) | °,A | Ø | | | | | 1"1/4 | | | | |
| System side hydraulic connections | | | | | | | | | | | - |
| Connections (in/out) | °,A | Туре | | | | | Gas-F | | | | |
| Sizes (in/out) | °,A | Ø | | | | | 1"1/4 | | | | |
| Sound data calculated in cooling mod | le (2) | | | | | | | | | | |
| Sound power level | °,A | dB(A) | 55,5 | 57,0 | 57,5 | 59,0 | 60,0 | 60,5 | 62,0 | 63,0 | 63,5 |
| Cound avecause laurel (10 mg) | 0 | dB(A) | 24,3 | 25,8 | 26,3 | 27,7 | 28,7 | 29,2 | 30,6 | 31,6 | 32,1 |
| Sound pressure level (10 m) | A | dB(A) | 24,1 | 25,6 | 26,1 | 27,6 | 28,6 | 29,1 | 30,5 | 31,5 | 32,0 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 026 | 031 | 041 | 051 | 071 | 081 | 101 | 141 | 161 |
|------------------------|---|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | | | | | | |
| Λ. | 0 | mm | 976 | 976 | 976 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 |
| A | Α | mm | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 | 1126 |
| D | 0 | mm | 605 | 605 | 605 | 605 | 605 | 605 | 1155 | 1155 | 1155 |
| В | A | mm | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1755 | 1755 | 1755 |
| (| • | mm | 603 | 603 | 603 | 773 | 773 | 773 | 773 | 773 | 773 |
| | Α | mm | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 |
| Empty weight | 0 | kg | 120 | 125 | 130 | 150 | 170 | 180 | 260 | 270 | 280 |
| Empty weight | A | kg | 190 (1) | 200 (1) | 210 (1) | 230 (1) | 250 (1) | 260 (1) | 340 (1) | 350 (1) | 360 (1) |

⁽¹⁾ Units with two heat exchangers and storage tank, without pumps

















WRL 180H - 650H

Reversible water-cooled heat pump, gas side

Cooling capacity 44,9 ÷ 157,4 kW Heating capacity 53,0 ÷ 183,3 kW



- High efficiency
- Suitable for geothermal applications
- Production of hot water up to 55 °C







DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications. Indoor units with hermetic scroll compressors and plate heat exchangers.

In the configuration with desuperheater, it is also possible to produce free-hot water.

The technological choices made, always oriented to the highest quality, ensure very easy installation. In fact the electrical and hydraulic connections are all located in the upper part of the unit, facilitating the installation and maintenance operations and also reducing the technical gaps and their position in as little space as possible.

FEATURES

Operating field

Full-load operation with the production of chilled water 4-18°C, and the possibility to produce also negative temperature water down to -8°C for the evaporator and hot water for the condenser up to 55 °C. (for more information, refer to the technical documentation).

Plug and play

All the units are equipped with scroll compressors and plate heat exchangers; the base and panelling are made of steel treated with RAL 9003 polyester paints.

The electric and hydraulic connections are all located on the upper part of the unit facilitating installation and maintenance. This allows reduced plant room space and installation in the smallest space possible. The heat pump can be supplied with all the components required for its installation in new systems and to replace other heat generators. It can be combined with low temperature emission systems such as floor heating or fan coils, but also with conventional radiators.

Version with Integrated hydronic kit

The standard unit is supplied with a water filter, differential pressure switch and safety valve already installed on the service and source side (and also on the recovery side, if present).

To obtain a solution that offers economic savings and facilitates installation, these units can be configured with an integrated hydronic kit on both hydraulic sides (service and source).

Low-head and high-head pumps are available, along with a modulating 2-way valve that can only be applied on the source side to reduce consumption in applications with groundwater.

CONTROL MPC

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

KSAE: External air sensor.

PGD1: Allows you to control the unit at a distance.

SSM: Probe to be used with the mixer valve in applications with radiant panels. The probe requires the VMF-CRP area accessory as well.

TAH: Ambient terminal with temperature and humidity probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump and dehumidifier consent.

TAT: Ambient terminal with temperature probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump.

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with

the VMF-E6 panel, the VMF-CRP modules will be able to manage heat $\,$ recovery units, RAS, boiler, sanitary management, I/O control, pumps.

VT: Antivibration supports

ACCESSORIES COMPATIBILITY

| Model | Ver | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AER485P1 | 0 | • | • | • | • | • | • | • | • |
| AERNET | 0 | • | • | • | • | • | • | • | • |
| KSAE | 0 | • | • | • | • | • | • | • | • |
| PGD1 | 0 | • | • | • | • | • | • | • | • |
| SSM | 0 | • | • | • | • | • | • | • | • |
| TAH | 0 | • | • | • | • | • | • | | |
| TAT | 0 | • | • | • | • | • | • | • | • |
| VMF-CRP | 0 | • | | | • | • | • | | • |

Antivibration

| Version | Integrated hydronic kit user side | Integrated hydronic kit, source side | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---------|---|--|-----|-----|-----|-----|------|------|------|------|
| 0 | °.N.P | °.B.F.I.U.V | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 | VT15 |

CONFIGURATOR

| CU | INF | IGUNATUR |
|------|-----|---|
| Fiel | d | Description |
| 1,2, | ,3 | WRL |
| 4,5, | ,6 | Size 180, 200, 300, 400, 500, 550, 600, 650 |
| 7 | | Operating field |
| | 0 | Standard mechanic thermostatic valve (1) |
| | Χ | Electronic thermostatic expansion valve |
| | Υ | Low temperature mechanic thermostatic valve (2) |
| 8 | | Model |
| | Н | Reversible heat pump, gas side |
| 9 | | Version |
| | 0 | Standard |
| 10 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater |
| 11 | | Integrated hydronic kit, source side |
| | 0 | Without hydronic kit |
| | В | On-off pump |
| | | |

| Fiel | d | Description |
|------|---|-----------------------------------|
| | F | Single low-head inverter pump |
| | 1 | High-head inverter pump |
| | U | Pump high head |
| | | Applications with bore hole water |
| | ٧ | 2-way modulating valve |
| 12 | | Integrated hydronic kit user side |
| | 0 | Without hydronic kit |
| | N | Pump high head |
| | Р | Pump low head |
| 13 | | Field for future development |
| | 0 | Field for future development |
| 14 | | Soft-start |
| | 0 | Without soft-start |
| | S | With soft-start |
| 15 | | Power supply |
| | 0 | 400V ~ 3N 50Hz |

⁽¹⁾ Water produced from 4 °C \div 18 °C (2) Water produced from 4 °C \div - 8 °C

PERFORMANCE SPECIFICATIONS

WRL - °

| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---------------------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | ٥ | kW | 44,9 | 59,6 | 64,8 | 79,5 | 93,0 | 120,1 | 140,1 | 157,4 |
| Input power | 0 | kW | 10,8 | 14,7 | 16,3 | 18,6 | 20,1 | 27,6 | 31,4 | 35,8 |
| Cooling total input current | ٥ | A | 20,0 | 25,0 | 28,0 | 32,0 | 36,0 | 52,0 | 60,0 | 69,0 |
| EER | ٥ | W/W | 4,15 | 4,06 | 3,97 | 4,27 | 4,63 | 4,34 | 4,46 | 4,39 |
| Water flow rate source side | 0 | I/h | 9520 | 12659 | 13823 | 16682 | 19331 | 25177 | 29250 | 32920 |
| Pressure drop source side | ٥ | kPa | 31 | 52 | 51 | 74 | 34 | 56 | 57 | 71 |
| Water flow rate system side | ٥ | l/h | 7732 | 10274 | 11168 | 13711 | 16013 | 20686 | 24139 | 27112 |
| Pressure drop system side | ٥ | kPa | 22 | 37 | 36 | 52 | 25 | 40 | 40 | 38 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | 0 | kW | 53,0 | 70,9 | 76,6 | 92,6 | 106,4 | 143,7 | 164,2 | 183,3 |
| Input power | ٥ | kW | 12,9 | 17,7 | 19,1 | 22,6 | 24,0 | 33,1 | 37,2 | 42,7 |
| Heating total input current | ٥ | A | 23,0 | 29,0 | 31,0 | 37,0 | 41,0 | 56,0 | 64,0 | 74,0 |
| COP | ٥ | W/W | 4,10 | 4,00 | 4,01 | 4,10 | 4,44 | 4,34 | 4,41 | 4,30 |
| Water flow rate source side | ٥ | l/h | 11777 | 15734 | 17011 | 20840 | 24211 | 32704 | 37512 | 41689 |
| Pressure drop source side | 0 | kPa | 49 | 89 | 92 | 132 | 61 | 107 | 101 | 126 |
| Water flow rate system side | 0 | I/h | 9190 | 12277 | 13264 | 16046 | 18452 | 24913 | 28485 | 31788 |
| Pressure drop system side | ٥ | kPa | 30 | 52 | 49 | 72 | 32 | 58 | 56 | 70 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ELECTRIC DATA

| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | 0 | Α | 32,6 | 41,8 | 45,2 | 52,1 | 59,0 | 99,0 | 112,0 | 125,0 |
| Peak current (LRA) | 0 | A | 119,0 | 123,0 | 125,0 | 167,0 | 174,0 | 265,0 | 310,0 | 323,0 |

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|--------------------------------------|-----------------|-------------------|-------------------|-----------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| SEER | 0 | W/W | 4,25 | 4,04 | 4,15 | 4,38 | 5,04 | 4,62 | 4,80 | 4,69 |
| Seasonal efficiency | 0 | % | 166,9% | 158,5% | 162,8% | 172,3% | 198,4% | 181,7% | 188,9% | 184,5% |
| UE 813/2013 performance in average a | mbient conditio | ns (average) - 55 | °C - Pdesignh ≤ 4 | 00 kW (2) | | | | | | |
| Pdesignh | 0 | kW | 68 | 91 | 98 | 119 | 137 | 185 | 212 | 236 |
| ηsh | 0 | % | 173.0% | 170.0% | 170.0% | 175.0% | 189.0% | 186.0% | 189.0% | 184.0% |
| SCOP | 0 | W/W | 4,53 | 4,45 | 4,45 | 4,58 | 4,93 | 4,85 | 4,93 | 4,80 |
| Efficiency energy class | 0 | | A+++ | - | - | - | - | - | - | - |
| UE 813/2013 performance in average a | mbient conditio | ns (average) - 35 | °C - Pdesignh ≤ 4 | 00 kW (3) | | | | | | |
| Pdesignh | 0 | kW | 79 | - | - | - | - | - | - | - |
| ηsh | 0 | % | 222.0% | - | - | - | - | - | - | - |
| SCOP | 0 | W/W | 5,75 | - | - | - | - | - | - | - |
| Efficiency energy class | 0 | | A+++ | - | - | - | - | - | - | - |

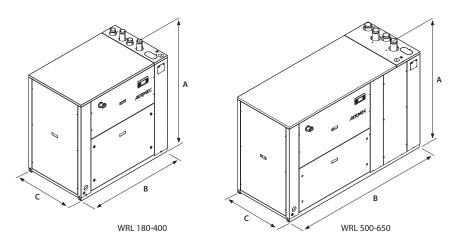
⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)
(3) Efficiencies for low temperature applications (35 °C)

GENERAL TECHNICAL DATA

| Size | | · | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---|---|-------|------|------|------|-------|-----------|-------|-------|-------|
| Compressor | | | | | | | ' | | | |
| Туре | 0 | type | | | | Sc | roll | | | |
| Compressor regulation | 0 | Туре | | | | 0r | -Off | | | |
| Number | 0 | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | 0 | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | 0 | type | | | | R4 | 10A | | | |
| Source side heat exchanger | | | | | | | | | | |
| Туре | 0 | type | | | | Braze | d plate | | | |
| Number | 0 | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side heat exchanger | | | | | | | | | | |
| Туре | 0 | type | | | | Braze | d plate | | | |
| Number | 0 | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side hydraulic connections | | | | | | | | | | |
| Connections (in/out) | 0 | Туре | | | | Groov | ed joints | | | |
| Sizes (in/out) | 0 | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 |
| System side hydraulic connections | | | | | | | | | | |
| Connections (in/out) | 0 | Туре | | | | Groov | ed joints | | | |
| Sizes (in/out) | 0 | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 |
| Sound data calculated in cooling mode (1) | | | | | | | | | | |
| Sound power level | 0 | dB(A) | 61,1 | 61,8 | 62,9 | 71,1 | 67,6 | 79,1 | 79,1 | 79,1 |
| Sound pressure level (10 m) | 0 | dB(A) | 29,6 | 30,3 | 31,4 | 39,6 | 36,0 | 47,5 | 47,5 | 47,5 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|------------------------|---|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | 0 | mm | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 |
| В | 0 | mm | 1320 | 1320 | 1320 | 1320 | 2060 | 2060 | 2060 | 2060 |
| (| 0 | mm | 845 | 845 | 845 | 845 | 845 | 845 | 845 | 845 |
| Empty weight | 0 | kg | 370 | 370 | 381 | 388 | 522 | 598 | 708 | 753 |



















WRL 180 - 650

Water cooled heat pump reversible water side

Cooling capacity 49 ÷ 174 kW Heating capacity 55 ÷ 192 kW



- High efficiency
- Suitable for geothermal applications
- Production of hot water up to 55 °C







DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications. Indoor units with hermetic scroll compressors and plate heat exchangers.

In the configuration with desuperheater, it is also possible to produce free-hot water.

The technological choices made, always oriented to the highest quality, ensure very easy installation. In fact the electrical and hydraulic connections are all located in the upper part of the unit, facilitating the installation and maintenance operations and also reducing the technical gaps and their position in as little space as possible.

FEATURES

Operating field

Full-load operation with the production of chilled water 4-18°C, and the possibility to produce also negative temperature water down to -8°C for the evaporator and hot water for the condenser up to 55 °C. (for more information, refer to the technical documentation).

Plug and play

All the units are equipped with scroll compressors and plate heat exchangers; the base and panelling are made of steel treated with RAL 9003 polyester paints.

The electric and hydraulic connections are all located on the upper part of the unit facilitating installation and maintenance. This allows reduced plant room space and installation in the smallest space possible. The heat pump can be supplied with all the components required for its installation in new systems and to replace other heat generators. It can be combined with low temperature emission systems such as floor heating or fan coils, but also with conventional radiators.

Version with Integrated hydronic kit

The standard unit is supplied with a water filter, differential pressure switch and safety valve already installed on the service and source side (and also on the recovery side, if present).

To obtain a solution that offers economic savings and facilitates installation, these units can be configured with an integrated hydronic kit on both hydraulic sides (service and source).

Low-head and high-head pumps are available, along with a modulating 2-way valve that can only be applied on the source side to reduce consumption in applications with groundwater.

CONTROL MPC

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

KSAE: External air sensor.

PGD1: Allows you to control the unit at a distance.

SSM: Probe to be used with the mixer valve in applications with radiant panels. The probe requires the VMF-CRP area accessory as well.

TAH: Ambient terminal with temperature and humidity probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump and dehumidifier consent.

TAT: Ambient terminal with temperature probe - 230V AC flush-mounting model that can command an On-Off valve or a zone pump.

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with

the VMF-E6 panel, the VMF-CRP modules will be able to manage heat $\,$ recovery units, RAS, boiler, sanitary management, I/O control, pumps.

VT: Antivibration supports

ACCESSORIES COMPATIBILITY

| Ver | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Model: °, E, K | | | | | | | | |
| | AER485P1, AERNET, |
| 0 | KSAE, PGD1, SSM, |
| | TAH, TAT, VMF-CRP |

Antivibration

| Version | Integrated hydronic kit, source side | Integrated hydronic kit user side | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---------|--|---|-----|-----|-----|-----|------|------|------|------|
| 0 | °.B.F.I.U.V | °.N.P | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 | VT15 |

CONFIGURATOR

| Field | Description |
|-------|--|
| 1,2,3 | WRL |
| 4,5,6 | Size 180, 200, 300, 400, 500, 550, 600, 650 |
| 7 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Х | Electronic thermostatic expansion valve |
| Υ | Low temperature mechanic thermostatic valve (2) |
| 8 | Model |
| 0 | Heat pump reversible on the water side |
| E | Evaporating unit (3) |
| K | Heat pump reversible on the water side with low pressure drops |
| 9 | Version |
| 0 | Standard |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater |
| 11 | Integrated hydronic kit, source side |
| 0 | Without hydronic kit |
| В | On-off pump |

| Field | Description |
|-------|-----------------------------------|
| F | Single low-head inverter pump |
| T | High-head inverter pump |
| U | Pump high head |
| | Applications with bore hole water |
| ٧ | 2-way modulating valve |
| 12 | Integrated hydronic kit user side |
| 0 | Without hydronic kit |
| N | Pump high head |
| Р | Pump low head |
| 13 | Field for future development |
| 0 | Field for future development |
| 14 | Soft-start |
| 0 | Without soft-start |
| S | With soft-start |
| 15 | Power supply |
| 0 | 400V~3N 50Hz |

- (1) Water produced from 4 °C \div 18 °C (2) Water produced from 4 °C \div 8 °C (3) Shipped with holding charge only

PERFORMANCE SPECIFICATIONS

WRL - E

| Size | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|-----------------------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | |
| Cooling capacity | kW | 46,0 | 60,1 | 69,6 | 80,1 | 90,6 | 121,3 | 140,2 | 158,7 |
| Input power | kW | 12,4 | 16,0 | 18,5 | 19,8 | 23,1 | 29,6 | 34,1 | 38,5 |
| Cooling total input current | A | 23,0 | 29,0 | 32,0 | 36,0 | 42,0 | 56,0 | 65,0 | 74,0 |
| EER | W/W | 3,71 | 3,76 | 3,76 | 4,05 | 3,92 | 4,10 | 4,11 | 4,12 |
| Water flow rate system side | l/h | 7903 | 10326 | 11958 | 13762 | 15566 | 20841 | 24088 | 27266 |
| Pressure drop system side | kPa | 23 | 39 | 39 | 56 | 25 | 42 | 47 | 57 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WRL - °

| Size | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 49,7 | 64,3 | 74,4 | 85,9 | 99,8 | 129,5 | 150,1 | 169,0 |
| Input power | kW | 10,8 | 14,4 | 16,8 | 18,3 | 20,4 | 27,0 | 31,0 | 35,7 |
| Cooling total input current | A | 20,0 | 25,0 | 29,0 | 62,0 | 36,0 | 51,0 | 59,0 | 68,0 |
| EER | W/W | 4,59 | 4,47 | 4,42 | 4,69 | 4,90 | 4,80 | 4,84 | 4,73 |
| Water flow rate source side | l/h | 10336 | 13418 | 15531 | 17725 | 20550 | 26664 | 30860 | 34836 |
| Pressure drop source side | kPa | 27 | 46 | 62 | 81 | 32 | 52 | 57 | 72 |
| Water flow rate system side | l/h | 8549 | 11082 | 12824 | 14822 | 17186 | 22296 | 25844 | 29025 |
| Pressure drop system side | kPa | 27 | 43 | 46 | 60 | 30 | 49 | 53 | 67 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 55,8 | 72,6 | 84,1 | 95,6 | 110,7 | 143,6 | 166,1 | 187,7 |
| Input power | kW | 13,2 | 17,6 | 20,5 | 22,4 | 24,8 | 32,9 | 37,9 | 43,9 |
| Heating total input current | A | 24,0 | 30,0 | 34,0 | 38,0 | 44,0 | 61,0 | 71,0 | 82,0 |
| COP | W/W | 4,24 | 4,13 | 4,10 | 4,27 | 4,46 | 4,36 | 4,38 | 4,27 |
| Water flow rate source side | l/h | 12542 | 16257 | 18813 | 21745 | 25213 | 32709 | 37914 | 42683 |
| Pressure drop source side | kPa | 58 | 93 | 99 | 129 | 65 | 105 | 114 | 144 |
| Water flow rate system side | l/h | 9685 | 12580 | 14561 | 16557 | 19196 | 24909 | 28816 | 32553 |
| Pressure drop system side | kPa | 24 | 40 | 55 | 71 | 28 | 45 | 50 | 63 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WRL - K

| WAL-V | | | | | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | kW | 49,7 | 66,3 | 76,7 | 88,6 | 99,8 | 133,5 | 154,6 | 174,1 |
| Input power | kW | 10,8 | 14,4 | 16,9 | 18,3 | 20,4 | 26,7 | 30,8 | 35,6 |
| Cooling total input current | А | 20,0 | 25,0 | 29,0 | 32,0 | 36,0 | 51,0 | 59,0 | 68,0 |
| EER | W/W | 4,59 | 4,61 | 4,55 | 4,85 | 4,50 | 5,00 | 5,02 | 4,90 |
| Water flow rate source side | l/h | 10336 | 13753 | 15919 | 18173 | 20550 | 27338 | 31642 | 35716 |
| Pressure drop source side | kPa | 27 | 48 | 65 | 85 | 32 | 55 | 60 | 76 |
| Water flow rate system side | l/h | 8549 | 11414 | 13209 | 15267 | 17186 | 22965 | 26619 | 29967 |
| Pressure drop system side | kPa | 27 | 34 | 42 | 48 | 30 | 24 | 33 | 41 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | kW | 55,8 | 74,3 | 86,1 | 97,9 | 110,7 | 147,1 | 170,1 | 192,1 |
| Input power | kW | 13,2 | 17,5 | 20,5 | 22,2 | 24,8 | 32,3 | 37,3 | 43,1 |
| Heating total input current | A | 24,0 | 30,0 | 34,0 | 38,0 | 44,0 | 61,0 | 71,0 | 82,0 |
| COP | W/W | 4,24 | 4,24 | 4,20 | 4,40 | 4,46 | 4,56 | 4,56 | 4,46 |
| Water flow rate source side | l/h | 12542 | 16745 | 19337 | 22397 | 25213 | 33690 | 39052 | 43963 |
| Pressure drop source side | kPa | 58 | 73 | 90 | 103 | 65 | 52 | 71 | 88 |
| Water flow rate system side | l/h | 9685 | 12876 | 14904 | 16953 | 19196 | 25504 | 29507 | 33331 |
| Pressure drop system side | kPa | 24 | 42 | 57 | 74 | 28 | 48 | 52 | 66 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

WRL°

| Size | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---|-----------------------------|-------------------|----------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | |
| SEER | W/W | 4,65 | 4,55 | 4,54 | 4,74 | 5,31 | 5,04 | 5,12 | 4,97 |
| Seasonal efficiency | % | 182,8% | 178,9% | 178,5% | 186,4% | 209,3% | 198,7% | 201,7% | 195,8% |
| UE 813/2013 performance in average ambient co | onditions (average) - 55 °(| C - Pdesignh ≤ 40 | 0 kW (2) | | | | | | |
| Pdesignh | kW | 68 | 91 | 98 | 119 | 137 | 185 | 212 | 236 |
| ηsh | % | 173.0% | 170.0% | 170.0% | 175.0% | 189.0% | 186.0% | 189.0% | 184.0% |
| SCOP | W/W | 4,53 | 4,45 | 4,45 | 4,58 | 4,93 | 4,85 | 4,93 | 4,80 |
| Efficiency energy class | | A+++ | - | - | - | - | - | - | - |
| UE 813/2013 performance in average ambient co | onditions (average) - 35 °(| : - Pdesignh ≤ 40 | 0 kW (3) | | | | | | |
| Pdesignh | kW | 79 | - | - | - | - | - | - | - |
| ηsh | % | 222.0% | - | - | - | - | - | - | - |
| SCOP | W/W | 5,75 | - | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | - | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)
(3) Efficiencies for low temperature applications (35 °C)

WRL K

| WILL | | | | | | | | | |
|--|-----------------------------|-------------------|-----------|--------|--------|--------|--------|--------|--------|
| Size | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | |
| SEER | W/W | 4,65 | 4,71 | 4,67 | 4,90 | 5,31 | 5,31 | 5,35 | 5,19 |
| Seasonal efficiency | % | 182,8% | 185,3% | 183,6% | 192,9% | 209,3% | 209,2% | 210,9% | 204,6% |
| UE 813/2013 performance in average ambient | conditions (average) - 55 ° | C - Pdesignh ≤ 40 | 00 kW (2) | | | | | | |
| Pdesignh | kW | 68 | 91 | 98 | 119 | 137 | 185 | 212 | 236 |
| ηsh | % | 173.0% | 170.0% | 170.0% | 175.0% | 189.0% | 186.0% | 189.0% | 184.0% |
| SCOP | W/W | 4,53 | 4,45 | 4,45 | 4,58 | 4,93 | 4,85 | 4,93 | 4,80 |
| Efficiency energy class | | A+++ | - | - | - | - | - | - | - |
| UE 813/2013 performance in average ambient | conditions (average) - 35 ° | C - Pdesignh ≤ 40 | 0 kW (3) | | | | | | |
| Pdesignh | kW | 79 | - | - | - | - | - | - | - |
| ηsh | % | 222.0% | - | - | - | - | - | - | - |
| SCOP | W/W | 5,75 | - | - | - | - | - | - | - |
| Efficiency energy class | | A+++ | - | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for average temperature applications (55 °C)
(3) Efficiencies for low temperature applications (35 °C)

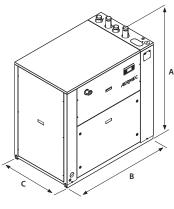
ELECTRIC DATA

| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|-----------------------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | °,E,K | Α | 32,6 | 41,8 | 45,2 | 52,1 | 59,0 | 99,0 | 112,0 | 125,0 |
| Peak current (LRA) | °,E,K | A | 119,0 | 123,0 | 125,0 | 167,0 | 174,0 | 265,0 | 310,0 | 323,0 |

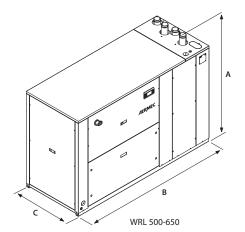
GENERAL TECHNICAL DATA

| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|---|-------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Compressor | | | | | | | | | | |
| Туре | °,E,K | type | | | | Sc | roll | | | |
| Compressor regulation | °,E,K | Туре | | | | 0n | -Off | | | |
| Number | °,E,K | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,E,K | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | °,E,K | type | | | | R4 | 10A | | | |
| Definement sharms (1) | °,K | kg | 6,0 | 7,0 | 6,8 | 7,2 | 9,0 | 14,5 | 16,8 | 16,5 |
| Refrigerant charge (1) | E | kg | Holding charge |
| Source side heat exchanger | | | | | | | | | | |
| Tune | °,K | type | | | | Braze | d plate | | | |
| Туре | E | type | | | | | | | | _ |
| Number | °,K | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | E | no. | - | - | - | - | - | - | - | - |
| System side heat exchanger | | | | | | | | | | |
| Туре | °,E,K | type | | | | Braze | d plate | | | |
| Number | °,E,K | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side hydraulic connections | | | | | | | | | | |
| Compositions (in Jose) | °,K | Type | | | | Groove | d joints | | | _ |
| Connections (in/out) | E | Type | | | | | | | | |
| Sizes (in/out) | °,K | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 |
| Sizes (III/Out) | E | Ø | | | | | | | | |
| System side hydraulic connections | | | | | | | | | | |
| Connections (in/out) | °,E,K | Type | | | | Groove | d joints | | | _ |
| Sizes (in/out) | °,E,K | Ø | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 |
| Sound data calculated in cooling mode (| 2) | | | | | | | | | |
| Sound power level | °,E,K | dB(A) | 61,1 | 61,8 | 62,9 | 71,1 | 67,6 | 79,1 | 79,1 | 79,1 |
| Sound pressure level (10 m) | °,E,K | dB(A) | 29,6 | 30,3 | 31,4 | 39,6 | 36,0 | 47,5 | 47,5 | 47,5 |

DIMENSIONS







| Size | | | 180 | 200 | 300 | 400 | 500 | 550 | 600 | 650 |
|------------------------|-------|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | °,E,K | mm | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 | 1380 |
| В | °,E,K | mm | 1320 | 1320 | 1320 | 1320 | 2060 | 2060 | 2060 | 2060 |
| C | °,E,K | mm | 845 | 845 | 845 | 845 | 845 | 845 | 845 | 845 |
| Emptyweight | °,K | kg | 375 | 375 | 381 | 388 | 518 | 594 | 670 | 715 |
| Empty weight | E | kg | - | - | - | - | - | - | - | - |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).





















WRK



Cooling capacity 38,9 ÷ 165,9 kW Heating capacity 48,5 ÷ 207,7 kW



- Optimised for heating in centralised systems.
- Production of hot water at high temperature up to 68°C.
- · Independent from the gas network.
- DHW production.





DESCRIPTION

Water source heat pump with reverse cycle valve. The unit can produce chilled and hot water but it is optimized for high temperature hot water production, making it a perfect solution for DHW applications. It can also work with low source temperatures which make it possible to work with geothermal applications.

VERSIONS

° Standard

L Standard silenced

FEATURES

Extended operating range

Particular attention has been given to winter operation, ensuring the production of hot water up to 68°C.

Plug and play

All units are equipped with scroll compressors with steam injection and brazed plate heat exchangers. The base and panels are made of steel treated with polyester paints RAL 9003.

The heat pump can be supplied with all the components required for its installation in new systems and in retrofit applications. It can be combined with low temperature emission systems such as in floor radiant heating or fan coils, but also with conventional radiators.

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one or two pumps, high or low head, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

 The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

VT: Antivibration supports

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

T6: Double safety valve with exchange cock, both on the high and low pressure branches.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|----------|-----|------|------|------|------|------|------|------|------|------|------|
| AFD40FD1 | 0 | | | | | | • | • | • | • | • |
| AER485P1 | L | • | • | • | • | • | • | • | • | • | • |
| AFDDACD | 0 | | | | | | • | • | • | • | • |
| AERBACP | L | • | • | • | | • | • | | | | • |
| AFONET | 0 | | | | | | • | • | • | • | • |
| AERNET | L | | • | | | | • | | | | |
| DCD4 | 0 | | | | | | | | | | |
| PGD1 | L | | | | | | | | | | |

Antivibration

| Version | Integrated hydronic kit user side | Integrated hydronic kit, source side | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------|---|--|------|------|------|------|------|--------|--------|--------|--------|--------|
| 0 | ٥ | ٥ | - | - | - | - | - | AVX345 | AVX342 | AVX342 | AVX342 | AVX342 |
| 0 | °,M | J,K,U,W | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | N | ۰ | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | 0 | J,K,U,W | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | Р | ۰ | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | 0 | Q,R,V,Z | - | - | - | - | - | AVX313 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | M,0 | 0 | - | - | - | - | - | AVX313 | AVX343 | AVX343 | AVX343 | AVX343 |
| 0 | N,P | Q,R,V,Z | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX344 | AVX344 |
| L | 0 | 0 | - | - | - | - | - | AVX345 | AVX342 | AVX342 | AVX342 | AVX342 |
| L | °,M | J,K,U,W | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| L | N | 0 | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| L | 0 | J,K,U,W | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| L | Р | 0 | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX343 | AVX343 |
| L | ٥ | Q,R,V,Z | - | - | - | - | - | AVX313 | AVX343 | AVX343 | AVX343 | AVX343 |
| Ĺ | M,0 | 0 | - | - | - | - | - | AVX313 | AVX343 | AVX343 | AVX343 | AVX343 |
| Ĺ | N,P | Q,R,V,Z | - | - | - | - | - | AVX343 | AVX343 | AVX343 | AVX344 | AVX344 |

- not available

| Version | Integrated hydronic kit user side | Integrated hydronic kit, source side | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------|---|--|------|------|------|------|------|------|------|------|------|------|
| 0 | 0 | °,J,K,Q,R,U,V,W,Z | - | - | - | - | - | - | - | - | - | - |
| 0 | М | °,J,K,U,W | - | - | - | - | - | - | - | - | - | - |
| 0 | N | °,Q,R,V,Z | - | - | - | - | - | - | - | - | - | - |
| 0 | 0 | °,J,K,U,W | - | - | - | - | - | - | - | - | - | - |
| 0 | Р | °,Q,R,V,Z | - | - | - | - | - | - | - | - | - | - |
| L | 0 | ٥ | VT9 | VT9 | VT9 | VT9 | VT9 | - | - | - | - | - |
| L | 0 | J,K,Q,R,U,V,W,Z | VT15 | VT15 | VT15 | VT15 | VT15 | - | - | - | - | - |
| L | М | °,J,K,U,W | VT15 | VT15 | VT15 | VT15 | VT15 | - | - | - | - | - |
| L | N | °,Q,R,V,Z | VT15 | VT15 | VT15 | VT15 | VT15 | - | - | - | - | - |
| L | 0 | °,J,K,U,W | VT15 | VT15 | VT15 | VT15 | VT15 | - | - | - | - | - |
| L | Р | °,Q,R,V,Z | VT15 | VT15 | VT15 | VT15 | VT15 | - | - | - | - | - |

⁻ not available

Electronic device for peak current reduction.

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0 | - | - | - | - | - | DREWRK0500 (1) | DREWRK0550 (1) | DREWRK0600 (1) | DREWRK0650 (1) | DREWRK0700 (1) |
| L | DREWRK0200 (1) | DREWRK0280 (1) | DREWRK0300 (1) | DREWRK0330 (1) | DREWRK0350 (1) | DREWRK0500 (1) | DREWRK0550 (1) | DREWRK0600 (1) | DREWRK0650 (1) | DREWRK0700 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction.

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | - | - | - | - | - | RIFWRK0500 | RIFWRK0550 | RIFWRK0600 | RIFWRK0650 | RIFWRK0700 |
| L | RIFWRK0200 | RIFWRK0280 | RIFWRK0300 | RIFWRK0330 | RIFWRK0350 | RIFWRK0500 | RIFWRK0550 | RIFWRK0600 | RIFWRK0650 | RIFWRK0700 |

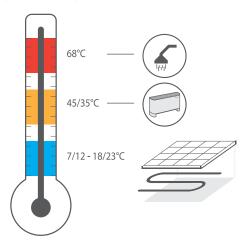
A grey background indicates the accessory must be assembled in the factory

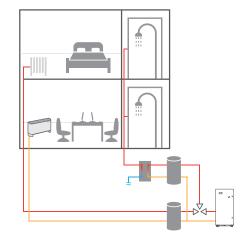
Double safety valve.

| Ver | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | - | - | - | - | - | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 |
| L | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK1 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 | T6WRK2 |

A grey background indicates the accessory must be assembled in the factory

APPLICATION EXAMPLES





WRK units are used in building renovations, where centralised boilers need replacing, while maintaining the existing distribution system and terminals (e.g. radiators) at the same time, to ensure the production of domestic hot water. This situation is typical when operating in contexts such as public buildings, but also in the case of centralised residential systems such as condominiums, where costs must be limited without changing the distribution system, while also offering a renewable energy source, represented precisely by heat pumps. Being able to upgrade a building without involving the distribution system also eliminates the inconveniences associated with the renovation of the premises, ensuring the continuity of the property's use, saving time and money.

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WRK |
| 4,5,6,7 | Size 0200, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve |
| 9 | Model |
| Н | Heat pump |
| 10 | Version |
| 0 | Standard |
| L | Standard silenced (1) |
| 11 | Evaporator |
| 0 | Standard |
| 12 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater |
| 13 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14 | Integrated hydronic kit user side |

| Field | Description |
|-------|--|
| 0 | Without hydronic kit |
| М | Single pump low head |
| N | Pump low head + stand-by pump |
| 0 | Single pump high head |
| Р | Pump high head + stand-by pump |
| 15 | Integrated hydronic kit, source side (2) |
| 0 | Without hydronic kit |
| J | Single low-head inverter pump |
| K | Single high-head inverter pump |
| Q | Single high-head inverter pump + stand-by pump |
| R | Single low-head inverter pump + stand-by pump |
| U | Single pump low head |
| ٧ | Pump low head + stand-by pump |
| W | Single pump high head |
| Z | Pump high head + stand-by pump |
| 16 | Field for future development |
| 0 | Field for future development |

- (1) The size 0200-0280-0300-0330-0350 only available in low noise version (L) (2) Heat pumps R and Q are availables only for sizes $0500\div0700$

PERFORMANCE SPECIFICATIONS 12 °C/7 °C - 40 °C/45 °C

WRK-H°

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | 96,2 | 110,9 | 130,0 | 145,8 | 166,1 |
| Input power | kW | - | - | - | - | - | 21,5 | 24,0 | 28,6 | 33,3 | 37,4 |
| Cooling total input current | A | - | - | - | - | - | 48,0 | 50,0 | 62,0 | 86,0 | 89,0 |
| EER | W/W | - | - | - | - | - | 4,47 | 4,63 | 4,55 | 4,38 | 4,44 |
| Water flow rate source side | l/h | - | - | - | - | - | 20140 | 23075 | 27128 | 30634 | 34797 |
| Pressure drop source side | kPa | - | - | - | - | - | 25 | 25 | 25 | 24 | 25 |
| Water flow rate system side | l/h | - | - | - | - | - | 16552 | 19082 | 22366 | 25077 | 28566 |
| Pressure drop system side | kPa | - | - | - | - | - | 17 | 17 | 17 | 16 | 17 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | - | 120,8 | 137,7 | 163,1 | 187,1 | 207,9 |
| Input power | kW | - | - | - | - | - | 26,4 | 29,7 | 35,4 | 41,2 | 45,4 |
| Heating total input current | А | - | - | - | - | - | 52,0 | 56,0 | 69,0 | 92,0 | 95,0 |
| COP | W/W | - | - | - | - | - | 4,58 | 4,64 | 4,61 | 4,55 | 4,58 |
| Water flow rate source side | l/h | - | - | - | - | - | 27658 | 31618 | 37369 | 42704 | 47563 |
| Pressure drop source side | kPa | - | - | - | - | - | 49 | 49 | 50 | 47 | 50 |
| Water flow rate system side | I/h | - | - | - | - | - | 20958 | 23884 | 28290 | 32459 | 36068 |
| Pressure drop system side | kPa | - | - | - | - | - | 28 | 27 | 28 | 27 | 28 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WRK-HL

| WIK - IIL | | | | | | | | | | | |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 38,9 | 54,4 | 65,0 | 74,1 | 83,5 | 96,2 | 110,9 | 130,0 | 145,8 | 166,1 |
| Input power | kW | 8,6 | 12,0 | 14,3 | 16,8 | 18,8 | 21,5 | 24,0 | 28,6 | 33,3 | 37,4 |
| Cooling total input current | A | 20,0 | 25,0 | 31,0 | 43,0 | 45,0 | 48,0 | 50,0 | 62,0 | 86,0 | 89,0 |
| EER | W/W | 4,54 | 4,54 | 4,54 | 4,41 | 4,43 | 4,47 | 4,63 | 4,55 | 4,38 | 4,44 |
| Water flow rate source side | l/h | 8131 | 11358 | 13570 | 15551 | 17498 | 20140 | 23075 | 27128 | 30634 | 34797 |
| Pressure drop source side | kPa | 19 | 23 | 24 | 25 | 26 | 25 | 25 | 25 | 24 | 25 |
| Water flow rate system side | l/h | 6699 | 9362 | 11186 | 12754 | 14363 | 16552 | 19082 | 22366 | 25077 | 28566 |
| Pressure drop system side | kPa | 13 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 16 | 17 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 48,4 | 68,6 | 81,6 | 93,4 | 104,0 | 120,8 | 137,7 | 163,1 | 187,1 | 207,9 |
| Input power | kW | 10,6 | 14,8 | 17,8 | 20,8 | 22,9 | 26,4 | 29,7 | 35,4 | 41,2 | 45,4 |
| Heating total input current | A | 21,0 | 28,0 | 35,0 | 46,0 | 48,0 | 52,0 | 45,0 | 69,0 | 92,0 | 95,0 |
| COP | W/W | 4,57 | 4,62 | 4,58 | 4,48 | 4,54 | 4,58 | 4,64 | 4,61 | 4,55 | 4,58 |
| Water flow rate source side | l/h | 11062 | 15751 | 18684 | 21290 | 23771 | 27658 | 31618 | 37369 | 42704 | 47563 |
| Pressure drop source side | kPa | 37 | 45 | 47 | 49 | 50 | 49 | 49 | 50 | 47 | 50 |
| Water flow rate system side | I/h | 8397 | 11904 | 14149 | 16207 | 18041 | 20958 | 23884 | 28290 | 32459 | 36068 |
| Pressure drop system side | kPa | 21 | 26 | 27 | 28 | 29 | 28 | 27 | 28 | 27 | 28 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

WRK-H°

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|------|------|------|------|------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | 126,3 | 144,8 | 169,8 | 189,7 | 217,3 |
| Input power | kW | - | - | - | - | - | 21,7 | 23,3 | 29,3 | 33,4 | 39,0 |
| Cooling total input current | A | - | - | - | - | - | 47,0 | 47,0 | 62,0 | 84,0 | 91,0 |
| EER | W/W | - | - | - | - | - | 5,82 | 6,20 | 5,80 | 5,69 | 5,58 |
| Water flow rate source side | l/h | - | - | - | - | - | 25317 | 28767 | 34057 | 38166 | 43828 |
| Pressure drop source side | kPa | - | - | - | - | - | 39 | 39 | 40 | 37 | 40 |
| Water flow rate system side | l/h | - | - | - | - | - | 21826 | 25015 | 29337 | 32770 | 37528 |
| Pressure drop system side | kPa | - | - | - | - | - | 29 | 29 | 29 | 28 | 29 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | - | 116,4 | 132,7 | 155,6 | 178,3 | 198,1 |
| Input power | kW | - | - | - | - | - | 20,7 | 23,0 | 27,5 | 32,1 | 35,4 |
| Heating total input current | A | - | - | - | - | - | 42,0 | 44,0 | 54,0 | 73,0 | 75,0 |
| COP | W/W | - | - | - | - | - | 5,62 | 5,77 | 5,66 | 5,56 | 5,60 |
| Water flow rate source side | l/h | - | - | - | - | - | 16656 | 19095 | 22309 | 25455 | 28334 |
| Pressure drop source side | kPa | - | - | - | - | - | 18 | 18 | 18 | 17 | 18 |
| Water flow rate system side | l/h | - | - | - | - | - | 20118 | 22943 | 26905 | 30825 | 34248 |
| Pressure drop system side | kPa | - | - | - | - | - | 25 | 25 | 25 | 24 | 25 |

⁽¹⁾ Date 14511:2022; Water user side 23 °C / 18 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 30 °C / 35 °C; Water source side 10 °C / 5 °C

WRK-HL

| Size | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 23 °C / 18 °C (1) | | | | | | | | | | | |
| Cooling capacity | kW | 50,9 | 71,0 | 84,9 | 96,4 | 109,2 | 126,3 | 144,8 | 169,8 | 189,7 | 217,3 |
| Input power | kW | 8,8 | 11,7 | 14,7 | 16,9 | 19,8 | 21,7 | 23,3 | 29,3 | 33,4 | 39,0 |
| Cooling total input current | A | 20,0 | 24,0 | 31,0 | 42,0 | 46,0 | 47,0 | 47,0 | 62,0 | 84,0 | 91,0 |
| EER | W/W | 5,81 | 6,10 | 5,78 | 5,69 | 5,53 | 5,82 | 6,20 | 5,80 | 5,69 | 5,58 |
| Water flow rate source side | l/h | 10217 | 14150 | 17036 | 19386 | 22038 | 25317 | 28767 | 34057 | 38166 | 43828 |
| Pressure drop source side | kPa | 30 | 36 | 37 | 39 | 41 | 39 | 39 | 40 | 37 | 40 |
| Water flow rate system side | l/h | 8796 | 12274 | 14672 | 16662 | 18865 | 21826 | 25015 | 29337 | 32770 | 37528 |
| Pressure drop system side | kPa | 22 | 27 | 28 | 29 | 30 | 29 | 29 | 29 | 28 | 29 |
| Heating performance 30 °C / 35 °C (2) | | | | | | | | | | | |
| Heating capacity | kW | 46,4 | 66,1 | 77,8 | 89,0 | 100,1 | 116,4 | 132,7 | 155,6 | 178,3 | 198,1 |
| Input power | kW | 8,3 | 11,5 | 13,8 | 16,2 | 18,2 | 20,7 | 23,0 | 27,5 | 32,1 | 35,4 |
| Heating total input current | A | 17,0 | 22,0 | 28,0 | 36,0 | 39,0 | 42,0 | 44,0 | 54,0 | 73,0 | 75,0 |
| COP | W/W | 5,60 | 5,76 | 5,66 | 5,51 | 5,49 | 5,62 | 5,77 | 5,66 | 5,56 | 5,60 |
| Water flow rate source side | l/h | 6629 | 9514 | 11157 | 12694 | 14269 | 16656 | 19095 | 22309 | 25455 | 28334 |
| Pressure drop source side | kPa | 13 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 17 | 18 |
| Water flow rate system side | I/h | 8016 | 11435 | 13458 | 15390 | 17310 | 20118 | 22943 | 26905 | 30825 | 34248 |
| Pressure drop system side | kPa | 19 | 24 | 24 | 25 | 26 | 25 | 25 | 25 | 24 | 25 |

⁽¹⁾ Date 14511:2022; Water user side 23 °C / 18 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 30 °C / 35 °C; Water source side 10 °C / 5 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|--------------------------------------|-----------------|----------------|----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | |
| | 0 | W/W | - | - | - | - | - | 5,33 | 5,46 | 5,28 | 5,38 | 5,28 |
| SEER | L | W/W | 4,75 | 5,14 | 5,04 | 5,04 | 4,97 | 5,33 | 5,46 | 5,28 | 5,38 | 5,28 |
| Seasonal efficiency | ٥ | % | - | - | - | - | - | 210,2% | 215,4% | 208,2% | 212,2% | 208,2% |
| | L | % | 187,0% | 202,6% | 198,6% | 198,6% | 195,8% | 210,2% | 215,4% | 208,2% | 212,2% | 208,2 |
| UE 811/2013 performance in average a | mbient conditio | ns (average) - | 55 °C - Pdesig | nh ≤ 70 kW (2 |) | | | | | | | |
| F.W. : | 0 | | - | - | - | - | - | - | - | - | - | - |
| Efficiency energy class | L | | A+++ | - | - | - | - | - | - | - | - | - |
| 21.1 | 0 | kW | - | - | - | - | - | 157 | 179 | 212 | 244 | 271 |
| Pdesignh | L | kW | 63 | 89 | 106 | 122 | 135 | 157 | 179 | 212 | 244 | 271 |
| ηsh | 0 | % | - | - | - | - | - | 191.0% | 195.0% | 194.0% | 193.0% | 192.0% |
| | L | % | 181.0% | 187.0% | 185.0% | 181.0% | 182.0% | 191.0% | 195.0% | 194.0% | 193.0% | 192.0% |
| SCOP | 0 | W/W | - | - | - | - | - | 4,98 | 5,08 | 5,05 | 5,03 | 5,00 |
| | L | W/W | 4,73 | 4,88 | 4,83 | 4,73 | 4,75 | 4,98 | 5,08 | 5,05 | 5,03 | 5,00 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| Electric data | | | | | | | | | | | | <u>.</u> |
| Maximum current (FLA) | 0 | A | - | - | - | - | - | 75,0 | 84,0 | 104,0 | 130,0 | 132,0 |
| | L | A | 32,0 | 42,0 | 52,0 | 65,0 | 66,0 | 75,0 | 84,0 | 104,0 | 130,0 | 132,0 |
| Peak current (LRA) | 0 | А | - | - | - | - | - | 216,0 | 181,0 | 218,0 | 271,5 | 273,0 |
| | L | A | 144,0 | 139,0 | 166,0 | 206,5 | 207,0 | 216,0 | 181,0 | 218,0 | 271,5 | 273,0 |

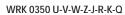
GENERAL TECHNICAL DATA

| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|--|----|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Compressor | | | | | | | | | | | | |
| - | 0 | type | - | - | - | - | - | Scroll | Scroll | Scroll | Scroll | Scroll |
| Туре | L | type | Scroll |
| N. I | 0 | no. | - | - | - | - | - | 3 | 4 | 4 | 4 | 4 |
| Number | L | no. | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 4 |
| Complete | 0 | no. | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 |
| Circuits | L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | 0 | type | - | - | - | - | - | R410A | R410A | R410A | R410A | R410A |
| Reingerant | L | type | R410A |
| Defrigorant charge (1) | 0 | kg | - | - | - | - | - | 13,0 | 16,0 | 18,0 | 22,0 | 24,0 |
| Refrigerant charge (1) | L | kg | 6,0 | 8,0 | 9,0 | 10,0 | 11,0 | 13,0 | 16,0 | 18,0 | 22,0 | 24,0 |
| Source side heat exchanger | | | | | | | | | | | | |
| Time | 0 | type | - | - | - | - | - | Brazed plate |
| Туре | L | type | Brazed plate |
| Number | 0 | no. | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Number | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side heat exchanger | | | | | | | | | | | | |
| Time | 0 | type | - | - | - | - | - | Brazed plate |
| Туре | L | type | Brazed plate |
| Monther | 0 | no. | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Number | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side hydraulic connections | | | | | | | | | | | | |
| Commention (in fact) | 0 | Туре | - | - | - | - | - | Grooved joints |
| Connections (in/out) | L | Туре | Grooved joints |
| Cinco (in (aut) | 0 | Ø | - | - | - | - | - | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| Sizes (in/out) | L | Ø | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| System side hydraulic connections | | | | | | | | | | | | |
| Commention of the food | 0 | Туре | - | - | - | - | - | Grooved joints |
| Connections (in/out) | L | Туре | Grooved joints |
| Since (in least) | 0 | Ø | - | - | - | - | - | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| Sizes (in/out) | L | Ø | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| Sound data calculated in cooling mode (2 | 2) | | | | | | | | | | | |
| County and a supplied | 0 | dB(A) | - | - | - | - | - | 81,6 | 82,2 | 81,6 | 82,7 | 83,4 |
| Sound power level | L | dB(A) | 71,6 | 73,9 | 72,4 | 74,0 | 75,6 | 76,3 | 77,0 | 75,9 | 77,5 | 78,0 |
| 6 1 1/40 | 0 | dB(A) | - | - | - | - | - | 49,9 | 50,5 | 49,9 | 51,0 | 51,7 |
| Sound pressure level (10 m) | L | dB(A) | 40,1 | 42,4 | 40,9 | 42,5 | 44,1 | 44,6 | 45,3 | 44,2 | 45,8 | 46,3 |

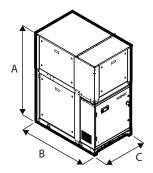
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

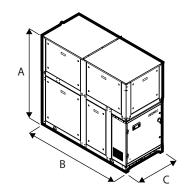
DIMENSIONS

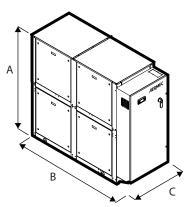
WRK 0350 °











| Size | | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|--------------------------------------|------------------|----|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights without hydro | onic kit | | | | | | | | | | | |
| Δ. | 0 | mm | - | - | - | - | - | 1840 | 1840 | 1840 | 1840 | 1840 |
| A | L | mm | 1675 | 1675 | 1675 | 1675 | 1675 | 1885 | 1885 | 1885 | 1885 | 1885 |
| D | 0 | mm | - | - | - | - | - | 2155 | 2155 | 2155 | 2155 | 2155 |
| В | L | mm | 1265 | 1265 | 1265 | 1265 | 1265 | 2155 | 2155 | 2155 | 2155 | 2155 |
| | 0 | mm | - | - | - | - | - | 800 | 800 | 800 | 800 | 800 |
| C | L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Dimensions and weights with pump/s | | | | | | | | | | | | |
| Δ. | 0 | mm | - | - | - | - | - | 1840 | 1840 | 1840 | 1840 | 1840 |
| A | L | mm | 1675 | 1675 | 1675 | 1675 | 1675 | 1885 | 1885 | 1885 | 1885 | 1885 |
| D | 0 | mm | - | - | - | - | - | 3090 | 3090 | 3090 | 3090 | 3090 |
| В | L | mm | 1890 | 1890 | 1890 | 1890 | 1890 | 3090 | 3090 | 3090 | 3090 | 3090 |
| | 0 | mm | - | - | - | - | - | 800 | 800 | 800 | 800 | 800 |
| | L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Integrated | d Integrated | | | | | | | | | | | |
| Version hydronic ki | it hydronic kit, | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |

| | Version | • | Integrated hydronic kit, | | 0200 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 |
|----------------|---------|-----------|-----------------------------|----|------|------|------|------|------|------|------|------|------|------|
| | | user side | source side | | | | | | | | | | | |
| _ | 0 | 0 | 0 | kg | - | - | - | - | - | 755 | 840 | 865 | 890 | 920 |
| _ | ۰ | ٥ | J/K/U/W | kg | - | - | - | - | - | 935 | 1020 | 1045 | 1085 | 1115 |
| _ | 0 | 0 | Q/R/V/Z | kg | - | - | - | - | - | 1005 | 1090 | 1115 | 1170 | 1200 |
| | 0 | M/0 | 0 | kg | - | - | - | - | - | 900 | 985 | 1010 | 1045 | 1075 |
| _ | 0 | M/0 | J/K/U/W | kg | - | - | - | - | - | 990 | 1075 | 1100 | 1150 | 1180 |
| | 0 | M | Q/R/V/Z | kg | - | - | - | - | - | - | - | - | - | - |
| | 0 | N | J/K/U/W | kg | - | - | - | - | - | - | - | - | - | - |
| | 0 | 0 | Q/R/V/Z | kg | - | - | - | - | - | - | - | - | - | - |
| | 0 | Р | J/K/U/W | kg | - | - | - | - | - | - | - | - | - | - |
| _ | 0 | N/P | 0 | kg | - | - | - | - | - | 970 | 1055 | 1080 | 1125 | 1155 |
| | 0 | N/P | Q/R/V/Z | kg | - | - | - | - | - | 1130 | 1215 | 1240 | 1315 | 1340 |
| Empty weight – | L | 0 | 0 | kg | 495 | 550 | 565 | 570 | 580 | 930 | 1015 | 1040 | 1065 | 1095 |
| _ | L | 0 | J/K/U/W | kg | 665 | 720 | 735 | 740 | 750 | 1155 | 1240 | 1265 | 1305 | 1335 |
| | L | 0 | Q/R/V/Z | kg | 690 | 745 | 760 | 765 | 775 | 1225 | 1310 | 1335 | 1390 | 1420 |
| _ | L | M/0 | 0 | kg | 665 | 720 | 730 | 740 | 750 | 1120 | 1205 | 1230 | 1265 | 1295 |
| | L | M/0 | J/K/U/W | kg | 695 | 755 | 765 | 775 | 785 | 1210 | 1295 | 1320 | 1370 | 1400 |
| = | L | М | Q/R/V/Z | kg | - | - | - | - | - | - | - | - | - | - |
| _ | L | N | J/K/U/W | kg | - | - | - | - | - | - | - | - | - | - |
| _ | L | 0 | Q/R/V/Z | kg | - | - | - | - | - | - | - | - | - | - |
| - | L | Р | J/K/U/W | kg | - | - | - | - | - | - | - | - | - | - |
| _ | L | N/P | 0 | kg | 690 | 745 | 760 | 765 | 775 | 1190 | 1275 | 1300 | 1345 | 1375 |
| _ | L | N/P | Q/R/V/Z | kg | 750 | 805 | 820 | 825 | 835 | 1350 | 1435 | 1460 | 1535 | 1560 |

⁻ not available

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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WWB 0300-0900

Water-water heat pumps only

Heating capacity 56,7 ÷ 265,9 kW



- Optimised to produce high temperature hot water
- Can be used with any air or water cooled heat pump
- Max. processed water temperature: 80
- Max inlet temperature on source side: 45 °C



DESCRIPTION

WWB is a range of irreversible water-water heat pumps that produce high temperature water with a low or medium temperature source. Internal unit suitable for use in centralised residential systems, in systems that serve hotels and other forms of accommodation, and for applications in the tertiary and industrial sectors.

FEATURES

Maximum energy efficiency

Aermec, which has focused for years on energy efficiency, designed the WWB units with the aim of guaranteeing high efficiency both with full and partial loads.

Operating field

With its wide operating range, it can be integrated with numerous applications and is a valid alternative to boilers and all conventional systems used to produce high temperature hot water since it also uses existing systems.

Production of hot water up to 80 $^{\circ}\text{C}$ (Max inlet temperature on source side 45 $^{\circ}\text{C}$).

Constructional characteristics of unit

- Optimised plate heat exchangers with low pressure drops.
- 2 cooling circuits, 1 compressor per circuit.
- Scroll compressors for high condensing temperatures.
- Compact size for easier installation.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

CONTROL

Control unit accessible externally with touch-screen user interface, multilingual display of all operating parameters.

Optimised control logic for use with low and medium temperature heat pumps.

Complies with safety (EC) and electromagnetic compatibility directives. Removable slide-out electrical panel with opening side (LH/RH side) configurator option

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

VT: Antivibration supports

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|------------------|-----|------|------|------|------|------|------|------|------|
| AER485P1 | L | • | • | • | • | • | • | • | • |
| AERBACP | L | • | • | • | • | • | • | • | • |
| AERNET | L | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | L | • | • | • | • | • | • | • | • |
| PGD1 | L | • | | | | • | • | | • |

MULTICHILLER_EVO: Contact the factory for compatibility of the accessory with the type of implant envisaged.

Antivibration

| Ver | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|-----|------|------|------|------|------|------|------|------|
| | VT9 | VT9 | VT9 | VT9 | VT15 | VT15 | VT15 | VT15 |

Power factor correction

| Ver | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| L | RIFWWB0300 | RIFWWB0330 | RIFWWB0350 | RIFWWB0550 | RIFWWB0600 | RIFWWB0700 | RIFWWB0800 | RIFWWB0900 |

A grey background indicates the accessory must be assembled in the factory

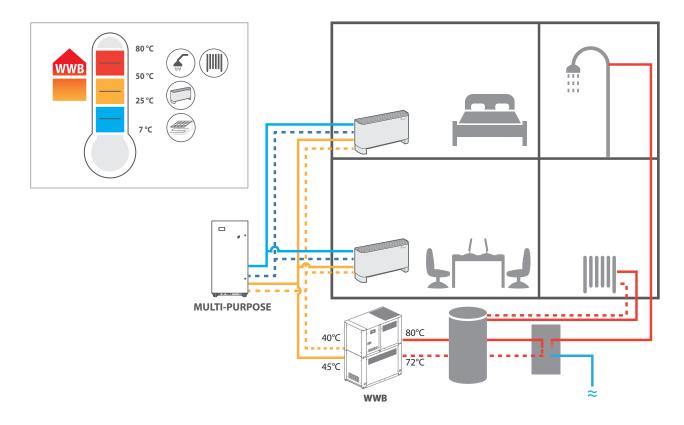
CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WWB |
| 4,5,6,7 | Size 0300, 0330, 0350, 0550, 0600, 0700, 0800, 0900 |
| 8 | Operating field (1) |
| Х | Standard |
| 9 | Model |
| Н | Heat pump |
| 10 | Version |

| Field | Description |
|-------|-------------------------------|
| L | Silenced |
| 11 | Power supply |
| 0 | 400V ~ 3 50Hz |
| S | 400V ~ 3 50Hz with Soft-Start |
| 12 | Electrical panel version |
| 0 | Standard opening (LH) |
| R | Reverse opening (RH) |

⁽¹⁾ Evaporator water up to $+5^{\circ}$ C. Electronic thermostatic valve as standard.

Example of four-pipe system



PERFORMANCE SPECIFICATIONS

| Size | | | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|--------------------------------------|----------------------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|
| Heating performances (Water user sig | de 70 °C / 78 °C; Wa | ter source side 4 | 5 °C / 40 °C) (1) | | | | | | | |
| Heating capacity | L | kW | 70,3 | 77,7 | 93,2 | 114,6 | 143,7 | 181,7 | 220,5 | 265,9 |
| Input power | L | kW | 16,7 | 18,0 | 21,6 | 27,7 | 34,7 | 44,3 | 55,4 | 66,4 |
| Heating total input current | L | A | 29,0 | 30,0 | 36,0 | 46,0 | 61,0 | 71,0 | 89,0 | 104,0 |
| COP | L | W/W | 4,22 | 4,31 | 4,33 | 4,14 | 4,14 | 4,11 | 3,98 | 4,00 |
| Water flow rate system side | L | l/h | 7721 | 8537 | 10243 | 12592 | 15787 | 19973 | 24229 | 29221 |
| Pressure drop system side | L | kPa | 18 | 22 | 31 | 21 | 33 | 24 | 35 | 24 |
| Water flow rate source side | L | l/h | 9339 | 10400 | 12491 | 15141 | 18986 | 23950 | 28791 | 34785 |
| Pressure drop source side | L | kPa | 12 | 15 | 10 | 15 | 8 | 12 | 16 | 23 |
| Heating performances (Water user sid | de 70 °C / 78 °C; Wa | ter source side 3 | 5 °C / 30 °C) (2) | | | | | | | |
| Heating capacity | L | kW | 56,7 | 62,7 | 75,2 | 92,4 | 115,9 | 146,5 | 177,8 | 214,4 |
| Input power | L | kW | 16,3 | 17,6 | 21,0 | 27,0 | 33,9 | 43,2 | 54,0 | 64,7 |
| Heating total input current | L | A | 28,0 | 29,0 | 35,0 | 45,0 | 59,0 | 70,0 | 87,0 | 102,0 |
| COP | L | W/W | 3,48 | 3,56 | 3,58 | 3,42 | 3,42 | 3,39 | 3,29 | 3,31 |
| Water flow rate system side | L | l/h | 6228 | 6886 | 8262 | 10157 | 12734 | 16110 | 19543 | 23570 |
| Pressure drop system side | L | kPa | 12 | 14 | 20 | 14 | 22 | 15 | 23 | 16 |
| Water flow rate source side | L | l/h | 7008 | 7820 | 9396 | 11340 | 14221 | 17924 | 21486 | 25974 |
| Pressure drop source side | L | kPa | 7 | 9 | 6 | 8 | 4 | 7 | 9 | 13 |

⁽¹⁾ Date 14511:2022; Water user side 70 °C / 78 °C; Water source side 45 °C / 40 °C (2) Date 14511:2022; Water user side 70 °C / 78 °C; Water source side 35 °C / 30 °C

ENERGY DATA

| Size | | | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|----------------------------------|----------------------|-------------------|-------------------|------------|--------|--------|--------|--------|--------|--------|
| UE 813/2013 performance in avera | age ambient conditio | ns (average) - 55 | °C - Pdesignh ≤ 4 | 100 kW (1) | | | | | | |
| Pdesignh | L | kW | 46 | 51 | 61 | 76 | 95 | 120 | 145 | 175 |
| ηsh | L | % | 176.0% | 180.0% | 180.0% | 175.0% | 174.0% | 174.0% | 169.0% | 171.0% |
| SCOP | L | W/W | 4,60 | 4,69 | 4,69 | 4,56 | 4,55 | 4,56 | 4,43 | 4,49 |
| Efficiency energy class | L | | A++ | A++ | A++ | - | - | - | - | - |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| Size | | | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Power supply: ° | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | L | A | 30,9 | 32,2 | 38,2 | 50,2 | 64,6 | 79,8 | 94,6 | 113,7 |
| Peak current (LRA) | L | А | 110,4 | 127,1 | 137,1 | 165,1 | 206,3 | 264,9 | 319,3 | 366,9 |
| Power supply: S | | | | | | | | | | |
| Electric data | | | | | | | | | | |
| Maximum current (FLA) | L | А | 30,9 | 32,2 | 38,2 | 50,2 | 64,6 | 79,8 | 94,6 | 113,7 |
| Peak current (LRA) | L | A | 53,4 | 60,5 | 66,3 | 81,1 | 101,9 | 129,9 | 156,1 | 180,9 |

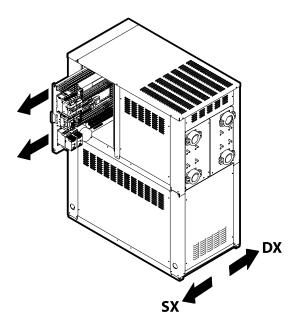
GENERAL TECHNICAL DATA

| Size | | | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|---|---|-------|------|------|------|--------|----------|-------|-------|-------|
| Compressor | | | | | | | | | | |
| Туре | L | type | | | | Sc | roll | | | |
| Compressor regulation | L | Туре | | | | 0n | -Off | | | |
| Number | L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | L | type | | | | R1 | 34a | | | |
| Refrigerant load circuit 1 (1) | L | kg | 2,8 | 2,8 | 3,6 | 4,4 | 6,5 | 7,7 | 8,0 | 9,9 |
| Refrigerant load circuit 2 (1) | L | kg | 2,8 | 2,8 | 3,5 | 4,3 | 6,3 | 7,5 | 7,8 | 9,7 |
| Source side heat exchanger | | | | | | | | | | |
| Туре | L | type | | | | Braze | d plate | | | |
| Number | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | L | Type | | | | Groove | d joints | | | |
| Sizes (in/out) | L | Ø | 2" | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 |
| System side heat exchanger | | | | | | | | | | |
| Туре | L | type | | | | Braze | d plate | | | |
| Number | L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | L | Туре | | | | Groove | d joints | | | |
| Sizes (in/out) | L | Ø | 2" | 2" | 2" | 2" | 2" | 2"1/2 | 2"1/2 | 2"1/2 |
| Sound data calculated in cooling mode (2) | | | | | | | | | | |
| Sound power level | L | dB(A) | 71,8 | 71,8 | 71,8 | 75,1 | 78,3 | 79,3 | 80,4 | 82,4 |
| Sound pressure level (10 m) | L | dB(A) | 40,2 | 40,2 | 40,2 | 43,5 | 46,7 | 47,7 | 48,9 | 50,9 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

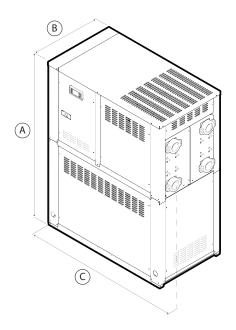
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

Removal of electrical panel



| Electrical panel version | Configurator option |
|--------------------------|---------------------|
| Sx - LH side | ° (Standard) |
| Dx - RH side | R |

DIMENSIONS



| Size | | | 0300 | 0330 | 0350 | 0550 | 0600 | 0700 | 0800 | 0900 |
|--------------------------|---|----|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | |
| A | L | mm | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 | 1650 |
| В | L | mm | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 |
| С | L | mm | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| Weights | | | | | | | | | | |
| Weight empty + packaging | L | kg | 420 | 425 | 440 | 455 | 500 | 715 | 760 | 820 |
| Weight functioning | L | kg | 415 | 420 | 440 | 460 | 510 | 730 | 775 | 840 |

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WWM

Water cooled heat pump reversible water side

Cooling capacity 96 kW Heating capacity 110 kW



- Compact module
- Single or dual refrigerant circuit
- Reliable and modular
- Max 2 levels of stackable units
- Up to 36 connectable units (see the modularity options)
- Easy installation and maintenance



DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

These are indoor units with hermetic scroll compressors, system side heat exchanger and plate source.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

FEATURES

The precise choice of components, the special configuration, and the possibility to connect several independent modules and manage them as if they were a single unit are all aspects that guarantee maximum output at full load, whilst ensuring continuous adaptation to the real service needs.

Bus Bar, to facilitate the electrical connections.

Modularity

Thanks to its modular construction, the installation can be adapted to suit specific system development needs whilst guaranteeing improved safety and reliability.

As a result, the cooling capacity can be easily increased over time, at a limited cost.

WWM consists of independent 96 kW modules that can be linked together to reach a capacity of 3456 kW.

With WWM, you can combine up to 36 units designed to minimise the overall dimensions.

The modules are easy to install and link together from the hydronic point of view, thanks to the connections with grooved joints.

Refrigerant circuit

The refrigerant circuit can easily be disconnected from the unit, maintaining all the functions of the hydronic circuit to ensure correct system operation.

Hydraulic components

WWM version PN10 has the **switch**; WWM version PN21 mounts the **transmitter**.

Fitted as standard, with **butterfly shut-off valves** on both hydronic lines for disconnecting the circuit when maintenance needs to be carried out.

In the event of a variable flow rate, the **motorised hydronic valves** can intercept one module or more in order to reduce the flow rate when there is a low thermal load level.

Very quie

The WWM units stand out for their quiet operation.

Accurate unit sound-proofing, using good-quality sound absorbent material, means all the units work at low noise levels.

Units in parallel

The MULTICHILLER_EVO (accessory) allows up to 9 units to be managed in parallel mode.

This accessory allow to maximise the total efficency to the system under to work load, external air temperature conditions and water produced. Each unit has its own electrical panel, guaranteeing continuity even if one module malfunctions or goes into lockout.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The adjustment system includes the complete management of alarms and the alarm log.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible

to save a log file with all the connected unit datas in the personal terminal for post analysis.

KWWM: Kit containing 4 caps with a diameter of 6" for the water man-

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

FACTORY FITTED ACCESSORIES

CRATE_WWM°: Special crate for transport **CRATE_WWMH-A:** Special crate for transport

KITIDRO_WWM: Water filter with connection pipe (diameter 6") with drain tap and additional bulb well (diameter 1/2") available to the install-

KREC_WWM: Cable entries box in order to facilitate the electrical installation.

ACCESSORIES COMPATIBILITY

| Accessory | WWM05001° | WWM05001H | WWM05002° | WWM05002H |
|------------------|-----------|-----------|-----------|-----------|
| AER485P1 | • | • | • | • |
| AERBACP | • | • | • | • |
| AERNET | • | • | • | • |
| KWWM | • | • | • | • |
| MULTICHILLER EVO | • | • | • | • |

For the control with MULTICHILLER EVO, nr.1 accessory AER485P1 is mandatory for every WWM of the system.

Special crate for transport

| Accessory | WWM05001° | WWM05001H | WWM05002° | WWM05002H |
|--------------|-----------|-----------|-----------|-----------|
| CRATE_WWM° | • | | • | |
| CRATE_WWMH-A | | • | | • |

■ CRATE_WWM°: 100 kg, CRATE_WWMH-A: 130 kg

Cable entries box

| Accessory | WWM05001° | WWM05001H | WWM05002° | WWM05002H |
|-----------|-----------|-----------|-----------|-----------|
| KREC_WWM | • | • | • | |

Water filter

| Accessory | WWM05001° | WWM05001H | WWM05002° | WWM05002H |
|-------------|-----------|-----------|-----------|-----------|
| KITIDRO WWM | | • | | |

CONFIGURATOR

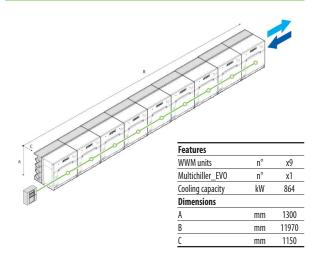
| Field | Description |
|---------|--|
| 1,2,3 | WWM |
| 4,5,6,7 | Size 0500 |
| 8 | Operating field (1) |
| 0 | Standard mechanic thermostatic valve |
| 9 | Model |
| 1 | Single refrigerant circuit |
| 2 | Double refrigerant circuit |
| 10 | Hydraulic pressure rating |
| 1 | 145 psi (PN10) |
| 3 | 300 psi (PN21) |
| 11 | Hydraulic headers kit |
| 0 | No headers provided |
| Н | 6" Headers kit - PN21 standard carbon steel pipes declared in accordance with EN 10255 |

| Field | Description |
|-------|--|
| 12 | Power connection |
| 0 | Without bus bars |
| В | With bus bars |
| 13 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 14 | Electrical panel SCCR |
| 0 | 10 kA control panel |
| 15 | Peak current reduction |
| 0 | Without power factor device |
| R | With power factor device (2) |
| 16 | Field for future development |
| 0 | |

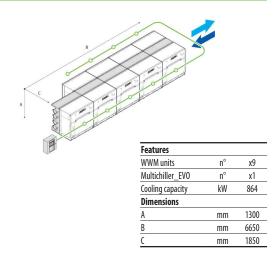
- (1) Water produced up to +4 $^{\circ}$ C (2) Factory installed

MODULARITY OPTIONS

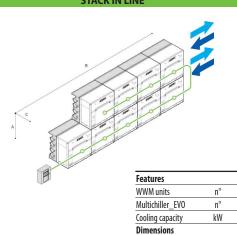
CONFIGURATION 1: IN LINE



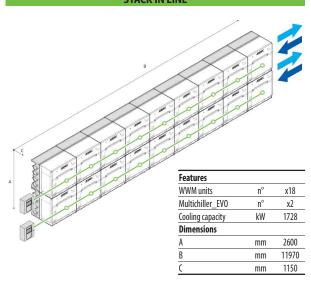
CONFIGURATION 2: BACK TO BACK



CONFIGURATION 3.1: STACK IN LINE

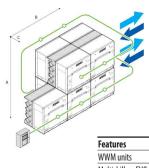


CONFIGURATION 3.2: STACK IN LINE



CONFIGURATION4.1: STACK IN LINE BACK TO BACK

В



 Features

 WWM units
 n°
 x9

 Multichiller_EVO
 n°
 x1

 Cooling capacity
 kW
 864

 Dimensions
 mm
 2600

 B
 mm
 3990

 C
 mm
 1850

х9

х1

864

2600

6650

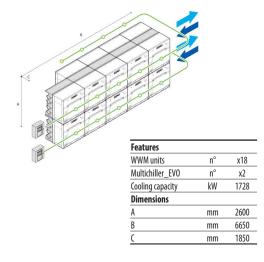
1150

mm

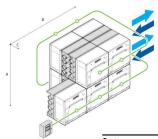
mm

mm

CONFIGURATION 4.2: STACK IN LINE BACK TO BACK

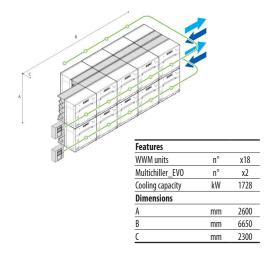


CONFIGURATION 5.1: STACK IN LINE BACK TO BACK DOUBLE

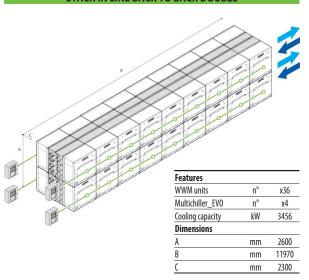


| Features | | |
|------------------|----|------|
| WWM units | n° | х9 |
| Multichiller_EVO | n° | х1 |
| Cooling capacity | kW | 864 |
| Dimensions | | • |
| A | mm | 2600 |
| В | mm | 3990 |
| C | mm | 2300 |

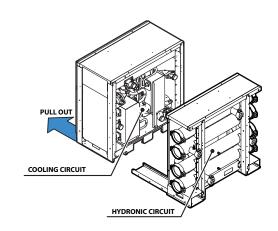
CONFIGURATION 5.2: STACK IN LINE BACK TO BACK DOUBLE



CONFIGURATION 5.3: STACK IN LINE BACK TO BACK DOUBLE



EASY MAINTENANCE



PERFORMANCE SPECIFICATIONS

WWM - Single refrigerant circuit "1" - Double refrigerant circuit "2"

| | | WWM05001° | WWM05002° |
|---------------------------------------|-----|-----------|-----------|
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | kW | 96,0 | 95,2 |
| Input power | kW | 20,3 | 20,0 |
| Cooling total input current | A | 40,0 | 40,0 |
| EER | W/W | 4,74 | 4,76 |
| Water flow rate source side | l/h | 20046 | 19895 |
| Pressure drop source side | kPa | 34 | 23 |
| Water flow rate system side | l/h | 16528 | 16384 |
| Pressure drop system side | kPa | 24 | 17 |
| Heating performance 40 °C / 45 °C (2) | | | |
| Heating capacity | kW | 109,2 | 110,0 |
| Input power | kW | 24,8 | 24,1 |
| Heating total input current | A | 48,0 | 48,0 |
| COP | W/W | 4,41 | 4,57 |
| Water flow rate system side | l/h | 18943 | 19092 |
| Pressure drop system side | kPa | 30 | 21 |
| Water flow rate source side | l/h | 24430 | 24809 |
| Pressure drop source side | kPa | 52 | 39 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY DATA

| | | WWM05001° | WWM05002° | | | |
|---------------------------------------|---|---------------------|-----------|--|--|--|
| SEER - 12/7 (EN14825:2018) with stand | SEER - 12/7 (EN14825:2018) with standard fans (1) | | | | | |
| SEER | W/W | 6,12 | 5,37 | | | |
| Seasonal efficiency | % | 241,8% | 211,8% | | | |
| UE 813/2013 performance in average | ambient conditions (average) - 55 °C - Pd | esignh ≤ 400 kW (2) | | | | |
| Pdesignh | kW | 138 | 140 | | | |
| SCOP | W/W | 4,83 | 4,68 | | | |
| ηsh | % | 185.0% | 179.0% | | | |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

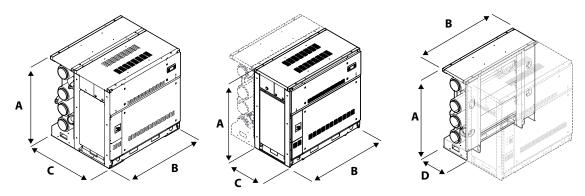
| | | WWM05001° | WWM05002° |
|-----------------------|---|-----------|-----------|
| Electric data | | | |
| Maximum current (FLA) | A | 62,0 | 62,0 |
| Peak current (LRA) | A | 148,9 | 148,9 |

GENERAL TECHNICAL DATA

| | | WWM05001° | WWM05002° |
|---|-------|----------------|----------------|
| Compressor | | | |
| Туре | type | Scroll | Scroll |
| Number | no. | 2 | 2 |
| Circuits | no. | 1 | 2 |
| Refrigerant | type | R410A | R410A |
| Source side heat exchanger | | | |
| Туре | type | Brazed plate | Brazed plate |
| Number | no. | 1 | 1 |
| Connections (in/out) | Туре | Grooved joints | Grooved joints |
| Sizes (in/out) | Ø | 6" | 6" |
| System side heat exchanger | | | |
| Туре | type | Brazed plate | Brazed plate |
| Number | no. | 1 | 1 |
| Connections (in/out) | Туре | Grooved joints | Grooved joints |
| Sizes (in/out) | Ø | 6" | 6" |
| Sound data calculated in cooling mode (| (1) | | |
| Sound power level | dB(A) | 81,0 | 81,0 |
| Sound pressure level (10 m) | dB(A) | 49,5 | 49,5 |
| · | · | · | <u> </u> |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| | | WWM05001° | WWM05001H | WWM05002° | WWM05002H |
|--|----|-----------|-----------|-----------|-----------|
| Dimensions and weights | | | | | |
| A | mm | 1300 | 1300 | 1300 | 1300 |
| В | mm | 1330 | 1330 | 1330 | 1330 |
| C | mm | 775 | 1150 | 775 | 1150 |
| D | mm | - | 452 | - | 452 |
| Weights | | | | | |
| Weight empty + packaging | kg | 700 | 930 | 700 | 930 |
| Weight functioning | kg | 711 | 1042 | 711 | 1042 |
| Empty weight + packaging (with bus bars) | kg | 736 | 966 | 736 | 966 |
| Weight functioning (with bus bars) | kg | 747 | 1078 | 747 | 1078 |
| Hydraulic headers kit | | | | | |
| Weight empty + packaging | kg | - | 230 | - | 230 |
| Weight functioning | kg | - | 330 | - | 330 |

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NXW 0503 - 1654

Water cooled heat pump reversible water side

Cooling capacity 111 ÷ 511 kW Heating capacity 127 ÷ 582 kW



- Installation versatility also for geothermal applications.
- Options of 1 or 2 pumps on both source and user side.
- Reversible on hydraulic side in heat pump





DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications. Indoor units with hermetic scroll compressors and plate heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water 4-18 °C, and the possibility to produce also negative temperature water down to -10°C for the evaporator and hot water for the condenser up to 55 °C. (for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Option integrated hydronic kit, source and user side

The built-in hydronic module includes the main water circuit components; it is available in varius configurations with one or two pumps with high or low head both on the system side and the source side, to obtain a solution that allows you to save money and to facilitate installation.

CONTROL PCO

Microprocessor adjustment, with display LCD which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and the ad adjustment includes complete management of the alarms and their log.

You also have the possibility to:

Check two units in parallel Master-Slave

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | °,L | • | • | | • | | • | | | | • | | | • |

Antivibration

| Version | Integrated hydroni | c Integrated hydronic | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|---------|--------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| version | kit user side | kit, source side | 0505 | 0555 | 0004 | 0034 | 0/04 | 0/34 | 0004 |
| 0 | 0 | 0 | AVX319 | AVX319 | AVX301 | AVX301 | AVX301 | AVX303 | AVX310 |
| 0 | 0 | J,K,U,W | AVX320 | AVX320 | AVX320 | AVX320 | AVX320 | AVX312 | AVX651 |
| 0 | M,0 | 0 | AVX320 | AVX320 | AVX320 | AVX320 | AVX320 | AVX312 | AVX651 |
| 0 | 0 | V,Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| 0 | М | J,K,U,V,W,Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| 0 | N | °,J,K,U,W | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| 0 | 0 | J,K,U,V,W,Z | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| 0 | Р | °,J,K,U,W | AVX320 | AVX320 | AVX309 | AVX309 | AVX309 | AVX312 | AVX651 |
| 0 | N,P | V,Z | AVX309 | AVX309 | AVX310 | AVX310 | AVX310 | AVX312 | AVX651 |
| L | 0 | 0 | AVX309 | AVX309 | AVX310 | AVX303 | AVX303 | AVX310 | AVX314 |
| L | 0 | J,K,U,W | AVX321 | AVX321 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | M,0 | 0 | AVX321 | AVX321 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | 0 | V,Z | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | М | J,K,U,W | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | N | 0 | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | 0 | J,K,U,W | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | Р | 0 | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX651 | AVX652 |
| L | М | V,Z | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | N | J,K,U,W | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | 0 | V,Z | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | Р | J,K,U,W | AVX311 | AVX311 | AVX312 | AVX312 | AVX651 | AVX651 | AVX652 |
| L | N,P | V,Z | AVX312 | AVX312 | AVX312 | AVX310 | AVX651 | AVX651 | AVX652 |

| Version | Integrated hydronic kit user side | Integrated hydronic kit, source side | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---------|--------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|
| 0 | 0 | 0 | AVX314 | AVX316 | AVX316 | AVX315 | AVX330 | AVX330 |
| 0 | 0 | J,K,U,W | AVX655 | AVX653 | AVX654 | AVX654 | AVX334 | AVX337 |
| 0 | M,N,O | 0 | AVX655 | AVX653 | AVX654 | AVX654 | AVX334 | AVX337 |
| 0 | 0 | V,Z | AVX655 | AVX653 | AVX654 | AVX654 | AVX337 | - |
| 0 | M,0 | J,K,U,W | AVX665 | AVX653 | AVX654 | AVX654 | AVX337 | AVX335 |
| 0 | M,0 | V,Z | AVX655 | AVX653 | AVX654 | AVX654 | AVX340 | - |
| 0 | N | J,K,U,W | AVX665 | AVX653 | AVX654 | AVX654 | AVX340 | AVX335 |
| 0 | N | V,Z | AVX665 | AVX653 | AVX654 | AVX654 | AVX335 | - |
| 0 | P | 0 | AVX655 | AVX653 | AVX654 | AVX654 | - | - |
| 0 | Р | J,K,U,V,W,Z | AVX665 | AVX653 | AVX654 | AVX654 | - | - |
| L | 0 | 0 | AVX314 | AVX315 | AVX315 | AVX317 | AVX331 | AVX331 |
| L | 0 | J,K,U,W | AVX653 | AVX654 | AVX659 | AVX659 | AVX335 | AVX338 |
| L | M,0 | 0 | AVX653 | AVX654 | AVX659 | AVX659 | AVX335 | AVX338 |
| L | 0 | V,Z | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | - |
| L | М | J,K,U,W | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | N | 0 | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | 0 | J,K,U,W | AVX653 | AVX654 | AVX659 | AVX659 | AVX338 | AVX339 |
| L | M,N,O | V,Z | AVX653 | AVX654 | AVX659 | AVX659 | AVX339 | - |
| L | N | J,K,U,W | AVX653 | AVX654 | AVX659 | AVX659 | AVX339 | AVX341 |
| L | Р | °,J,K,U,V,W,Z | AVX653 | AVX654 | AVX659 | AVX659 | - | - |

⁻ not available

Power factor correction

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,L | RIF98 | RIF98 | RIF95 | RIF95 | RIF95 | RIF95 | RIF95 | RIF96 | RIF97 | RIF97 | RIF97 | RIF97 | RIF97 |

A grey background indicates the accessory must be assembled in the factory

Device for peak current reduction

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| °,L | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) | DRE801 (1) | DRE901 (1) | DRE1001 (1) | DRE1251 (1) | DRE1401 (1) | DRE1500 (1) | DRE1650 (1) |

⁽¹⁾ Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NXW |
| 4,5,6,7 | Size |
| 4,3,0,7 | 0503, 0553, 0604, 0654, 0704, 0754, 0804, 0904, 1004, 1254, 1404, 1504, 1654 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| X | Electronic thermostatic expansion valve (1) |
| Υ | Low temperature mechanic thermostatic valve (2) |
| 9 | Model |
| 0 | Heat pump reversible on the water side |
| K | Heat pump reversible on the water side with low pressure drops |
| 10 | Version |
| 0 | Standard |
| L | Standard silenced |
| 11 | Evaporator |
| 0 | Standard |
| E | Evaporating unit (3) |
| 12 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (4) |
| T | With total recovery (5) |
| 13 | Power supply |
| 0 | $400V\sim3$ 50Hz with magnet circuit breakers |
| 5 | $500V \sim 3$ 50Hz with magnet circuit breakers (6) |
| 14 | Integrated hydronic kit user side |
| 0 | Without hydronic kit |
| M | Single pump low head |
| N | Pump low head + stand-by pump |
| 0 | Single pump high head |
| Р | Pump high head + stand-by pump (7) |
| 15 | Integrated hydronic kit, source side |
| 0 | Without hydronic kit |
| J | Single low-head inverter pump (7) |
| K | Single high-head inverter pump (7) |
| U | Single pump low head |
| V | Pump low head + stand-by pump (8) |
| W | Pump high head |
| Z | Pump high head + stand-by pump (8) |

PERFORMANCE SPECIFICATIONS

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---------------------------------------|-------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 111,8 | 120,7 | 148,7 | 166,7 | 188,7 | 222,7 | 257,6 | 291,6 | 325,7 | 354,6 | 384,6 | 453,9 | 511,4 |
| Input power | °,L | kW | 23,0 | 24,8 | 30,6 | 34,4 | 38,9 | 45,6 | 53,0 | 60,3 | 66,5 | 72,6 | 78,7 | 92,3 | 104,0 |
| Cooling total input current | °,L | Α | 48,0 | 51,0 | 58,0 | 63,0 | 86,0 | 94,0 | 102,0 | 120,0 | 138,0 | 140,0 | 143,0 | 160,0 | 178,0 |
| EER | °,L | W/W | 4,87 | 4,86 | 4,86 | 4,85 | 4,85 | 4,88 | 4,86 | 4,84 | 4,90 | 4,88 | 4,89 | 4,92 | 4,92 |
| Water flow rate source side | °,L | l/h | 23047 | 24886 | 30656 | 34332 | 38866 | 45790 | 52970 | 60075 | 67065 | 73041 | 79190 | 93374 | 105103 |
| Pressure drop source side | °,L | kPa | 25 | 29 | 29 | 37 | 37 | 45 | 60 | 38 | 29 | 34 | 36 | 36 | 47 |
| Water flow rate system side | °,L | l/h | 19243 | 20789 | 25600 | 28692 | 32472 | 38314 | 44327 | 50169 | 56011 | 60993 | 66147 | 78063 | 87938 |
| Pressure drop system side | °,L | kPa | 30 | 35 | 32 | 40 | 43 | 47 | 49 | 55 | 35 | 36 | 36 | 36 | 40 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | |
| Heating capacity | °,L | kW | 127,6 | 137,8 | 170,0 | 190,3 | 215,4 | 253,7 | 293,5 | 332,9 | 371,5 | 404,7 | 438,7 | 517,1 | 582,0 |
| Input power | °,L | kW | 27,6 | 29,9 | 36,3 | 40,9 | 46,4 | 54,5 | 63,3 | 72,3 | 79,0 | 86,2 | 93,3 | 109,5 | 123,4 |
| Heating total input current | °,L | Α | 57,0 | 60,0 | 68,0 | 73,0 | 100,0 | 109,0 | 119,0 | 140,0 | 161,0 | 163,0 | 166,0 | 186,0 | 207,0 |
| COP | °,L | W/W | 4,62 | 4,61 | 4,69 | 4,66 | 4,64 | 4,66 | 4,64 | 4,60 | 4,70 | 4,69 | 4,70 | 4,72 | 4,71 |
| Water flow rate source side | °,L | l/h | 29340 | 31697 | 39235 | 43975 | 49768 | 58721 | 67938 | 76891 | 85844 | 93480 | 101380 | 119642 | 134776 |
| Pressure drop source side | °,L | kPa | 70 | 81 | 75 | 94 | 101 | 110 | 115 | 129 | 82 | 85 | 85 | 85 | 94 |
| Water flow rate system side | °,L | l/h | 22142 | 23905 | 29490 | 33021 | 37384 | 44030 | 50933 | 57790 | 64513 | 70265 | 76175 | 89802 | 101065 |
| Pressure drop system side | °,L | kPa | 23 | 27 | 27 | 34 | 34 | 42 | 55 | 35 | 27 | 31 | 33 | 33 | 43 |
| (*) ** | 04.1-04.111 | | | | | | | | | | | | | | |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

Water produced from 4 °C ÷ 18 °C
 Water produced from 4 °C ÷ -10 °C; for the avalability with the heat recovery we advise you to contact us
 Shipped with holding charge only.
 The desuperheater must be isolated in heating mode. In cooling mode, a water temperature no lower than 35 °C must always be guaranteed on the heat exchanger inlet.

⁽⁵⁾ Options not available for condensing unit, and for models with pump/s (6) Only for 0804 ÷ 1004 sizes (7) Not available for size 1504 ÷ 1654 (8) Not available for size 1654

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|--|----------------|-------------|----------------|-----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| SEER | °,L | W/W | 5,50 | 5,85 | 5,79 | 5,77 | 5,84 | 5,81 | 5,52 | 6,30 | 6,42 | 6,37 | 6,38 | 6,49 | 6,48 |
| Seasonal efficiency | °,L | % | 217,0% | 231,0% | 228,6% | 227,8% | 230,6% | 229,4% | 217.8% | 248,8% | 253,8% | 251,6% | 252,0% | 256,4% | 256,2% |
| SEPR - (EN 14825: 2018) High temperatu | re (2) | | | | | | | | | | | | | | |
| SEPR | 0 | W/W | - | - | - | - | - | - | - | 7,90 | 7,90 | 7,80 | 7,80 | 8,00 | 8,00 |
| SEPK | L | W/W | - | - | - | - | - | - | - | 7,93 | 7,90 | 7,78 | 7,80 | 8,00 | 8,02 |
| UE 813/2013 performance in average an | nbient conditi | ons (averag | e) - 55 °C - P | designh ≤ | 400 kW (3) | | | | | | | | | | |
| Pdesignh | °,L | kW | 164 | 177 | 218 | 244 | 277 | 326 | 377 | - | - | - | - | - | - |
| SCOP | °,L | W/W | 5,10 | 5,05 | 5,18 | 5,10 | 5,10 | 5,10 | 5,08 | - | - | - | - | - | - |
| ηsh | °,L | % | 196.0% | 194.0% | 199.0% | 196.0% | 196.0% | 196.0% | 195.0% | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 75,0 | 80,0 | 96,0 | 107,0 | 122,0 | 146,0 | 169,0 | 193,0 | 217,0 | 231,0 | 248,0 | 267,0 | 296,0 |
| Peak current (LRA) | ۰,۱ | A | 240.0 | 245.0 | 227.0 | 238.0 | 289.0 | 319.0 | 341.0 | 398.0 | 422.0 | 490.0 | 504.0 | 601.0 | 630.0 |

GENERAL TECHNICAL DATA

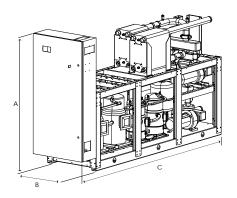
| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|-----|-------|--------|--------|--------|--------|-------|-------|--------------|----------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Scroll | | | | | | |
| Compressor regulation | °,L | Туре | | | | | | | 0n-0ff | | | | | | |
| Number | °,L | no. | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | °,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | | | | | R410A | | | | | | |
| Refrigerant charge (1) | °,L | kg | 13,2 | 12,5 | 15,6 | 15,6 | 18,0 | 22,0 | 26,0 | 33,0 | 38,0 | 44,0 | 44,0 | 46,0 | 53,0 |
| Source side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | <u>!</u> | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Туре | | | | | | 9 | rooved join | ts | | | | | |
| Size (in) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Size (out) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Туре | | | | | | 9 | Frooved join | ts | | | | | |
| Size (in) | °,L | Ø | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3″ | 3" |
| Size (out) | °,L | Ø | 2"1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" |
| Sound data calculated in cooling mode (2) | | | | | | | | | | | | | | | |
| Cound notice land | 0 | dB(A) | 78,0 | 79,0 | 79,0 | 80,0 | 82,0 | 86,0 | 88,0 | 88,0 | 88,0 | 90,0 | 90,0 | 93,0 | 95,0 |
| Sound power level — | L | dB(A) | 72,0 | 73,0 | 73,0 | 74,0 | 76,0 | 80,0 | 82,0 | 82,0 | 82,0 | 84,0 | 84,0 | 86,0 | 87,0 |
| Cound procesure level (10 m) | 0 | dB(A) | 46,4 | 47,4 | 47,4 | 48,4 | 50,4 | 54,3 | 56,3 | 56,3 | 56,3 | 58,3 | 58,3 | 61,3 | 63,3 |
| Sound pressure level (10 m) | L | dB(A) | 40,3 | 41,3 | 41,3 | 42,3 | 44,3 | 48,3 | 50,3 | 50,3 | 50,3 | 52,3 | 52,3 | 54,3 | 55,3 |

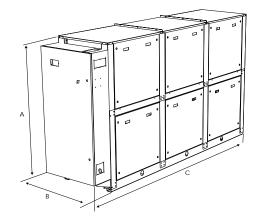
www.aermec.com

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS





| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| A | 0 | mm | 1835 | 1835 | 1835 | 1835 | 1835 | 1775 | 1775 | 1820 | 1820 | 1820 | 1820 | 1820 | 1820 |
| A | L | mm | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| В | °,L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| (| ٥ | mm | 1795 | 1795 | 1795 | 1795 | 1795 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 |
| | L | mm | 2090 | 2090 | 2090 | 2090 | 2090 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 |
| Empty weight — | 0 | kg | 578 | 582 | 682 | 690 | 727 | 882 | 989 | 1180 | 1417 | 1461 | 1539 | 1613 | 1721 |
| | L | kg | 750 | 755 | 854 | 863 | 900 | 1054 | 1187 | 1378 | 1615 | 1659 | 1737 | 1811 | 1919 |

The weight of the unit does not include the hydronic kit and accessories.

















NXW 0503H - 1654H

Reversible water-cooled heat pump, gas side

Cooling capacity 106 ÷ 477 kW Heating capacity 125 ÷ 565 kW



- Installation versatility also for geothermal applications.
- Options of 1 or 2 pumps on both source and user side.
- Production of hot water up to 55 °C





DESCRIPTION

Water-water offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

These are indoor units with hermetic scroll compressors, system side heat exchanger and plate source.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water 4-18°C, and the possibility to produce also negative temperature water down to -8°C for the evaporator and hot water for the condenser up to 55°C. (for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Option integrated hydronic kit, source and user side

Possibility of integrated hydronic kit containing the main hydraulic components and available with various configurations.

CONTROL PCO

Microprocessor adjustment, with display LCD which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and the ad adjustment includes complete management of the alarms and their log.

You also have the possibility to:

- Check two units in parallel Master-Slave
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|--------------------------|---------------------------------|-----------|------|------|------|---------------------|------|-----------|
| AER485P1 | °,L | • | • | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • |
| AERNET | °,L | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,L | • | • | • | | • | • | • |
| PGD1 | °,L | • | • | • | • | • | • | • |
| | | | | | | | | |
| Model | Ver | 0904 | 1004 | 1254 | | 1404 | 1504 | 1654 |
| Model AER485P1 | Ver °,L | 0904 • | 1004 | 1254 | | 1404 • | 1504 | 1654 |
| | Ver °,L °,L | . · · · | | 1254 | | 1404 | | 1654 • |
| AER485P1 AERBACP | Ver °,L °,L °,L | | • | | | 1404 • • | | |
| AER485P1 | Ver °,L °,L °,L °,L | | • | | | 1404 • • • | | |

Antivibration

| Version | Integrated hydroni | c Integrated hydronic | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|---------|--------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| version | kit user side | kit, source side | 0503 | 0555 | 0004 | 0034 | 0/04 | 0/34 | 0804 |
| 0 | 0 | 0 | AVX319 | AVX319 | AVX301 | AVX301 | AVX302 | AVX310 | AVX310 |
| 0 | 0 | J,K,U,W | AVX320 | AVX320 | AVX320 | AVX309 | AVX309 | AVX651 | AVX651 |
| 0 | M,0 | 0 | AVX320 | AVX320 | AVX320 | AVX309 | AVX309 | AVX651 | AVX651 |
| 0 | ٥ | V,Z | AVX320 | AVX320 | AVX303 | AVX309 | AVX311 | AVX651 | AVX651 |
| 0 | М | J,K,U,W | AVX320 | AVX320 | AVX303 | AVX309 | AVX311 | AVX651 | AVX651 |
| 0 | N | 0 | AVX320 | AVX320 | AVX303 | AVX309 | AVX311 | AVX651 | AVX651 |
| 0 | 0 | J,K,U,W | AVX320 | AVX320 | AVX303 | AVX309 | AVX311 | AVX651 | AVX651 |
| 0 | Р | 0 | AVX320 | AVX320 | AVX303 | AVX309 | AVX311 | AVX651 | AVX651 |
| 0 | М | V,Z | AVX309 | AVX309 | AVX303 | AVX311 | AVX312 | AVX651 | AVX651 |
| 0 | N | J,K,U,W | AVX309 | AVX309 | AVX303 | AVX311 | AVX312 | AVX651 | AVX651 |
| 0 | 0 | V,Z | AVX309 | AVX309 | AVX303 | AVX311 | AVX312 | AVX651 | AVX651 |
| 0 | Р | J,K,U,W | AVX309 | AVX309 | AVX303 | AVX311 | AVX312 | AVX651 | AVX651 |
| 0 | N,P | V,Z | AVX309 | AVX309 | AVX312 | AVX312 | AVX312 | AVX651 | AVX651 |
| L | 0 | 0 | AVX309 | AVX309 | AVX310 | AVX303 | AVX304 | AVX314 | AVX314 |
| L | 0 | J,K,U,W | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX652 | AVX665 |
| L | M,0 | ٥ | AVX311 | AVX311 | AVX311 | AVX311 | AVX651 | AVX652 | AVX665 |
| L | 0 | V,Z | AVX311 | AVX311 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | М | J,K,U,W | AVX311 | AVX311 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | N | ٥ | AVX311 | AVX311 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | 0 | J,K,U,W | AVX311 | AVX311 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | P | ٥ | AVX311 | AVX311 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | М | V,Z | AVX312 | AVX312 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | N | J,K,U,V,W,Z | AVX312 | AVX312 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | 0 | V,Z | AVX312 | AVX312 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |
| L | Р | J,K,U,V,W,Z | AVX312 | AVX312 | AVX312 | AVX313 | AVX651 | AVX652 | AVX665 |

| Version | Integrated hydronic kit user side | Integrated hydronic kit, source side | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---------|--------------------------------------|---|--------|--------|--------|--------|--------|--------|
| 0 | 0 | 0 | AVX314 | AVX316 | AVX315 | AVX317 | AVX330 | AVX331 |
| 0 | 0 | J,K,U,W | AVX665 | AVX654 | AVX654 | AVX654 | AVX337 | AVX336 |
| 0 | M,0 | 0 | AVX665 | AVX654 | AVX654 | AVX654 | AVX337 | AVX336 |
| 0 | 0 | V,Z | AVX665 | AVX654 | AVX654 | AVX654 | AVX336 | - |
| 0 | М | J,K,U,W | AVX665 | AVX654 | AVX654 | AVX654 | AVX336 | AVX335 |
| 0 | N | 0 | AVX665 | AVX654 | AVX654 | AVX654 | AVX336 | AVX335 |
| 0 | 0 | J,K,U,W | AVX665 | AVX654 | AVX654 | AVX654 | AVX336 | AVX335 |
| 0 | M,0 | V,Z | AVX665 | AVX654 | AVX654 | AVX654 | AVX335 | - |
| 0 | N | J,K,U,W | AVX665 | AVX654 | AVX654 | AVX654 | AVX335 | AVX339 |
| 0 | N | V,Z | AVX665 | AVX654 | AVX654 | AVX654 | - | - |
| 0 | Р | °,J,K,U,V,W,Z | AVX665 | AVX654 | AVX654 | AVX654 | - | - |
| L | 0 | 0 | AVX315 | AVX317 | AVX317 | AVX318 | AVX331 | AVX333 |
| L | 0 | J,K,U,W | AVX653 | AVX659 | AVX659 | AVX659 | AVX338 | AVX338 |
| L | 0 | V,Z | AVX653 | AVX659 | AVX659 | AVX659 | AVX338 | AVX341 |
| L | М | °,J,K,U,W | AVX653 | AVX659 | AVX659 | AVX659 | AVX338 | AVX341 |
| L | N | 0 | AVX653 | AVX659 | AVX659 | AVX659 | AVX338 | AVX341 |
| L | 0 | °,J,K,U,W | AVX653 | AVX659 | AVX659 | AVX659 | AVX338 | AVX341 |
| L | M,0 | V,Z | AVX653 | AVX659 | AVX659 | AVX659 | AVX339 | - |
| L | N | J,K,U,W | AVX653 | AVX659 | AVX659 | AVX659 | AVX339 | AVX341 |
| L | N | V,Z | AVX653 | AVX659 | AVX659 | AVX659 | AVX341 | - |
| L | Р | °,J,K,U,V,W,Z | AVX653 | AVX659 | AVX659 | AVX659 | - | - |

⁻ not available

Power factor correction

| | Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|
| Ī | °,L | RIF98 | RIF98 | RIF95 | RIF95 | RIF95 | RIF95 | RIF95 |

A grey background indicates the accessory must be assembled in the factory $% \left(x\right) =\left(x\right) +\left(x\right)$

| Ver | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----|-------|-------|-------|-------|-------|-------|
| °,L | RIF96 | RIF97 | RIF97 | RIF97 | RIF97 | RIF97 |

A grey background indicates the accessory must be assembled in the factory

Device for peak current reduction

| Ver | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 |
|-----|------------|------------|------------|------------|------------|------------|------------|
| °,L | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) | DRE801 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

| Ver | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----|------------|-------------|-------------|-------------|-------------|-------------|
| °,L | DRE901 (1) | DRE1001 (1) | DRE1251 (1) | DRE1401 (1) | DRE1500 (1) | DRE1650 (1) |

(1) Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|---|
| 1,2,3 | NXW |
| 4,5,6,7 | Size 0503, 0553, 0604, 0654, 0704, 0754, 0804, 0904, 1004, 1254, 1404, 1504, 1654 |
| 8 | Operating field (1) |
| 0 | Standard mechanic thermostatic valve |
| Χ | Electronic thermostatic expansion valve |
| 9 | Model |
| Н | Heat pump |
| 10 | Version |
| 0 | Standard |
| L | Standard silenced |
| 11 | Evaporator |
| 0 | Standard |
| 12 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (2) |
| 13 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 5 | 500V ~ 3 50Hz with magnet circuit breakers (3) |
| 14 | Integrated hydronic kit user side |
| 0 | Without hydronic kit |
| М | Single pump low head |
| N | Pump low head + stand-by pump |
| 0 | Single pump high head |
| Р | Pump high head + stand-by pump (4) |
| 15 | Integrated hydronic kit, source side |
| 0 | Without hydronic kit |
| J | Single low-head inverter pump |
| K | Single high-head inverter pump |
| U | Single pump low head |
| ٧ | Pump low head + stand-by pump (5) |
| W | Pump high head |
| Z | Pump high head + stand-by pump (5) |

⁽¹⁾ Water produced from 4 °C ÷ 18 °C
(2) The desuperheater must be isolated in heating mode. In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(3) Only for 0804 ÷ 1004 sizes
(4) The hydronic kit P is not available for sizes 1504 and 1654
(5) The hydronic kits V and Z are not available for size 1654

PERFORMANCE SPECIFICATIONS

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 105,9 | 113,8 | 140,8 | 159,8 | 180,7 | 211,6 | 242,7 | 277,7 | 313,6 | 341,7 | 369,7 | 423,6 | 477,0 |
| Input power | °,L | kW | 23,8 | 25,7 | 31,1 | 35,3 | 40,2 | 47,1 | 54,2 | 62,2 | 70,4 | 76,6 | 82,7 | 94,8 | 106,7 |
| Cooling total input current | °,L | Α | 49,0 | 52,0 | 60,0 | 65,0 | 87,0 | 95,0 | 104,0 | 122,0 | 140,0 | 144,0 | 147,0 | 164,0 | 183,0 |
| EER | °,L | W/W | 4,45 | 4,43 | 4,52 | 4,52 | 4,50 | 4,49 | 4,47 | 4,47 | 4,45 | 4,46 | 4,47 | 4,47 | 4,47 |
| Water flow rate source side | °,L | l/h | 22173 | 23854 | 29402 | 33334 | 37744 | 44198 | 50635 | 58078 | 65694 | 71514 | 77333 | 88547 | 99702 |
| Pressure drop source side | °,L | kPa | 25 | 29 | 28 | 35 | 35 | 42 | 55 | 36 | 28 | 32 | 34 | 41 | 44 |
| Water flow rate system side | °,L | l/h | 18212 | 19586 | 24225 | 27490 | 31098 | 36424 | 41750 | 47764 | 53949 | 58759 | 63570 | 72837 | 82027 |
| Pressure drop system side | °,L | kPa | 17 | 20 | 19 | 24 | 24 | 29 | 38 | 24 | 19 | 22 | 24 | 29 | 30 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | |
| Heating capacity | °,L | kW | 125,4 | 135,8 | 165,8 | 187,6 | 210,4 | 269,6 | 310,2 | 325,2 | 365,6 | 399,8 | 434,0 | 500,6 | 565,2 |
| Input power | °,L | kW | 27,9 | 30,2 | 36,8 | 41,8 | 46,9 | 55,6 | 64,6 | 72,6 | 80,8 | 88,6 | 96,4 | 111,2 | 124,9 |
| Heating total input current | °,L | Α | 54,0 | 57,0 | 66,0 | 72,0 | 94,0 | 105,0 | 115,0 | 135,0 | 154,0 | 160,0 | 165,0 | 181,0 | 202,0 |
| COP | °,L | W/W | 4,49 | 4,49 | 4,51 | 4,49 | 4,48 | 4,85 | 4,80 | 4,48 | 4,52 | 4,51 | 4,50 | 4,50 | 4,52 |
| Water flow rate source side | °,L | l/h | 28545 | 30928 | 37776 | 42774 | 47928 | 62567 | 71944 | 74067 | 83306 | 91109 | 98905 | 114256 | 129207 |
| Pressure drop source side | °,L | kPa | 43 | 49 | 46 | 58 | 58 | 46 | 61 | 58 | 46 | 52 | 58 | 66 | 71 |
| Water flow rate system side | °,L | l/h | 21762 | 23561 | 28776 | 32552 | 36508 | 46797 | 53844 | 56470 | 63485 | 69420 | 75355 | 86926 | 98135 |
| Pressure drop system side | °,L | kPa | 24 | 28 | 26 | 33 | 32 | 31 | 40 | 33 | 26 | 30 | 32 | 41 | 43 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|--|-----------|----------------|----------------|-----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| SEER | °,L | W/W | 5,39 | 5,38 | 5,53 | 5,60 | 5,38 | 5,60 | 5,27 | 5,77 | 5,88 | 5,94 | 5,97 | 6,43 | 6,44 |
| Seasonal efficiency | °,L | % | 212,6% | 212,2% | 218,2% | 221,0% | 212,2% | 221,0% | 207.8% | 227,8% | 232,2% | 234,5% | 235,6% | 254,2% | 254,7% |
| SEPR - (EN 14825: 2018) High temperature (| 2) | | | | | | | | | | | | | | |
| SEPR | °,L | W/W | - | - | - | - | - | - | - | 7,03 | 7,06 | 7,06 | 7,03 | - | - |
| UE 813/2013 performance in average ambie | nt condit | tions (average | e) - 55 °C - P | designh ≤ | 400 kW (3) | | | | | | | | | | |
| Pdesignh | °,L | kW | 161 | 175 | 213 | 241 | 271 | 320 | 368 | - | - | - | - | - | - |
| SCOP | °,L | W/W | 4,95 | 4,93 | 4,95 | 4,93 | 4,93 | 4,90 | 4,80 | - | - | - | - | - | - |
| nsh | °,L | % | 190.0% | 189.0% | 190.0% | 189.0% | 189.0% | 188.0% | 184.0% | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.
(3) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

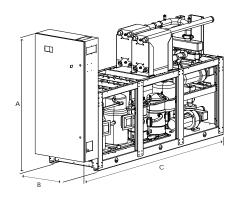
| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 75,0 | 80,0 | 96,0 | 107,0 | 122,0 | 146,0 | 169,0 | 193,0 | 217,0 | 231,0 | 248,0 | 267,0 | 296,0 |
| Peak current (LRA) | °,L | Α | 240,0 | 245,0 | 227,0 | 238,0 | 289,0 | 319,0 | 341,0 | 398,0 | 422,0 | 490,0 | 504,0 | 601,0 | 630,0 |

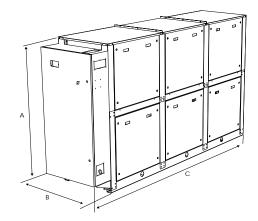
GENERAL TECHNICAL DATA

| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|---|-----|-------|--------|--------|-------|--------|-------|-------|---------------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Scroll | | | | | | |
| Compressor regulation | °,L | Туре | | | | | | | 0n-0ff | | | | | | |
| Number | °,L | no. | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Circuits | °,L | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | | | | | R410A | | | | | | |
| Refrigerant charge (1) | °,L | kg | 13,0 | 13,0 | 17,0 | 17,0 | 20,0 | 22,0 | 26,0 | 36,0 | 54,0 | 54,0 | 58,0 | 60,0 | 62,0 |
| Source side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Туре | | | | | | (| rooved joint | ts | | | | | |
| Size (in) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Size (out) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 1 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Type | | | | | | (| Grooved joint | ts | | | | | |
| Size (in) | °,L | Ø | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Size (out) | °,L | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" |
| Sound data calculated in cooling mode (2) | | | | | - | | | | | | | | | | |
| Canada a anna Ianal | 0 | dB(A) | 78,0 | 79,0 | 79,0 | 80,0 | 82,0 | 86,0 | 88,0 | 88,0 | 88,0 | 90,0 | 90,0 | 93,0 | 95,0 |
| Sound power level — | L | dB(A) | 72,0 | 73,0 | 73,0 | 74,0 | 76,0 | 80,0 | 82,0 | 82,0 | 82,0 | 84,0 | 84,0 | 86,0 | 87,0 |
| C d | 0 | dB(A) | 46,4 | 47,4 | 47,4 | 48,4 | 50,4 | 54,3 | 56,3 | 56,3 | 56,3 | 58,3 | 58,3 | 61,3 | 63,3 |
| Sound pressure level (10 m) | L | dB(A) | 40,3 | 41,3 | 41,3 | 42,3 | 44,3 | 48,3 | 50,3 | 50,3 | 50,3 | 52,3 | 52,3 | 54,3 | 55,3 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS





| Size | | | 0503 | 0553 | 0604 | 0654 | 0704 | 0754 | 0804 | 0904 | 1004 | 1254 | 1404 | 1504 | 1654 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| A | 0 | mm | 1835 | 1835 | 1835 | 1835 | 1835 | 1775 | 1775 | 1820 | 1820 | 1820 | 1820 | 1820 | 1820 |
| A | L | mm | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| В | °,L | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| (| ٥ | mm | 1795 | 1795 | 1795 | 1795 | 1795 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 |
| | L | mm | 2090 | 2090 | 2090 | 2090 | 2090 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 | 2420 |
| Emptyweight | 0 | kg | 628 | 633 | 734 | 743 | 791 | 948 | 1042 | 1275 | 1545 | 1577 | 1657 | 1687 | 1825 |
| Empty weight | L | kg | 801 | 805 | 907 | 915 | 963 | 1121 | 1240 | 1473 | 1743 | 1774 | 1855 | 1885 | 2023 |

The weight of the unit does not include the hydronic kit and accessories.



















WS 0601 - 2802



- · High efficiency all in Class A Eurovent
- Optimised for low condenser temperatures
- Optimised for geothermal applications
- Available also R513A (XP10) refrigerant gas

Water cooled heat pump reversible water side

Cooling capacity 147 ÷ 700 kW Heating capacity 164 ÷ 778 kW





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water from 4 to 16° C, and the possibility to produce negative temperature water (down to -6° C) on the evaporator and hot water (up to 50° C) on the condenser. (for more information, refer to the technical documentation).

Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop.

They are equipped with screw compressors and system and source side plate heat exchangers.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,L | • | • | • | • | • | | | | | | | | |
| AER485P1 x n° 2 (1) | °,L | | | | | | • | • | • | • | • | • | • | • |
| AERBACP | °,L | • | | • | | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | | | | • | | | | | • | • | • | | • |
| MULTICHILLER_EVO | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | °,L | • | | | • | • | | | • | • | • | | | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Evaporator: ° | | | | | | | | | | | | | |
| °,L | AVX651 | AVX651 | AVX652 | AVX652 | AVX656 | AVX658 | AVX658 | AVX658 | AVX659 | AVX667 | AVX661 | AVX661 | AVX661 |
| Evaporator: E | | | | | | | | | | | | | |
| °,L | AVX651 | AVX651 | AVX652 | AVX652 | AVX656 | AVX658 | AVX658 | AVX658 | AVX659 | AVX667 | AVX661 | AVX661 | AVX661 |

Power factor correction

| Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|-----|------|--------|--------|--------|--------|-----------|-----------|
| °,L | - | RIF161 | RIF161 | RIF201 | RIF241 | RIF161 x2 | RIF161 x2 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----|-----------|------------|---------------|-----------|-----------|-----------|
| °,L | RIF161 x2 | RIF201 x 2 | RIF201+RIF241 | RIF241 x2 | RIF301 x2 | RIF301 x2 |

A grey background indicates the accessory must be assembled in the factory

Acoustic kit

| Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|-----|---------|---------|---------|---------|---------|---------|---------|
| L | AKW (1) |

(1) Available only in low noise version
A grey background indicates the accessory must be assembled in the factory

| Ver | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----|---------|---------|---------|---------|---------|---------|
| L | AKW (1) |

(1) Available only in low noise version A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|---|
| 1,2 | WS |
| 3,4,5,6 | Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802 |
| 7 | Operating field |
| 0 | Standard mechanic thermostatic valve (1) |
| Х | Electronic thermostatic expansion valve (1) |
| Υ | Low temperature mechanic thermostatic valve (2) |
| Z | Low temperature electronic thermostatic valve (2) |
| 8 | Model |
| 0 | Heat pump reversible on the water side |
| 9 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery (4) |
| 10 | Version |
| 0 | Standard |

| Field | Description |
|-------|--|
| L | Standard silenced |
| 11 | Evaporator |
| 0 | Standard |
| Е | Evaporating unit (5) |
| 12 | Power supply |
| 0 | 400V ~ 3 50Hz with fuses |
| 2 | 230V ~ 3 50Hz with fuses |
| 4 | 230V ~ 3 50Hz with magnet circuit breakers |
| 5 | 500V ~ 3 50Hz with fuses |
| 8 | 400V ~ 3 50Hz with magnet circuit breakers |
| 9 | 500V ~ 3 50Hz with magnet circuit breakers |

(1) Water produced from 4 °C ÷ 16 °C
(2) Water produced from 4 °C ÷ -6 °C; for the avalability with the heat recovery we advise you to contact us
(3) In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.
(4) Option not available for condenserless unit.
(5) Shipped with holding charge only.

PERFORMANCE SPECIFICATIONS

WS - °/L

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 147,7 | 186,9 | 212,2 | 233,8 | 299,0 | 308,6 | 369,1 | 421,6 | 469,8 | 545,6 | 599,8 | 654,3 | 700,4 |
| Input power | °,L | kW | 29,1 | 36,6 | 81,8 | 46,0 | 58,7 | 605,6 | 72,8 | 83,2 | 92,7 | 106,7 | 117,2 | 128,1 | 136,8 |
| Cooling total input current | °,L | A | 56,0 | 67,0 | 74,0 | 83,0 | 95,0 | 110,0 | 133,0 | 149,0 | 167,0 | 179,0 | 190,0 | 219,0 | 235,0 |
| EER | °,L | W/W | 5,08 | 5,11 | 5,07 | 5,08 | 5,09 | 5,10 | 5,07 | 5,06 | 5,07 | 5,11 | 5,12 | 5,11 | 5,12 |
| Water flow rate source side | °,L | l/h | 30238 | 38269 | 43508 | 47922 | 61258 | 63078 | 75593 | 86332 | 96177 | 111478 | 122506 | 133608 | 142894 |
| Pressure drop source side | °,L | kPa | 33 | 23 | 22 | 22 | 25 | 47 | 36 | 39 | 43 | 48 | 52 | 58 | 65 |
| Water flow rate system side | °,L | l/h | 25421 | 32148 | 36495 | 40212 | 51431 | 53088 | 63476 | 72492 | 80788 | 93813 | 103143 | 112508 | 120438 |
| Pressure drop system side | °,L | kPa | 23 | 17 | 15 | 16 | 18 | 33 | 25 | 27 | 30 | 33 | 35 | 39 | 44 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | | | |
| Heating capacity | °,L | kW | 164,9 | 208,7 | 237,3 | 261,4 | 334,0 | 343,7 | 412,1 | 470,6 | 524,2 | 607,2 | 667,2 | 727,6 | 778,0 |
| Input power | °,L | kW | 36,8 | 46,3 | 52,9 | 58,1 | 74,2 | 76,9 | 92,2 | 105,5 | 117,7 | 135,5 | 148,8 | 162,8 | 174,1 |
| Heating total input current | °,L | A | 70,0 | 84,0 | 94,0 | 105,0 | 120,0 | 138,0 | 168,0 | 188,0 | 210,0 | 225,0 | 240,0 | 275,0 | 296,0 |
| COP | °,L | W/W | 4,48 | 4,51 | 4,49 | 4,50 | 4,50 | 4,47 | 4,47 | 4,46 | 4,46 | 4,48 | 4,48 | 4,47 | 4,47 |
| Water flow rate system side | °,L | l/h | 28611 | 36218 | 41197 | 45370 | 57987 | 59660 | 71552 | 81718 | 91025 | 105442 | 115854 | 126347 | 135087 |
| Pressure drop system side | °,L | kPa | 29 | 21 | 19 | 20 | 23 | 42 | 32 | 35 | 38 | 43 | 46 | 52 | 58 |
| Water flow rate source side | °,L | l/h | 37525 | 47456 | 53873 | 59360 | 75920 | 78366 | 93702 | 107011 | 119257 | 138485 | 152256 | 166081 | 177787 |
| Pressure drop source side | °,L | kPa | 49 | 37 | 33 | 34 | 39 | 73 | 54 | 59 | 65 | 72 | 77 | 85 | 96 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

Performance specifications Evaporating units

WS - E

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Evaporator: E | | | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 134,5 | 167,9 | 189,2 | 216,7 | 264,4 | 276,7 | 333,2 | 381,0 | 431,7 | 489,8 | 542,5 | 591,7 | 629,6 |
| Input power | °,L | kW | 34,7 | 42,2 | 48,2 | 55,0 | 67,0 | 69,3 | 84,4 | 96,5 | 109,9 | 122,0 | 134,1 | 146,8 | 157,0 |
| Cooling total input current | °,L | Α | 63,0 | 75,0 | 85,0 | 96,0 | 111,0 | 127,0 | 151,0 | 170,0 | 192,0 | 207,0 | 222,0 | 252,0 | 270,0 |
| EER | °,L | W/W | 3,88 | 3,98 | 3,92 | 3,94 | 3,94 | 3,99 | 3,95 | 3,95 | 3,93 | 4,01 | 4,05 | 4,03 | 4,01 |
| Water flow rate system side | °,L | l/h | 23108 | 28849 | 32512 | 37238 | 45248 | 47546 | 57251 | 65458 | 74169 | 84147 | 93212 | 101661 | 108175 |
| Pressure drop system side | °,L | kPa | 18 | 13 | 12 | 12 | 14 | 25 | 19 | 20 | 23 | 25 | 27 | 30 | 34 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---|---------------|-------------|----------------|-----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| SEER | °,L | W/W | 5,58 | 5,80 | 6,09 | 6,04 | 5,96 | 6,22 | 6,24 | 6,39 | 6,39 | 6,38 | 6,38 | 6,42 | 6,39 |
| Seasonal efficiency | °,L | % | 220,2% | 229,0% | 240,6% | 238.6% | 235,2% | 245,7% | 246,6% | 252,5% | 252,6% | 252,1% | 252,2% | 253,9% | 252,7% |
| SEPR - (EN 14825: 2018) High temperatur | e (2) | | | | | | | | | | | | | | |
| SEPR | °,L | W/W | - | - | - | - | 7,77 | 7,97 | 7,99 | 8,11 | 8,01 | 8,04 | 8,01 | 8,05 | 8,01 |
| UE 813/2013 performance in average am | bient conditi | ons (averag | e) - 35 °C - P | designh ≤ | 400 kW (3) | | | | | | | | | | |
| Pdesignh | °,L | kW | 229 | 290 | 330 | 363 | - | - | - | - | - | - | - | - | - |
| SCOP | °,L | W/W | 5,98 | 6,10 | 6,30 | 6,25 | - | - | - | - | - | - | - | - | - |
| ηsh | °,L | % | 231.0% | 236.0% | 244.0% | 242.0% | - | - | - | - | - | - | - | - | - |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with VARIABLE water flow rate.
(3) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

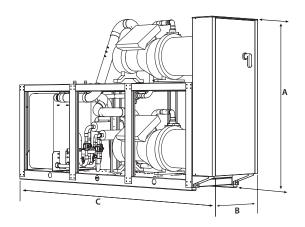
| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 90,7 | 98,0 | 112,0 | 128,0 | 156,0 | 168,0 | 196,0 | 224,0 | 256,0 | 284,0 | 312,0 | 354,0 | 380,0 |
| Peak current (LRA) | °,L | Α | 147,0 | 140,0 | 163,0 | 192,0 | 246,0 | 194,1 | 198,5 | 228,0 | 262,6 | 316,6 | 324,7 | 388,1 | 448,1 |

WS-0601-2802-HP-W_Y_UN50_08 706 www.aermec.com

GENERAL TECHNICAL DATA

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------------------------------|-----|-------|------|------|------|------|------|------|--------------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Screw | | | | | | |
| Compressor regulation | °,L | Туре | | | | | | | On-Off | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | - | - | | | R134a | | | | | | |
| Refrigerant charge (1) | °,L | kg | 18,0 | 22,0 | 22,0 | 25,0 | 38,0 | 36,0 | 42,0 | 44,0 | 50,0 | 59,0 | 68,0 | 70,0 | 80,0 |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side heat exchanger | | | | | - | - | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Туре | | | | | | (| Grooved join | ts | | | | | |
| Sizes (in/out) | °,L | Ø | | | - | - | | | 3" | | | | | | |
| Source side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Туре | | | - | - | | (| Grooved join | ts | | | | | |
| Sizes (in/out) | °,L | Ø | | | | | | | 3" | | | | | | |
| Sound data calculated in cooling mode | (2) | | | | | | | | | | | | | | |
| County and a county level | 0 | dB(A) | 86,1 | 86,8 | 87,1 | 87,8 | 87,1 | 89,1 | 89,8 | 90,1 | 90,8 | 90,5 | 90,1 | 91,3 | 91,8 |
| Sound power level | L | dB(A) | 78,1 | 78,8 | 79,1 | 79,9 | 78,1 | 81,1 | 81,8 | 82,1 | 82,9 | 82,1 | 81,1 | 83,4 | 84,1 |
| Second and the Land (10 and | 0 | dB(A) | 54,3 | 55,0 | 55,3 | 56,0 | 55,3 | 57,2 | 57,9 | 58,3 | 59,0 | 58,6 | 58,2 | 59,3 | 59,9 |
| Sound pressure level (10 m) | L | dB(A) | 46,3 | 47,0 | 47,3 | 48,1 | 46,3 | 49,2 | 50,0 | 50,2 | 51,0 | 50,2 | 49,2 | 51,5 | 52,2 |

DIMENSIONS



| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| <u> </u> | 0 | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 1975 | 1975 | 1975 | 2005 | 1985 | 2065 | 2065 | 2065 |
| A | L | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 |
| В | °,L | mm | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 |
| С | °,L | mm | 2960 | 2960 | 2960 | 2960 | 3360 | 2960 | 2960 | 2960 | 2960 | 3360 | 3360 | 3360 | 3360 |
| Faranta | 0 | kg | 1101 | 1251 | 1301 | 1357 | 1788 | 1738 | 2071 | 2140 | 2212 | 2648 | 3050 | 3131 | 3131 |
| Empty weight | L | kg | 1229 | 1379 | 1429 | 1485 | 1934 | 1966 | 2299 | 2368 | 2440 | 2905 | 3307 | 3388 | 3388 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).



















HWS 0601 - 2802

Water cooled heat pump reversible water side

Cooling capacity 147 ÷ 369 kW Heating capacity 165 ÷ 778 kW



- High efficiency all in Class A Eurovent
- Unit optimised for high condenser temperatures.
- Optimised for geothermal applications
- Available also R513A (XP10) refrigerant gas





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water 4-16 $^{\circ}$ C, and the possibility to produce also hot water for the condenser up to 60 $^{\circ}$ C. (for more information, refer to the technical documentation).

Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop.

They are equipped with screw compressors and system and source side plate heat exchangers.

Integral acoustic enclosure

For all versions, if required, it is available the integral acoustic enclosure, which can further reduce the sound level.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration The presence of a programmable timer allows functioning time periods and a possible second set-point to be set. The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

708 www.aermec.com HWS-0601-2802-HP-W_Y_CE50_07

ACCESSORIES COMPATIBILITY

| Model | Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,L | • | • | • | • | • | | | | | | | | |
| AER485P1 x n° 2 (1) | °,L | | | | | | • | • | | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | °,L | | • | • | • | • | • | • | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Version | Heat recovery | Evaporator | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|---------|---------------|------------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 0 | 0 | AVX651 | AVX651 | AVX652 | AVX652 | AVX656 | AVX658 | AVX658 |
| 0 | °,D | E | - | AVX668 | AVX668 | AVX668 | AVX669 | - | AVX670 |
| 0 | D | ٥ | - | AVX651 | AVX652 | AVX652 | AVX654 | AVX658 | AVX658 |
| 0 | T | ٥ | - | AVX652 | AVX655 | AVX655 | AVX657 | - | AVX662 |
| L | 0 | 0 | AVX651 | AVX651 | AVX652 | AVX652 | AVX656 | AVX658 | AVX658 |
| L | °,D | E | - | AVX668 | AVX668 | AVX668 | AVX669 | - | AVX670 |
| L | D | ٥ | - | AVX651 | AVX652 | AVX652 | AVX654 | AVX658 | AVX658 |
| L | T | 0 | - | AVX652 | AVX655 | AVX655 | AVX657 | - | AVX662 |

| Version | Heat recovery | Evaporator | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------|---------------|------------|--------|--------|--------|--------|--------|--------|
| 0 | 0 | 0 | AVX658 | AVX659 | AVX667 | AVX661 | AVX661 | AVX661 |
| 0 | 0 | E | AVX670 | AVX670 | AVX671 | AVX672 | AVX672 | AVX672 |
| 0 | D | °,E | - | - | - | - | - | - |
| 0 | T | 0 | - | - | - | - | - | - |
| L | 0 | 0 | AVX658 | AVX659 | AVX667 | AVX661 | AVX661 | AVX661 |
| L | 0 | E | AVX670 | AVX670 | AVX671 | AVX672 | AVX672 | AVX672 |
| L | D | °,E | - | - | - | - | - | - |
| L | Ţ | 0 | - | - | - | - | - | - |

⁻ not available

Power factor correction

| Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|-----|------|--------|--------|--------|--------|------|-----------|
| °,L | - | RIF161 | RIF161 | RIF201 | RIF241 | - | RIF161 x2 |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

| Ver | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----|-----------|------------|---------------|-----------|-----------|-----------|
| °,L | RIF161 x2 | RIF201 x 2 | RIF201+RIF241 | RIF241 x2 | RIF301 x2 | RIF301 x2 |

A grey background indicates the accessory must be assembled in the factory

Acoustic kit

| Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| L | AKW (1) |

⁽¹⁾ Available only in low noise version

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|---|
| 1,2,3 | HWS |
| 4,5,6,7 | Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve |
| Х | Electronic thermostatic expansion valve |
| 9 | Model |
| 0 | Heat pump reversible on the water side |
| 10 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (1) |
| T | With total recovery (2) |
| 11 | Version |
| 0 | Standard |
| L | Standard silenced |

| Field | Description |
|-------|--|
| 12 | Evaporator |
| 0 | Standard |
| Е | Evaporating unit (3) |
| 13 | Power supply |
| 0 | 400V ~ 3 50Hz with fuses |
| 2 | 230V ~ 3 50Hz with fuses |
| 4 | 230V ~ 3 50Hz with magnet circuit breakers |
| 5 | 500V ~ 3 50Hz with fuses |
| 8 | 400V ~ 3 50Hz with magnet circuit breakers |
| 9 | 500V ~ 3 50Hz with magnet circuit breakers |

- In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet. The desuperheater is not available for size for 0601 to 1202 and from 1602 to 2802.
 The desuperheater and total recovery are not available for sizes 0601 and 1202 and size up 1602 to 2802; T are not compatible with E
 Shipped with holding charge only. Option not available for size 0601 and 1202.

PERFORMANCE SPECIFICATIONS

HWS - °/L

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | |
| Cooling capacity | °,L | kW | 146,7 | 178,8 | 212,7 | 233,7 | 293,7 | 293,7 | 356,6 |
| Input power | °,L | kW | 31,7 | 38,0 | 43,2 | 49,2 | 59,7 | 63,5 | 76,8 |
| Cooling total input current | °,L | A | 56,0 | 66,0 | 74,0 | 82,0 | 101,0 | 112,0 | 132,0 |
| EER | °,L | W/W | 4,63 | 4,70 | 4,92 | 4,75 | 4,92 | 4,62 | 4,64 |
| Water flow rate source side | °,L | l/h | 30474 | 37085 | 43795 | 48419 | 60454 | 60948 | 73996 |
| Pressure drop source side | °,L | kPa | 40 | 27 | 27 | 26 | 31 | 53 | 50 |
| Water flow rate system side | °,L | l/h | 25256 | 30754 | 36596 | 40204 | 50513 | 50513 | 61337 |
| Pressure drop system side | °,L | kPa | 29 | 20 | 20 | 19 | 23 | 38 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | |
| Heating capacity | °,L | kW | 163,9 | 199,3 | 234,8 | 260,1 | 324,0 | 327,5 | 397,5 |
| Input power | °,L | kW | 38,0 | 45,4 | 51,6 | 58,8 | 71,4 | 76,3 | 92,2 |
| Heating total input current | °,L | A | 66,0 | 78,0 | 88,0 | 97,0 | 120,0 | 133,0 | 157,0 |
| COP | °,L | W/W | 4,31 | 4,39 | 4,55 | 4,42 | 4,54 | 4,29 | 4,31 |
| Water flow rate source side | °,L | l/h | 36968 | 45016 | 53566 | 58847 | 73936 | 73936 | 89780 |
| Pressure drop source side | °,L | kPa | 62 | 43 | 43 | 41 | 49 | 81 | 77 |
| Water flow rate system side | °,L | l/h | 28421 | 34581 | 40752 | 45134 | 56255 | 56843 | 69010 |
| Pressure drop system side | °,L | kPa | 35 | 23 | 23 | 23 | 27 | 46 | 43 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

| Size | | | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|--------------------------------------|-----|-----|--------|--------|--------|--------|--------|--------|
| Heating performance 40 °C / 45 °C (1 |) | | | | | | | |
| Heating capacity | °,L | kW | 465,7 | 522,8 | 584,8 | 646,9 | 730,9 | 799,6 |
| Input power | °,L | kW | 104,0 | 121,3 | 133,2 | 145,1 | 165,9 | 181,5 |
| Heating total input current | °,L | A | 176,0 | 195,0 | 218,0 | 241,0 | 277,0 | 280,0 |
| COP | °,L | W/W | 4,48 | 4,31 | 4,39 | 4,46 | 4,41 | 4,40 |
| Water flow rate source side | °,L | l/h | 106378 | 118198 | 133036 | 147873 | 166735 | 182932 |
| Pressure drop source side | °,L | kPa | 86 | 88 | 96 | 103 | 114 | 137 |
| Water flow rate system side | °,L | l/h | 80851 | 90770 | 101543 | 112315 | 126902 | 138328 |
| Pressure drop system side | °,L | kPa | 48 | 50 | 54 | 58 | 65 | 79 |

⁽¹⁾ Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Performance specifications Evaporating units

HWS - E

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----------------------------------|-----|-----|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|--------|
| Evaporator: E | | | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | - | 163,0 | 192,0 | 212,0 | 263,0 | - | 326,0 | 385,0 | 428,0 | 481,0 | 539,0 | 601,0 | 676,0 |
| Input power | °,L | kW | - | 41,0 | 47,0 | 54,0 | 66,0 | - | 82,0 | 93,0 | 108,0 | 120,0 | 132,0 | 146,0 | 159,0 |
| Cooling total input current | °,L | А | - | 72,0 | 81,0 | 90,0 | 113,0 | - | 144,0 | 162,0 | 180,0 | 204,0 | 226,0 | 254,0 | 272,0 |
| EER | °,L | W/W | - | 3,98 | 4,09 | 3,93 | 3,98 | - | 3,98 | 4,14 | 3,96 | 4,01 | 4,08 | 4,12 | 4,25 |
| Water flow rate system side | °,L | l/h | - | 28005 | 32988 | 36424 | 45186 | - | 56011 | 66147 | 73535 | 82641 | 92606 | 103259 | 116144 |
| Pressure drop system side | °,L | kPa | - | 20 | 20 | 19 | 23 | - | 36 | 40 | 41 | 45 | 48 | 53 | 62 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 |
|--------------------------------------|------------------|----------------------|----------------------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | |
| SEER | °,L | W/W | 5,01 | 5,28 | 5,57 | 5,43 | 5,59 | 5,36 | 5,42 |
| Seasonal efficiency | °,L | % | 197,4% | 208,2% | 219.8% | 214.2% | 220,6% | 211,4% | 213,6% |
| UE 813/2013 performance in average a | mbient conditior | ıs (average) - 55 °(| C - Pdesignh ≤ 400 k | (W (2) | | | | | |
| Pdesignh | °,L | kW | 215 | 257 | 293 | 330 | - | - | - |
| SCOP | °,L | W/W | 4,55 | 4,60 | 4,73 | 4,58 | - | - | - |
| ηsh | °,L | % | 174.0% | 176.0% | 181.0% | 175.0% | - | - | - |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

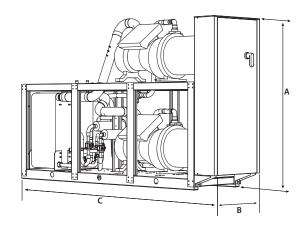
| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 105,0 | 124,0 | 144,0 | 162,0 | 182,0 | 210,0 | 248,0 | 288,0 | 324,0 | 344,0 | 364,0 | 430,0 | 430,0 |
| Peak current (LRA) | °,L | Α | 180,0 | 163,0 | 192,0 | 229,0 | 300,0 | 285,0 | 287,0 | 336,0 | 391,0 | 462,0 | 482,0 | 575,0 | 575,0 |

GENERAL TECHNICAL DATA

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---|-----|-------|------|------|------|------|------|------|--------------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Screw | | | | | | |
| Compressor regulation | °,L | Туре | | | | | | | 0n-0ff | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | | | | | R134a | | | | | | |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Туре | | | | | | (| Grooved join | ts | | | | | |
| Sizes (in/out) | °,L | Ø | | | | | | | 3″ | | | | | | |
| Source side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Туре | | | | | | (| Grooved join | ts | | | | | |
| Sizes (in/out) | °,L | Ø | | | | | | | 3″ | | | | | | |
| Sound data calculated in cooling mode (| I) | | | | | | | | | | | | | | |
| Carrad manusar larval | 0 | dB(A) | 85,0 | 86,0 | 86,0 | 86,0 | 92,0 | 88,0 | 89,0 | 89,0 | 89,0 | 93,0 | 95,0 | 95,0 | 95,0 |
| Sound power level | L | dB(A) | 77,0 | 78,0 | 78,0 | 78,0 | 84,0 | 80,0 | 81,0 | 81,0 | 81,0 | 85,0 | 87,0 | 87,0 | 87,0 |
| C d (10) | 0 | dB(A) | 53,2 | 54,2 | 54,2 | 54,2 | 60,2 | 56,2 | 57,2 | 57,2 | 57,2 | 61,1 | 63,1 | 63,1 | 63,1 |
| Sound pressure level (10 m) | L | dB(A) | 45,2 | 46,2 | 46,2 | 46,2 | 52,2 | 48,1 | 49,1 | 49,1 | 49,1 | 53,1 | 55,1 | 55,1 | 55,1 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| Α | ٥ | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 1975 | 1975 | 1975 | 2005 | 1985 | 2065 | 2065 | 2065 |
| | L | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 |
| В | °,L | mm | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 |
| C | °,L | mm | 2960 | 2960 | 2960 | 2960 | 3360 | 2960 | 2960 | 2960 | 2960 | 3360 | 3360 | 3360 | 3360 |
| Empty weight | °,L | kg | 1101 | 1251 | 1301 | 1357 | 1788 | 1738 | 2028 | 2097 | 2169 | 2598 | 3000 | 3095 | 3095 |

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HWSG



- Use of the new ecological gas R1234ze
- Unit optimised for high condenser temperatures.
- Production of hot water from condenser up to 65° C.



Cooling capacity 110 ÷ 396 kW Heating capacity 122 ÷ 595 kW





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Production of chilled water up to 4°C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 65°C .

Units mono or dual-circuit

Depending on the size, the units are one-circuit or two-circuit models to ensure maximum efficiency with full loads as well as partial loads and guarantee operation continuity if one of the circuits stop.

They are equipped with screw compressors and system and source side plate heat exchangers dedicated to use of the new HFO R1234ze gas.

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430, with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL

pCO⁵ control type

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-RUS protocol

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,L | • | • | • | • | • | | | | | | | | |
| AER485P1 x n° 2 (1) | °,L | | | | | | • | • | | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PRV3 | °,L | | • | • | • | • | • | • | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| /er | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| °,L | AVX651 | AVX651 | AVX652 | AVX652 | AVX656 | AVX658 | AVX658 | AVX658 | AVX659 | AVX667 | AVX661 | AVX661 | AVX661 |

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3,4 | HWSG |
| 5,6,7,8 | Size 0601, 0701, 0801, 0901, 1101, 1202, 1402, 1602, 1802, 2002, 2202, 2502, 2802 |
| 9 | Operating field |
| X | Electronic thermostatic expansion valve (1) |
| Z | Low temperature electronic thermostatic valve (2) |
| 10 | Model |
| 0 | Optimised for high condenser temperatures |
| 11 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery (3) |
| 12 | Version |
| 0 | Standard |
| L | Standard silenced |
| 13 | Evaporator |
| 0 | Standard |
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with fuses |

⁽¹⁾ Water produced from $4 \,^{\circ}\text{C} \div 16 \,^{\circ}\text{C}$ (2) Water produced from $-5 \,^{\circ}\text{C} \div 4 \,^{\circ}\text{C}$ (3) Order management

PERFORMANCE SPECIFICATIONS

HWSG - °/L

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | |
| Cooling capacity | °,L | kW | 110,5 | 135,1 | 156,5 | 176,0 | 215,8 | 221,7 | 271,4 | 315,9 | 354,9 | 396,8 |
| Input power | °,L | kW | 23,2 | 27,7 | 31,3 | 35,6 | 43,2 | 46,2 | 57,0 | 63,9 | 73,6 | 80,7 |
| Cooling total input current | °,L | А | 48,0 | 55,0 | 61,0 | 66,0 | 82,0 | 96,0 | 111,0 | 122,0 | 132,0 | 149,0 |
| EER | °,L | W/W | 4,77 | 4,87 | 5,00 | 4,94 | 4,99 | 4,80 | 4,76 | 4,94 | 4,82 | 4,92 |
| Water flow rate system side | °,L | l/h | 19007 | 23236 | 26907 | 30255 | 37102 | 38143 | 46690 | 54329 | 61030 | 68240 |
| Pressure drop system side | °,L | kPa | 16 | 11 | 10 | 11 | 12 | 24 | 32 | 21 | 23 | 25 |
| Water flow rate source side | °,L | l/h | 22875 | 27903 | 32183 | 36261 | 44378 | 45808 | 56089 | 64986 | 73289 | 81668 |
| Pressure drop source side | °,L | kPa | 23 | 16 | 15 | 15 | 17 | 34 | 47 | 31 | 34 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | |
| Heating capacity | °,L | kW | 122,8 | 149,7 | 172,4 | 194,4 | 237,8 | 245,8 | 301,0 | 348,2 | 393,1 | 437,6 |
| Input power | °,L | kW | 27,7 | 33,1 | 37,3 | 42,5 | 51,6 | 55,2 | 68,3 | 76,4 | 88,0 | 96,5 |
| Heating total input current | °,L | А | 58,0 | 65,0 | 72,0 | 78,0 | 97,0 | 114,0 | 131,0 | 145,0 | 157,0 | 176,0 |
| COP | °,L | W/W | 4,43 | 4,52 | 4,62 | 4,57 | 4,61 | 4,45 | 4,41 | 4,56 | 4,47 | 4,53 |
| Water flow rate system side | °,L | l/h | 21319 | 25989 | 29942 | 33756 | 41288 | 42668 | 52248 | 60463 | 68263 | 75995 |
| Pressure drop system side | °,L | kPa | 20 | 14 | 13 | 13 | 15 | 29 | 41 | 27 | 30 | 31 |
| Water flow rate source side | °,L | l/h | 27820 | 34012 | 39384 | 44285 | 54307 | 55832 | 68342 | 79522 | 89331 | 99885 |
| Pressure drop source side | °,L | kPa | 35 | 24 | 22 | 23 | 26 | 50 | 69 | 46 | 50 | 54 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

| Size | | | 2202 | 2502 | 2802 |
|---------------------------------------|-----|-----|--------|--------|--------|
| Heating performance 40 °C / 45 °C (1) |) | | | | |
| Heating capacity | °,L | kW | 488,6 | 540,8 | 595,5 |
| Input power | °,L | kW | 106,1 | 119,3 | 131,9 |
| Heating total input current | °,L | A | 196,0 | 225,0 | 240,0 |
| COP | °,L | W/W | 4,60 | 4,53 | 4,52 |
| Water flow rate system side | °,L | l/h | 84852 | 93902 | 103410 |
| Pressure drop system side | °,L | kPa | 34 | 37 | 45 |
| Water flow rate source side | °,L | l/h | 112042 | 123541 | 136133 |

Pressure drop source side ',L kf
(1) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 |
|--------------------------------------|-----------------|----------------|----------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | |
| Seasonal efficiency | °,L | % | 205,9% | 214,4% | 222,6% | 221,7% | 221,9% | 210,8% | 211,5% | 228,3% | 223,0% | 226,4% |
| SEER | °,L | W/W | 5,22 | 5,44 | 5,64 | 5,62 | 5,62 | 5,35 | 5,36 | 5,78 | 5,65 | 5,74 |
| UE 813/2013 performance in average a | mbient conditio | ns (average) - | 55 °C - Pdesig | nh ≤ 400 kW (| 2) | | | | | | | |
| Pdesignh | °,L | kW | 155 | 188 | 217 | 245 | 299 | 309 | 379 | - | - | - |
| SCOP | °,L | W/W | 4,52 | 4,62 | 4,72 | 4,69 | 4,69 | 4,63 | 4,60 | - | - | - |
| ηsh | °,L | % | 173.0% | 177.0% | 181.0% | 179.0% | 181.0% | 177.0% | 176.0% | - | - | - |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

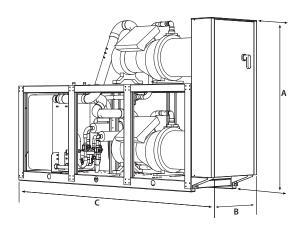
| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 75,6 | 95,6 | 104,4 | 115,9 | 143,2 | 151,2 | 191,2 | 208,8 | 231,8 | 259,1 | 286,4 | 323,8 | 352,0 |
| Peak current (LRA) | °,L | A | 180,0 | 163,0 | 192,0 | 229,0 | 267,0 | 255,6 | 258,6 | 296,4 | 344,9 | 372,2 | 410,2 | 475,9 | 490,0 |

GENERAL TECHNICAL DATA

| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|---|-----|-------|------|------|------|------|------|------|--------------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Screw | | | | | | |
| Compressor regulation | °,L | Туре | | | | | | | On/Off | | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | °,L | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | °,L | type | | | | | | | R1234ze | | | | | | |
| Refrigerant load circuit 1 (1) | °,L | kg | 18,0 | 20,0 | 22,0 | 25,0 | 38,0 | 18,0 | 20,5 | 21,5 | 25,0 | 25,0 | 33,0 | 35,0 | 39,0 |
| Refrigerant load circuit 2 (1) | °,L | kg | - | - | - | - | - | 18,0 | 20,0 | 22,0 | 25,0 | 30,0 | 18,0 | 20,5 | 21,5 |
| System side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side heat exchanger | | | | | | | | | | | | | | | |
| Туре | °,L | type | | | | | | | Brazed plate | 2 | | | | | |
| Number | °,L | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| System side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Type | | | | | | (| Grooved join | ts | | | | | |
| Size (in) (2) | °,L | Ø | | | | | | | 3″ | | | | | | |
| Size (out) (2) | °,L | Ø | | | | | | | 3″ | | | | | | |
| Source side hydraulic connections | | | | | | | | | | | | | | | |
| Connections (in/out) | °,L | Туре | | | | | | (| Grooved join | ts | | | | | |
| Size (in) | °,L | Ø | | | | | | | 3" | | | | | | |
| Size (out) | °,L | Ø | | | | | | | 3″ | | | | | | |
| Sound data calculated in cooling mode (| 3) | | | | | | | | | | | | | | |
| Count manual and | 0 | dB(A) | 87,0 | 86,0 | 86,0 | 86,0 | 92,0 | 89,0 | 90,0 | 89,0 | 89,0 | 93,0 | 95,0 | 95,0 | 95,0 |
| Sound power level | L | dB(A) | 78,9 | 78,0 | 78,0 | 78,0 | 84,0 | 81,0 | 81,9 | 81,0 | 81,0 | 85,0 | 87,0 | 87,0 | 87,0 |
| County and a second (10 mg) | 0 | dB(A) | 55,2 | 54,2 | 54,2 | 54,2 | 60,2 | 57,2 | 58,1 | 57,2 | 57,2 | 61,1 | 63,1 | 63,1 | 63,1 |
| Sound pressure level (10 m) | L | dB(A) | 47,1 | 46,2 | 46,2 | 46,2 | 52,2 | 49,1 | 50,0 | 49,1 | 49,1 | 53,1 | 55,1 | 55,1 | 55,1 |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

DIMENSIONS



| Size | | | 0601 | 0701 | 0801 | 0901 | 1101 | 1202 | 1402 | 1602 | 1802 | 2002 | 2202 | 2502 | 2802 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | | |
| <u> </u> | 0 | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 1975 | 1975 | 1975 | 2005 | 1985 | 2065 | 2065 | 2065 |
| A | L | mm | 1775 | 1775 | 1775 | 1775 | 1775 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 |
| В | °,L | mm | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 |
| (| °,L | mm | 2960 | 2960 | 2960 | 2960 | 3360 | 2960 | 2960 | 2960 | 2960 | 3360 | 3360 | 3360 | 3360 |
| Emptyweight | 0 | kg | 1101 | 1251 | 1301 | 1357 | 1788 | 1738 | 2028 | 2097 | 2169 | 2598 | 3000 | 3095 | 3095 |
| Empty weight | L | kg | 1229 | 1379 | 1429 | 1485 | 1934 | 1966 | 2256 | 2325 | 2397 | 2855 | 3257 | 3352 | 3352 |

 $\label{lem:continuous} \mbox{Aermec reserves the right to make any modifications deemed necessary.}$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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⁽²⁾ Size
(3) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

















WSH

- Reversing valve
- Optional electronic expansion valve which allows: cooling down to -6 °C
- Modulating capacity control 25-100%



Cooling capacity 165,8 ÷ 269,7 kW Heating capacity 183,3 ÷ 300,3 kW





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

High-efficiency screw compressors, with silent functioning and with cooling capacity adjustment via continuous modulation from 40 to 100%. (25-100% with electronic valve OPTION which is to be requested when placing the order)

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Full-load operation with the production of chilled water 4-16 °C, and the possibility to produce also negative temperature water down to -6 °C for the evaporator and hot water for the condenser up to 55 °C. (for more information, refer to the technical documentation).

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP. SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

AKW: Acoustic kit that lowers the noise level even further, thanks to the special coating on the panelling or on those components that produce the most noise in the unit. Available for the low noise version only.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0701 | 0801 | 0901 | 1101 |
|------------------|-----|------|------|------|------|
| AER485P1 | °,L | • | • | • | • |
| AERBACP | °,L | • | • | • | • |
| AERNET | °,L | • | • | • | • |
| MULTICHILLER_EVO | °,L | • | • | | • |
| PRV3 | °,L | • | • | • | • |

Antivibration

| Ver | 0701 | 0801 | 0901 | 1101 |
|-----|--------|--------|--------|--------|
| °,L | AVX665 | AVX665 | AVX665 | AVX666 |

Power factor correction

| Ver | 0701 | 0801 | 0901 | 1101 |
|-----|--------|--------|--------|--------|
| °,L | RIF161 | RIF161 | RIF201 | RIF241 |

A grey background indicates the accessory must be assembled in the factory

Acoustic kit

| Ver | 0701 | 0801 | 0901 | 1101 |
|-----|---------|---------|---------|---------|
| L | AKW (1) | AKW (1) | AKW (1) | AKW (1) |

(1) Available only in low noise version
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Description |
|---|
| WSH |
| Size 0701, 0801, 0901, 1101 |
| Operating field |
| Standard mechanic thermostatic valve (1) |
| Low temperature electronic thermostatic valve (2) |
| Model |
| Reversible heat pump, gas side |
| Heat recovery |
| Without heat recovery |
| With desuperheater (3) |
| Version |
| Standard |
| Standard silenced |
| Condenser |
| PED regulation |
| Power supply |
| 400V ~ 3 50Hz |
| 230V ~ 3 50Hz with fuses |
| 230V ~ 3 50Hz with magnet circuit breakers |
| 500V ~ 3 50Hz with fuses |
| 400V ~ 3 50Hz with magnet circuit breakers |
| 500V ~ 3 50Hz with magnet circuit breakers |
| |

Water produced up to +4 °C
 Water produced up to +4 °C. For different temperature please contact the factory.
 In cooling mode, a water temperature no lower than 35°C must always be guaranteed on the heat exchanger inlet.

PERFORMANCE SPECIFICATIONS

WSH - °/L

| Size | | | 0701 | 0801 | 0901 | 1101 |
|--------------------------------------|-----|-----|-------|-------|-------|-------|
| Cooling performance 12 °C/7 °C(1) | | | | | | |
| Cooling capacity | °,L | kW | 165,8 | 195,7 | 216,7 | 269,7 |
| Input power | °,L | kW | 37,1 | 42,3 | 48,3 | 58,8 |
| Cooling total input current | °,L | A | 65,0 | 73,0 | 81,0 | 100,0 |
| EER | °,L | W/W | 4,47 | 4,63 | 4,48 | 4,59 |
| Water flow rate source side | °,L | l/h | 34669 | 40687 | 45310 | 56133 |
| Pressure drop source side | °,L | kPa | 30 | 31 | 30 | 36 |
| Water flow rate system side | °,L | l/h | 28521 | 33675 | 37283 | 46389 |
| Pressure drop system side | °,L | kPa | 23 | 24 | 22 | 27 |
| Heating performance 40 °C / 45 °C (2 | 2) | | | | | |
| Heating capacity | °,L | kW | 183,3 | 210,3 | 237,3 | 300,3 |
| Input power | °,L | kW | 45,4 | 51,6 | 58,7 | 74,4 |
| Heating total input current | °,L | А | 81,0 | 91,0 | 101,0 | 131,0 |
| COP | °,L | W/W | 4,04 | 4,08 | 4,05 | 4,03 |
| Water flow rate source side | °,L | l/h | 40419 | 46517 | 52342 | 66297 |
| Pressure drop source side | °,L | kPa | 42 | 42 | 39 | 51 |
| Water flow rate system side | °,L | l/h | 31805 | 36498 | 41190 | 52140 |
| Pressure drop system side | °,L | kPa | 24 | 23 | 23 | 29 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0701 | 0801 | 0901 | 1101 | | | | | |
|---------------------------------|---|-----|--------|--------|--------|--------|--|--|--|--|--|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | |
| SEER | °,L | W/W | 5,04 | 5,47 | 5,29 | 5,11 | | | | | |
| Seasonal efficiency | °,L | % | 198,6% | 215,8% | 208.6% | 201,3% | | | | | |
| UE 813/2013 performance in aver | UE 813/2013 performance in average ambient conditions (average) - 55 °C - Pdesignh ≤ 400 kW (2) | | | | | | | | | | |
| Pdesignh | °,L | kW | 249 | 285 | 322 | - | | | | | |
| SCOP | °,L | W/W | 4,20 | 4,25 | 4,23 | - | | | | | |
| ηsh | °,L | % | 160.0% | 162.0% | 161.0% | - | | | | | |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

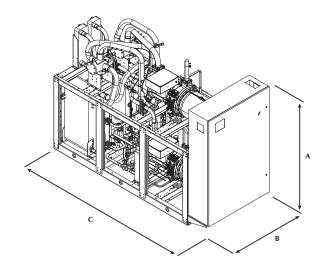
| Size | | | 0701 | 0801 | 0901 | 1101 |
|-----------------------|-----|---|-------|-------|-------|-------|
| Electric data | | | | | | |
| Maximum current (FLA) | °,L | A | 124,0 | 144,0 | 162,0 | 182,0 |
| Peak current (LRA) | °,L | A | 163,0 | 192,0 | 229,0 | 300,0 |

GENERAL TECHNICAL DATA

| Size | · | · | 0701 | 0801 | 0901 | 1101 |
|------------------------------------|---------|-------|------|--------|-----------|------|
| Compressor | | | | | | |
| Туре | °,L | type | | Bi- | vite | |
| Compressor regulation | °,L | Туре | | On | -Off | |
| Number | °,L | no. | 1 | 1 | 1 | 1 |
| Circuits | °,L | no. | 1 | 1 | 1 | 1 |
| Refrigerant | °,L | type | | R1 | 34a | |
| System side heat exchanger | | | | | | |
| Туре | °,L | type | | Braze | d plate | |
| Number | °,L | no. | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Туре | | Groove | ed joints | |
| Sizes (in/out) | °,L | Ø | | | 3" | |
| Source side heat exchanger | | | | | | |
| Туре | °,L | type | | Braze | d plate | |
| Number | °,L | no. | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,L | Туре | | Groove | ed joints | |
| Sizes (in/out) | °,L | Ø | | | 3" | |
| Sound data calculated in cooling m | ode (1) | | | | | |
| Causad manuar laural | 0 | dB(A) | 86,0 | 86,0 | 86,0 | 92,0 |
| Sound power level | L | dB(A) | 78,0 | 78,0 | 78,0 | 84,0 |
| C | 0 | dB(A) | 54,1 | 54,1 | 54,1 | 60,1 |
| Sound pressure level (10 m) | L | dB(A) | 46,1 | 46,1 | 46,1 | 52,1 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0701 | 0801 | 0901 | 1101 |
|------------------------|-----|----|------|------|------|------|
| Dimensions and weights | | | | | | |
| A | 0 | mm | 2050 | 2050 | 2050 | 2050 |
| A | L | mm | 2120 | 2120 | 2120 | 2120 |
| В | °,L | mm | 809 | 809 | 809 | 809 |
| С | °,L | mm | 2960 | 2960 | 2960 | 3360 |
| Empty weight | 0 | kg | 1391 | 1443 | 1506 | 1946 |
| Empty weight | L | kg | 1622 | 1674 | 1737 | 2206 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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WFGI

Water cooled heat pump reversible water side

Cooling capacity 217 ÷ 1765 kW Heating capacity 243 ÷ 1960 kW



- Production of hot water from condenser up to 65° C.
- Production of chilled water down to -8°C





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 20 $^{\circ}$ C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 65 $^{\circ}$ C depending on the model.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Mono, bi-tri circuit unit

Unit with 1-2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

All units are equipped with an inverter compressor combined with an on-off compressor (two-circuit sizes) or two on/off compressors (three-circuit sizes), with R1234ze (A2L) refrigerant.

The R515B refrigerant with this type of gas is also available on the configurator. Performances do not vary when the refrigerant gas available on the configurator varies.

For further details refer to the technical documentation or to the Magellano selection program.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ISG: Insulation kit for condensers. Mandatory accessory for machine functioning in heat pump; standard in units with desuperheater or with heat recovery.

ACCESSORIES COMPATIBILITY

| Model | Ver | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A | • | • | • | • | • | • | • | | • | | • | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A | | | | | | | | • | | • | | • | • | • | • | • | • | | | | |
| AER485P1 x n° 3 (1) | °,A | | | | | | | | | | | | | | | | | | • | | • | • |
| AFDDACD | ٥ | | | | | | | | | | | | | | | | | | | | | |
| AERBACP | A | | | • | • | • | | • | | | • | • | • | • | | | • | • | • | • | • | |
| AFDNIFT | ٥ | | | | | | | | | | | | | | | | | | • | | | |
| AERNET | A | | • | • | • | • | • | | | • | | • | | | | | | | | | | |
| AERSET | A | | • | • | • | • | • | | | • | • | • | • | | | | • | • | • | • | | • |
| MULTICUULED EVO | 0 | | | | | | | | | | | | | | | | | | • | • | • | • |
| MULTICHILLER_EVO | A | | • | • | • | • | | | • | • | • | • | • | | | • | • | | • | • | | • |
| DCD1 | 0 | | | | | | | | | | | | | | | | | | • | | | |
| PGD1 | A | | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ x Indicates the quantity of accessories to match.

Antivibration

| minivioral | ion | | | | | | | | | | | | |
|------------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|-------------|-------------|-------------|-------------|
| Version | Set-up | Heat recovery | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
| 0 | °,L | °,D,T | - | - | - | - | - | - | - | - | - | - | - |
| Α | 0 | 0 | AVX680 | AVX680 | AVX681 | AVX687 | AVX687 | AVX682 | AVX685 | AVX673 | AVX683 | AVX674 | AVX683 |
| Α | L | 0 | AVX681 | AVX681 | AVX681 | AVX682 | AVX682 | AVX682 | AVX683 | AVX674 | AVX683 | AVX674 | AVX683 |
| A | °,L | D,T | - | - | - | - | - | - | - | AVX674 | - | AVX674 | - |
| Version | Set-up | Heat recovery | 3202 | 3602 | 4202 | 480 |)2 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| 0 | °,L | °,D,T | - | - | - | - | | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | ٥ | °,D | AVX679 | AVX679 | AVX679 | AVX6 | 578 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | L | ٥ | AVX679 | AVX679 | AVX679 | AVX6 | 578 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |

AVX678

AVX678

AVX678

AVX678

AVX678

AVX678

Contact us.

Power factor correction

| Ver | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
|-----|------|------|------|------|------|------|------|------------|------|------------|------|
| A | - | - | - | - | - | - | - | RIFWFI2502 | - | RIFWFI2802 | - |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

D,T

| _ | Ver | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 0 | - | - | - | - | - | - | RIFWFI6703 | RIFWFI7203 | RIFWFI8403 | RIFWFI9603 |
| | A | RIFWFI3202 | RIFWFI3602 | RIFWFI4202 | RIFWFI4802 | RIFWFI5602 | RIFWFI6402 | RIFWFI6703 | RIFWFI7203 | RIFWFI8403 | RIFWFI9603 |

A grey background indicates the accessory must be assembled in the factory

For the size of the units with the RIF accessory we ask you to contact the headquarters.

AVX679

AVX679

AVX679

AVX679

AVX678

AVX678

Isolating kit

| Ver | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
|--|---------------------|----------------|-------|-------|-------|-------|-------|------|-------|------|-------|
| A | ISG10 | ISG11 | ISG12 | ISG13 | ISG13 | ISG14 | ISG14 | ISG1 | ISG15 | ISG1 | ISG15 |
| A grey background indicates the accessor | y must be assembled | in the factory | | | | | | | | | |
| Ver | 3202 | 3602 | 4202 | 4802 | 5602 | 6 | 402 | 6703 | 7203 | 8403 | 9603 |
| ٥ | - | - | - | - | - | | - | ISG7 | ISG8 | ISG8 | ISG8 |
| A | ISG2 | ISG2 | ISG2 | ISG3 | ISG3 | J | SG3 | ISG7 | ISG8 | ISG8 | ISG8 |
| | | | | | | | | | | | |

A grey background indicates the accessory must be assembled in the factory

not available

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3,4 | WFGI |
| 5,6,7,8 | Size 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603 |
| 9 | Model |
| | Standard condensation |
| Н | Optimised for high condensation |
| 10 | Version |
| 0 | Standard (1) |
| Α | High efficiency |
| 11 | Operating field |
| Χ | Electronic thermostatic expansion valve |
| Z | Double electronic thermostatic for low temperature |
| 12 | Set-up |
| 0 | Standard without hood |
| K | Super low noise with hood (2) |
| L | Silenced with hood |

| Field | | Description |
|-------|---|--|
| 13 | | Heat recovery |
| | 0 | Without heat recovery |
| | D | With desuperheater (3) |
| | T | With total recovery (3) |
| 14 | | Evaporator |
| | 0 | Standard |
| | E | Evaporating unit |
| 15 | | Power supply |
| | 0 | 400V ~ 3 50Hz with fuses |
| | 8 | 400V ~ 3 50Hz with magnet circuit breakers (4) |
| 16 | | Refrigerant gas (5) |
| | 0 | R1234ze |
| | G | R515B |

- (1) Only for sizes from 6703 to 9603
 (2) Only for units with R515B
 (3) Not available for the condenserless "E"
 (4) Not available for 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2801, 3201 size
 (5) Performances do not vary when the refrigerant gas available on the configurator varies.

MODEL PERFORMANCE DATA (°) - FOR TEMPERATURES WATER PRODUCED UP TO +55°C

WFGI 1101 - 3201 - model (°) version A - aas R1234ze

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 216,8 | 255,6 | 285,6 | 324,6 | 366,2 | 407,0 | 484,9 | 545,9 | 586,5 |
| Input power | kW | 41,8 | 50,3 | 55,3 | 62,1 | 73,8 | 83,3 | 92,6 | 102,6 | 112,2 |
| Cooling total input current | A | 74,0 | 87,0 | 95,0 | 106,0 | 125,0 | 140,0 | 152,0 | 170,0 | 187,0 |
| EER | W/W | 5,19 | 5,08 | 5,17 | 5,23 | 4,96 | 4,89 | 5,24 | 5,32 | 5,23 |
| Water flow rate source side | l/h | 44248 | 52351 | 58332 | 66233 | 75332 | 83987 | 98906 | 111058 | 119737 |
| Pressure drop source side | kPa | 30 | 33 | 29 | 26 | 22 | 21 | 24 | 24 | 21 |
| Water flow rate system side | l/h | 37296 | 43987 | 49124 | 55816 | 62963 | 69984 | 83363 | 93854 | 100830 |
| Pressure drop system side | kPa | 22 | 24 | 24 | 15 | 18 | 13 | 20 | 26 | 14 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 243,2 | 292,8 | 321,7 | 365,6 | 419,7 | 467,2 | 540,0 | 606,5 | 655,5 |
| Input power | kW | 55,2 | 66,1 | 70,6 | 77,1 | 94,3 | 106,3 | 118,0 | 131,1 | 142,3 |
| Heating total input current | А | 97,0 | 114,0 | 120,0 | 131,0 | 159,0 | 178,0 | 193,0 | 215,0 | 236,0 |
| COP | W/W | 4,41 | 4,43 | 4,56 | 4,74 | 4,45 | 4,40 | 4,58 | 4,63 | 4,61 |
| Water flow rate system side | l/h | 42220 | 50823 | 55848 | 63486 | 72879 | 81140 | 93796 | 105337 | 113866 |
| Pressure drop system side | kPa | 27 | 31 | 27 | 23 | 20 | 20 | 22 | 22 | 19 |
| Water flow rate source side | l/h | 55079 | 66427 | 73525 | 84200 | 95108 | 105386 | 123347 | 139074 | 149713 |
| Pressure drop source side | kPa | 48 | 56 | 54 | 34 | 41 | 29 | 45 | 58 | 32 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI 2502 - 9603 - model (°) version A - gas R1234ze

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 506,3 | 571,0 | 664,9 | 737,9 | 869,3 | 989,2 | 1096,6 | 1223,1 | 1323,2 | 1463,2 | 1605,2 | 1765,9 |
| Input power | kW | 96,8 | 107,6 | 125,2 | 143,4 | 166,7 | 185,8 | 206,7 | 234,8 | 238,3 | 265,7 | 299,4 | 337,5 |
| Cooling total input current | A | 171,0 | 192,0 | 215,0 | 245,0 | 273,0 | 311,0 | 346,0 | 396,0 | 407,0 | 468,0 | 519,0 | 591,0 |
| EER | W/W | 5,23 | 5,31 | 5,31 | 5,15 | 5,22 | 5,32 | 5,30 | 5,21 | 5,55 | 5,51 | 5,36 | 5,23 |
| Water flow rate source side | I/h | 102932 | 115945 | 135099 | 150773 | 177155 | 200809 | 223021 | 249142 | 267794 | 296179 | 326287 | 360505 |
| Pressure drop source side | kPa | 61 | 55 | 46 | 30 | 45 | 50 | 36 | 51 | 11 | 24 | 23 | 22 |
| Water flow rate system side | l/h | 87066 | 98181 | 114326 | 126885 | 149451 | 170077 | 188509 | 210265 | 227441 | 251516 | 275910 | 303500 |
| Pressure drop system side | kPa | 45 | 35 | 33 | 41 | 32 | 44 | 34 | 43 | 26 | 31 | 29 | 17 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 564,4 | 631,4 | 731,6 | 821,0 | 966,2 | 1093,4 | 1212,3 | 1370,1 | 1454,7 | 1611,8 | 1770,0 | 1960,8 |
| Input power | kW | 124,9 | 136,1 | 155,8 | 181,8 | 211,1 | 235,7 | 260,5 | 299,0 | 300,1 | 334,7 | 374,9 | 420,6 |
| Heating total input current | A | 218,0 | 241,0 | 264,0 | 306,0 | 343,0 | 390,0 | 431,0 | 498,0 | 507,0 | 582,0 | 643,0 | 732,0 |
| COP | W/W | 4,52 | 4,64 | 4,70 | 4,52 | 4,58 | 4,64 | 4,65 | 4,58 | 4,85 | 4,82 | 4,72 | 4,66 |
| Water flow rate system side | l/h | 97998 | 109633 | 127054 | 142602 | 167814 | 189909 | 210585 | 237978 | 252762 | 280014 | 307509 | 340678 |
| Pressure drop system side | kPa | 56 | 50 | 41 | 27 | 41 | 45 | 32 | 46 | 10 | 22 | 20 | 20 |
| Water flow rate source side | I/h | 129450 | 145407 | 168838 | 187634 | 221376 | 252011 | 278815 | 314719 | 336930 | 373381 | 407768 | 449226 |
| Pressure drop source side | kPa | 99 | 76 | 73 | 89 | 70 | 96 | 73 | 96 | 56 | 69 | 63 | 37 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI 6703 - 9603 - model (°) version ° - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|
| Model: ° | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | |
| Cooling capacity | kW | 1309,2 | 1445,9 | 1559,4 | 1729,0 |
| Input power | kW | 242,2 | 267,6 | 299,6 | 340,9 |
| Cooling total input current | A | 396,0 | 475,0 | 525,0 | 588,0 |
| EER | W/W | 5,40 | 5,40 | 5,20 | 5,07 |
| Water flow rate source side | l/h | 265488 | 293277 | 318297 | 354161 |
| Pressure drop source side | kPa | 44 | 39 | 34 | 41 |
| Water flow rate system side | l/h | 225045 | 248539 | 268020 | 297184 |
| Pressure drop system side | kPa | 27 | 29 | 22 | 26 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 1443,5 | 1597,2 | 1729,1 | 1928,5 |
| nput power | kW | 304,0 | 336,2 | 373,6 | 425,5 |
| Heating total input current | A | 493,0 | 592,0 | 650,0 | 729,0 |
| COP | W/W | 4,75 | 4,75 | 4,63 | 4,53 |
| Water flow rate system side | l/h | 250744 | 277455 | 300382 | 335030 |
| Pressure drop system side | kPa | 39 | 35 | 30 | 37 |
| Water flow rate source side | l/h | 333379 | 368962 | 396107 | 439877 |
| Pressure drop source side | kPa | 59 | 64 | 49 | 58 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| Seasonal efficiency | % | 343,60 | 349,90 | 351,60 | 353,90 | 361,00 | 361,00 | 360,80 | 362,20 | 361,40 |
| SEER | W/W | 8,67 | 8,82 | 8,87 | 8,92 | 9,10 | 9,10 | 9,10 | 9,13 | 9,11 |
| SEPR - (EN 14825: 2018) High temperature (2) | | | | | | | | | | - |
| SEPR | W/W | 9,70 | 9,80 | 9,60 | 9,30 | 9,80 | 9,40 | 9,50 | 9,20 | 9,10 |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with VARIABLE water flow rate.

| | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--------|-----|--------|--|--|--|--------|--------|--------|--------|--------|--|---|---|
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 0 | % | - | - | - | - | - | - | - | - | 335.7% | 337.9% | 329.7% | 326.0% |
| A | % | 340.8% | 345.4% | 342.7% | 347.3% | 346.2% | 347.8% | 355.7% | 349.1% | 355.8% | 353.7% | 354.5% | 349.3% |
| 0 | W/W | - | - | - | - | - | - | - | - | 8,47 | 8,52 | 8,32 | 8,23 |
| А | W/W | 8,60 | 8,71 | 8,64 | 8,76 | 8,73 | 8,77 | 8,97 | 8,80 | 8,97 | 8,92 | 8,94 | 8,81 |
| re (2) | | | | | | | | | | | | | |
| 0 | W/W | - | - | - | - | - | - | - | - | 8,80 | 8,70 | 8,60 | 8,70 |
| A | W/W | 9,30 | 9,40 | 8,90 | 9,00 | 9,10 | 9,10 | 9,20 | 9,20 | 8,90 | 8,90 | 9,00 | 9,00 |
| | A | A % | ° % - A % 340.8% ° W/W - A W/W 8,60 re (2) ° W/W - | ° % A % 340.8% 345.4% ° W/W A W/W 8,60 8,71 re (2) ° W/W | ° % A % 340.8% 345.4% 342.7% ° W/W A W/W 8,60 8,71 8,64 re (2) ° W/W | ° % | ° % | ° % | ° % | ° % | ° % - - - - - - - - 335.7% A % 340.8% 345.4% 342.7% 347.3% 346.2% 347.8% 355.7% 349.1% 355.8% ° W/W - - - - - - - 8,47 A W/W 8,60 8,71 8,64 8,76 8,73 8,77 8,97 8,80 8,97 re(2) ° W/W - - - - - - - - 8,80 | ° % - | ° % - - - - - - - - - - 345.9% 329.7% A % 340.8% 345.4% 342.7% 347.3% 346.2% 347.8% 355.7% 349.1% 355.8% 353.7% 354.5% ° W/W - - - - - - - - 8,32 A W/W 8,60 8,71 8,64 8,76 8,73 8,77 8,97 8,80 8,97 8,92 8,94 re (2) |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Calculation performed with VARIABLE water flow rate.

| Size | | | 1101 | 1251 | 1401 |
|---------------------------------------|--------------------|----------------------------------|----------|--------|--------|
| Model: ° | | | | | |
| UE 813/2013 performance in average am | bient conditions (| average) - 55 °C - Pdesignh ≤ 40 | 0 kW (1) | | |
| Pdesignh | ٥ | kW | - | - | - |
| ruesigiiii | Α | kW | 300,00 | 368,00 | 399,00 |
| CCOD | ٥ | W/W | - | - | - |
| SCOP | Α | W/W | 5,25 | 5,25 | 5,33 |
| | ٥ | % | - | - | - |
| ηsh | A | % | 202,00 | 202,00 | 205,00 |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

Electric data

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-------------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum aument (FLA) | ٥ | А | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 682,4 | 765,6 | 849,2 | 957,6 |
| Maximum current (FLA) - | Α | Α | 158,9 | 180,6 | 184,4 | 201,3 | 220,8 | 247,5 | 280,9 | 309,0 | 315,2 | 331,4 | 342,7 | 368,6 | 408,3 | 456,2 | 523,3 | 582,2 | 663,0 | 682,4 | 765,4 | 849,2 | 957,6 |
| Deals surrent (LDA) | 0 | А | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1063,0 | 1177,0 | 1391,0 | 1583,0 |
| Peak current (LRA) | Α | Α | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 498,0 | 23,0 | 592,0 | 23,0 | 641,0 | 689,0 | 837,0 | 934,0 | 1124,0 | 1287,0 | 1063,0 | 1177,0 | 1391,0 | 1583,0 |

MODEL PERFORMANCE DATA (H) - FOR TEMPERATURES WATER PRODUCED UP TO +65°C

WFGI 1101 - 3201 - model (H) version A - gas R1234ze

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | kW | 220,0 | 254,8 | 289,6 | 327,4 | 357,5 | 399,0 | 482,6 | 542,2 | 593,6 |
| Input power | kW | 41,7 | 49,5 | 57,4 | 64,3 | 73,6 | 83,0 | 96,5 | 109,7 | 118,6 |
| Cooling total input current | A | 76,0 | 87,0 | 99,0 | 109,0 | 123,0 | 138,0 | 158,0 | 181,0 | 197,0 |
| EER | W/W | 5,28 | 5,14 | 5,04 | 5,09 | 4,85 | 4,81 | 5,00 | 4,94 | 5,00 |
| Water flow rate source side | l/h | 44780 | 52069 | 59378 | 67087 | 73813 | 82562 | 99166 | 111592 | 122023 |
| Pressure drop source side | kPa | 30 | 33 | 29 | 26 | 22 | 21 | 24 | 24 | 21 |
| Water flow rate system side | l/h | 37844 | 43840 | 49813 | 56306 | 61471 | 68609 | 82982 | 93228 | 102044 |
| Pressure drop system side | kPa | 22 | 24 | 24 | 15 | 18 | 13 | 20 | 26 | 14 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | |
| Heating capacity | kW | 242,3 | 283,1 | 322,4 | 364,4 | 402,1 | 448,3 | 537,9 | 604,7 | 657,2 |
| Input power | kW | 50,8 | 60,1 | 69,5 | 77,0 | 88,8 | 100,0 | 114,2 | 129,4 | 134,3 |
| Heating total input current | A | 91,0 | 105,0 | 118,0 | 130,0 | 148,0 | 165,0 | 186,0 | 211,0 | 222,0 |
| СОР | W/W | 4,77 | 4,71 | 4,64 | 4,73 | 4,53 | 4,48 | 4,71 | 4,67 | 4,89 |
| Water flow rate system side | I/h | 42056 | 49149 | 55968 | 63270 | 69832 | 77853 | 93424 | 105035 | 114165 |
| Pressure drop system side | kPa | 27 | 29 | 26 | 23 | 19 | 19 | 22 | 22 | 19 |
| Water flow rate source side | l/h | 55990 | 65269 | 74006 | 83856 | 91549 | 101626 | 123761 | 139042 | 152399 |
| Pressure drop source side | kPa | 48 | 54 | 54 | 33 | 40 | 28 | 45 | 59 | 32 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI 2502 - 9603 - model (H) version A - gas R1234ze

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 511,3 | 581,3 | 664,4 | 741,3 | 869,2 | 988,5 | 1083,6 | 1218,4 | 1312,3 | 1450,5 | 1588,3 | 1759,4 |
| Input power | kW | 100,0 | 114,5 | 129,9 | 146,9 | 170,3 | 191,3 | 214,6 | 243,5 | 249,2 | 279,2 | 314,2 | 360,4 |
| Cooling total input current | А | 182,0 | 205,0 | 225,0 | 248,0 | 291,0 | 326,0 | 370,0 | 411,0 | 449,0 | 491,0 | 556,0 | 651,0 |
| EER | W/W | 5,11 | 5,08 | 5,11 | 5,04 | 5,10 | 5,17 | 5,05 | 5,00 | 5,27 | 5,20 | 5,06 | 4,88 |
| Water flow rate source side | l/h | 104337 | 118851 | 135775 | 151933 | 177734 | 201586 | 222077 | 249762 | 267707 | 296196 | 325814 | 363151 |
| Pressure drop source side | kPa | 61 | 55 | 46 | 30 | 45 | 50 | 36 | 51 | 11 | 24 | 23 | 22 |
| Water flow rate system side | l/h | 87940 | 99961 | 114232 | 127463 | 149434 | 169953 | 186288 | 209453 | 225564 | 249326 | 273015 | 302384 |
| Pressure drop system side | kPa | 45 | 35 | 33 | 41 | 32 | 44 | 34 | 43 | 26 | 31 | 29 | 17 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 563,1 | 641,8 | 731,2 | 822,8 | 961,9 | 1089,6 | 1200,8 | 1381,7 | 1445,1 | 1599,5 | 1759,3 | 1964,0 |
| Input power | kW | 120,6 | 137,4 | 154,1 | 177,9 | 203,8 | 229,4 | 255,3 | 289,7 | 297,6 | 333,6 | 372,8 | 425,2 |
| Heating total input current | Α | 216,0 | 243,0 | 263,0 | 295,0 | 344,0 | 385,0 | 434,0 | 479,0 | 530,0 | 579,0 | 651,0 | 763,0 |
| COP | W/W | 4,67 | 4,67 | 4,75 | 4,63 | 4,72 | 4,75 | 4,70 | 4,77 | 4,86 | 4,79 | 4,72 | 4,62 |
| Water flow rate system side | l/h | 97770 | 111434 | 126975 | 142910 | 167067 | 189246 | 208586 | 239997 | 251090 | 277882 | 305657 | 341230 |
| Pressure drop system side | kPa | 54 | 49 | 41 | 26 | 40 | 44 | 31 | 47 | 10 | 22 | 20 | 20 |
| Water flow rate source side | I/h | 130239 | 148043 | 169179 | 189222 | 222144 | 252647 | 276929 | 320765 | 334856 | 370130 | 405298 | 448896 |
| Pressure drop source side | kPa | 99 | 76 | 73 | 90 | 70 | 96 | 74 | 100 | 56 | 69 | 64 | 37 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGI 6703 - 9603 - model (H) version ° - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|
| Model: H | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | |
| Cooling capacity | kW | 1298,6 | 1433,8 | 1544,1 | 1739,6 |
| Input power | kW | 252,7 | 280,5 | 312,9 | 362,4 |
| Cooling total input current | A | 449,0 | 491,0 | 553,0 | 649,0 |
| EER | W/W | 5,14 | 5,11 | 4,93 | 4,80 |
| Water flow rate source side | I/h | 265376 | 293300 | 317856 | 359510 |
| Pressure drop source side | kPa | 44 | 39 | 34 | 41 |
| Water flow rate system side | I/h | 223228 | 246460 | 265406 | 299001 |
| Pressure drop system side | kPa | 27 | 29 | 22 | 26 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 1433,5 | 1584,7 | 1718,0 | 1945,1 |
| Input power | kW | 300,7 | 334,3 | 369,6 | 428,4 |
| Heating total input current | A | 530,0 | 579,0 | 649,0 | 761,0 |
| COP | W/W | 4,77 | 4,74 | 4,65 | 4,54 |
| Water flow rate system side | l/h | 249013 | 275290 | 298460 | 337909 |
| Pressure drop system side | kPa | 39 | 35 | 30 | 36 |
| Water flow rate source side | l/h | 331388 | 365876 | 394002 | 443875 |
| Pressure drop source side | kPa | 59 | 64 | 49 | 58 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | |
| Seasonal efficiency | % | 314,30 | 316,20 | 304,40 | 314,40 | 296,40 | 301,70 | 310,30 | 314,20 | 317,80 |
| SEER | W/W | 7,93 | 7,98 | 7,69 | 7,94 | 7,49 | 7,62 | 7,83 | 7,93 | 8,02 |
| SEPR - (EN 14825: 2018) High temperature (2) | | | | | | | | | | |
| SEPR | W/W | 9,10 | 9,00 | 8,70 | 8,90 | 8,40 | 8,40 | 8,80 | 8,60 | 8,90 |

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Calculation performed with VARIABLE water flow rate.

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | |
| | 0 | % | - | - | - | - | - | - | - | - | 287.7% | 286.9% | 287.6% | 281.6% |
| Seasonal efficiency | A | % | 294.9% | 295.7% | 300.5% | 291.4% | 301.0% | 304.5% | 309.3% | 298.9% | 302.4% | 297.7% | 302.9% | 295.0% |
| CLLD | 0 | W/W | - | - | - | - | - | - | - | - | 7,27 | 7,25 | 7,27 | 7,12 |
| SEER | A | W/W | 7,45 | 7,47 | 7,59 | 7,36 | 7,60 | 7,69 | 7,81 | 7,55 | 7,64 | 7,52 | 7,65 | 7,45 |
| SEPR - (EN 14825: 2018) High temperat | ure (2) | | | | | | | | | | | | | |
| CEDD | 0 | W/W | - | - | - | - | - | - | - | - | 8,20 | 8,20 | 8,30 | 8,30 |
| SEPR | A | W/W | 8,60 | 8,60 | 8,50 | 8,60 | 8,50 | 8,60 | 8,50 | 8,60 | 8,60 | 8,50 | 8,70 | 8,70 |

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with VARIABLE water flow rate.

| Size | | | 1101 | 1251 | 1401 |
|---------------------------------------|---------------------|----------------------------------|--------|--------|--------|
| Model: H | | | | .251 | |
| UE 813/2013 performance in average an | bient conditions (a | verage) - 55 °C - Pdesignh ≤ 400 | kW (1) | | |
| | 0 | kW | - | - | - |
| Pdesignh | A | kW | 296,00 | 348,00 | 395,00 |
| ccop | 0 | W/W | - | - | - |
| SCOP | A | W/W | 5,45 | 5,43 | 5,23 |
| | 0 | % | - | - | - |
| ηsh | A | % | 210,00 | 209,00 | 201.00 |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

Electric data

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum aument (FLA) | 0 | Α | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 853,0 | 939,0 | 1047,0 | 1178,0 |
| Maximum current (FLA) | A | А | 155,0 | 177,0 | 201,0 | 222,0 | 262,0 | 296,0 | 349,0 | 343,0 | 390,0 | 389,0 | 415,0 | 422,0 | 488,0 | 559,0 | 644,0 | 719,0 | 797,0 | 853,0 | 939,0 | 1047,0 | 1178,0 |
| Deals assument (LDA) | 0 | А | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1179,0 | 1297,0 | 1527,0 | 1737,0 |
| Peak current (LRA) | A | Α | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 494,0 | 23,0 | 545,0 | 23,0 | 661,0 | 730,0 | 885,0 | 1002,0 | 1198,0 | 1357,0 | 1179,0 | 1297,0 | 1527,0 | 1737,0 |

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

Model performance data (°) - for condensing temperatures up to 55°C

Model output data WFGI° - AE - gas R1234ze

| - July and the second s | | | | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
| Model: ° | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R1234ze (1) | | | | | | | | | | |
| Cooling capacity | kW | 198,0 | 231,1 | 256,8 | 292,1 | 326,6 | 363,6 | 437,8 | 493,2 | 519,6 |
| Input power | kW | 51,6 | 61,8 | 66,8 | 75,1 | 88,4 | 100,0 | 109,4 | 123,5 | 136,2 |
| Cooling total input current | А | 92,0 | 108,0 | 115,0 | 128,0 | 151,0 | 168,9 | 184,0 | 206,0 | 227,0 |
| EER | W/W | 3,83 | 3,74 | 3,85 | 3,89 | 3,69 | 3,64 | 4,00 | 3,99 | 3,82 |
| Evaporator water flow rate | l/h | 34021 | 39713 | 44127 | 50189 | 56115 | 62473 | 75211 | 84731 | 89274 |
| Pressure drop evaporator side | kPa | 17 | 20 | 19 | 12 | 15 | 11 | 17 | 21 | 12 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | |
| Gas line (C1) | Ø | 54,0 | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 89,0 | 89,0 | 89,0 |
| Gas line (C2) | Ø | - | - | - | - | - | - | - | - | - |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | - | - |
| Liquid line (C1) | Ø | 35,0 | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | - | - | - | - | - | - | - | - | - |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | _ | _ |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R1234ze (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 453,9 | 510,4 | 593,1 | 659,9 | 765,6 | 890,9 | 975,6 | 1082,9 | 1179,9 | 1316,9 | 1449,4 | 1574,0 |
| Input power | kW | 116,3 | 128,9 | 149,1 | 172,3 | 195,5 | 215,5 | 242,5 | 277,6 | 290,6 | 321,6 | 361,5 | 409,6 |
| Cooling total input current | Α | 207,0 | 229,0 | 256,0 | 293,0 | 327,0 | 370,0 | 411,0 | 471,0 | 488,0 | 555,0 | 616,0 | 700,0 |
| EER | W/W | 3,90 | 3,96 | 3,98 | 3,83 | 3,92 | 4,13 | 4,02 | 3,90 | 4,06 | 4,09 | 4,01 | 3,84 |
| Evaporator water flow rate | l/h | 77982 | 87695 | 101893 | 113381 | 131535 | 153062 | 167617 | 186047 | 202720 | 226251 | 249032 | 270431 |
| Pressure drop evaporator side | kPa | 36 | 28 | 26 | 33 | 27 | 35 | 26 | 33 | 20 | 26 | 25 | 14 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | 42,0 | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model output data WFGI° - °E - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: ° | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | |
| Cooling capacity | kW | 1146,9 | 1278,8 | 1388,3 | 1517,0 |
| Input power | kW | 291,2 | 322,2 | 361,3 | 409,8 |
| Cooling total input current | A | 489,0 | 556,0 | 615,0 | 700,0 |
| EER | W/W | 3,94 | 3,97 | 3,84 | 3,70 |
| Evaporator water flow rate | I/h | 197057 | 219704 | 238518 | 260630 |
| Pressure drop evaporator side | kPa | 20 | 23 | 17 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model performance data (H) - for condensing temperatures up to 60°C

Model output data - model WFGIH - AE - gas R1234ze

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model: H | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | | | | | | |
| Cooling capacity | kW | 198,0 | 231,1 | 256,8 | 292,1 | 326,6 | 363,6 | 437,8 | 493,2 | 519,6 |
| Input power | kW | 51,6 | 61,8 | 66,8 | 75,1 | 88,4 | 100,0 | 109,4 | 123,5 | 136,2 |
| Cooling total input current | A | 92,0 | 108,0 | 115,0 | 128,0 | 151,0 | 168,9 | 184,0 | 206,0 | 227,0 |
| EER | W/W | 3,83 | 3,74 | 3,85 | 3,89 | 3,69 | 3,64 | 4,00 | 3,99 | 3,82 |
| Evaporator water flow rate | l/h | 34021 | 39713 | 44127 | 50189 | 56115 | 62473 | 75211 | 84731 | 89274 |
| Pressure drop evaporator side | kPa | 17 | 20 | 19 | 12 | 15 | 11 | 17 | 21 | 12 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | |
| Gas line (C1) | Ø | 54,0 | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 89,0 | 89,0 | 89,0 |
| Gas line (C2) | Ø | - | - | - | - | - | - | - | - | - |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | - | - |
| Liquid line (C1) | Ø | 35,0 | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | - | - | - | - | - | - | - | - | - |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | - |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 453,9 | 510,4 | 593,1 | 659,9 | 765,6 | 890,9 | 975,6 | 1082,9 | 1179,9 | 1316,9 | 1449,4 | 1574,0 |
| Input power | kW | 116,3 | 128,9 | 149,1 | 172,3 | 195,5 | 215,5 | 242,5 | 277,6 | 290,6 | 321,6 | 361,5 | 409,6 |
| Cooling total input current | А | 207,0 | 229,0 | 256,0 | 293,0 | 327,0 | 370,0 | 411,0 | 471,0 | 488,0 | 555,0 | 616,0 | 700,0 |
| EER | W/W | 3,90 | 3,96 | 3,98 | 3,83 | 3,92 | 4,13 | 4,02 | 3,90 | 4,06 | 4,09 | 4,01 | 3,84 |
| Evaporator water flow rate | I/h | 77982 | 87695 | 101893 | 113381 | 131535 | 153062 | 167617 | 186047 | 202720 | 226251 | 249032 | 270431 |
| Pressure drop evaporator side | kPa | 36 | 28 | 26 | 33 | 27 | 35 | 26 | 33 | 20 | 26 | 25 | 14 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | 42,0 | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model output data - model WFGIH - $^\circ$ E - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: H | | | | | |
| Cooling performance 12 °C / 7 °C - gas R1234ze (1) | | | | | |
| Cooling capacity | kW | 1146,9 | 1278,8 | 1388,3 | 1517,0 |
| Input power | kW | 291,2 | 322,2 | 361,3 | 409,8 |
| Cooling total input current | A | 489,0 | 556,0 | 615,0 | 700,0 |
| EER | W/W | 3,94 | 3,97 | 3,84 | 3,70 |
| Evaporator water flow rate | l/h | 197057 | 219704 | 238518 | 260630 |
| Pressure drop evaporator side | kPa | 20 | 23 | 17 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

GENERAL TECHNICAL DATA

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--------------------------------|-----|------|------|------|------|------|------|------|------|------|-------|------|------------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | | Screw | | | | | | | | | | |
| Compressor regulation | °,A | Туре | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 | 1/1 | - 1 | 1/1 | - 1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Circuits | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Refrigerant | °,A | type | | | | | | | | | | | R1234ze | <u>.</u> | | | | | | | | | |
| Refrigerant load circuit 1 (1) | | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| herrigerant toda circuit 1 (1) | A | kg | 59,0 | 57,0 | 72,0 | 66,0 | 61,0 | 85,0 | 81,0 | 50,0 | 110,0 | 53,0 | 104,0 | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| Refrigerant load circuit 2 (1) | | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| herrigerant load circuit 2 (1) | A | kg | - | - | - | - | - | - | - | 50,0 | - | 53,0 | - | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| Refrigerant load circuit 3 (1) | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| herrigerant load circuit 3 (1) | A | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 106,0 | 104,0 | 110,0 | 120,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | She | ell and to | ıbe | | | | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,A | Туре | | | | | | | | | | Gro | oved joi | nts | | | | | | | | | |
| Source side heat exchanger | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | She | ell and to | ıbe | | | | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Connections (in/out) | °,A | Туре | | | | | | | | | | Gro | oved joi | nts | | | | | | | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

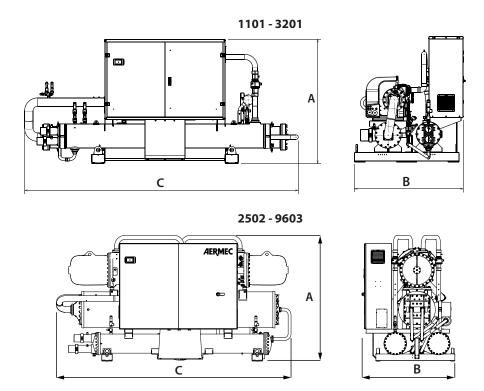
SOUND DATA

Sound data calculated with functioning in cooling mode - R1234ze gas

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|-------------|----------|---------|---------|---------|----------|-----------|---------|---------|---------|------------|------|------|------|------|------|------|-------|------|-------|-------|-------|
| Refrigerant gas: ° | | | | | | | | | | | | | | | | | | | | | | |
| Standard equipment | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (1) | dB(A) | 94,0 | 95,8 | 96,1 | 97,0 | 97,1 | 97,2 | 97,3 | 97,3 | 97,3 | 97,7 | 98,0 | 98,8 | 98,8 | 98,9 | 98,9 | 99,3 | 100,0 | 99,5 | 100,6 | 101,0 | 102,0 |
| Silenced equipment | | | | | | | | | | | | | | | | | | | | | | |
| Sound power level (1) | dB(A) | 90,0 | 91,8 | 92,1 | 93,0 | 93,1 | 93,2 | 93,3 | 93,3 | 93,3 | 93,7 | 94,0 | 94,8 | 94,8 | 94,9 | 94,9 | 95,3 | 96,0 | 95,5 | 96,6 | 97,0 | 98,0 |
| (1) Cound nower: calculated in agreement with | the Standar | 4 HMILEN | ISO 061 | 14.2 in | complia | nco witl | h that ro | auoctor | hy Euro | wont co | rtificatio | n | | | | | | | | | | |

⁽¹⁾ Sound power: calculated in agreement with the Standard UNI EN ISO 9614-2, in compliance with that requested by Eurovent certification.

DIMENSIONS



| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Model: °, H | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights - standard config | uration | | | | | | | | | | | | | | | | | | | | | | |
| Α. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| Α – | Α | mm | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2131 | 1920 | 2131 | 1920 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| D | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| В — | А | mm | 1510 | 1560 | 1610 | 1610 | 1610 | 1610 | 1610 | 1645 | 1630 | 1645 | 1630 | 1675 | 1675 | 1685 | 1875 | 1875 | 2000 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| _ | Α | mm | 3460 | 3463 | 3585 | 4100 | 4100 | 4140 | 4240 | 4320 | 4290 | 4345 | 4290 | 4380 | 4380 | 4395 | 4500 | 4580 | 4580 | 5650 | 5650 | 5650 | 5650 |
| F | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8740 | 9680 | 9900 | 10000 |
| Empty weight — | Α | kg | 2020 | 2030 | 2230 | 2410 | 2450 | 2670 | 3090 | 3710 | 3530 | 3980 | 3570 | 5160 | 5220 | 5710 | 6440 | 6680 | 6770 | 9730 | 11440 | 11980 | 12060 |
| Dimensions and weights - quiet configurat | ion | | | | | | | | | | | | | | | | | | | | | | |
| A . | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| Α – | Α | mm | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2131 | 1920 | 2131 | 1920 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| D. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| В | Α | mm | 1525 | 1560 | 1610 | 1610 | 1610 | 1615 | 1615 | 1645 | 1630 | 1645 | 1630 | 1675 | 1675 | 1685 | 1875 | 1875 | 2000 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| _ | Α | mm | 3460 | 3463 | 3585 | 4100 | 4100 | 4140 | 4240 | 4320 | 4290 | 4345 | 4290 | 4630 | 4630 | 4600 | 5015 | 5060 | 5060 | 5650 | 5650 | 5650 | 5650 |
| | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9270 | 10240 | 10510 | 10610 |
| Empty weight — | Α | kg | 2180 | 2190 | 2390 | 2570 | 2610 | 2830 | 3280 | 4020 | 3720 | 4290 | 3760 | 5500 | 5560 | 6050 | 6810 | 7080 | 7170 | 10260 | 12000 | 12590 | 12670 |

[■] For the sizes of D-T-E versions please contact the factory.





















WFGN

Water cooled heat pump reversible water side

Cooling capacity 136 ÷ 1727 kW Heating capacity 153 ÷ 1921 kW



- Production of hot water up to 55°C.
- Production of chilled water down to -8°C.





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16 °C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 55 °C.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Mono, bi-tri circuit unit

Unit with 1-2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

They are equipped with screw compressors and system and source side shell and tube heat exchangers dedicated to use of the new HFO R1234ze gas (A2L).

The R515B refrigerant with this type of gas is also available on the configurator. Performances do not vary when the refrigerant gas available on the configurator varies.

For further details refer to the technical documentation or to the Magellano selection program.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 \mathbf{x} \mathbf{n}° **3:** RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

ISG: Insulation kit for condensers. Mandatory accessory for machine functioning in heat pump; standard in units with desuperheater or with heat recovery.

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FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | A | | | | | • | • | | • | • | | | | | | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A | | | | | | | | | | | • | | • | | • | • | • | | • | | | | | |
| AER485P1 x n° 3 (1) | °,A | | | | | | | | | | | | | | | | | | | | | • | • | • | • |
| AFDDACD | ٥ | | | | | | | | | | | | | | | | | | | | | • | • | • | |
| AERBACP | A | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AFDNIFT | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| AERNET | A | | | • | | | • | • | • | • | | | • | | • | • | • | | • | • | | | • | • | |
| AERSET | A | • | • | • | • | • | • | • | • | • | • | | • | | • | | | | | | | | | | |
| MUUTICUULED EVO | ٥ | | | | | | | | | | | | | | | | | | | | | • | • | • | |
| MULTICHILLER_EVO | A | • | • | • | • | • | • | | • | • | • | • | • | • | • | | • | • | | • | • | • | | • | • |
| DCD1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| PGD1 | A | | | | | | | | | | | | | | | | | | | | | | | | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| | tion | | | | | | | | | | | | | |
|---------|--------|------------------|-------------|-----------------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Version | Set-up | Heat recovery | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 |
| 0 | °,L | °,D,T | - | - | - | - | - | - | - | - | - | - | - | - |
| A | 0 | 0 | AVX680 | AVX680 | AVX680 | AVX681 | AVX681 | AVX681 | AVX682 | AVX682 | AVX683 | AVX683 | AVX673 | AVX683 |
| A | L | 0 | AVX680 | AVX680 | AVX680 | AVX681 | AVX681 | AVX681 | AVX682 | AVX685 | AVX683 | AVX683 | AVX674 | AVX683 |
| A | °,L | D,T | - | - | - | - | - | - | - | - | - | - | AVX674 | - |
| Version | Set-up | Heat | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| | | recovery | | | | | | 1002 | | | | 7203 | 0403 | 7003 |
| 0 | °,L | °,D,T | - | - | - | - | - | - | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| ° A | °,L | | - AVX674 | - AVX683 | - AVX679 | - AVX679 | | | - AVX678 | - AVX678 | | | | |
| A A | ,L | °,D,T | | - AVX683 AVX683 | | - AVX679 AVX678 | - | - | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| A | ,L | °,D,T | AVX674 | | AVX679 | | - AVX678 | - AVX678 | - AVX678 | - AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |

Power factor correction

| Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| A | RIFWFN0701 | RIFWFN0801 | RIFWFN0901 | RIFWFN1101 | RIFWFN1251 | RIFWFN1401 | RIFWFN1601 | RIFWFN1801 | RIFWFN2101 | RIFWFN2401 | RIFWFN2502 | RIFWFN2801 |
| Ver | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| 0 | - | - | - | - | - | - | - | - | RIFWFN6703 | RIFWFN7203 | RIFWFN8403 | RIFWFN9603 |
| A | RIFWFN2802 | RIFWFN3201 | RIFWFN3202 | RIFWFN3602 | RIFWFN4202 | RIFWFN4802 | RIFWFN5602 | RIFWFN6402 | RIFWFN6703 | RIFWFN7203 | RIFWFN8403 | RIFWFN9603 |

AVX678

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AVX678

AVX678

AVX678

Isolating kit

| Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| A | ISG10 | ISG10 | ISG10 | ISG10 | ISG11 | ISG12 | ISG13 | ISG13 | ISG14 | ISG14 | ISG1 | ISG15 |
| Ver | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| 0 | - | - | - | - | - | - | - | - | ISG5 | ISG5 | ISG6 | ISG6 |
| A | ISG1 | ISG15 | ISG2 | ISG2 | ISG2 | ISG3 | ISG3 | ISG3 | ISG7 | ISG8 | ISG8 | ISG8 |

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3,4 | WFGN |
| 5,6,7,8 | Size 0701, 0801, 0901, 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603 |
| 9 | Model |
| 0 | Heat pump reversible on the water side |
| 10 | Version |
| 0 | Standard (1) |
| Α | High efficiency |
| 11 | Operating field |
| Χ | Electronic thermostatic expansion valve |
| Z | Double electronic thermostatic for low temperature |
| 12 | Set-up |
| 0 | Standard |
| K | Super low noise with hood (2) |
| L | Silenced with hood |
| 13 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (3) |
| T | With total recovery (3) |
| 14 | Evaporator |
| 0 | Standard |
| E | Evaporating unit |
| 15 | Power supply |
| 0 | 400V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit |
| 2 | 230V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (4) |
| 4 | 230V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit (4) |
| 5 | 500V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (4) |
| 8 | 400V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit |
| 9 | 500V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit (4) |
| 16 | Refrigerant gas (5) |
| 0 | R1234ze |
| G | R515B |

PERFORMANCE SPECIFICATIONS

WFGN 0701-3201 - version A - gas R1234ze

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 136,1 | 154,8 | 173,8 | 221,3 | 239,8 | 272,3 | 335,7 | 370,1 | 434,3 | 490,7 | 545,3 | 596,9 |
| Input power | kW | 26,0 | 29,7 | 33,8 | 41,4 | 45,0 | 51,2 | 61,5 | 69,0 | 78,1 | 88,5 | 100,0 | 109,9 |
| Cooling total input current | A | 52,0 | 57,0 | 63,0 | 70,0 | 83,0 | 96,0 | 107,0 | 119,0 | 130,0 | 156,0 | 173,0 | 193,0 |
| EER | W/W | 5,24 | 5,21 | 5,15 | 5,35 | 5,33 | 5,32 | 5,46 | 5,37 | 5,56 | 5,55 | 5,45 | 5,43 |
| Water flow rate system side | l/h | 23410 | 26632 | 29906 | 38077 | 41247 | 46844 | 57740 | 63636 | 74675 | 84359 | 93748 | 102619 |
| Pressure drop system side | kPa | 22 | 25 | 24 | 22 | 21 | 22 | 16 | 20 | 15 | 21 | 25 | 15 |
| Water flow rate source side | l/h | 27751 | 31586 | 35551 | 44983 | 48779 | 55416 | 68103 | 75234 | 87855 | 99259 | 110576 | 121174 |
| Pressure drop source side | kPa | 21 | 20 | 19 | 24 | 21 | 18 | 18 | 18 | 19 | 19 | 19 | 18 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 153,1 | 172,4 | 196,2 | 245,2 | 267,2 | 303,2 | 369,1 | 408,3 | 478,4 | 547,5 | 601,0 | 663,0 |
| Input power | kW | 32,6 | 37,2 | 42,4 | 51,8 | 56,4 | 64,2 | 76,0 | 85,4 | 96,3 | 109,6 | 123,2 | 137,5 |
| Heating total input current | A | 64,0 | 71,0 | 79,0 | 87,0 | 103,0 | 119,0 | 131,0 | 146,0 | 160,0 | 191,0 | 210,0 | 240,0 |
| COP | W/W | 4,69 | 4,63 | 4,63 | 4,74 | 4,73 | 4,73 | 4,86 | 4,78 | 4,97 | 4,99 | 4,88 | 4,82 |
| Water flow rate system side | l/h | 26569 | 29919 | 34065 | 42555 | 46384 | 52636 | 64078 | 70908 | 83096 | 95098 | 104400 | 115170 |
| Pressure drop system side | kPa | 20 | 18 | 17 | 22 | 19 | 16 | 16 | 16 | 17 | 18 | 17 | 17 |
| Water flow rate source side | I/h | 35233 | 39544 | 45008 | 56537 | 61580 | 69831 | 85443 | 94274 | 111358 | 127787 | 139586 | 153205 |
| Pressure drop source side | kPa | 49 | 55 | 55 | 48 | 47 | 48 | 34 | 44 | 34 | 48 | 57 | 34 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

⁽¹⁾ Only for sizes from 6703 to 9603(2) Only for units with R515B(3) Not available for the condenserless "E"

⁽⁴⁾ The 230V and 500V power supplies are only available for sizes 0701 - 0801 - 0901 - 1101 - 1251 - 1401 - 2502 - 2802
(5) Performances do not vary when the refrigerant gas available on the configurator varies.

WFGN 2502-9603 - version A - gas R1234ze

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 489,1 | 556,6 | 675,8 | 750,2 | 879,3 | 995,4 | 1100,3 | 1217,3 | 1315,3 | 1454,9 | 1594,7 | 1727,0 |
| Input power | kW | 91,4 | 103,5 | 125,1 | 138,3 | 159,8 | 180,3 | 202,1 | 225,0 | 236,7 | 262,9 | 296,7 | 326,6 |
| Cooling total input current | Α | 166,0 | 192,0 | 214,0 | 237,0 | 261,0 | 312,0 | 346,0 | 388,0 | 386,0 | 466,0 | 515,0 | 577,0 |
| EER | W/W | 5,35 | 5,38 | 5,40 | 5,42 | 5,50 | 5,52 | 5,45 | 5,41 | 5,56 | 5,53 | 5,38 | 5,29 |
| Water flow rate system side | l/h | 84115 | 95704 | 116204 | 128995 | 151168 | 171142 | 189154 | 209277 | 226089 | 250084 | 274117 | 296820 |
| Pressure drop system side | kPa | 42 | 33 | 34 | 42 | 35 | 44 | 33 | 41 | 25 | 31 | 30 | 17 |
| Water flow rate source side | l/h | 99161 | 112842 | 136932 | 152026 | 177654 | 200961 | 222817 | 246414 | 266044 | 294386 | 324122 | 352026 |
| Pressure drop source side | kPa | 53 | 50 | 49 | 31 | 51 | 51 | 42 | 62 | 19 | 18 | 18 | 21 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 545,1 | 618,4 | 747,2 | 833,5 | 967,0 | 1093,6 | 1204,7 | 1333,7 | 1457,0 | 1601,3 | 1761,4 | 1921,0 |
| Input power | kW | 116,1 | 130,9 | 155,9 | 173,0 | 198,3 | 224,8 | 248,9 | 277,7 | 293,3 | 326,6 | 365,9 | 400,0 |
| Heating total input current | Α | 208,0 | 240,0 | 264,0 | 291,0 | 320,0 | 383,0 | 421,0 | 473,0 | 473,0 | 571,0 | 627,0 | 702,0 |
| COP | W/W | 4,70 | 4,73 | 4,79 | 4,82 | 4,88 | 4,87 | 4,84 | 4,80 | 4,97 | 4,90 | 4,81 | 4,80 |
| Water flow rate system side | l/h | 94650 | 107376 | 129767 | 144768 | 167936 | 189943 | 209256 | 231650 | 253135 | 278220 | 306025 | 333765 |
| Pressure drop system side | kPa | 49 | 45 | 44 | 28 | 45 | 46 | 37 | 55 | 17 | 16 | 16 | 19 |
| Water flow rate source side | I/h | 126174 | 143007 | 173413 | 193793 | 225352 | 255129 | 279883 | 310087 | 339613 | 372508 | 407744 | 443369 |
| Pressure drop source side | kPa | 95 | 74 | 77 | 96 | 79 | 98 | 73 | 91 | 56 | 70 | 66 | 37 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFGN 6703-9603 - version ° - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | |
| Cooling capacity | kW | 1300,7 | 1439,0 | 1554,8 | 1692,4 |
| Input power | kW | 239,3 | 265,4 | 297,1 | 329,6 |
| Cooling total input current | A | 396,0 | 475,0 | 525,0 | 588,0 |
| EER | W/W | 5,44 | 5,42 | 5,23 | 5,13 |
| Water flow rate system side | l/h | 223578 | 247357 | 267235 | 290895 |
| Pressure drop system side | kPa | 26 | 29 | 22 | 26 |
| Water flow rate source side | l/h | 263609 | 291721 | 317119 | 346049 |
| Pressure drop source side | kPa | 39 | 39 | 33 | 39 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 1444,7 | 1588,0 | 1725,3 | 1890,3 |
| Input power | kW | 296,0 | 328,4 | 364,3 | 404,7 |
| Heating total input current | A | 485,0 | 583,0 | 639,0 | 716,0 |
| COP | W/W | 4,88 | 4,83 | 4,74 | 4,67 |
| Water flow rate system side | l/h | 250963 | 275857 | 299728 | 328385 |
| Pressure drop system side | kPa | 36 | 35 | 29 | 35 |
| Water flow rate source side | l/h | 335840 | 368447 | 397507 | 434518 |
| Pressure drop source side | kPa | 59 | 65 | 48 | 58 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 |
|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | |
| SEER | W/W | 6,71 | 6,96 | 6,87 | 6,43 | 6,80 | 6,79 | 6,69 | 6,69 | 7,01 | 6,99 | 6,58 |
| Seasonal efficiency | % | 265,30 | 275,30 | 271,70 | 254,00 | 269,00 | 268,40 | 264,60 | 264,70 | 277,20 | 276,70 | 260,30 |
| SEPR - (EN 14825: 2018) High temperature (2) | | | | | | | | | | | | |
| SEPR | W/W | 8,20 | 8,00 | 8,20 | 8,00 | 8,00 | 8,00 | 8,00 | 7,90 | 8,10 | 8,10 | 8,10 |
| (4) C. L. L. C | IVADIADIE | | | | | | | | | | | |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature. (2) Calculation performed with VARIABLE water flow rate.

| Size | | | 6703 | 7203 | 8403 | 9603 |
|----------------------------------|---------------|-----|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | |
| SEER | °,A | W/W | 7,11 | 7,14 | 7,03 | 6,94 |
| Seasonal efficiency | °,A | % | 281,30 | 282,50 | 278,30 | 274,40 |
| SEPR - (EN 14825: 2018) High ter | mperature (2) | | | | | |
| SEPR | °,A | W/W | 8,10 | 8,20 | 8,20 | 8,30 |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.

| (2) | Calculation | performed | with \ | VARIABLE | water f | low rate. |
|-----|-------------|-----------|--------|----------|---------|-----------|

| Size | | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 |
|---------------------------------------|-----------------|-------------------------|-----------------------|--------|--------|--------|--------|--------|
| UE 813/2013 performance in average am | bient condition | s (average) - 55 °C - I | Pdesignh ≤ 400 kW (1) | | | | | |
| Dalasianda | 0 | kW | - | - | - | - | - | - |
| Pdesignh | A | kW | 197,00 | 219,00 | 253,00 | 312,00 | 339,00 | 384,00 |
| CCOR | 0 | W/W | - | - | - | - | - | - |
| SCOP | A | W/W | 4,65 | 4,70 | 4,65 | 4,75 | 5,00 | 4,98 |
| | 0 | % | - | - | - | - | - | - |
| ηsh | A | % | 178,00 | 180,00 | 178,00 | 182,00 | 192,00 | 191,00 |

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

WFGN - version AE - gas R1234ze

| WFGN - version AE - gas K1234ze | | | | | | | | | | | | | |
|---|----------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
| Evaporator: E | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 121,0 | 137,5 | 154,5 | 196,6 | 214,1 | 243,2 | 297,4 | 329,0 | 390,9 | 442,4 | 480,9 | 529,0 |
| Input power | kW | 31,4 | 35,9 | 40,9 | 50,0 | 54,7 | 62,2 | 74,1 | 83,1 | 93,9 | 106,2 | 119,1 | 131,5 |
| Cooling total input current | A | 58,0 | 65,0 | 73,0 | 83,0 | 97,0 | 111,0 | 125,0 | 140,0 | 154,0 | 183,0 | 203,0 | 226,0 |
| EER | W/W | 3,85 | 3,83 | 3,77 | 3,93 | 3,92 | 3,91 | 4,02 | 3,96 | 4,16 | 4,17 | 4,04 | 4,02 |
| Evaporator water flow rate | I/h | 20792 | 23621 | 26548 | 33776 | 36780 | 41778 | 51103 | 56534 | 67168 | 76005 | 110092 | 90893 |
| Pressure drop evaporator side | kPa | 31 | 35 | 35 | 31 | 31 | 32 | 22 | 29 | 22 | 30 | 35 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 42,0 | 54,0 | 54,0 | 54,0 | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 89,0 | 89,0 | 89,0 |
| Gas line (C2) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Liquid line (C1) | Ø | 28,0 | 35,0 | 35,0 | 35,0 | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| (1) Service side water 12 $^{\circ}$ C / 7 $^{\circ}$ C; Condensing temperatu | ire 45 ℃ | | | | | | | | | | | | |
| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Evaporator: E | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 435,2 | 495,4 | 598,4 | 665,6 | 796,3 | 895,9 | 964,3 | 1068,0 | 1165,6 | 1325,4 | 1443,9 | 1565,4 |
| Input power | kW | 109,2 | 124,2 | 148,1 | 164,9 | 188,7 | 212,3 | 238,2 | 262,9 | 279,7 | 316,3 | 354,8 | 392,2 |
| Cooling total input current | A | 193,0 | 222,0 | 250,0 | 279,0 | 310,0 | 365,0 | 405,0 | 451,0 | 459,0 | 545,0 | 603,0 | 673,0 |
| EER | W/W | 3,99 | 3,99 | 4,04 | 4,04 | 4,22 | 4,22 | 4,05 | 4,06 | 4,17 | 4,19 | 4,07 | 3,99 |
| Evaporator water flow rate | I/h | 74770 | 85110 | 102813 | 114362 | 136819 | 153933 | 165685 | 183500 | 200259 | 227721 | 248077 | 268953 |
| Pressure drop evaporator side | kPa | 60 | 48 | 49 | 63 | 50 | 63 | 45 | 56 | 34 | 46 | 43 | 24 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | 42,0 | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | 54,0 | 54,0 | 54,0 | 54,0 |
| • | | | | | | | | | | | | | |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WFGN - version °E - gas R1234ze

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Evaporator: E | | | | | |
| Cooling performance 12 °C/7 °C - gas R1234ze (1) | | | | | |
| Cooling capacity | kW | 1129,2 | 1283,0 | 1378,4 | 1504,1 |
| Input power | kW | 282,3 | 319,1 | 356,8 | 394,8 |
| Cooling total input current | A | 463,0 | 549,0 | 606,0 | 676,0 |
| EER | W/W | 4,00 | 4,02 | 3,86 | 3,81 |
| Evaporator water flow rate | I/h | 194017 | 220439 | 236821 | 258428 |
| Pressure drop evaporator side | kPa | 35 | 41 | 30 | 36 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ELECTRIC DATA

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 |
|-----------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A | 106,0 | 119,0 | 136,0 | 162,0 | 183,0 | 208,0 | 243,0 | 275,0 | 305,0 | 350,0 | 365,0 | 389,0 | 416,0 | 427,0 | 486,0 | 549,0 | 609,0 | 700,0 | 777,0 | 854,0 |
| Peak current (LRA) | A | 163 | 192 | 229 | 300 | 314 | 341 | 436 | 465 | 586 | 650 | 440 | 805 | 486 | 917 | 601 | 650 | 792 | 890 | 1070 | 1210 |
| Size | | | | | | | 67 | 03 | | | 72 | 03 | | | 84 | 03 | | | 96 | 03 | |
| Electric data | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,A | | ŀ | l . | | | 91. | 3,0 | | | 105 | 0,0 | | | 116 | 6,0 | | | 128 | 31,0 | |

GENERAL TECHNICAL DATA

| Size | | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
|--|--------------------|---------------|-------------|-------------|-------------|----------------|------------|--------------|--------------|---------------|------------|-------------|---------------|-------|----------|-------|
| Compressor | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | Scr | rew | | | | | | |
| Compressor regulation | °,A | Туре | | | | | | | On- | -Off | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| Circuits | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| Refrigerant | °,A | type | | | | | | | R12 | 34ze | | | | | | |
| Deficience the design is 1/1 | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Refrigerant load circuit 1 (1) | A | kg | 41,0 | 41,0 | 38,0 | 59,0 | 57,0 | 72,0 | 66,0 | 61,0 | 85,0 | 81,0 | 50,0 | 110,0 | 53,0 | 104,0 |
| Define we want local singuist 2 (1) | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Refrigerant load circuit 2 (1) | A | kg | - | - | - | - | - | - | - | - | - | - | 50,0 | - | 53,0 | - |
| Refrigerant load circuit 3 (1) | °,A | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| System side heat exchanger | | - | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | Shell a | nd tube | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,A | Туре | | | | | | | Groove | d joints | | | | | | |
| Source side heat exchanger | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | Shell a | nd tube | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 |
| Connections (in/out) | °,A | Туре | | | | | | | Groove | d joints | | | | | | |
| (1) The load indicated in the table is an es | stimated and preli | iminary value | . The final | value of th | e refrigera | nt load is ind | licated on | the unit's t | echnical lab | el. For furth | ner inform | ation conta | ct the office | 2. | | |
| Size | | | 37 | 202 | 3602 | 4202 | | 4802 | 5602 | 640 | 2 | 6703 | 7203 | 84 | 03 | 9603 |
| Compressor | | | | | 3002 | 1202 | | 1002 | 3002 | 0.10 | | 0,03 | 7203 | | - | 7005 |
| Туре | °,A | type | | | | | | | 9 | crew | | | | | | |
| Compressor regulation | °,A | Туре | | | | | | | | n-Off | | | | | | |
| Number | °,A | no. | | 2 | 2 | 2 | | 2 | 2 | 2 | | 3 | 3 | | } | 3 |
| Circuits | °,A | no. | | 2 | 2 | 2 | | 2 | 2 | 2 | | 3 | 3 | | | 3 |
| Refrigerant | °,A | type | | | | | | | | 1234ze | | | | | <u> </u> | |
| | 0 | kg | | _ | _ | _ | | - | - | - | | 107,0 | 115,0 | 130 | 5.0 | 157,0 |
| Refrigerant load circuit 1 (1) | A | ka | 8 | 1,0 | 71,0 | 70,0 | | 123.0 | 124,0 | 121, | | 106,0 | 104.0 | 110 | | 120.0 |
| | 0 | kg | | - | - | - | | - | - | - | | 107,0 | 115,0 | 130 | , - | 157,0 |
| Refrigerant load circuit 2 (1) | A | kg | 8 | 1,0 | 71,0 | 70,0 | 1 | 123,0 | 124,0 | 121, | | 106,0 | 104,0 | 110 | , . | 120,0 |
| | 0 | kg | | - | - | - | | - | - | - 121, | | 107,0 | 115,0 | 130 | | 157,0 |
| Refrigerant load circuit 3 (1) | A | kg | | _ | _ | _ | | _ | _ | _ | | 106,0 | 104,0 | 110 | | 120,0 |
| 6 | | ny | | | | | | | | | | 100,0 | 10-1,0 | 110 | ,,~ | 120,0 |

SOUND DATA

System side heat exchanger

Source side heat exchanger

Туре

Туре

Number

Number

Connections (in/out)

Connections (in/out)

| Size | | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-----------------------|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Refrigerant gas: ° | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard equipment | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C (1) | 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 97,0 | 97,2 | 99,5 | 100,0 |
| Sound power level (1) | A | dB(A) | 87,7 | 88,0 | 87,7 | 89,1 | 90,3 | 91,3 | 90,5 | 90,7 | 93,2 | 92,5 | 93,5 | 94,8 | 94,0 | 94,2 | 94,0 | 94,5 | 95,0 | 95,5 | 97,5 | 98,0 | 97,0 | 97,2 | 99,5 | 100,0 |
| Silenced equipment | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cound nouse lovel (1) | 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 93,0 | 93,2 | 95,5 | 96,0 |
| Sound power level (1) | A | dB(A) | 83,7 | 84,0 | 83,7 | 85,1 | 86,3 | 87,3 | 86,5 | 86,7 | 89,2 | 88,5 | 89,5 | 90,8 | 90,0 | 90,2 | 90,0 | 90,5 | 91,0 | 91,5 | 93,5 | 94,0 | 93,0 | 93,2 | 95,5 | 96,0 |

Shell and tube

Grooved joints

Shell and tube

1

type

no.

Туре

type

no.

°,A

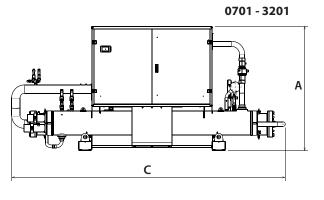
°,A

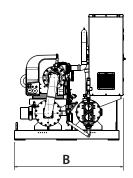
°,A

Туре Grooved joints (1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

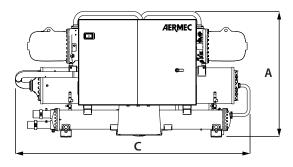
⁽¹⁾ Sound power: calculated in agreement with the Standard UNI EN ISO 9614-2, in compliance with that requested by Eurovent certification.

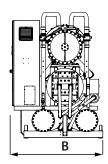
DIMENSIONS





2502 - 9603





| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Set-up: ° | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | | |
| <u>A</u> | mm | 1720 | 1720 | 1720 | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2000 | 1920 | 2075 | 1920 | 2195 | 2195 | 2340 | 2432 | 2440 | 2432 |
| В | mm | 1450 | 1450 | 1450 | 1510 | 1550 | 1610 | 1610 | 1610 | 1610 | 1610 | 1500 | 1630 | 1500 | 1630 | 1575 | 1575 | 1585 | 1775 | 1775 | 1820 |
| C | mm | 3480 | 3480 | 3480 | 3470 | 3445 | 3560 | 4100 | 4100 | 4140 | 4252 | 4320 | 4290 | 4345 | 4290 | 4380 | 4380 | 4395 | 4535 | 4605 | 4605 |
| Empty weight | kg | 1610 | 1630 | 1630 | 2120 | 2130 | 2350 | 2940 | 2980 | 3260 | 3320 | 3810 | 3820 | 4100 | 3870 | 5690 | 5750 | 6300 | 6670 | 6970 | 7070 |
| Set-up: L | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | | |
| A | mm | 1720 | 1720 | 1720 | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2000 | 1920 | 2075 | 1920 | 2195 | 2195 | 2340 | 2432 | 2440 | 2432 |
| В | mm | 1450 | 1450 | 1450 | 1540 | 1600 | 1610 | 1610 | 1610 | 1630 | 1630 | 1500 | 1645 | 1500 | 1645 | 1575 | 1575 | 1585 | 1775 | 1775 | 1820 |
| C | mm | 3480 | 3480 | 3480 | 3470 | 3445 | 3560 | 4100 | 4100 | 4140 | 4252 | 4320 | 4290 | 4345 | 4290 | 4650 | 4650 | 4600 | 5015 | 5150 | 5150 |
| Empty weight | kg | 1770 | 1790 | 1790 | 2280 | 2290 | 2510 | 3120 | 3170 | 3450 | 3510 | 4120 | 4030 | 4410 | 4080 | 6050 | 6120 | 6670 | 7040 | 7420 | 7490 |
| Size | | | | | | | | | | | | | | | 84 | 03 | | | 96 | 03 | |
| Set-up:° | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | | |
| A | °,A | | mı | m | | | 22 | 50 | | | 22 | 50 | | | 22 | 50 | | | 22 | 50 | |
| В | °,A | | mı | m | | | 22 | 00 | | | 22 | 00 | | | 22 | 00 | | | 22 | .00 | |
| r | 0 | | mı | m | | | 56 | 50 | | | 56 | 50 | | | 56 | 50 | | | 56 | 50 | |
| | A | | mı | m | | | 68 | 40 | | | 68 | 40 | | | 68 | 40 | | | 68 | 40 | |
| Empty weight | | | k |] | | | 93 | 30 | | | 99 | 10 | | | 101 | 130 | | | 102 | 200 | |
| Empty weight | A | | k |] | | | 103 | 20 | | | 116 | 570 | | | 122 | 270 | | | 123 | 360 | |
| Set-up: L | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | | | | | | | | | | | |
| A | °,A | | mı | m | | | 22 | 50 | | | 22 | 50 | | | 22 | 50 | | | 22 | 50 | |
| В | °,A | | mı | m | | | 22 | 00 | | | 22 | 00 | | | 22 | 00 | | | 22 | .00 | |
| ſ | • | | mı | m | | | 56 | 50 | | | 56 | 50 | | | 56 | 50 | | | 56 | 50 | |
| | Α | | mı | m | | | 68 | 40 | | | 68 | 40 | | | 68 | 40 | | | 68 | 40 | |
| Empty weight | • | | k |] | | | 98 | 90 | | | 104 | 170 | | | 107 | 760 | | | 108 | 830 | |
| Linipty weight | A | | k |] | | | 108 | 80 | | | 122 | 230 | | | 129 | 950 | | | 129 | 990 | |

■ For the sizes of D-T-E versions please contact the factory.

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com



















WFI

Water cooled heat pump reversible water side

Cooling capacity 291 ÷ 2406 kW Heating capacity 326 ÷ 2664 kW



- Condenser side hot water production up to 60°C.
- Production of chilled water down to -8°C.
- Available also R513A refrigerant gas





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16° C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 60° C depending on the model.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Mono, bi-tri circuit unit

Unit with 1-2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

All units are equipped with an inverter compressor combined with an on-off compressor (two-circuit sizes) or two on/off compressors (three-circuit sizes) with R134a refrigerant.

The R513A (XP10) refrigerant with this type of gas is also available on the configurator. On average, the units have a yield > 2% and an EER < 3% compared to the same size with R134a.

For further details refer to the technical documentation or to the Magellano selection program.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ISG: Insulation kit for condensers. Mandatory accessory for machine functioning in heat pump; standard in units with desuperheater or with heat recovery.

ACCESSORIES COMPATIBILITY

| Model | Ver | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | А | | | | | | | | | | | | | | | | | | | | | |
| AER485P1 x n° 2 (1) | A | | | | | | | | • | | • | | • | • | • | • | • | • | | | | |
| AER485P1 x n° 3 (1) | °,A | | | | | | | | | | | | | | | | | | • | • | • | • |
| AFDDACD | 0 | | | | | | | | | | | | | | | | | | • | • | • | • |
| AERBACP - | A | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • |
| AFDNET | 0 | | | | | | | | | | | | | | | | | | • | • | • | • |
| AERNET - | A | | | | | | | | | | | | | | | | • | • | | • | • | • |
| MUITICUILLED EVO | 0 | | | | | | | | | | | | | | | | | | • | • | • | • |
| MULTICHILLER_EVO - | A | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | | • | • | • |
| DCD1 | 0 | | | | | | | | | | | | | | | | | | • | • | • | • |
| PGD1 - | А | • | | • | • | • | • | • | • | | • | • | • | | • | • | | | | | | |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Version | Set-up | Heat recovery | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
|---------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|-------------|--------|
| 0 | °,K,L | °,D,T | - | - | - | - | - | - | - | - | - | - | - |
| A | 0 | 0 | AVX680 | AVX680 | AVX681 | AVX687 | AVX687 | AVX682 | AVX685 | AVX673 | AVX683 | AVX674 | AVX683 |
| A | K | 0 | AVX681 | AVX681 | AVX688 | AVX682 | AVX682 | AVX685 | AVX683 | Contact us. | AVX683 | Contact us. | AVX683 |
| A | L | 0 | AVX681 | AVX681 | AVX681 | AVX682 | AVX682 | AVX682 | AVX683 | AVX674 | AVX683 | AVX674 | AVX683 |
| A | °,L | D,T | - | - | - | - | - | - | - | AVX674 | - | AVX674 | - |
| A | K | D,T | - | - | - | - | - | - | - | Contact us. | - | Contact us. | - |

| Version | Set-up | Heat recovery | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------|--------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | °,K,L | °,D,T | - | - | - | - | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | 0 | °,D | AVX679 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | L | ٥ | AVX679 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | K | °,D,T | Contact us. |
| Α | 0 | T | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | L | D,T | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |

not available

Power factor correction

| Ver | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 |
|-----|------|------|------|------|------|------|------|------------|------|------------|------|
| А | _ | - | - | _ | - | - | _ | RIFWFI2502 | _ | RIFWFI2802 | _ |

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

Ver 3202 3602 4202 4802 5602 6402 6703 7203 8403 9603 RIFWFI9603 RIFWFI7203 RIFWFI8403 RIFWFI6703 RIFWFI3202 RIFWFI3602 RIFWFI4202 RIFWFI4802 RIFWFI5602 RIFWFI6402 RIFWFI6703 RIFWFI7203 RIFWFI8403 RIFWFI9603

A grey background indicates the accessory must be assembled in the factory

1101

For the size of the units with the RIF accessory we ask you to contact the headquarters.

1401

1251

Isolating kit Ver

| A | ISG10 | ISG11 | ISG12 | ISG13 | ISG13 | ISG14 | ISG14 | ISG1 | ISG15 | ISG1 | ISG15 |
|---------------------|-------------------------|--------------------|------------------|-------|-----------|-------|----------|---------------------|---------------------|--------------|---------------------|
| A grey background i | indicates the accessory | / must be assemble | d in the factory | | | | | | | | |
| | | | | | | | | | | | |
| Ver | 3202 | 3602 | 4202 | 4802 | 5602 | 6 | 402 | 6703 | 7203 | 8403 | 9603 |
| Ver ° | 3202 | 3602 - | 4202 | 4802 | 5602 - | | 402 - | 6703 ISG5 | 7203 ISG5 | 8403 ISG6 | 9603 ISG6 |

1801

2101

2401

2502

2801

2802

3201

1601

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WFI |
| 4,5,6,7 | Size 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603 |
| 8 | Model |
| 0 | Standard condensation |
| Н | Optimised for high condensation |
| 9 | Version |
| 0 | Standard (1) |
| Α | High efficiency |
| 10 | Operating field |
| Χ | Electronic thermostatic expansion valve (2) |
| Z | Double electronic thermostatic for low temperature (3) |
| 11 | Set-up |
| 0 | Standard without hood |
| K | Super silenced |
| L | Silenced with hood |
| 12 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (4) |
| T | With total recovery (4) |
| 13 | Evaporator |
| 0 | Standard |
| E | Evaporating unit |
| 14 | Power supply |
| 0 | 400V ~ 3 50Hz with fuses |
| 8 | 400V ~ 3 50Hz with magnet circuit breakers (5) |
| 15 | Refrigerant gas |
| 0 | R134a |
| G | R513A (XP10) (6) |

MODEL PERFORMANCE DATA (°) - FOR TEMPERATURES WATER PRODUCED UP TO +55°C

WFI 1101 - 3201 - model (°) version A - gas R134a

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | |
| Cooling capacity | kW | 291,4 | 339,7 | 388,2 | 433,5 | 496,2 | 552,0 | 635,3 | 714,7 | 783,3 |
| Input power | kW | 55,9 | 66,5 | 75,6 | 85,1 | 98,6 | 111,6 | 122,5 | 138,9 | 148,8 |
| Cooling total input current | A | 95,0 | 111,0 | 125,0 | 140,0 | 161,0 | 181,0 | 199,0 | 223,0 | 241,0 |
| EER | W/W | 5,21 | 5,11 | 5,13 | 5,09 | 5,03 | 4,95 | 5,19 | 5,15 | 5,26 |
| Water flow rate source side | l/h | 59350 | 69394 | 79271 | 88730 | 101760 | 113566 | 129637 | 145972 | 159590 |
| Pressure drop source side | kPa | 42 | 41 | 36 | 32 | 30 | 30 | 33 | 33 | 31 |
| Water flow rate system side | l/h | 50123 | 58428 | 66772 | 74535 | 85331 | 94907 | 109229 | 122894 | 134668 |
| Pressure drop system side | kPa | 38 | 43 | 45 | 27 | 32 | 24 | 35 | 45 | 26 |
| Heating performances 40 °C / 45 °C - gas R134a (2) | | | | | | | | | | |
| Heating capacity | kW | 326,0 | 387,7 | 437,0 | 490,2 | 566,3 | 631,1 | 707,9 | 798,2 | 873,1 |
| Input power | kW | 74,3 | 88,1 | 97,5 | 106,3 | 126,9 | 143,0 | 156,9 | 178,5 | 189,7 |
| Heating total input current | A | 125,0 | 144,0 | 158,0 | 173,0 | 204,0 | 230,0 | 251,0 | 281,0 | 305,0 |
| COP | W/W | 4,39 | 4,40 | 4,48 | 4,61 | 4,46 | 4,41 | 4,51 | 4,47 | 4,60 |
| Water flow rate system side | l/h | 56587 | 67319 | 75890 | 85131 | 98344 | 109614 | 122953 | 138630 | 151661 |
| Pressure drop system side | kPa | 39 | 39 | 33 | 29 | 28 | 28 | 30 | 29 | 28 |
| Water flow rate source side | l/h | 74024 | 88235 | 99938 | 112439 | 128897 | 142918 | 161620 | 182106 | 199956 |
| Pressure drop source side | kPa | 83 | 98 | 101 | 61 | 74 | 54 | 76 | 98 | 57 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

⁽¹⁾ Only for sizes from 6703 to 9603 (2) Water produced from 0 °C ÷ 16 °C (3) Water produced from -8 °C up to 10 °C

⁽⁴⁾ Not available for the condenserless "E" (5) Not available for 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2801, 3201 size (6) For further details refer to the technical documentation or to the Magellano selection program.

WFI 2502 - 9603 - model (°) version A - gas R134a

| | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-----|---|--|--|--|---|---|---|---|--|---|---|--|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| kW | 670,0 | 757,4 | 889,1 | 1002,3 | 1143,6 | 1304,6 | 1441,8 | 1621,2 | 1771,2 | 1940,6 | 2167,0 | 2406,5 |
| kW | 127,4 | 144,9 | 168,9 | 192,8 | 218,4 | 244,5 | 275,3 | 309,9 | 327,6 | 362,0 | 410,0 | 458,2 |
| Α | 214,0 | 244,0 | 277,0 | 315,0 | 351,0 | 399,0 | 446,0 | 497,0 | 527,0 | 597,0 | 667,0 | 751,0 |
| W/W | 5,26 | 5,23 | 5,26 | 5,20 | 5,24 | 5,34 | 5,24 | 5,23 | 5,41 | 5,36 | 5,29 | 5,25 |
| l/h | 136129 | 154084 | 180866 | 204404 | 232973 | 264813 | 293658 | 330152 | 359034 | 393872 | 440716 | 490182 |
| kPa | 55 | 58 | 48 | 46 | 44 | 47 | 48 | 48 | 38 | 31 | 32 | 40 |
| l/h | 115215 | 130225 | 152866 | 172295 | 196591 | 224275 | 247834 | 278670 | 304461 | 333577 | 372486 | 413608 |
| kPa | 53 | 43 | 38 | 27 | 31 | 44 | 31 | 39 | 45 | 54 | 57 | 33 |
| | | | | | | | | | | | | |
| kW | 746,2 | 839,5 | 979,7 | 1112,5 | 1270,4 | 1441,8 | 1597,0 | 1815,3 | 1951,6 | 2145,2 | 2391,0 | 2664,3 |
| kW | 165,1 | 183,8 | 210,4 | 242,5 | 276,5 | 310,2 | 346,1 | 394,1 | 414,4 | 459,6 | 518,3 | 573,6 |
| Α | 273,0 | 305,0 | 341,0 | 394,0 | 441,0 | 499,0 | 556,0 | 624,0 | 656,0 | 743,0 | 826,0 | 931,0 |
| W/W | 4,52 | 4,57 | 4,66 | 4,59 | 4,59 | 4,65 | 4,61 | 4,61 | 4,71 | 4,67 | 4,61 | 4,64 |
| l/h | 129578 | 145788 | 170162 | 193225 | 220670 | 250442 | 277422 | 315345 | 339051 | 372698 | 415418 | 462891 |
| kPa | 50 | 51 | 42 | 41 | 40 | 42 | 43 | 44 | 34 | 28 | 28 | 36 |
| I/h | 171302 | 192864 | 225753 | 254786 | 291203 | 332319 | 366559 | 417106 | 451025 | 495203 | 550498 | 612203 |
| kPa | 118 | 95 | 82 | 60 | 67 | 97 | 69 | 88 | 98 | 118 | 125 | 73 |
| | kW A W/W I/h kPa I/h kPa kW kW A W/W I/h kPa I/h kPa | kW 670,0 kW 127,4 A 214,0 W/W 5,26 I/h 136129 kPa 55 I/h 115215 kPa 53 kW 746,2 kW 165,1 A 273,0 W/W 4,52 I/h 129578 kPa 50 I/h 171302 | kW 670,0 757,4 kW 127,4 144,9 A 214,0 244,0 W/W 5,26 5,23 I/h 136129 154084 kPa 55 58 I/h 115215 130225 kPa 53 43 kW 746,2 839,5 kW 165,1 183,8 A 273,0 305,0 W/W 4,52 4,57 I/h 129578 145788 kPa 50 51 I/h 171302 192864 kPa 118 95 | kW 670,0 757,4 889,1 kW 127,4 144,9 168,9 A 214,0 244,0 277,0 W/W 5,26 5,23 5,26 I/h 136129 154084 180866 kPa 55 58 48 I/h 115215 130225 152866 kPa 53 43 38 kW 746,2 839,5 979,7 kW 165,1 183,8 210,4 A 273,0 305,0 341,0 W/W 4,52 4,57 4,66 I/h 129578 145788 170162 kPa 50 51 42 I/h 171302 192864 225753 kPa 118 95 82 | kW 670,0 757,4 889,1 1002,3 kW 127,4 144,9 168,9 192,8 A 214,0 244,0 277,0 315,0 W/W 5,26 5,23 5,26 5,20 I/h 136129 154084 180866 204404 kPa 55 58 48 46 I/h 115215 130225 152866 172295 kPa 53 43 38 27 kW 746,2 839,5 979,7 1112,5 kW 165,1 183,8 210,4 242,5 A 273,0 305,0 341,0 394,0 W/W 4,52 4,57 4,66 4,59 I/h 129578 145788 170162 193225 kPa 50 51 42 41 I/h 171302 192864 225753 254786 kPa 118 95 82 | kW 670,0 757,4 889,1 1002,3 1143,6 kW 127,4 144,9 168,9 192,8 218,4 A 214,0 244,0 277,0 315,0 351,0 W/W 5,26 5,23 5,26 5,20 5,24 I/h 136129 154084 180866 204404 232973 kPa 55 58 48 46 44 I/h 115215 130225 152866 172295 196591 kPa 53 43 38 27 31 kW 746,2 839,5 979,7 1112,5 1270,4 kW 165,1 183,8 210,4 242,5 276,5 A 273,0 305,0 341,0 394,0 441,0 W/W 4,52 4,57 4,66 4,59 4,59 I/h 129578 145788 170162 193225 220670 kPa 50 | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 kW 127,4 144,9 168,9 192,8 218,4 244,5 A 214,0 244,0 277,0 315,0 351,0 399,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 I/h 136129 154084 180866 204404 232973 264813 kPa 55 58 48 46 44 47 I/h 115215 130225 152866 172295 196591 224275 kPa 53 43 38 27 31 44 kW 746,2 839,5 979,7 1112,5 1270,4 1441,8 kW 165,1 183,8 210,4 242,5 276,5 310,2 A 273,0 305,0 341,0 394,0 441,0 499,0 W/W 4,52 4,57 4,66 4,59 | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 I/h 136129 154084 180866 204404 232973 264813 293658 kPa 55 58 48 46 44 47 48 I/h 115215 130225 152866 172295 196591 224275 247834 kPa 53 43 38 27 31 44 31 kW 746,2 839,5 979,7 1112,5 1270,4 1441,8 1597,0 kW 165,1 183,8 210,4 242,5 276,5 310,2 346,1 A 273,0 305, | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 I/h 136129 154084 180866 204404 232973 264813 293658 330152 kPa 55 58 48 46 44 47 48 48 I/h 115215 130225 152866 172295 196591 224275 247834 278670 kPa 53 43 38 27 31 44 31 39 kW 746,2 839,5 979,7 1112,5 1270,4 1441,8 1597,0 1815,3 kW 165,1 <th< td=""><td>kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 kPa 55 58 48 46 44 47 48 48 38 I/h 115215 130225 152866 172295 196591 224275 247834 278670 304461 kPa 53 43 38 27 31 44 31 39 45 kW 746,2 839,5 979,7 1</td><td>kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 1940,6 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 362,0 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 597,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 5,36 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 393872 kPa 55 58 48 46 44 47 48 48 38 31 I/h 115215 130225 152866 172295 196591 224275 247834 278670 304461 333577 kPa 53 43 38 27 31 44 31</td><td>kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 1940,6 2167,0 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 362,0 410,0 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 597,0 667,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 5,36 5,29 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 393872 440716 kPa 55 58 48 46 44 47 48 48 38 31 32 I/h 115215 130225 152866 172295 196591 224275 247834 278670 30461 333577 372486</td></th<> | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 kPa 55 58 48 46 44 47 48 48 38 I/h 115215 130225 152866 172295 196591 224275 247834 278670 304461 kPa 53 43 38 27 31 44 31 39 45 kW 746,2 839,5 979,7 1 | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 1940,6 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 362,0 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 597,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 5,36 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 393872 kPa 55 58 48 46 44 47 48 48 38 31 I/h 115215 130225 152866 172295 196591 224275 247834 278670 304461 333577 kPa 53 43 38 27 31 44 31 | kW 670,0 757,4 889,1 1002,3 1143,6 1304,6 1441,8 1621,2 1771,2 1940,6 2167,0 kW 127,4 144,9 168,9 192,8 218,4 244,5 275,3 309,9 327,6 362,0 410,0 A 214,0 244,0 277,0 315,0 351,0 399,0 446,0 497,0 527,0 597,0 667,0 W/W 5,26 5,23 5,26 5,20 5,24 5,34 5,24 5,23 5,41 5,36 5,29 I/h 136129 154084 180866 204404 232973 264813 293658 330152 359034 393872 440716 kPa 55 58 48 46 44 47 48 48 38 31 32 I/h 115215 130225 152866 172295 196591 224275 247834 278670 30461 333577 372486 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

WFI 6703 - 9603 - model (°) version ° - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: ° | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | |
| Cooling capacity | kW | 1723,4 | 1905,7 | 2114,5 | 2327,9 |
| Input power | kW | 331,7 | 366,9 | 409,8 | 463,6 |
| Cooling total input current | A | 522,0 | 592,0 | 659,0 | 744,0 |
| EER | W/W | 5,20 | 5,19 | 5,16 | 5,02 |
| Water flow rate source side | l/h | 350768 | 387913 | 431371 | 476493 |
| Pressure drop source side | kPa | 73 | 69 | 58 | 71 |
| Water flow rate system side | l/h | 296246 | 327572 | 363441 | 400118 |
| Pressure drop system side | kPa | 47 | 51 | 39 | 46 |
| Heating performances 40 °C / 45 °C - gas R134a (2) | | | | | |
| Heating capacity | kW | 1909,4 | 2114,9 | 2342,8 | 2593,9 |
| Input power | kW | 418,2 | 463,2 | 513,0 | 581,3 |
| Heating total input current | A | 651,0 | 737,0 | 817,0 | 922,0 |
| COP | W/W | 4,57 | 4,57 | 4,57 | 4,46 |
| Water flow rate system side | l/h | 331680 | 367403 | 407019 | 450652 |
| Pressure drop system side | kPa | 65 | 62 | 52 | 63 |
| Water flow rate source side | l/h | 438855 | 486287 | 537130 | 592236 |
| Pressure drop source side | kPa | 103 | 112 | 85 | 102 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

Energy indices (Reg. 2016/2281 EU)

| znergy marces (negr zo ro). | | ' / | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Model: ° | | | | | | | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) . refrigerant g | jas R134a (1 |) | | | | | | | | | | | | | | | | | | | | | |
| Concornal officionsy | 0 | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 319,80 | 319,20 | 318,20 | 313,60 |
| Seasonal efficiency — | Α | % | 337,10 | 343,20 | 342,80 | 348,90 | 348,20 | 350,10 | 347,00 | 339,20 | 351,20 | 340,00 | 355,00 | 341,70 | 340,20 | 337,90 | 340,30 | 343,50 | 344,30 | 343,10 | 341,00 | 340,50 | 342,50 |
| SEER - | 0 | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,07 | 8,06 | 8,03 | 7,92 |
| JEER - | Α | W/W | 8,50 | 8,66 | 8,65 | 8,80 | 8,78 | 8,83 | 8,75 | 8,56 | 8,86 | 8,58 | 8,95 | 8,62 | 8,58 | 8,52 | 8,58 | 8,66 | 8,68 | 8,65 | 8,60 | 8,59 | 8,64 |
| SEPR - (EN 14825: 2018) High temperature | e - refrigerar | nt gas R' | 134a (2 |) | | | | | | | | | | | | | | | | | | | |
| SEPR - | 0 | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,60 | 8,60 | 8,40 | 8,40 |
| JETN - | A | W/W | 9,40 | 9,40 | 9,30 | 8,70 | 9,30 | 8,90 | 9,10 | 9,10 | 9,00 | 9,00 | 8,90 | 8,90 | 8,80 | 8,90 | 8,80 | 8,90 | 8,90 | 9,00 | 8,80 | 8,60 | 8,80 |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with VARIABLE water flow rate.

Electric data

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Model: ° | | | | | | | | | | | | | | | | | | | | | | | |
| Gas R134a | | | | | | | | | | | | | | | | | | | | | | | |
| Manimum surrent (FLA) | 0 | Α | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 862,9 | 965,5 | 1077,5 | 1211,4 |
| Maximum current (FLA) | A | Α | 163,0 | 189,0 | 206,0 | 226,0 | 262,0 | 300,0 | 329,0 | 354,5 | 371,0 | 395,1 | 405,0 | 447,5 | 511,1 | 576,7 | 647,2 | 724,3 | 824,0 | 862,9 | 965,5 | 1077,5 | 1211,4 |
| Deals surrount (LDA) | 0 | Α | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1176,0 | 1301,0 | 1533,0 | 1744,0 |
| Peak current (LRA) | A | Α | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 506,0 | 23,0 | 550,0 | 23,0 | 666,0 | 730,0 | 889,0 | 982,0 | 1179,0 | 1355,0 | 1176,0 | 1301,0 | 1533,0 | 1744,0 |

MODEL PERFORMANCE DATA (H) - FOR TEMPERATURES WATER PRODUCED UP TO +60°C

WFI 1101 - 3201 - model (H) version A - gas R134a

| Size | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | | | | | | |
| Cooling capacity | kW | 294,7 | 338,4 | 389,7 | 436,1 | 479,8 | 540,5 | 637,9 | 703,6 | 781,8 |
| Input power | kW | 57,3 | 67,1 | 79,0 | 87,4 | 98,3 | 110,3 | 127,2 | 142,1 | 162,7 |
| Cooling total input current | Α | 98,0 | 112,0 | 129,0 | 143,0 | 159,0 | 177,0 | 206,0 | 228,0 | 262,0 |
| EER | W/W | 5,15 | 5,05 | 4,94 | 4,99 | 4,88 | 4,90 | 5,02 | 4,95 | 4,80 |
| Water flow rate source side | l/h | 60130 | 69281 | 80074 | 89564 | 98879 | 111372 | 130851 | 144597 | 161585 |
| Pressure drop source side | kPa | 44 | 41 | 37 | 32 | 30 | 30 | 33 | 32 | 33 |
| Water flow rate system side | l/h | 50692 | 58217 | 67029 | 74994 | 82505 | 92934 | 109677 | 120988 | 134409 |
| Pressure drop system side | kPa | 39 | 44 | 46 | 26 | 32 | 24 | 35 | 43 | 27 |
| Heating performances 40 °C / 45 °C - gas R134a (2) | | | | | | | | | | |
| Heating capacity | kW | 325,5 | 376,9 | 434,9 | 486,7 | 538,4 | 604,0 | 709,5 | 783,3 | 871,3 |
| Input power | kW | 70,4 | 82,2 | 96,5 | 105,2 | 119,3 | 133,5 | 151,5 | 168,8 | 185,2 |
| Heating total input current | Α | 118,0 | 135,0 | 155,0 | 170,0 | 190,0 | 212,0 | 241,0 | 265,0 | 295,0 |
| COP | W/W | 4,63 | 4,58 | 4,51 | 4,63 | 4,51 | 4,52 | 4,68 | 4,64 | 4,71 |
| Water flow rate system side | l/h | 56513 | 65431 | 75521 | 84523 | 93497 | 104898 | 123224 | 136049 | 151346 |
| Pressure drop system side | kPa | 39 | 37 | 33 | 29 | 27 | 27 | 29 | 29 | 29 |
| Water flow rate source side | l/h | 74998 | 86674 | 99584 | 111688 | 122874 | 137657 | 163575 | 180444 | 200734 |
| Pressure drop source side | kPa | 86 | 97 | 100 | 58 | 71 | 52 | 78 | 97 | 59 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFI 2502 - 9603 - model (H) version A - gas R134a

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 672,4 | 770,8 | 886,7 | 999,1 | 1145,7 | 1305,1 | 1454,0 | 1620,1 | 1770,6 | 1939,2 | 2161,5 | 2375,7 |
| Input power | kW | 132,4 | 153,1 | 173,5 | 195,9 | 224,6 | 254,6 | 288,9 | 327,3 | 340,1 | 376,7 | 435,1 | 482,5 |
| Cooling total input current | Α | 226,0 | 257,0 | 285,0 | 316,0 | 364,0 | 415,0 | 475,0 | 543,0 | 567,0 | 621,0 | 715,0 | 806,0 |
| EER | W/W | 5,08 | 5,04 | 5,11 | 5,10 | 5,10 | 5,13 | 5,03 | 4,95 | 5,21 | 5,15 | 4,97 | 4,92 |
| Water flow rate source side | l/h | 137384 | 157768 | 181226 | 204349 | 234273 | 266548 | 297970 | 332858 | 360998 | 396033 | 443977 | 488997 |
| Pressure drop source side | kPa | 53 | 55 | 48 | 48 | 49 | 48 | 50 | 46 | 36 | 32 | 32 | 38 |
| Water flow rate system side | l/h | 115641 | 132532 | 152452 | 171756 | 196959 | 224366 | 249941 | 278496 | 304349 | 333335 | 371531 | 408313 |
| Pressure drop system side | kPa | 54 | 44 | 36 | 27 | 32 | 44 | 32 | 40 | 46 | 54 | 51 | 30 |
| Heating performances 40 °C / 45 °C - gas R134a (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 741,6 | 852,1 | 975,8 | 1106,1 | 1267,8 | 1441,2 | 1611,1 | 1842,1 | 1948,7 | 2138,6 | 2398,1 | 2642,8 |
| Input power | kW | 160,3 | 184,4 | 206,0 | 235,2 | 268,6 | 305,3 | 343,0 | 388,6 | 408,5 | 453,9 | 520,2 | 571,4 |
| Heating total input current | Α | 268,0 | 305,0 | 334,0 | 376,0 | 431,0 | 490,0 | 558,0 | 633,0 | 669,0 | 732,0 | 838,0 | 945,0 |
| COP | W/W | 4,63 | 4,62 | 4,74 | 4,70 | 4,72 | 4,72 | 4,70 | 4,74 | 4,77 | 4,71 | 4,61 | 4,62 |
| Water flow rate system side | l/h | 128783 | 147970 | 169486 | 192116 | 220216 | 250335 | 279872 | 320004 | 338539 | 371554 | 416652 | 459154 |
| Pressure drop system side | kPa | 47 | 48 | 42 | 42 | 44 | 43 | 44 | 42 | 32 | 28 | 29 | 33 |
| Water flow rate source side | I/h | 171266 | 196282 | 225782 | 254976 | 292792 | 333536 | 371554 | 426498 | 451814 | 494844 | 551546 | 606152 |
| Pressure drop source side | kPa | 118 | 96 | 80 | 60 | 71 | 97 | 71 | 93 | 101 | 118 | 113 | 66 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

WFI 6703 - 9603 - model (H) version ° - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: H | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | |
| Cooling capacity | kW | 1706,6 | 1904,2 | 2109,2 | 2298,6 |
| Input power | kW | 343,5 | 381,7 | 434,3 | 486,5 |
| Cooling total input current | A | 561,0 | 616,0 | 705,0 | 796,0 |
| EER | W/W | 4,97 | 4,99 | 4,86 | 4,72 |
| Water flow rate source side | l/h | 349811 | 390073 | 434460 | 475234 |
| Pressure drop source side | kPa | 73 | 70 | 59 | 70 |
| Water flow rate system side | l/h | 293360 | 327313 | 362530 | 395080 |
| Pressure drop system side | kPa | 47 | 51 | 38 | 46 |
| Heating performances 40 °C / 45 °C - gas R134a (2) | | | | | |
| Heating capacity | kW | 1891,1 | 2108,3 | 2348,6 | 2571,3 |
| Input power | kW | 411,1 | 457,6 | 515,2 | 578,0 |
| Heating total input current | A | 662,0 | 727,0 | 826,0 | 933,0 |
| COP | W/W | 4,60 | 4,61 | 4,56 | 4,45 |
| Water flow rate system side | l/h | 328503 | 366257 | 408016 | 446727 |
| Pressure drop system side | kPa | 64 | 62 | 52 | 62 |
| Water flow rate source side | l/h | 435501 | 485905 | 538185 | 586506 |
| Pressure drop source side | kPa | 104 | 112 | 85 | 101 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

Energy indices (Reg. 2016/2281 EU)

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|--------------|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) . refrigerant g | as R134a (1) |) | | | | | | | | | | | | | | | | | | | | | |
| Seasonal efficiency — | 0 | % | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 279,70 | 281,00 | 284,80 | 278,60 |
| Seasonal efficiency — | Α | % | 306,80 | 310,90 | 296,50 | 309,10 | 297,30 | 306,60 | 308,50 | 298,00 | 314,60 | 297,10 | 315,60 | 301,30 | 295,40 | 301,80 | 303,60 | 307,30 | 298,00 | 297,80 | 295,60 | 296,90 | 297,50 |
| SEER - | 0 | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,07 | 7,10 | 7,20 | 7,04 |
| SEER | Α | W/W | 7,75 | 7,85 | 7,49 | 7,80 | 7,51 | 7,74 | 7,79 | 7,53 | 7,94 | 7,50 | 7,97 | 7,61 | 7,46 | 7,62 | 7,67 | 7,76 | 7,53 | 7,52 | 7,47 | 7,50 | 7,51 |
| SEPR - (EN 14825: 2018) High temperature | - refrigeran | it gas R1 | 134a (2 |) | | | | | | | | | | | | | | | | | | | |
| SEPR - | 0 | W/W | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,40 | 8,30 | 8,20 | 8,10 |
| JLTN — | Α | W/W | 9,20 | 9,10 | 9,10 | 8,50 | 9,00 | 8,60 | 8,80 | 8,80 | 8,80 | 8,80 | 8,70 | 8,60 | 8,40 | 8,60 | 8,50 | 8,60 | 8,60 | 8,70 | 8,60 | 8,40 | 8,50 |

⁽¹⁾ Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with VARIABLE water flow rate.

Electric data

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: H | | | | | | | | | | | | | | | | | | | | | | | |
| Gas R134a | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | • | Α | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 954,0 | 1052,0 | 1180,0 | 1290,0 |
| Maximum current (FLA) | A | Α | 165,0 | 190,0 | 216,0 | 237,0 | 274,0 | 308,0 | 356,0 | 378,0 | 387,0 | 428,0 | 418,0 | 473,0 | 535,0 | 616,0 | 704,0 | 787,0 | 864,0 | 954,0 | 1357,0 | 1180,0 | 1290,0 |
| Dook current (LDA) | ۰ | Α | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1234,0 | 1357,0 | 1595,0 | 1784,0 |
| Peak current (LRA) | A | A | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 23,0 | 507,0 | 23,0 | 560,0 | 23,0 | 676,0 | 742,0 | 897,0 | 1009,0 | 1203,0 | 1359,0 | 1234,0 | 1052,0 | 1595,0 | 1784,0 |

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

Model performance data (°) - for condensing temperatures up to 55°C

Model output data - model WFI° - AE - gas R134a

| Size | | | 1101 | 1251 | 1401 | 16 | 01 | 1801 | 2101 | 2401 | 2 | 801 | 3201 |
|---|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Model: ° | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | | 261,4 | 307,5 | 351,6 | 393 | 3,3 | 441,4 | 493,3 | 571,6 | 6 | 42,9 | 693,1 |
| Input power | kW | | 68,4 | 80,8 | 90,0 | 100 | 0,3 | 117,7 | 133,8 | 145,8 | 1 | 64,9 | 178,0 |
| Cooling total input current | Α | | 119,0 | 139,0 | 152,0 | 168 | 8,0 | 197,0 | 222,0 | 240,0 | 2 | 69,0 | 292,0 |
| EER | W/V | l | 3,82 | 3,81 | 3,91 | 3,9 | 92 | 3,75 | 3,69 | 3,92 | 3 | 3,90 | 3,89 |
| Evaporator water flow rate | l/h | | 44906 | 52830 | 60402 | 675 | 574 | 75833 | 84756 | 98206 | 5 11 | 10455 | 119091 |
| Pressure drop evaporator side | kPa | | 31 | 36 | 37 | 2 | 1 | 27 | 20 | 28 | | 36 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | | 54,0 | 67,0 | 67,0 | 67 | ',0 | 76,0 | 76,0 | 89,0 | 8 | 89,0 | 89,0 |
| Gas line (C2) | Ø | | - | - | - | - | - | - | - | - | | - | - |
| Gas line (C3) | Ø | | - | - | - | | - | - | - | - | | - | - |
| Liquid line (C1) | Ø | | 35,0 | 42,0 | 42,0 | 42 | 2,0 | 42,0 | 54,0 | 54,0 | 5 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | | - | - | - | - | - | - | - | - | | - | - |
| Liquid line (C3) | Ø | | - | - | - | | - | - | - | - | | - | - |
| (1) Service side water 12 °C / 7 °C; Condensing temperature | e 45 ℃ | | | | | | | | | | | | |
| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Model: ° | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooling capacity | kW | 603,1 | 688,5 | 797,4 | 899,3 | 1008,4 | 1169,8 | 1287,8 | 1439,2 | 1558,1 | 1742,4 | 1896,4 | 2110,0 |
| Cooling capacity Input power | kW kW | 603,1 152,9 | 688,5 171,4 | 797,4 198,1 | 899,3 229,9 | 1008,4 259,8 | 1169,8 287,4 | 1287,8 323,9 | 1439,2 364,6 | 1558,1 386,3 | 1742,4 431,2 | 1896,4 481,0 | 2110,0 540,3 |
| | | | | | | | ,- | | , | | | | |
| Input power | kW | 152,9 | 171,4 | 198,1 | 229,9 | 259,8 | 287,4 | 323,9 | 364,6 | 386,3 | 431,2 | 481,0 | 540,3 |
| Input power Cooling total input current | kW A | 152,9 261,4 | 171,4 292,5 | 198,1 330,2 | 229,9 380,6 | 259,8 424,7 | 287,4 476,4 | 323,9 532,4 | 364,6 600,3 | 386,3 631,3 | 431,2 709,7 | 481,0 792,6 | 540,3 891,2 |
| Input power Cooling total input current EER | kW A W/W | 152,9 261,4 3,94 | 171,4 292,5 4,02 | 198,1 330,2 4,03 | 229,9 380,6 3,91 | 259,8 424,7 3,88 | 287,4 476,4 4,07 | 323,9 532,4 3,98 | 364,6 600,3 3,95 | 386,3 631,3 4,03 | 431,2 709,7 4,04 | 481,0 792,6 3,94 | 540,3 891,2 3,91 |
| Input power Cooling total input current EER Evaporator water flow rate | kW A W/W I/h | 152,9 261,4 3,94 103615 | 171,4 292,5 4,02 118287 | 198,1 330,2 4,03 137003 | 229,9 380,6 3,91 154508 | 259,8 424,7 3,88 173247 | 287,4 476,4 4,07 200980 | 323,9 532,4 3,98 221262 | 364,6 600,3 3,95 247268 | 386,3 631,3 4,03 267705 | 431,2 709,7 4,04 299365 | 481,0 792,6 3,94 325826 | 540,3 891,2 3,91 362526 |
| Input power Cooling total input current EER Evaporator water flow rate Pressure drop evaporator side | kW A W/W I/h | 152,9 261,4 3,94 103615 | 171,4 292,5 4,02 118287 | 198,1 330,2 4,03 137003 | 229,9 380,6 3,91 154508 | 259,8 424,7 3,88 173247 | 287,4 476,4 4,07 200980 | 323,9 532,4 3,98 221262 | 364,6 600,3 3,95 247268 | 386,3 631,3 4,03 267705 | 431,2 709,7 4,04 299365 | 481,0 792,6 3,94 325826 | 540,3 891,2 3,91 362526 |
| Input power Cooling total input current EER Evaporator water flow rate Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m | kW A W/W I/h kPa | 152,9 261,4 3,94 103615 43 | 171,4 292,5 4,02 118287 35 | 198,1 330,2 4,03 137003 29 | 229,9 380,6 3,91 154508 22 | 259,8 424,7 3,88 173247 25 | 287,4 476,4 4,07 200980 35 | 323,9 532,4 3,98 221262 25 | 364,6 600,3 3,95 247268 31 | 386,3 631,3 4,03 267705 35 | 431,2 709,7 4,04 299365 43 | 481,0 792,6 3,94 325826 39 | 540,3 891,2 3,91 362526 24 |
| Input power Cooling total input current EER Evaporator water flow rate Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) | kW A W/W I/h kPa | 152,9 261,4 3,94 103615 43 | 171,4 292,5 4,02 118287 35 | 198,1 330,2 4,03 137003 29 67,0 | 229,9 380,6 3,91 154508 22 | 259,8 424,7 3,88 173247 25 | 287,4 476,4 4,07 200980 35 | 323,9 532,4 3,98 221262 25 | 364,6 600,3 3,95 247268 31 | 386,3 631,3 4,03 267705 35 | 431,2 709,7 4,04 299365 43 | 481,0 792,6 3,94 325826 39 88,9 | 540,3 891,2 3,91 362526 24 88,9 |
| Input power Cooling total input current EER Evaporator water flow rate Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) Gas line (C2) | kW A W/W I/h kPa Ø | 152,9 261,4 3,94 103615 43 | 171,4 292,5 4,02 118287 35 67,0 67,0 | 198,1 330,2 4,03 137003 29 67,0 67,0 | 229,9 380,6 3,91 154508 22 76,0 76,0 | 259,8 424,7 3,88 173247 25 76,0 76,0 | 287,4 476,4 4,07 200980 35 | 323,9 532,4 3,98 221262 25 88,9 88,9 | 364,6 600,3 3,95 247268 31 88,9 88,9 | 386,3 631,3 4,03 267705 35 76,0 76,0 | 431,2 709,7 4,04 299365 43 88,9 88,9 | 481,0 792,6 3,94 325826 39 88,9 88,9 | 540,3 891,2 3,91 362526 24 88,9 88,9 |
| Input power Cooling total input current EER Evaporator water flow rate Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) Gas line (C2) Gas line (C3) | kW A W/W I/h kPa Ø Ø | 152,9 261,4 3,94 103615 43 67,0 | 171,4 292,5 4,02 118287 35 67,0 67,0 | 198,1 330,2 4,03 137003 29 67,0 67,0 | 229,9 380,6 3,91 154508 22 76,0 76,0 | 259,8 424,7 3,88 173247 25 76,0 76,0 | 287,4 476,4 4,07 200980 35 88,9 88,9 | 323,9 532,4 3,98 221262 25 88,9 88,9 | 364,6 600,3 3,95 247268 31 88,9 88,9 42,0 | 386,3 631,3 4,03 267705 35 76,0 76,0 | 431,2 709,7 4,04 299365 43 88,9 88,9 88,9 | 481,0 792,6 3,94 325826 39 88,9 88,9 88,9 | 540,3 891,2 3,91 362526 24 88,9 88,9 88,9 |

Liquid line (C3) Ø
(1) Service side water 12 °C/7 °C; Condensing temperature 45 °C

Model output data - model WFI° - °E - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: ° | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | |
| Cooling capacity | kW | 1515,4 | 1689,7 | 1833,1 | 2021,9 |
| Input power | kW | 387,7 | 429,0 | 481,0 | 541,3 |
| Cooling total input current | A | 633,0 | 713,0 | 793,0 | 893,0 |
| EER | W/W | 3,91 | 3,94 | 3,81 | 3,74 |
| Evaporator water flow rate | I/h | 260358 | 290307 | 314947 | 347392 |
| Pressure drop evaporator side | kPa | 37 | 40 | 29 | 35 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model performance data (H) - for condensing temperatures up to 60°C

Model output data - model WFIH - AE - gas R134a

| Size | | | 1101 | 1251 | 1401 | 16 | 01 | 1801 | 2101 | 2401 | 2 | 801 | 3201 |
|--|--------------------|--------------|-------------------|-------------------|-------------------|--------------|--------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Model: H | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kV | V | 260,1 | 304,6 | 351,5 | 39 | 3,7 | 432,7 | 485,1 | 579,1 | 6 | 38,3 | 697,1 |
| Input power | kV | V | 65,4 | 76,0 | 88,4 | 97 | 7,7 | 111,1 | 123,1 | 143,8 | 1 | 58,6 | 176,5 |
| Cooling total input current | A | | 113,0 | 129,0 | 148,0 | 16. | 2,0 | 180,0 | 200,0 | 235,0 | 2 | 57,0 | 290,0 |
| EER | W/ | W | 3,98 | 4,01 | 3,98 | 4, | 03 | 3,89 | 3,94 | 4,03 | 4 | 4,02 | 3,95 |
| Evaporator water flow rate | 1/1 | ı | 44694 | 52328 | 60399 | 676 | 637 | 74335 | 83339 | 99495 | 5 10 | 19670 | 119762 |
| Pressure drop evaporator side | kP | a | 31 | 35 | 37 | 2 | 1 | 26 | 19 | 29 | | 36 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | | 54,0 | 67,0 | 67,0 | 67 | 7,0 | 76,0 | 76,0 | 88,9 | 8 | 38,9 | 88,9 |
| Gas line (C2) | Ø | | - | - | - | | - | - | - | - | | - | - |
| Gas line (C3) | Ø | | - | - | - | | - | - | - | - | | - | - |
| Liquid line (C1) | Ø | | 35,0 | 42,0 | 42,0 | 42 | 2,0 | 42,0 | 54,0 | 54,0 | | 54,0 | 54,0 |
| Liquid line (C2) | Ø | | - | - | - | | - | - | - | - | | - | - |
| Liquid line (C3) | Ø | | - | - | - | | - | - | - | - | | - | - |
| (1) Service side water 12 °C / 7 °C; Condensing temperature | ıre 45 ℃ | | | | | | | | | | | | |
| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Model: H | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 602,3 | 690,5 | 794,5 | 897,8 | 1009,4 | 1177,8 | 1297,5 | 1436,1 | 1566,5 | 1750,8 | 1908,3 | 2101,3 |
| Input power | kW | 147,9 | 170,4 | 193,3 | 218,4 | 248,4 | 284,6 | 324,0 | 361,7 | 383,8 | 424,1 | 485,5 | 536,4 |
| Cooling total input current | Α | 256,5 | 291,2 | 322,9 | 358,5 | 412,8 | 473,1 | 536,1 | 602,7 | 646,0 | 707,3 | 806,6 | 899,1 |
| EER | W/W | 4,07 | 4,05 | 4,11 | 4,11 | 4,06 | 4,14 | 4,01 | 3,97 | 4,08 | 4,13 | 3,93 | 3,92 |
| Evaporator water flow rate | I/h | | | | | | 202254 | 222020 | 246737 | 269151 | 300804 | 327864 | 361031 |
| Evaporator water now rate | I/N | 103477 | 118635 | 136501 | 154254 | 173418 | 202354 | 222930 | 240/3/ | 207131 | 300001 | 32,00. | |
| Pressure drop evaporator side | kPa | 103477 43 | 118635 35 | 136501 29 | 154254 22 | 173418 25 | 36 | 26 | 31 | 36 | 44 | 40 | 24 |
| • | | | | | | | | | | | | | 24 |
| Pressure drop evaporator side | | | | | | | | | | | | | 24 88,9 |
| Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m | kPa | 43 | 35 | 29 | 22 | 25 | 36 | 26 | 31 | 36 | 44 | 40 | |
| Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) | kPa Ø | 43 67,0 | 35 67,0 | 29 67,0 | 76,0 | 25 76,0 | 36 88,9 | 26 88,9 | 31 88,9 | 36 76,0 | 88,9 | 40 88,9 | 88,9 |
| Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) Gas line (C2) | kPa Ø Ø | 43 67,0 | 67,0 67,0 | 67,0 67,0 | 76,0 76,0 | 76,0 76,0 | 36 88,9 88,9 | 88,9 88,9 | 88,9 88,9 | 76,0 76,0 | 88,9 88,9 | 88,9 88,9 | 88,9 88,9 |
| Pressure drop evaporator side Length of refrigerant lines from/to 0 - 10 m Gas line (C1) Gas line (C2) Gas line (C3) | kPa Ø Ø Ø | 67,0 67,0 | 67,0 67,0 - | 67,0 67,0 - | 76,0 76,0 - | 76,0 76,0 | 36 88,9 88,9 | 88,9 88,9 - | 88,9 88,9 42,0 | 76,0 76,0 76,0 | 88,9 88,9 88,9 | 88,9 88,9 88,9 | 88,9 88,9 88,9 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

Model output data - model WFIH - °E - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Model: H | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | |
| Cooling capacity | kW | 1524,4 | 1698,4 | 1844,7 | 2016,4 |
| Input power | kW | 383,7 | 425,2 | 483,3 | 533,7 |
| Cooling total input current | A | 645,8 | 709,0 | 803,3 | 895,1 |
| EER | W/W | 3,97 | 3,99 | 3,82 | 3,78 |
| Evaporator water flow rate | I/h | 261912 | 291802 | 316947 | 346444 |
| Pressure drop evaporator side | kPa | 38 | 40 | 29 | 35 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 $^{\circ}$ C / 7 $^{\circ}$ C; Condensing temperature 45 $^{\circ}$ C

GENERAL TECHNICAL DATA

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|------------------------------------|-----|------|------|------|------|------|------|------|------|------|-------|------|------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | | Screw | | | | | | | | | | |
| Compressor regulation | °,A | Туре | - 1 | - 1 | - 1 | - 1 | 1 | - 1 | - 1 | l+1 | - 1 | l+1 | - 1 | 1+1 | 1+I | 1+1 | 1+1 | 1+1 | 1+1 | 2+1 | 2+1 | 2+1 | 2+1 |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Circuits | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Refrigerant | °,A | type | | | | | | | | | | | R134a | | | | | | | | | | |
| Deficiency at least singuist 1 (1) | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 106,0 | 104,0 | 110,0 | 120,0 |
| Refrigerant load circuit 1 (1) | A | kg | 59,0 | 57,0 | 72,0 | 66,0 | 61,0 | 85,0 | 81,0 | 50,0 | 110,0 | 53,0 | 104,0 | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| Deficience to be defined to 2 (1) | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 106,0 | 104,0 | 110,0 | 120,0 |
| Refrigerant load circuit 2 (1) | A | kg | - | - | - | - | - | - | - | 50,0 | - | 53,0 | - | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| Refrigerant load circuit 3 (1) | °,A | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 106,0 | 104,0 | 110,0 | 120,0 |
| System side heat exchanger | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | She | ell and to | ube | | | | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,A | Туре | | | | | | | | | | Gro | oved joi | ints | | | | | | | | | |
| Source side heat exchanger | | | | | | | | | | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | | | | | She | ell and to | ube | | | | | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Connections (in/out) | °,A | Туре | | | | | | | | | | Gro | oved joi | ints | | | | | | | | | |

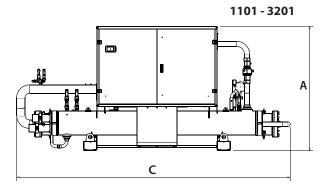
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

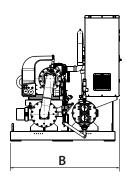
SOUND DATA

Sound data calculated with functioning in cooling mode - R134a gas

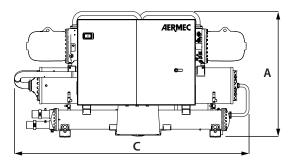
| | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|-------|--|---|--|--|--|---|--|---------|---|---|---|---|---|---|---|---|--|---------|--|---------|---------|
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 99,2 | 98,9 | 100,0 | 100,5 |
| A | dB(A) | 94,0 | 95,8 | 96,1 | 97,0 | 97,1 | 97,2 | 97,3 | 96,9 | 97,3 | 97,4 | 98,0 | 97,9 | 98,0 | 98,8 | 98,8 | 98,6 | 98,9 | 99,2 | 98,9 | 100,0 | 100,5 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 92,3 | 91,3 | 92,8 | 93,0 |
| A | dB(A) | 86,1 | 88,0 | 88,2 | 89,1 | 89,2 | 89,3 | 89,3 | 89,3 | 89,3 | 89,6 | 89,8 | 90,3 | 90,5 | 91,5 | 91,1 | 91,2 | 91,3 | 92,3 | 91,3 | 92,8 | 93,0 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 89,4 | 88,4 | 89,8 | 90,0 |
| A | dB(A) | 83,1 | 85,0 | 85,3 | 86,2 | 86,3 | 86,4 | 86,3 | 86,3 | 86,4 | 86,7 | 86,8 | 87,4 | 87,5 | 88,5 | 88,1 | 88,2 | 88,8 | 89,4 | 88,4 | 89,8 | 90,0 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 99,5 | 100,6 | 101,0 | 102,0 |
| A | dB(A) | 94,0 | 95,8 | 96,1 | 97,0 | 97,1 | 97,2 | 97,3 | 97,3 | 97,3 | 97,7 | 98,0 | 98,8 | 98,8 | 98,9 | 98,9 | 99,3 | 100,0 | 99,5 | 100,6 | 101,0 | 102,0 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 94,4 | 94,6 | 94,6 | 94,9 |
| A | dB(A) | 86,1 | 88,0 | 88,2 | 89,1 | 89,2 | 89,3 | 89,3 | 89,5 | 89,3 | 90,0 | 89,8 | 91,6 | 91,9 | 92,7 | 92,4 | 92,5 | 92,6 | 94,4 | 94,6 | 94,6 | 94,9 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 | dB(A) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 91,5 | 91,6 | 91,6 | 91,9 |
| A | dB(A) | 83,1 | 85,0 | 85,3 | 86,2 | 86,3 | 86,4 | 86,3 | 86,5 | 86,4 | 87,0 | 86,8 | 88,6 | 89,0 | 89,7 | 89,5 | 89,6 | 90,0 | 91,5 | 91,6 | 91,6 | 91,9 |
| | A | ** dB(A) A dB(A) ** | ° dB(A) - A dB(A) 94,0 ° dB(A) - A dB(A) 86,1 ° dB(A) - A dB(A) 83,1 ° dB(A) - A dB(A) 94,0 ° dB(A) - A dB(A) - | ° dB(A) A dB(A) 94,0 95,8 ° dB(A) A dB(A) 86,1 88,0 ° dB(A) A dB(A) 83,1 85,0 ° dB(A) A dB(A) 94,0 95,8 ° dB(A) A dB(A) 86,1 88,0 ° dB(A) A dB(A) A dB(A) A dB(A) | ° dB(A) A dB(A) 86,1 88,0 88,2 ° dB(A) A dB(A) 86,1 88,0 85,3 ° dB(A) A dB(A) 83,1 85,0 85,3 ° dB(A) A dB(A) 94,0 95,8 96,1 ° dB(A) A dB(A) 86,1 88,0 88,2 ° dB(A) A dB(A) 86,1 88,0 88,2 | ° dB(A) - <td>° dB(A) A dB(A) 86,1 88,0 88,2 89,1 89,2 ° dB(A) A dB(A) 83,1 85,0 85,3 86,2 86,3 ° dB(A) A dB(A) 83,1 85,0 85,3 86,2 86,3 ° dB(A) A dB(A) 84,0 94,0 95,8 96,1 97,0 97,1 ° dB(A) A dB(A) 86,1 88,0 88,2 89,1 89,2 ° dB(A)</td> <td>° dB(A) -<td>° dB(A)</td><td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td></td></td></td></td></td> | ° dB(A) A dB(A) 86,1 88,0 88,2 89,1 89,2 ° dB(A) A dB(A) 83,1 85,0 85,3 86,2 86,3 ° dB(A) A dB(A) 83,1 85,0 85,3 86,2 86,3 ° dB(A) A dB(A) 84,0 94,0 95,8 96,1 97,0 97,1 ° dB(A) A dB(A) 86,1 88,0 88,2 89,1 89,2 ° dB(A) | ° dB(A) - <td>° dB(A)</td> <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td></td></td></td></td> | ° dB(A) | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td></td> | ° dB(A) - <td>° dB(A) -<td>° dB(A)</td><td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td><td>° dB(A)</td><td>° dB(A)</td></td> | ° dB(A) - <td>° dB(A)</td> <td>° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>° dB(A)</td> <td>° dB(A)</td> | ° dB(A) | ° dB(A) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | ° dB(A) | ° dB(A) |

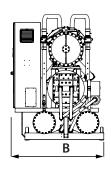
⁽¹⁾ Sound power: calculated in agreement with the Standard UNI EN ISO 9614-2, in compliance with that requested by Eurovent certification.











Unit dimensions and weights °/H in standard configuration

| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|----------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Model: °, H | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights - standard confi | guration | | | | | | | | | | | | | | | | | | | | | | |
| Α. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| A | A | mm | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2131 | 1920 | 2131 | 1920 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| P | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| В | Α | mm | 1510 | 1560 | 1610 | 1610 | 1610 | 1610 | 1610 | 1645 | 1630 | 1600 | 1630 | 1675 | 1675 | 1685 | 1875 | 1900 | 1950 | 2200 | 2200 | 2200 | 2200 |
| (| 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| C | Α | mm | 3460 | 3463 | 3585 | 4100 | 4100 | 4140 | 4240 | 4320 | 4290 | 4345 | 4290 | 4380 | 4380 | 4395 | 4500 | 4580 | 4580 | 5650 | 5650 | 5650 | 5650 |
| Emptyweight | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8740 | 9680 | 9900 | 10000 |
| Empty weight | Α | kg | 2020 | 2030 | 2230 | 2410 | 2450 | 2670 | 3090 | 3710 | 3530 | 3980 | 3570 | 5160 | 5220 | 5710 | 6440 | 6680 | 6770 | 9730 | 11440 | 11980 | 12060 |

Unit dimensions and weights °/H in silenced configuration

| <i>c</i> : | | | | 4254 | 4404 | 4404 | 4004 | 2404 | 2404 | 2502 | 2004 | 2002 | 2204 | 2202 | 2402 | 4202 | 4000 | E / 0.3 | | /703 | 7202 | 0.403 | ~~~ |
|--|-----------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|-------------|-------|-------|-------|
| Size | | | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Model: °, H | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions and weights - quiet configura | tion | | | | | | | | | | | | | | | | | | | | | | |
| A. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| Α - | Α | mm | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2131 | 1920 | 2131 | 1920 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| D. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| В - | А | mm | 1525 | 1560 | 1610 | 1610 | 1610 | 1615 | 1615 | 1645 | 1630 | 1600 | 1630 | 1675 | 1675 | 1685 | 1875 | 1900 | 1950 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| - | Α | mm | 3460 | 3463 | 3585 | 4100 | 4100 | 4140 | 4240 | 4320 | 4290 | 4345 | 4290 | 4630 | 4630 | 4600 | 5015 | 5060 | 5060 | 5650 | 5650 | 5650 | 5650 |
| Former and a | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9270 | 10240 | 10510 | 10610 |
| Empty weight | Α | kg | 2180 | 2190 | 2390 | 2570 | 2610 | 2830 | 3280 | 4020 | 3720 | 4290 | 3760 | 5500 | 5560 | 6050 | 6810 | 7080 | 7170 | 10260 | 12000 | 12590 | 12670 |
| Super silenced equipment dimensions and | d weights | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2250 | 2250 | 2250 | 2250 |
| Α - | Α | mm | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 2131 | 1920 | 2131 | 1920 | 2195 | 2195 | 2340 | 2455 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| D. | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2200 | 2200 | 2200 | 2200 |
| В - | Α | mm | 1525 | 1560 | 1610 | 1610 | 1610 | 1615 | 1615 | 1645 | 1630 | 1600 | 1630 | 1675 | 1675 | 1685 | 1875 | 1900 | 1950 | 2200 | 2200 | 2200 | 2200 |
| | 0 | mm | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5650 | 5650 | 5650 | 5650 |
| - | Α | mm | 3460 | 3463 | 3585 | 4100 | 4100 | 4140 | 4240 | 4320 | 4290 | 4345 | 4290 | 4630 | 4630 | 4600 | 5015 | 5060 | 5060 | 5650 | 5650 | 5650 | 5650 |
| | 0 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9890 | 10890 | 11230 | 11330 |
| Empty weight | A | kg | 2370 | 2380 | 2580 | 2760 | 2800 | 3020 | 3500 | 4400 | 3940 | 4670 | 3980 | 5910 | 5970 | 6460 | 7240 | 7550 | 7640 | 10880 | 12650 | 13310 | 13390 |

■ For the sizes of D-T-E versions please contact the factory.

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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WFN

Water cooled heat pump reversible water side

Cooling capacity 182 ÷ 2349 kW Heating capacity 205 ÷ 2610 kW



- Production of hot water up to 55°C.
- Production of chilled water down to -8°C.





DESCRIPTION

Units for internal installation offering chilled/hot water, designed to mit air conditioning needs in residential/commercial complexes or industrial applications.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

A High efficiency

FEATURES

Operating field

Production of chilled water up to 16 °C of water produced on the evaporator side, but also suitable for use in heat pump mode with condenser water temperature up to 55 °C.

With option Z (double electronic expansion valve) the unit is capable to produce chilled water temperature from -8°C up to 10°C.

Mono, bi-tri circuit unit

Unit with 2-3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

They are equipped with screw compressors and system and source side shell and tube heat exchangers with R134a refrigerant.

The R513A (XP10) refrigerant with this type of gas is also available on the configurator. On average, the units have a yield > 2% and an EER < 3% compared to the same size with R134a.

For further details refer to the technical documentation or to the Magellano selection program.

Electronic expansion valve

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit. Standard for all sizes.

CONTROL PCO₅

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

Adjustment includes complete management of the alarms and their log.

Possibility to control two units in a Master-Slave configuration

The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.

The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 2: RS-485 interface for supervision systems with MOD-BUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ISG: Insulation kit for condensers. Mandatory accessory for machine functioning in heat pump; standard in units with desuperheater or with heat recovery.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | Α | • | • | • | • | • | • | • | • | • | • | | • | | • | | | | | | | | | | |
| AER485P1 x n° 2 (1) | Α | | | | | | | | | | | • | | • | | • | | • | | • | | | | | |
| AER485P1 x n° 3 (1) | °,A | | | | | | | | | | | | | | | | | | | | | • | • | • | • |
| AERBACP | 0 | | | | | | | | | | | | | | | | | | | | | • | • | • | |
| AERDACF | Α | • | | • | | • | • | • | • | • | | • | • | • | | • | • | • | • | • | | • | | • | |
| AERNET | 0 | | | | | | | | | | | | | | | | | | | | | • | • | • | |
| ACRIVET | Α | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | | • | |
| MULTICULLED EVO | 0 | | | | | | | | | | | | | | | | | | | | | • | • | • | • |
| MULTICHILLER_EVO | Α | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| DCD1 | 0 | | | | | | | | | | | | | | | | | | | | | • | • | • | • |
| PGD1 —— | A | • | • | | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • |

(1) x Indicates the quantity of accessories to match.

Antivibration

| Version | Set-up | Heat recovery | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 |
|---------|--------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|
| 0 | °,K,L | °,D,T | - | - | - | - | - | - | - | - | - | - | - | - |
| A | 0 | 0 | AVX680 | AVX680 | AVX680 | AVX681 | AVX681 | AVX681 | AVX682 | AVX682 | AVX683 | AVX683 | AVX673 | AVX683 |
| А | K | 0 | AVX680 | AVX680 | AVX680 | AVX681 | AVX681 | AVX688 | AVX683 | AVX683 | AVX683 | AVX683 | Contact us. | AVX686 |
| А | L | 0 | AVX680 | AVX680 | AVX680 | AVX681 | AVX681 | AVX681 | AVX682 | AVX685 | AVX683 | AVX683 | AVX674 | AVX683 |
| А | °,L | D,T | - | - | - | - | - | - | - | - | - | - | AVX674 | - |
| Α | K | D,T | - | - | - | - | - | - | - | - | - | - | Contact us. | - |
| | | | | | | | | | | | | | | |

| Version | Set-up | Heat recovery | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------|--------|------------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | °,K,L | °,D,T | - | - | - | - | - | - | - | - | Contact us. | Contact us. | Contact us. | Contact us. |
| A | 0 | 0 | AVX674 | AVX683 | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | K | 0 | Contact us. | AVX686 | Contact us. |
| A | L | 0 | AVX674 | AVX683 | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| A | 0 | D | AVX674 | - | AVX679 | AVX679 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | 0 | Ţ | AVX674 | - | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | L | D | AVX674 | - | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | AVX678 | Contact us. | Contact us. | Contact us. | Contact us. |
| Α | K | D,T | Contact us. | - | Contact us. |
| Α | L | Ţ | AVX674 | - | AVX678 | AVX678 | AVX678 | AVX676 | AVX676 | AVX676 | Contact us. | Contact us. | Contact us. | Contact us. |

⁻ not available

Power factor correction

| Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 |
|--|------------------|--------------------|------------|------------|------------|------------|------------|------------|------------------------|------------|------------|------------|
| A | RIFWFN0701 | RIFWFN0801 | RIFWFN0901 | RIFWFN1101 | RIFWFN1251 | RIFWFN1401 | RIFWFN1601 | RIFWFN1801 | RIFWFN2101 | RIFWFN2401 | RIFWFN2502 | RIFWFN2801 |
| A grey background indicates the accessory n | ust ha accamble | ad in the factor | v | | | | | | | | | |
| A grey background indicates the accessory in | iust ne assembli | eu III tile lactor | y | | | | | | | | | |
| Ver | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| | | | , | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 RIFWFN6703 | | | |

A grey background indicates the accessory must be assembled in the factory

Isolating kit

| _ | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|
| | Ver | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2502 | 2801 | 2802 | 3201 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | ISG5 | ISG5 | ISG6 | ISG6 |
| | A | ISG10 | ISG10 | ISG10 | ISG10 | ISG11 | ISG12 | ISG13 | ISG13 | ISG14 | ISG14 | ISG1 | ISG15 | ISG1 | ISG15 | ISG2 | ISG2 | ISG2 | ISG3 | ISG3 | ISG3 | ISG7 | ISG8 | ISG8 | ISG8 |

A grey background indicates the accessory must be assembled in the factory $% \left(1\right) =\left(1\right) \left(1\right)$

747

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WFN |
| 4,5,6,7 | Size 0701, 0801, 0901, 1101, 1251, 1401, 1601, 1801, 2101, 2401, 2502, 2801, 2802, 3201, 3202, 3602, 4202, 4802, 5602, 6402, 6703, 7203, 8403, 9603 |
| 8 | Model |
| 0 | Heat pump reversible on the water side |
| 9 | Version |
| 0 | Standard (1) |
| A | High efficiency |
| 10 | Operating field |
| Х | Electronic thermostatic expansion valve (2) |
| Z | Double electronic thermostatic for low temperature (3) |
| 11 | Set-up |
| 0 | Standard |
| K | Super silenced |
| L | Silenced with hood |
| 12 | Heat recovery |
| 0 | Without heat recovery |
| D | With desuperheater (4) |
| T | With total recovery (4) |

| Field | Description |
|-------|--|
| 13 | Evaporator |
| 0 | Standard |
| E | Evaporating unit |
| 14 | Power supply |
| 0 | 400V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (5) |
| 2 | 230V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit (5) |
| 4 | 230V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit (5) |
| 5 | 500V/3/50Hz with fuses on compressors and magnet circuit breakers on auxiliary circuit |
| 8 | 400V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit |
| 9 | 500V/3/50Hz with magnet circuit breakers on compressors and auxiliary circuit (5) |
| 15 | Refrigerant gas |
| 0 | R134a |
| G | R513A (XP10) |

- (1) Only for sizes from 6703 to 9603

- (1) Unity for Sizes from 6/03 to 960 °C (-2) Water produced from -8 °C up to 10 °C (-3) Water produced from -8 °C up to 10 °C (-4) Not available for the condenserless "E" (-5) The 230V and 500V power supplies are only available for sizes 0701 0801 0901 1101 1251 1401 2502 2802

PERFORMANCE SPECIFICATIONS

WFN 0701 - 3201 - version A - gas R134a

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|---------------------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 182,1 | 207,2 | 232,9 | 295,9 | 322,1 | 370,3 | 448,8 | 504,1 | 579,3 | 655,9 | 719,6 | 788,4 |
| Input power | kW | 35,2 | 40,2 | 45,6 | 55,9 | 60,5 | 68,8 | 83,9 | 95,0 | 106,4 | 120,6 | 136,6 | 149,7 |
| Cooling total input current | A | 63,0 | 71,0 | 79,0 | 91,0 | 104,0 | 120,0 | 138,0 | 156,0 | 170,0 | 200,0 | 223,0 | 248,0 |
| EER | W/W | 5,18 | 5,16 | 5,11 | 5,30 | 5,32 | 5,38 | 5,35 | 5,31 | 5,45 | 5,44 | 5,27 | 5,27 |
| Water flow rate system side | l/h | 31347 | 35658 | 40063 | 50900 | 55401 | 63688 | 77171 | 86683 | 99596 | 112777 | 123733 | 135542 |
| Pressure drop system side | kPa | 40 | 46 | 46 | 40 | 40 | 41 | 28 | 35 | 27 | 37 | 45 | 27 |
| Water flow rate source side | l/h | 37125 | 42261 | 47577 | 60109 | 65418 | 75101 | 91161 | 102491 | 117368 | 132862 | 146434 | 160587 |
| Pressure drop source side | kPa | 37 | 37 | 34 | 44 | 37 | 33 | 33 | 33 | 33 | 34 | 33 | 32 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 204,8 | 230,6 | 262,5 | 327,5 | 358,1 | 410,4 | 494,2 | 556,2 | 639,5 | 733,2 | 796,8 | 879,7 |
| Input power | kW | 44,4 | 50,8 | 57,8 | 70,4 | 76,6 | 87,1 | 104,0 | 118,2 | 131,8 | 150,4 | 169,5 | 188,1 |
| Heating total input current | Α | 78,0 | 88,0 | 98,0 | 113,0 | 130,0 | 149,0 | 170,0 | 191,0 | 209,0 | 246,0 | 272,0 | 308,0 |
| COP | W/W | 4,61 | 4,54 | 4,54 | 4,65 | 4,68 | 4,71 | 4,75 | 4,70 | 4,85 | 4,87 | 4,70 | 4,68 |
| Water flow rate system side | l/h | 35533 | 40021 | 45575 | 56858 | 62177 | 71260 | 85815 | 96600 | 111065 | 127339 | 138391 | 152791 |
| Pressure drop system side | kPa | 34 | 33 | 31 | 40 | 33 | 29 | 30 | 29 | 30 | 31 | 29 | 29 |
| Water flow rate source side | l/h | 47178 | 52944 | 60295 | 75577 | 82711 | 94940 | 114197 | 128417 | 148521 | 170834 | 184231 | 202358 |
| Pressure drop source side | kPa | 90 | 101 | 103 | 88 | 89 | 91 | 61 | 78 | 61 | 85 | 101 | 60 |
| | | | | | | | | | | | | | |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

WFN 2502 - 9603 - version A - gas R134a

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 652,3 | 746,8 | 905,7 | 1024,5 | 1164,3 | 1325,5 | 1446,9 | 1589,7 | 1721,1 | 1960,7 | 2149,5 | 2349,3 |
| Input power | kW | 121,4 | 137,8 | 167,7 | 189,5 | 213,7 | 242,9 | 270,4 | 296,6 | 317,6 | 359,9 | 406,3 | 445,4 |
| Cooling total input current | A | 208,0 | 239,0 | 275,0 | 310,0 | 341,0 | 401,0 | 447,0 | 493,0 | 509,0 | 598,0 | 667,0 | 739,0 |
| EER | W/W | 5,37 | 5,42 | 5,40 | 5,41 | 5,45 | 5,46 | 5,35 | 5,36 | 5,42 | 5,45 | 5,29 | 5,28 |
| Water flow rate system side | l/h | 112179 | 128411 | 155723 | 176117 | 200144 | 227870 | 248717 | 273259 | 295856 | 337027 | 369472 | 403784 |
| Pressure drop system side | kPa | 51 | 41 | 38 | 29 | 33 | 45 | 32 | 38 | 43 | 55 | 51 | 30 |
| Water flow rate source side | l/h | 132175 | 151199 | 183520 | 207646 | 235653 | 268115 | 293728 | 322600 | 348857 | 396964 | 437212 | 478412 |
| Pressure drop source side | kPa | 49 | 50 | 49 | 49 | 50 | 49 | 48 | 46 | 34 | 32 | 32 | 36 |
| Heating performance 40 °C / 45 °C (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 726,4 | 828,1 | 1001,4 | 1138,6 | 1283,2 | 1459,8 | 1589,2 | 1809,3 | 1911,8 | 2159,8 | 2376,5 | 2610,0 |
| Input power | kW | 154,8 | 174,8 | 209,3 | 234,9 | 264,8 | 302,9 | 332,5 | 371,1 | 396,0 | 450,7 | 504,3 | 547,7 |
| Heating total input current | A | 260,0 | 298,0 | 339,0 | 381,0 | 418,0 | 492,0 | 545,0 | 606,0 | 624,0 | 733,0 | 812,0 | 900,0 |
| COP | W/W | 4,69 | 4,74 | 4,78 | 4,85 | 4,85 | 4,82 | 4,78 | 4,88 | 4,83 | 4,79 | 4,71 | 4,77 |
| Water flow rate system side | I/h | 126142 | 143812 | 173923 | 197757 | 222889 | 253571 | 276062 | 314312 | 332129 | 375231 | 412895 | 453465 |
| Pressure drop system side | kPa | 45 | 45 | 44 | 45 | 45 | 44 | 43 | 44 | 31 | 28 | 28 | 32 |
| Water flow rate source side | I/h | 168271 | 191878 | 232387 | 264585 | 298364 | 339696 | 368017 | 421779 | 444410 | 502013 | 549582 | 603144 |
| Pressure drop source side | kPa | 114 | 92 | 85 | 65 | 73 | 101 | 70 | 91 | 97 | 122 | 112 | 66 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C

WFN 6703 - 9603 - version ° - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|---------------------------------------|-----|--------|--------|--------|--------|
| Cooling performance 12 °C/7 °C(1) | | | | | |
| Cooling capacity | kW | 1691,1 | 1925,6 | 2120,1 | 2310,0 |
| Input power | kW | 322,4 | 364,9 | 407,2 | 452,6 |
| Cooling total input current | A | 505,0 | 594,0 | 660,0 | 733,0 |
| EER | W/W | 5,00 | 5,00 | 5,00 | 5,00 |
| Water flow rate system side | l/h | 290696 | 330989 | 364406 | 397041 |
| Pressure drop system side | kPa | 46 | 52 | 39 | 46 |
| Water flow rate source side | l/h | 343740 | 390980 | 431894 | 471655 |
| Pressure drop source side | kPa | 70 | 70 | 58 | 69 |
| Heating performance 40 °C / 45 °C (2) | | | | | |
| Heating capacity | kW | 1885,5 | 2129,2 | 2348,8 | 2575,2 |
| Input power | kW | 401,0 | 454,4 | 501,6 | 558,6 |
| Heating total input current | A | 619,0 | 728,0 | 803,0 | 893,0 |
| COP | W/W | 5,00 | 5,00 | 5,00 | 5,00 |
| Water flow rate system side | l/h | 327527 | 369895 | 408061 | 447398 |
| Pressure drop system side | kPa | 64 | 63 | 52 | 62 |
| Water flow rate source side | l/h | 436659 | 493020 | 542047 | 593071 |
| Pressure drop source side | kPa | 105 | 115 | 86 | 103 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

| ENERGY INDICES (| REG. 2016/22 | 81 EU) | | | | | | | | | | | | |
|-----------------------------------|--------------------------|-------------|--------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
| Refrigerant gas: ° | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) . re | frigerant gas R134a (1 |) | | | | | | | | | | | | |
| CLLD | 0 | W/W | - | - | - | - | - | - | - | - | - | - | - | - |
| SEER | A | W/W | 6,64 | 6,87 | 6,80 | 6,55 | 6,76 | 6,83 | 6,79 | 6,85 | 6,94 | 6,94 | 6,62 | 6,75 |
| Casanal afficients | 0 | % | - | - | - | - | - | - | - | - | - | - | - | - |
| Seasonal efficiency | A | % | 262,60 | 271,70 | 269,00 | 259,00 | 267,50 | 270,00 | 268,40 | 270,90 | 274,50 | 274,50 | 261,70 | 267,10 |
| (1) Calculation performed with VA | RIABLE water flow rate a | nd VARIABLE | outlet tempe | rature. | | | | | | | | | | |
| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Refrigerant gas: ° | | | | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) . re | frigerant gas R134a (1 |) | | | | | | | | | | | | |
| CEED | 0 | W/W | - | - | - | - | - | - | - | - | 6,85 | 7,02 | 6,98 | 6,88 |
| SEER | Α | W/W | 7,06 | 7,19 | 7,07 | 7,23 | 7,24 | 7,18 | 7,01 | 7,14 | 7,37 | 7,44 | 7,31 | 7,34 |
| C | 0 | % | - | - | - | - | - | - | - | - | 270.8% | 277.7% | 276.2% | 272.3% |
| Seasonal efficiency | Δ | 0/6 | 279 5% | 284 6% | 279.8% | 296 3% | 286 5% | 284 3% | 277 3% | 282.4% | 291 9% | 294 5% | 289 5% | 290.4% |

| | - A | /0 217.5/0 | 201.070 277.070 | 270.370 200.370 | 201.370 277 | 7/0 202.4/0 271.7/0 | 274.570 207.570 270. |
|-------------------------------|--------------------------------|-------------------------|---------------------|-----------------|-------------|---------------------|----------------------|
| 1) Calculation performed with | n VARIABLE water flow rate and | /ARIABLE outlet temper | rature. | | | | |
| Size | | | 070 | 1 | 0801 | 0901 | 1101 |
| Refrigerant gas: ° | | | | | | | |
| UE 813/2013 performance in | n average ambient conditions | (average) - 55 °C - Pde | esignh ≤ 400 kW (1) | | | | |
| Ddacianh | • | kW | - | | - | - | - |
| Pdesignh | A | kW | 264, | 00 | 294,00 | 339,00 | 417,00 |
| COD | ٥ | W/W | - | | - | - | - |
| SCOP | A | W/W | 4,5 | 8 | 4,63 | 4,55 | 4,73 |
| | 0 | % | - | | - | - | - |
| ηsh | Α | % | 175 | 00 | 177 00 | 174 00 | 181 00 |

296.3%

286.5%

284.3%

277.3%

282.4%

291.9%

294.5%

289.5%

290.4%

279.5%

284.6%

279.8%

PERFORMANCE SPECIFICATIONS EVAPORATING UNITS

WFN - AE- gas R134a

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Evaporator: E | | | | | | | | | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 162,7 | 185,3 | 208,6 | 264,5 | 289,4 | 331,9 | 398,9 | 449,2 | 519,2 | 588,2 | 640,8 | 701,8 |
| Input power | kW | 41,4 | 47,2 | 53,8 | 65,8 | 71,8 | 81,7 | 98,8 | 111,7 | 125,2 | 141,5 | 158,8 | 175,4 |
| Cooling total input current | Α | 74,0 | 83,0 | 94,0 | 109,0 | 124,0 | 141,0 | 164,0 | 185,0 | 203,0 | 236,0 | 263,0 | 290,0 |
| EER | W/W | 3,93 | 3,92 | 3,88 | 4,02 | 4,03 | 4,06 | 4,04 | 4,02 | 4,15 | 4,16 | 4,03 | 4,00 |
| Evaporator water flow rate | l/h | 27948 | 31843 | 35845 | 45444 | 49721 | 57032 | 68528 | 77175 | 89209 | 101057 | 110092 | 120581 |
| Pressure drop evaporator side | kPa | 32 | 36 | 37 | 32 | 32 | 33 | 22 | 28 | 22 | 30 | 36 | 21 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 42,0 | 54,0 | 54,0 | 54,0 | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 89,0 | 89,0 | 89,0 |
| Gas line (C2) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Liquid line (C1) | Ø | 28,0 | 35,0 | 35,0 | 35,0 | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | - | - | - | - |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

⁽¹⁾ Efficiencies for average temperature applications (55 °C)

| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Evaporator: E | | | | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C - gas R134a (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 584,6 | 668,6 | 803,3 | 911,8 | 1043,5 | 1186,8 | 1284,6 | 1414,9 | 1544,3 | 1758,8 | 1912,5 | 2076,9 |
| Input power | kW | 143,3 | 163,2 | 196,5 | 222,8 | 249,8 | 283,2 | 317,9 | 349,1 | 373,7 | 422,6 | 474,7 | 523,3 |
| Cooling total input current | Α | 246,7 | 282,2 | 326,3 | 368,7 | 405,5 | 472,6 | 525,9 | 578,3 | 606,7 | 705,8 | 785,6 | 867,1 |
| EER | W/W | 4,08 | 4,10 | 4,09 | 4,09 | 4,18 | 4,19 | 4,04 | 4,05 | 4,13 | 4,16 | 4,03 | 3,97 |
| Evaporator water flow rate | I/h | 100443 | 114870 | 138020 | 156649 | 179280 | 203906 | 220716 | 243093 | 265322 | 302189 | 328596 | 356829 |
| Pressure drop evaporator side | kPa | 41 | 33 | 30 | 23 | 27 | 36 | 25 | 30 | 35 | 44 | 40 | 23 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | | | | | | | | | |
| Gas line (C1) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 67,0 | 67,0 | 67,0 | 76,0 | 76,0 | 88,9 | 88,9 | 88,9 | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | - | - | - | - | - | - | - | 42,0 | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 42,0 | 42,0 | 42,0 | 42,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | - | - | - | - | - | - | - | - | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

WFN - °E - gas R134a

| Size | | 6703 | 7203 | 8403 | 9603 |
|--|-----|--------|--------|--------|--------|
| Evaporator: E | | | | | |
| Cooling performance 12 °C/7 °C - gas R134a (1) | | | | | |
| Cooling capacity | kW | 1500,1 | 1704,7 | 1830,1 | 1998,5 |
| Input power | kW | 375,4 | 424,4 | 474,7 | 524,9 |
| Cooling total input current | A | 609,0 | 708,0 | 786,0 | 869,0 |
| EER | W/W | 4,00 | 4,02 | 3,86 | 3,81 |
| Evaporator water flow rate | I/h | 257735 | 292888 | 314432 | 343357 |
| Pressure drop evaporator side | kPa | 36 | 41 | 29 | 35 |
| Length of refrigerant lines from/to 0 - 10 m | | | | | |
| Gas line (C1) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C2) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Gas line (C3) | Ø | 76,0 | 88,9 | 88,9 | 88,9 |
| Liquid line (C1) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C2) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |
| Liquid line (C3) | Ø | 54,0 | 54,0 | 54,0 | 54,0 |

⁽¹⁾ Service side water 12 °C / 7 °C; Condensing temperature 45 °C

ELECTRIC DATA

| Size | | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|-----------------------|---|---|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Electric data | | | | | | | | | | | | | | |
| Maximum current (FLA) | | Α | 106,0 | 119,0 | 136,0 | 162,0 | 183,0 | 208,0 | 243,0 | 275,0 | 305,0 | 350,0 | 389,0 | 427,0 |
| Peak current (LRA) | | Α | 166,0 | 195,0 | 232,0 | 303,0 | 317,0 | 344,0 | 439,0 | 468,0 | 589,0 | 653,0 | 808,0 | 920,0 |
| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Electric data | | | | | | | | | | | | | | |
| Maximum current (FLA) | 0 | Α | - | - | - | - | - | - | - | - | 913,0 | 1050,0 | 1166,0 | 1281,0 |
| Maximum current (FLA) | A | А | 365,0 | 416,0 | 486,0 | 549,0 | 609,0 | 700,0 | 777,0 | 854,0 | 913,0 | 1050,0 | 1166,0 | 1281,0 |
| Dook surrent (LDA) | 0 | Α | - | - | - | - | - | - | - | - | 1198,0 | 1353,0 | 1585,0 | 1774,0 |
| Peak current (LRA) | A | А | 500,0 | 552,0 | 682,0 | 743,0 | 894,0 | 1003,0 | 1197,0 | 1347,0 | 1198,0 | 1353,0 | 1585,0 | 1774,0 |

GENERAL TECHNICAL DATA

WFN - A

| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|--------------------------------|------|------|------|------|------|------|----------|----------|------|------|------|-------|-------|
| Compressor | | | | | | | | | | | | | |
| Туре | type | | | | | | Scr | ew | | | | | |
| Compressor regulation | Туре | | | | | | On- | -Off | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Circuits | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | | | | | | R1: | 34a | | | | | |
| Refrigerant load circuit 1 (1) | kg | 41,0 | 41,0 | 38,0 | 59,0 | 57,0 | 72,0 | 66,0 | 61,0 | 85,0 | 81,0 | 110,0 | 104,0 |
| System side heat exchanger | | | | | | | | | | | | | |
| Туре | type | | | | | | Shell ar | nd tube | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | Туре | | | | | | Groove | d joints | | | | | |
| Sizes (in/out) | Ø | 4" | 4" | 4" | 4" | 5" | 6" | 6" | 6" | 6" | 6" | 8" | 8" |
| Source side heat exchanger | | | | | | | | | | | | | |
| Туре | type | | | | | | Shell ar | nd tube | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | Туре | | | | | | Groove | d joints | | | | | |
| Sizes (in/out) | Ø | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" | 5" | 5" | 6" | 6" |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|--------------------------------|-----|------|------|------|------|------|------|---------|----------|-------|-------|-------|-------|-------|
| Compressor | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | Sci | rew | | | | | |
| Compressor regulation | °,A | Туре | | | | | | 0n | -Off | | | | | |
| Number | °,A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Circuits | °,A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Refrigerant | °,A | type | | | | | | R1 | 34a | | | | | |
| Definement lead singuist 1 (1) | 0 | kg | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| Refrigerant load circuit 1 (1) | A | kg | 50,0 | 53,0 | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| Definement lead singuit 2 (1) | 0 | kg | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| Refrigerant load circuit 2 (1) | A | kg | 50,0 | 53,0 | 81,0 | 71,0 | 70,0 | 123,0 | 124,0 | 121,0 | 106,0 | 104,0 | 110,0 | 120,0 |
| D. f | 0 | kg | - | - | - | - | - | - | - | - | 107,0 | 115,0 | 136,0 | 157,0 |
| Refrigerant load circuit 3 (1) | A | kg | - | - | - | - | - | - | - | - | 106,0 | 104,0 | 110,0 | 120,0 |
| System side heat exchanger | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | Shell a | nd tube | | | | | |
| Number | °,A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | °,A | Туре | | | | | | Groove | d joints | | | | | |
| Sizes (in/out) | °,A | Ø | 8" | 8" | 8" | 8" | 10" | 10" | 10" | 10" | 10" | 10" | 10" | 10" |
| Source side heat exchanger | | | | | | | | | | | | | | |
| Туре | °,A | type | | | | | | Shell a | nd tube | | | | | |
| Number | °,A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Connections (in/out) | °,A | Туре | | | | | | Groove | d joints | | | | | |
| C: (:- /4) | 0 | Ø | - | - | - | - | - | - | - | - | 5" | 5" | 6" | 6" |
| Sizes (in/out) | A | Ø | 4" | 4" | 4" | 4" | 5" | 6" | 6" | 6" | - | - | - | - |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

SOUND DATA

Sound data calculated with functioning in cooling mode - R134a gas

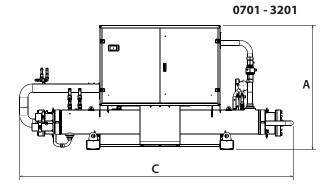
| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Set-up: ° | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 81,2 | 80,0 | 81,6 | 79,1 | 82,3 | 85,7 | 81,6 | 82,4 | 83,9 | 84,0 | 87,4 | 84,9 |
| Set-up: K | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 78,0 | 78,2 | 77,9 | 79,8 | 80,4 | 80,9 | 81,1 | 81,5 | 84,3 | 82,6 | 85,1 | 84,5 |
| Set-up: L | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | |
| Sound power level | dB(A) | 81,0 | 81,2 | 80,9 | 82,8 | 83,4 | 83,9 | 84,1 | 84,5 | 87,3 | 85,5 | 88,1 | 87,5 |

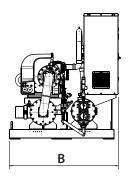
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
|---|---|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Set-up: ° | | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | |
| County named and | 0 | dB(A) | - | - | - | - | - | - | - | - | 97,0 | 97,2 | 99,5 | 100,0 |
| Sound power level — | Α | dB(A) | 93,5 | 94,0 | 94,0 | 94,5 | 95,0 | 95,5 | 97,5 | 98,0 | 97,0 | 97,2 | 99,5 | 100,0 |
| Set-up: K | | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | |
| Cound nouse lovel | 0 | dB(A) | - | - | - | - | - | - | - | - | 88,1 | 87,3 | 89,8 | 90,3 |
| Sound power level — | Α | dB(A) | 83,6 | 83,6 | 84,5 | 85,2 | 86,1 | 85,6 | 87,8 | 88,3 | 88,1 | 87,3 | 89,8 | 90,3 |
| Set-up: L | | | | | | | | | | | | | | |
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | |
| Cound navor lovel | 0 | dB(A) | - | - | - | - | - | - | - | - | 91,1 | 90,2 | 92,8 | 93,3 |
| Sound power level — | Α | dB(A) | 86,6 | 86,6 | 87,5 | 88,2 | 89,1 | 88,5 | 90,8 | 91,3 | 91,1 | 90,2 | 92,8 | 93,3 |

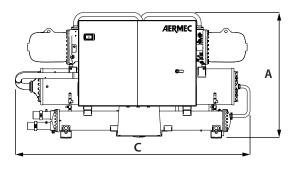
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

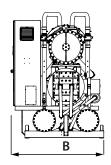
DIMENSIONS





2502 - 9603





WFN 0701-9603 ver. A

| WFN 0/01-9603 Ver. A | | | | | | | | | | | | | |
|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Size | | 0701 | 0801 | 0901 | 1101 | 1251 | 1401 | 1601 | 1801 | 2101 | 2401 | 2801 | 3201 |
| Dimensions and weights - standard configuration | | | | | | | | | | | | | |
| <u>A</u> | mm | 1720 | 1720 | 1720 | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 1920 | 1920 |
| В | mm | 1450 | 1450 | 1450 | 1510 | 1550 | 1610 | 1610 | 1610 | 1610 | 1610 | 1630 | 1630 |
| C | mm | 3480 | 3480 | 3480 | 3470 | 3445 | 3560 | 4100 | 4100 | 4140 | 4252 | 4290 | 4290 |
| Empty weight | kg | 1610 | 1630 | 1630 | 2120 | 2130 | 2350 | 2940 | 2980 | 3260 | 3320 | 3820 | 3870 |
| Dimensions and weights - quiet configuration | | | | | | | | | | | | | |
| A | mm | 1720 | 1720 | 1720 | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 1920 | 1920 |
| В | mm | 1450 | 1450 | 1450 | 1540 | 1600 | 1610 | 1610 | 1610 | 1630 | 1630 | 1645 | 1645 |
| C | mm | 3480 | 3480 | 3480 | 3470 | 3445 | 3560 | 4100 | 4100 | 4140 | 4252 | 4290 | 4290 |
| Empty weight | kg | 1770 | 1790 | 1790 | 2280 | 2290 | 2510 | 3120 | 3170 | 3450 | 3510 | 4030 | 4080 |
| Super silenced equipment dimensions and weights | | | | | | | | | | | | | |
| A | mm | 1720 | 1720 | 1720 | 1720 | 1790 | 1865 | 1865 | 1865 | 1887 | 1887 | 1920 | 1920 |
| В | mm | 1450 | 1450 | 1450 | 1540 | 1600 | 1610 | 1610 | 1610 | 1630 | 1630 | 1645 | 1645 |
| C | mm | 3480 | 3480 | 3480 | 3470 | 3445 | 3560 | 4100 | 4100 | 4140 | 4252 | 4290 | 4290 |
| Empty weight | kg | 1960 | 1980 | 1980 | 2470 | 2480 | 2700 | 3340 | 3390 | 3670 | 3730 | 4280 | 4330 |
| Size | | 2502 | 2802 | 3202 | 3602 | 4202 | 4802 | 5602 | 6402 | 6703 | 7203 | 8403 | 9603 |
| Dimensions and weights - standard configuration | | | | | | | | | | | | | |
| Dilliensions and Meights - Standard Configuration | | | | | | | | | | | | | |
| A Name of the standard configuration | mm | 2000 | 2075 | 2195 | 2195 | 2340 | 2432 | 2440 | 2432 | 2250 | 2250 | 2250 | 2250 |
| | mm mm | 2000 1500 | 2075 1500 | 2195 1575 | 2195 1575 | 2340 1585 | 2432 1845 | 2440 1800 | 2432 1800 | 2250 2200 | 2250 2200 | 2250 2200 | 2250 2200 |
| A | | | | | | | | | | | | | |
| A | mm | 1500 | 1500 | 1575 | 1575 | 1585 | 1845 | 1800 | 1800 | 2200 | 2200 | 2200 | 2200 |
| A B C | mm mm | 1500 4320 | 1500 4345 | 1575 4380 | 1575 4380 | 1585 4395 | 1845 4535 | 1800 4605 | 1800 4605 | 2200 6840 | 2200 6840 | 2200 6840 | 2200 6840 |
| A B C Empty weight | mm mm | 1500 4320 | 1500 4345 | 1575 4380 | 1575 4380 | 1585 4395 | 1845 4535 | 1800 4605 | 1800 4605 | 2200 6840 | 2200 6840 | 2200 6840 | 2200 6840 |
| A B C Empty weight | mm mm kg | 1500 4320 3810 | 1500 4345 4100 | 1575 4380 5690 | 1575 4380 5750 | 1585 4395 6300 | 1845 4535 6670 | 1800 4605 6970 | 1800 4605 7070 | 2200 6840 10320 | 2200 6840 11670 | 2200 6840 12270 | 2200 6840 12360 |
| A B C Empty weight Dimensions and weights - quiet configuration A | mm mm kg mm | 1500 4320 3810 2000 | 1500 4345 4100 2075 | 1575 4380 5690 2195 | 1575 4380 5750 2195 | 1585 4395 6300 2340 | 1845 4535 6670 2432 | 1800 4605 6970 2440 | 1800 4605 7070 2432 | 2200 6840 10320 2250 | 2200 6840 11670 2250 | 2200 6840 12270 2250 | 2200 6840 12360 2250 |
| A B C Empty weight Dimensions and weights - quiet configuration A | mm mm kg mm mm | 1500 4320 3810 2000 1500 | 1500 4345 4100 2075 1500 | 1575 4380 5690 2195 1575 | 1575 4380 5750 2195 1575 | 1585 4395 6300 2340 1585 | 1845 4535 6670 2432 1845 | 1800 4605 6970 2440 1800 | 1800 4605 7070 2432 1800 | 2200 6840 10320 2250 2200 | 2200 6840 11670 2250 2200 | 2200 6840 12270 2250 2200 | 2200 6840 12360 2250 2200 |
| A B C Empty weight Dimensions and weights - quiet configuration A B C | mm kg mm mm mm | 1500 4320 3810 2000 1500 4320 | 1500 4345 4100 2075 1500 4345 | 1575 4380 5690 2195 1575 4650 | 1575 4380 5750 2195 1575 4650 | 1585 4395 6300 2340 1585 4600 | 1845 4535 6670 2432 1845 5015 | 1800 4605 6970 2440 1800 5150 | 1800 4605 7070 2432 1800 5150 | 2200 6840 10320 2250 2200 6840 | 2200 6840 11670 2250 2200 6840 | 2200 6840 12270 2250 2200 6840 | 2200 6840 12360 2250 2200 6840 |
| A B C Empty weight Dimensions and weights - quiet configuration A B C Empty weight | mm kg mm mm mm | 1500 4320 3810 2000 1500 4320 | 1500 4345 4100 2075 1500 4345 | 1575 4380 5690 2195 1575 4650 | 1575 4380 5750 2195 1575 4650 | 1585 4395 6300 2340 1585 4600 | 1845 4535 6670 2432 1845 5015 | 1800 4605 6970 2440 1800 5150 | 1800 4605 7070 2432 1800 5150 | 2200 6840 10320 2250 2200 6840 | 2200 6840 11670 2250 2200 6840 | 2200 6840 12270 2250 2200 6840 | 2200 6840 12360 2250 2200 6840 |
| A B C Empty weight Dimensions and weights - quiet configuration A B C Empty weight | mm kg mm mm mm mm kg | 1500 4320 3810 2000 1500 4320 4120 | 1500 4345 4100 2075 1500 4345 4410 | 1575 4380 5690 2195 1575 4650 6050 | 1575 4380 5750 2195 1575 4650 6120 | 1585 4395 6300 2340 1585 4600 6670 | 1845 4535 6670 2432 1845 5015 7040 | 1800 4605 6970 2440 1800 5150 7420 | 1800 4605 7070 2432 1800 5150 7490 | 2200 6840 10320 2250 2200 6840 10880 | 2200 6840 11670 2250 2200 6840 12230 | 2200 6840 12270 2250 2200 6840 12950 | 2200 6840 12360 2250 2200 6840 12990 |
| A B C Empty weight Dimensions and weights - quiet configuration A B C Empty weight Super silenced equipment dimensions and weights A | mm kg mm mm kg mm mm kg | 1500 4320 3810 2000 1500 4320 4120 | 1500 4345 4100 2075 1500 4345 4410 | 1575 4380 5690 2195 1575 4650 6050 | 1575 4380 5750 2195 1575 4650 6120 | 1585 4395 6300 2340 1585 4600 6670 | 1845 4535 6670 2432 1845 5015 7040 | 1800 4605 6970 2440 1800 5150 7420 | 1800 4605 7070 2432 1800 5150 7490 | 2200 6840 10320 2250 2200 6840 10880 | 2200 6840 11670 2250 2200 6840 12230 | 2200 6840 12270 2250 2200 6840 12950 | 2200 6840 12360 2250 2200 6840 12990 |

WFN 6703-9603 ver. °

| Size | | 6703 | 7203 | 8403 | 9603 |
|---|----|-------|-------|-------|-------|
| Dimensions and weights - standard configuration | | | | | |
| A | mm | 2250 | 2250 | 2250 | 2250 |
| 3 | mm | 2200 | 2200 | 2200 | 2200 |
| | mm | 5650 | 5650 | 5650 | 5650 |
| Empty weight | kg | 9330 | 9910 | 10130 | 10200 |
| Dimensions and weights - quiet configuration | | | | | |
| A | mm | 2250 | 2250 | 2250 | 2250 |
| В | mm | 2200 | 2200 | 2200 | 2200 |
| (| mm | 5650 | 5650 | 5650 | 5650 |
| Empty weight | kg | 9890 | 10470 | 10760 | 10830 |
| Super silenced equipment dimensions and weights | | | | | |
| A | mm | 2250 | 2250 | 2250 | 2250 |
| В | mm | 2200 | 2200 | 2200 | 2200 |
| (| mm | 5650 | 5650 | 5650 | 5650 |
| Empty weight | kg | 10540 | 11120 | 11510 | 11580 |

[■] For the sizes of D-T-E versions please contact the factory.

[■] For the size of the units with the RIF accessory we ask you to contact the headquarters.

















WMX

Water-water chiller

Cooling capacity 280,1 ÷ 324,2 kW



- High efficiency also at partial loads ESEER 8,4
- Compact design
- · Extremely flexible and reliable





DESCRIPTION

Indoor unit for the production of chilled water, equipped with magnetic levitation centrifugal compressors and system side, flooded source heat exchangers that guarantee a 50% reduction of the refrigerant load in comparison to conventional flooded heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

The technological choices made, always oriented to the highest quality and efficiency can reach 5.71 EER values (class A for the working conditions Eurovent).

EFFICIENCY

A High efficiency

U Very high efficiency

Both units can be silenced.

FFATURES

- 5 times lighter than an equivalent screw compressor.
- Extremely compact wide to allow access through a standard doorway.
- High efficiency with generously sizes heat exchanger.

Two-stage, oil-free centrifugal compressor with latestgeneration magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

Provided with inverter technology that permits capacity modulation down to 30% A version.

Built-in device to reduce starting current (only 6 Amps!)

Operating field

Water produced from 20 $^{\circ}$ C up to 45 $^{\circ}$ C on Condenser side and from 5 $^{\circ}$ C up to 20 $^{\circ}$ C on Evaporator side.

Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PTW: Allows you to control the unit at a distance.

CONFIGURATOR

| Field | Description |
|-------|-----------------|
| 1,2,3 | WMX |
| 4,5,6 | Size |
| | 300 |
| 7 | Efficiency |
| Α | High efficiency |

| Field | Description |
|-------|----------------------|
| U | Very high efficiency |
| 8 | Version |
| 0 | Standard |
| L | Silenced |

PERFORMANCE SPECIFICATIONS

| Size | | | 300 |
|-----------------------------------|-----|-----|-------|
| Efficiency: A | | | |
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | °,L | kW | 324,2 |
| Input power | °,L | kW | 60,3 |
| Cooling total input current | °,L | A | 94,0 |
| EER | °,L | W/W | 5,37 |
| Water flow rate system side | °,L | I/h | 55761 |
| Pressure drop system side | °,L | kPa | 34 |
| Water flow rate source side | °,L | l/h | 65750 |
| Pressure drop source side | °,L | kPa | 41 |
| Efficiency: U | | | |
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | °,L | kW | 280,1 |
| Input power | °,L | kW | 48,9 |
| Cooling total input current | °,L | A | 78,0 |
| EER | °,L | W/W | 5,72 |
| Water flow rate system side | °,L | l/h | 48180 |
| Pressure drop system side | °,L | kPa | 25 |
| Water flow rate source side | °,L | l/h | 56338 |
| Pressure drop source side | °,L | kPa | 30 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 300 |
|---|--------|-----|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | |
| SEER | A | W/W | 8,99 |
| SECK | U | W/W | 9,04 |
| Concernal officiency | A | % | 356,6% |
| Seasonal efficiency | U | % | 358,5% |
| SEPR - (EN 14825: 2018) High temperatur | re (2) | | |
| SEPR | A | W/W | 9,70 |
| SEPK | U | W/W | 10,35 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

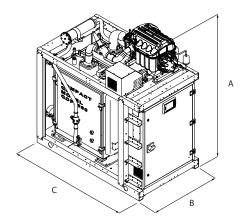
| Size | | | 300 |
|-----------------------|-----|---|-------|
| Efficiency: A, U | | | |
| Electric data | | | |
| Maximum current (FLA) | °,L | A | 135,0 |
| Peak current (LRA) | °,L | A | 6,0 |

GENERAL TECHNICAL DATA

| Size | | | 300 |
|----------------------------------|----------|-------|--|
| Efficiency: A, U | | | |
| Compressor | | | |
| Туре | °,L | type | Centrifugal |
| Compressor regulation | °,L | Туре | Inverter |
| Number | °,L | no. | 1 |
| Circuits | °,L | no. | 1 |
| Refrigerant | °,L | type | R134a |
| Source side heat exchanger | | | |
| Туре | °,L | type | Shell and tube - flooded compact |
| Number | °,L | no. | 1 |
| Connections (in/out) | °,L | Туре | Grooved joints |
| Sizes (in/out) | °,L | Ø | 4" |
| System side heat exchanger | | | |
| Туре | °,L | type | Shell and tube - flooded compact with Spray system |
| Number | °,L | no. | 1 |
| Connections (in/out) | °,L | Туре | Grooved joints |
| Sizes (in/out) | °,L | Ø | 4" |
| Size | | | 300 |
| Efficiency: A | | | |
| Sound data calculated in cooling | mode (1) | | |
| Cound nowar lavel | 0 | dB(A) | 90,0 |
| Sound power level | L | dB(A) | 84,0 |
| Efficiency: U | | | |
| Sound data calculated in cooling | mode (1) | | |
| Cound navor lavel | 0 | dB(A) | 85,0 |
| Sound power level | L | dB(A) | 78,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 300 |
|------------------------|-----|----|------|
| Efficiency: A, U | | | |
| Dimensions and weights | | | |
| Λ. | 0 | mm | 1905 |
| A | L | mm | 1942 |
| В | °,L | mm | 1041 |
| C | °,L | mm | 1770 |
| Emptyweight | • | kg | 2025 |
| Empty weight | L | kg | 2210 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com

















WMG

Water-water chiller

Cooling capacity 282,3 ÷ 312,4 kW



- High efficiency also at partial loads ESEER 8,4
- Compact design
- · Extremely flexible and reliable





DESCRIPTION

Indoor unit for the production of chilled water, equipped with magnetic levitation centrifugal compressors and system side, flooded source heat exchangers that guarantee a 50% reduction of the refrigerant load in comparison to conventional flooded heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

The technological choices made, always oriented to the highest quality and efficiency can reach 5.71 EER values (class A for the working conditions Eurovent).

EFFICIENCY

A High efficiency

U Very high efficiency

Both units can be silenced.

FFATURES

- 5 times lighter than an equivalent screw compressor.
- Extremely compact wide to allow access through a standard doorway.
- High efficiency with generously sizes heat exchanger.

HFO R1234ze refrigerant gas

HFO R1234ze is a mixture featuring:

da ODP = 0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430:

with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

Two-stage, oil-free centrifugal compressor with latestgeneration magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

Provided with inverter technology that permits capacity modulation down to 30% A version.

Built-in device to reduce starting current (only 6 Amps!)

Operating field

Water produced from 20 $^{\circ}$ C up to 55 $^{\circ}$ C on Condenser side and from 5 $^{\circ}$ C up to 20 $^{\circ}$ C on Evaporator side.

Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PTW: Allows you to control the unit at a distance.

CONFIGURATOR

| Field | Description |
|-------|-----------------|
| 1,2,3 | WMG |
| 4,5,6 | Size 300 |
| 7 | Efficiency |
| Α | High efficiency |

| Field | | Description |
|-------|---|----------------------|
| | U | Very high efficiency |
| 8 | | Version |
| | 0 | Standard |
| | L | Silenced |

PERFORMANCE SPECIFICATIONS

| Size | | | 300 |
|-----------------------------------|-----|-----|-------|
| Efficiency: A | | | |
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | °,L | kW | 312,4 |
| Input power | °,L | kW | 57,6 |
| Cooling total input current | °,L | A | 85,0 |
| EER | °,L | W/W | 5,42 |
| Water flow rate system side | °,L | I/h | 53731 |
| Pressure drop system side | °,L | kPa | 31 |
| Water flow rate source side | °,L | l/h | 63303 |
| Pressure drop source side | °,L | kPa | 36 |
| Efficiency: U | | | |
| Cooling performance 12 °C/7 °C(1) | | | |
| Cooling capacity | °,L | kW | 282,3 |
| Input power | °,L | kW | 49,1 |
| Cooling total input current | °,L | A | 74,0 |
| EER | °,L | W/W | 5,75 |
| Water flow rate system side | °,L | l/h | 48548 |
| Pressure drop system side | °,L | kPa | 25 |
| Water flow rate source side | °,L | l/h | 56739 |
| Pressure drop source side | °,L | kPa | 29 |

⁽¹⁾ Date 14511:2022; Water user side 12 $^{\circ}$ C / 7 $^{\circ}$ C; Water source side 30 $^{\circ}$ C / 35 $^{\circ}$ C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 300 |
|----------------------------------|---------------|-----|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | |
| CEED | A | W/W | 8,88 |
| SEER | U | W/W | 8,91 |
| Concornal officiones | A | % | 352,0% |
| Seasonal efficiency | U | % | 353,4% |
| SEPR - (EN 14825: 2018) High ten | nperature (2) | | |
| SEPR | A | W/W | 9,96 |
| | U | W/W | 10,37 |

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature. (2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

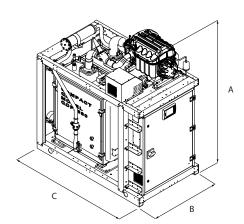
| Size | | | 300 |
|-----------------------|-----|---|-------|
| Efficiency: A, U | | | |
| Electric data | | | |
| Maximum current (FLA) | °,L | A | 150,0 |
| Peak current (LRA) | °,L | A | 6,0 |

GENERAL TECHNICAL DATA

| Size | | | 300 |
|----------------------------------|----------|-------|--|
| Efficiency: A, U | | | |
| Compressor | | | |
| Туре | °,L | type | Centrifugal |
| Compressor regulation | °,L | Туре | Inverter |
| Number | °,L | no. | 1 |
| Circuits | °,L | no. | 1 |
| Refrigerant | °,L | type | R1234ze |
| Source side heat exchanger | | | |
| Туре | °,L | type | Shell and tube - flooded compact |
| Number | °,L | no. | 1 |
| Connections (in/out) | °,L | Туре | Grooved joints |
| Sizes (in/out) | °,L | Ø | 4" |
| System side heat exchanger | | | |
| Туре | °,L | type | Shell and tube - flooded compact with Spray system |
| Number | °,L | no. | 1 |
| Connections (in/out) | °,L | Туре | Grooved joints |
| Sizes (in/out) | °,L | Ø | 4" |
| Size | | | 300 |
| Efficiency: A | | | |
| Sound data calculated in cooling | mode (1) | | |
| Cound nowar lavel | 0 | dB(A) | 90,0 |
| Sound power level | L | dB(A) | 85,0 |
| Efficiency: U | | | |
| Sound data calculated in cooling | mode (1) | | |
| Cound navor lovel | 0 | dB(A) | 84,0 |
| Sound power level | L | dB(A) | 78,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 300 |
|---|-----|----|------|
| Efficiency: A, U Dimensions and weights | | | |
| Dimensions and weights | | | |
| Α. | 0 | mm | 1905 |
| A | L | mm | 1942 |
| В | °,L | mm | 1041 |
| С | °,L | mm | 1770 |
| Emptywoight | 0 | kg | 2065 |
| Empty weight | L | kg | 2250 |

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WTX

Water-water chiller

Cooling capacity 222,9 ÷ 1958,4 kW



- High efficiency ESEER up to 9
- Extended operating range
- Possibility of selecting between heat exchangers with 1 or 2 passes on water side





DESCRIPTION

Indoor unit producing chilled water equiped with magnetic levitation centrifugal compressors and shell & tube heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

The technological choices made always focus on maximum quality and efficiency, thereby achieving EER > 6 values (class A for Eurovent operating conditions).

EFFICIENCY

A High efficiency
U Very high efficiency
Both units can be silenced.

FEATURES

Two-stage, oil-free centrifugal compressor with latestgeneration magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

The compressor is equipped with an inverter for continuous load modulation by varying rpm (from 30% to 100%).

Built-in device to reduce starting current (only 6 Amps!)



Operating field

Water produced from 15 $^{\circ}$ C up to 50 $^{\circ}$ C on Condenser side and from 5 $^{\circ}$ C up to 25 $^{\circ}$ C on Evaporator side.

Flooded Evaporator with subcooler

Subcooler effect

- Superheats compressor gas intake;
- Subcools thermostatic valve fluid intake;
- Increases chiller yield and ensures gas suction from compressor.

Condenser

— With refrigerant on shell side and water on pipe side

Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

AVX: Spring anti-vibration supports.

759

ACCESSORIES COMPATIBILITY

| Model | Ver | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------------------|-----|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,U | • | • | • | • | • | • | • | • | • |
| AERBACP | A,U | • | • | • | • | • | • | • | • | • |
| FL | A,U | • | • | • | • | • | • | • | • | • |
| MUITICHILLER EVO | A.U | | | | | | | | | • |

■ With the MULTICHILLER_EVO accessory, it is necessary to add AER485P1 for each connected unit.

Antivibration

| Ver | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,U | AVX (1) |

(1) Contact us.

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WTX |
| 4,5,6,7 | Size 1300, 1350, 2300, 2350, 3300, 3325, 3350, 4325, 4350 |
| 8 | Efficiency |
| A | High efficiency |
| U | Very high efficiency |
| 9 | Exchanger |
| 1 | One pass on water side (1) |
| | |

EXCHANGERS

Over-sized tube core exchangers ensure excellent performances at full and partial loads.

Flooded evaporator: with level adjustment through an electronic valve controlled by a level sensor.

Backflow condenser: with refrigerant on shell side and water on tube side

■ From size 1300 to 2350, heat exchangers have 2 passes on the water side

| Field | Description |
|-------|--|
| 2 | Two passes on water side |
| 10 | Version |
| 0 | Standard |
| L | Silenced |
| 11 | Power supply |
| 0 | 400V ~ 3 50Hz with circuit breakers on compressors and auxiliary circuit |

(1) Option available only for size from 3300 to 4350.

Starting from size WTX 3300, heat exchangers are available as versions with one or two passes on the water side, to meet any plant installation requirement. The dimensions of the two configurations ensure similar performances (same approach to heat exchangers). The difference is that the version with two passes on the water side due offers the convenience of water connections all on the same side, against a generally higher but nonetheless limited drop in pressure compared to the version with one pass on the water side.



761

PERFORMANCE SPECIFICATIONS

WTX - A

| Size | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------------------------------------|-----|-------|--------|--------|--------|--------|--------|--------|------------|------------|
| Exchanger: 1 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 1054,4 | 1214,3 | 1466,1 | 1716,2 (2) | 1955,0 (2) |
| Input power | kW | - | - | - | - | 211,4 | 219,9 | 281,6 | 315,3 | 375,1 |
| Cooling total input current | A | - | - | - | - | 317,0 | 356,0 | 435,0 | 503,0 | 580,0 |
| EER | W/W | - | - | - | - | 4,99 | 5,52 | 5,21 | 5,44 | 5,21 |
| Water flow rate system side | l/h | - | - | - | - | 181266 | 208751 | 252017 | 294970 | 336022 |
| Pressure drop system side | kPa | - | - | - | - | 32 | 39 | 31 | 24 | 31 |
| Water flow rate source side | l/h | - | - | - | - | 218376 | 247239 | 301544 | 350417 | 402059 |
| Pressure drop source side | kPa | - | - | - | - | 31 | 38 | 31 | 42 | 31 |
| Exchanger: 2 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 351,3 | 488,5 | 702,8 | 899,4 | 1054,3 | 1215,9 | 1466,0 | 1715,9 (2) | 1958,4 (2) |
| Input power | kW | 70,8 | 94,3 | 141,8 | 164,1 | 212,6 | 220,6 | 283,8 | 318,8 | 380,0 |
| Cooling total input current | A | 106,0 | 145,0 | 212,0 | 255,0 | 317,0 | 356,0 | 435,0 | 503,0 | 580,0 |
| EER | W/W | 4,96 | 5,18 | 4,96 | 5,48 | 4,96 | 5,51 | 5,17 | 5,38 | 5,15 |
| Water flow rate system side | l/h | 60422 | 84006 | 120844 | 154630 | 181266 | 209053 | 252017 | 294970 | 336647 |
| Pressure drop system side | kPa | 32 | 30 | 40 | 33 | 54 | 77 | 54 | 60 | 82 |
| Water flow rate source side | l/h | 72792 | 100515 | 145584 | 183481 | 218376 | 247235 | 301544 | 350417 | 402062 |
| Pressure drop source side | kPa | 31 | 33 | 35 | 28 | 28 | 35 | 33 | 41 | 53 |

WTX - U

| WIX-O | | | | | | | | | | |
|-----------------------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Size | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
| Exchanger: 1 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 669,0 | 869,6 | 1002,7 | 1179,6 | 1336,9 |
| Input power | kW | - | - | - | - | 112,2 | 144,9 | 166,9 | 195,3 | 222,3 |
| Cooling total input current | Α | - | - | - | - | 180,0 | 237,0 | 273,0 | 316,0 | 364,0 |
| EER | W/W | - | - | - | - | 5,96 | 6,00 | 6,01 | 6,04 | 6,01 |
| Water flow rate system side | l/h | - | - | - | - | 115004 | 149476 | 172333 | 202737 | 229777 |
| Pressure drop system side | kPa | - | - | - | - | 12 | 18 | 14 | 10 | 14 |
| Water flow rate source side | l/h | - | - | - | - | 135049 | 175273 | 202156 | 237660 | 269542 |
| Pressure drop source side | kPa | - | - | - | - | 12 | 17 | 13 | 17 | 13 |
| Exchanger: 2 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C(1) | | | | | | | | | | |
| Cooling capacity | kW | 222,9 | 334,1 | 445,9 | 559,7 | 669,0 | 840,1 | 1006,1 | 1191,4 | 1342,6 |
| Input power | kW | 37,5 | 55,9 | 75,1 | 94,3 | 112,5 | 140,7 | 167,2 | 198,4 | 223,4 |
| Cooling total input current | А | 60,0 | 91,0 | 120,0 | 158,0 | 180,0 | 237,0 | 273,0 | 316,0 | 364,0 |
| EER | W/W | 5,95 | 5,98 | 5,94 | 5,93 | 5,95 | 5,97 | 6,02 | 6,01 | 6,01 |
| Water flow rate system side | l/h | 38335 | 57444 | 76669 | 96214 | 115004 | 144425 | 172942 | 204799 | 230804 |
| Pressure drop system side | kPa | 12 | 13 | 16 | 12 | 21 | 32 | 24 | 26 | 37 |
| Water flow rate source side | l/h | 45016 | 67385 | 90033 | 113067 | 135049 | 169344 | 202690 | 240041 | 270255 |
| Pressure drop source side | kPa | 12 | 14 | 13 | 10 | 10 | 15 | 14 | 18 | 23 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------------------------------------|------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Exchanger: 1 | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | |
| SEER | A | W/W | - | - | - | - | 8,25 | 8,64 | 8,78 | 8,76 | 8,95 |
| SEEK | U | W/W | - | - | - | - | 9,70 | 9,54 | 9,85 | 9,59 | 9,92 |
| Casanal efficiency | Α | % | - | - | - | - | 326,8% | 342,6% | 348,2% | 347,2% | 354,8% |
| Seasonal efficiency | U | % | - | - | - | - | 384,8% | 378,4% | 390,8% | 380,6% | 393,7% |
| SEPR - (EN 14825: 2018) High tempe | rature (2) | | | | | | | | | | |
| CEDD | A | W/W | - | - | - | - | 8,75 | 9,92 | 9,33 | 9,71 | 9,35 |
| SEPR | U | W/W | - | - | - | - | 11,80 | 11,36 | 11,44 | 11,49 | 11,47 |
| Exchanger: 2 | | | | | | | | | | | |
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | |
| SEER | A | W/W | 8,40 | 8,59 | 8,19 | 8,76 | 8,03 | 8,34 | 8,45 | 8,32 | 8,39 |
| DEEK | U | W/W | 9,69 | 9,07 | 9,47 | 9,73 | 9,54 | 9,31 | 9,66 | 9,28 | 9,60 |
| Casaral officianas | A | % | 332,9% | 340,6% | 324,5% | 347,3% | 318,1% | 330,4% | 334,9% | 329,8% | 332,6% |
| Seasonal efficiency | U | % | 384,4% | 359,9% | 375,6% | 386,3% | 378,6% | 369,5% | 383,5% | 368,1% | 380,8% |
| SEPR - (EN 14825: 2018) High tempe | rature (2) | | | | | | | | | | |
| CEDD | A | W/W | 8,26 | 9,17 | 8,25 | 9,70 | 8,64 | 9,75 | 9,17 | 9,48 | 9,08 |
| SEPR | U | W/W | 11,65 | 11,34 | 11,62 | 11,17 | 11,70 | 11,20 | 11,37 | 11,30 | 11,31 |

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⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Sizes 4325 and 4350 not included in the EUROVENT certification programme because Cooling capacity > 1500 kW

⁽¹⁾ Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
(2) Calculation performed with FIXED water flow rate.

ELECTRIC DATA

| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | |
| Maximum current (FLA) | A,U | Α | 135,0 | 210,0 | 270,0 | 420,0 | 405,0 | 405,0 | 630,0 | 630,0 | 630,0 |
| Peak current (LRA) | A.U | A | 6.0 | 6.0 | 141.0 | 216.0 | 276.0 | 276.0 | 426.0 | 426.0 | 426.0 |

GENERAL TECHNICAL DATA

| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|-----------------------|--------|------|----------------|----------------|----------------|----------------|------------------------|----------------|----------------|----------------|----------------|
| Compressor | | | | | | | | | | | |
| Туре | A,U | type | | | | | Centrifugal - Oil Free | 2 | | | |
| Compressor regulation | A,U | Туре | | | | | Inverter | | | | |
| Number | A,U | no. | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| Circuits | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | A,U | type | | | | | R134a | | | | |
| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
| Exchanger: 1 | | | | | | | | | | | |
| System side heat exch | nanger | | | | | | | | | | |
| Туре | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,U | Туре | - | - | - | - | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out) | A,U | Ø | - | - | - | - | 6" | 10" | 10" | 6" | 8" |
| Source side heat exch | anger | | | | | | | | | | |
| Туре | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,U | Туре | - | - | - | - | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out) | A,U | Ø | - | - | - | - | 6" | 6" | 10" | 8" | 8" |
| Exchanger: 2 | | | | | | | | | | | |
| System side heat exch | nanger | | | | | | | | | | |
| Туре | A,U | type | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,U | Туре | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out) | A,U | Ø | 5" | 5" | 5" | 6" | 6" | 10" | 6" | 8" | 8" |
| Source side heat exch | anger | | | | | | | | | | |
| Туре | A,U | type | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,U | Туре | Grooved joints | Grooved joints | Grooved joints | Grooved joints | Grooved joints |
| Sizes (in/out) | A,U | Ø | 5" | 5" | 6" | 6" | 6" | 6" | 8" | 8" | 8" |

SOUND DATA

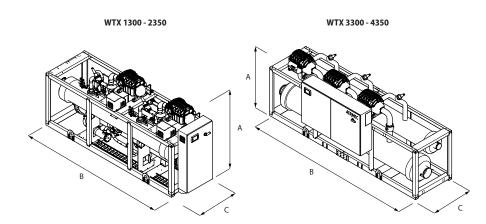
| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|---|----|-------|------|------|------|------|------|------|------|------|-------|
| Efficiency: A | | | | | | | | | | | |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | |
| Cound nowar loval | ٥ | dB(A) | 90,0 | 91,0 | 93,0 | 93,5 | 96,0 | 95,5 | 97,0 | 98,5 | 100,0 |
| Sound power level | L | dB(A) | 84,0 | 85,0 | 87,0 | 87,5 | 90,0 | 89,5 | 91,0 | 92,5 | 94,0 |
| Efficiency: U | | | | | | | | | | | |
| Sound data calculated in cooling mode (| 1) | | | | | | | | | | |
| Cound nouse lovel | 0 | dB(A) | 87,0 | 88,0 | 90,0 | 88,0 | 90,0 | 91,0 | 94,0 | 94,0 | 97,0 |
| Sound power level | L | dB(A) | 81,0 | 82,0 | 84,0 | 82,0 | 84,0 | 85,0 | 88,0 | 88,0 | 91,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|---------------------------------------|-----|-------|------|------|------|------|------|------|------|------|-------|
| Efficiency: A | | | | | | | | | | | |
| Sound data calculated in cooling mode | (1) | | | | | | | | | | |
| Cound mouse lovel | 0 | dB(A) | 90,0 | 91,0 | 93,0 | 93,5 | 96,0 | 95,5 | 97,0 | 98,5 | 100,0 |
| Sound power level | L | dB(A) | 84,0 | 85,0 | 87,0 | 87,5 | 90,0 | 89,5 | 91,0 | 92,5 | 94,0 |
| Efficiency: U | | | | | | | | | | | |
| ound data calculated in cooling mode | (1) | | | | | | | | | | |
| ound power level | 0 | dB(A) | 87,0 | 88,0 | 90,0 | 88,0 | 90,0 | 91,0 | 94,0 | 94,0 | 97,0 |
| | L | dB(A) | 81,0 | 82,0 | 84,0 | 82,0 | 84,0 | 85,0 | 88,0 | 88,0 | 91,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1300 | 1350 | 2300 | 2350 | 3300 | 3325 | 3350 | 4325 | 4350 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|
| Exchanger: 1 | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | |
| A | A,U | mm | - | - | - | - | 1970 | 2010 | 2010 | 2010 | 2280 |
| В | A,U | mm | - | - | - | - | 4966 | 4966 | 4966 | 4966 | 4966 |
| C | A,U | mm | - | - | - | - | 1640 | 1640 | 1640 | 1640 | 1732 |
| Empty weight | A,U | kg | - | - | - | - | 4090 | 4430 | 5120 | 5690 | 6640 |
| Weight functioning | A,U | kg | - | - | - | - | 4430 | 4810 | 5620 | 6250 | 7450 |
| Exchanger: 2 | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | |
| A | A,U | mm | 1850 | 1950 | 1970 | 2010 | 2240 | 2280 | 2280 | 2280 | 2280 |
| В | A,U | mm | 3040 | 3040 | 3340 | 3440 | 3990 | 3990 | 3990 | 4966 | 4966 |
| C | A,U | mm | 1000 | 1000 | 1240 | 1240 | 1732 | 1732 | 1836 | 1836 | 1836 |
| Empty weight | A,U | kg | 2190 | 2370 | 2770 | 3390 | 5440 | 5730 | 6630 | 7200 | 7380 |
| Weight functioning | A,U | kg | 2350 | 2560 | 3010 | 3740 | 6170 | 6480 | 7540 | 8160 | 8400 |

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WTG

Water-water chiller

Cooling capacity 246,6 ÷ 1959,4 kW



- · Extended operating range
- Possibility of selecting between heat exchangers with 1 or 2 passes on water side





DESCRIPTION

Indoor unit producing chilled water equiped with magnetic levitation centrifugal compressors and shell & tube heat exchangers.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

The technological choices made always focus on maximum quality and efficiency, thereby achieving EER > 6 values (class A for Eurovent operating conditions).

EFFICIENCY

A High efficiency
U Very high efficiency
Both units can be silenced.

FEATURES

Two-stage, oil-free centrifugal compressor with latestgeneration magnetic levitation

Oil-free operation without mechanical friction it is possible thanks to the use of magnetic levitation bearings that also ensure the total absence of vibration and low frequency noise.

The compressor is equipped with an inverter for continuous load modulation by varying rpm (from 30% to 100%).

Built-in device to reduce starting current (only 6 Amps!)



Operating field

Water produced from 15 $^{\circ}$ C up to 50 $^{\circ}$ C on Condenser side and from 5 $^{\circ}$ C up to 25 $^{\circ}$ C on Evaporator side.

Flooded Evaporator

Evaporator

— Low charge content

Condenser

— With refrigerant on shell side and water on pipe side

Acoustic chiller enclosure (option)

in galvanised sheet metal of suitable thickness insulated on the inside with sound-proofing material.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

ACCESSORIES

 $\mbox{\bf AER485P1:}\ \mbox{RS-485}$ interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

AVX: Spring anti-vibration supports.

ACCESSORIES COMPATIBILITY

| Model | Ver | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|------------------|-----|------|------|------|------|------|------|------|------|------|
| AER485P1 | A,U | • | • | • | • | • | • | • | • | • |
| AERBACP | A,U | • | • | • | • | • | • | • | • | • |
| FL | A,U | • | • | | • | • | | • | • | • |
| MULTICHILLER EVO | A.U | | • | • | • | | • | • | • | |

■ With the MULTICHILLER_EVO accessory, it is necessary to add AER485P1 for each connected unit.

Antivibration

| Ver | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| A,U | AVX (1) |

(1) Contact us.

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | WTG |
| 4,5,6,7 | Size 1310, 1490, 2310, 2490, 3310, 3400, 3490, 4400, 4490 |
| 8 | Version |
| A | High efficiency |
| U | Very high efficiency |
| 9 | Exchanger |
| 1 | One pass on water side |
| | |

| Fiel | d | Description |
|------|---|--|
| | 2 | Two passes on water side |
| 10 | | Set-up |
| | 0 | Standard |
| | L | Silenced |
| 11 | | Power supply |
| | 0 | 400V ~ 3 50Hz with circuit breakers on compressors and auxiliary circuit |
| 12 | | Refrigerant gas |
| | 0 | R1234ze |

EXCHANGERS

Over-sized tube core exchangers ensure excellent performances at full and partial loads.

Flooded evaporator: with level adjustment through an electronic valve controlled by a level sensor.

Backflow condenser: with refrigerant on shell side and water on tube side.

■ From size 1310 to 2490, heat exchangers have 2 passes on the water side

Starting from size WTX 3310, heat exchangers are available as versions with one or two passes on the water side, to meet any plant installation requirement. The dimensions of the two configurations ensure similar performances (same approach to heat exchangers). The difference is that the version with two passes on the water side due offers the convenience of water connections all on the same side, against a generally higher but nonetheless limited drop in pressure compared to the version with one pass on the water side.



PERFORMANCE SPECIFICATIONS

WTG - A

| Size | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|--------------------------------------|-----|-------|-------|--------|--------|--------|--------|--------|------------|------------|
| Exchanger: 1 | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 1049,5 | 1199,4 | 1409,4 | 1679,3 (2) | 1955,0 (2) |
| Input power | kW | - | - | - | - | 194,3 | 202,4 | 245,0 | 286,4 | 334,3 |
| Cooling total input current | А | - | - | - | - | 310,0 | 324,0 | 389,0 | 457,0 | 532,0 |
| EER | W/W | - | - | - | - | 5,40 | 5,93 | 5,75 | 5,86 | 5,85 |
| Water flow rate system side | l/h | - | - | - | - | 180402 | 206174 | 242254 | 288643 | 336022 |
| Pressure drop system side | kPa | - | - | - | - | 24 | 32 | 27 | 29 | 28 |
| Water flow rate source side | l/h | - | - | - | - | 213103 | 240238 | 283553 | 336857 | 392518 |
| Pressure drop source side | kPa | - | - | - | - | 23 | 23 | 24 | 27 | 19 |
| Exchanger: 2 | | | | | | | | | | |
| Cooling performance 12 °C / 7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 349,7 | 469,7 | 699,6 | 899,3 | 1049,3 | 1199,2 | 1409,2 | 1679,2 (2) | 1958,5 (2) |
| Input power | kW | 66,4 | 81,4 | 132,2 | 158,8 | 196,5 | 204,4 | 248,0 | 290,2 | 339,1 |
| Cooling total input current | A | 106,0 | 130,0 | 211,0 | 250,0 | 310,0 | 324,0 | 389,0 | 457,0 | 532,0 |
| EER | W/W | 5,27 | 5,77 | 5,29 | 5,66 | 5,34 | 5,87 | 5,68 | 5,79 | 5,78 |
| Water flow rate system side | l/h | 60134 | 80751 | 120268 | 154630 | 180402 | 206174 | 242254 | 288643 | 336647 |
| Pressure drop system side | kPa | 24 | 14 | 22 | 50 | 45 | 49 | 40 | 44 | 46 |
| Water flow rate source side | l/h | 71250 | 94518 | 142500 | 181033 | 213103 | 240238 | 283553 | 336857 | 393148 |
| Pressure drop source side | kPa | 23 | 18 | 23 | 32 | 33 | 32 | 42 | 47 | 39 |

WTG - U

| W10-0 | | | | | | | | | | |
|------------------------------------|-----|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Size | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
| Exchanger: 1 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | 736,7 | 869,6 | 999,1 | 1159,6 | 1336,9 |
| Input power | kW | - | - | - | - | 120,2 | 140,2 | 153,5 | 186,2 | 211,9 |
| Cooling total input current | А | - | - | - | - | 205,0 | 233,0 | 254,0 | 311,0 | 349,0 |
| EER | W/W | - | - | - | - | 6,13 | 6,20 | 6,51 | 6,23 | 6,31 |
| Water flow rate system side | l/h | - | - | - | - | 126626 | 149476 | 171729 | 199301 | 229777 |
| Pressure drop system side | kPa | - | - | - | - | 12 | 17 | 14 | 14 | 13 |
| Water flow rate source side | l/h | - | - | - | - | 147066 | 173222 | 197868 | 230962 | 265867 |
| Pressure drop source side | kPa | - | - | - | - | 16 | 22 | 18 | 19 | 18 |
| Exchanger: 2 | | | | | | | | | | |
| Cooling performance 12 °C/7 °C (1) | | | | | | | | | | |
| Cooling capacity | kW | 246,4 | 334,3 | 492,9 | 669,8 | 736,6 | 869,5 | 999,1 | 1159,5 | 1342,8 |
| Input power | kW | 40,1 | 50,9 | 80,1 | 105,5 | 120,7 | 140,3 | 154,1 | 187,0 | 212,7 |
| Cooling total input current | A | 69,0 | 85,0 | 137,0 | 173,0 | 205,0 | 233,0 | 254,0 | 311,0 | 349,0 |
| EER | W/W | 6,15 | 6,57 | 6,16 | 6,35 | 6,10 | 6,20 | 6,48 | 6,20 | 6,31 |
| Water flow rate system side | l/h | 42371 | 57462 | 84741 | 115160 | 126626 | 149476 | 171729 | 199301 | 230804 |
| Pressure drop system side | kPa | 12 | 7 | 11 | 28 | 22 | 26 | 20 | 21 | 22 |
| Water flow rate source side | l/h | 49186 | 66178 | 98371 | 132989 | 147066 | 173222 | 197868 | 230962 | 266902 |
| Pressure drop source side | kPa | 11 | 9 | 11 | 17 | 16 | 16 | 20 | 22 | 18 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

ELECTRIC DATA

| Size | | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | |
| Maximum current (FLA) | A,U | А | 150,0 | 217,0 | 300,0 | 434,0 | 450,0 | 651,0 | 651,0 | 868,0 | 868,0 |
| Peak current (LRA) | A,U | A | 6,0 | 6,0 | 156,0 | 223,0 | 306,0 | 440,0 | 440,0 | 657,0 | 657,0 |

⁽¹⁾ Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C
(2) Sizes 4400 and 4490 not included in the EUROVENT certification programme because Cooling capacity > 1500 kW

GENERAL TECHNICAL DATA

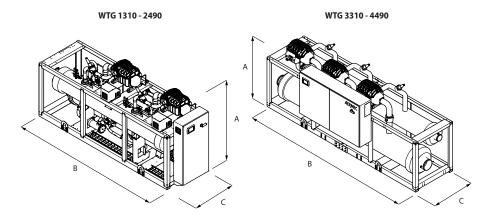
| Size | | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|----------------------------|-----|------|------|------|------|------|----------------------|----------------|----------------|----------------|----------------|
| Compressor | | | | | | | | | | | |
| Туре | A,U | type | | | | | Centrifugal - Oil Fr | ee | | | |
| Compressor regulation | A,U | Туре | | | | | Inverter | | | | |
| Number | A,U | no. | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 |
| Circuits | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | A,U | type | | | | | R1234ze | | | | |
| Size | | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
| Exchanger: 1 | | | | | | | | | | | |
| System side heat exchanger | | | | | | | | | | | |
| Туре | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Source side heat exchanger | | | | | | | | | | | |
| Туре | A,U | type | - | - | - | - | Shell and tube | Shell and tube | Shell and tube | Shell and tube | Shell and tube |
| Number | A,U | no. | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Exchanger: 2 | | | | | | | | | | | |
| System side heat exchanger | | | | | | | | | | | |
| Туре | A,U | type | | | | | Shell and tube | | | | |
| Number | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Source side heat exchanger | | | | | | | | | | | |
| Туре | A,U | type | | | | | Shell and tube | | | | |
| Number | A,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

SOUND DATA

| Size | | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|--|---|-------|------|------|------|------|------|------|------|------|------|
| Set-up:° | | | | | | | | | | | |
| Sound data calculated in cooling mode (1 |) | | | | | | | | | | |
| Complement of the complement o | A | dB(A) | 89,0 | 91,0 | 92,0 | 94,0 | 94,0 | 93,0 | 96,0 | 94,0 | 97,0 |
| Sound power level | U | dB(A) | 86,0 | 88,0 | 89,0 | 91,0 | 91,0 | 93,0 | 93,0 | 94,0 | 94,0 |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 1310 | 1490 | 2310 | 2490 | 3310 | 3400 | 3490 | 4400 | 4490 |
|------------------------|-----|----|------|------|------|------|------|------|------|------|------|
| Exchanger: 1 | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | |
| A | A,U | mm | - | - | - | - | 2010 | 2010 | 2010 | 2280 | 2280 |
| В | A,U | mm | - | - | - | - | 4966 | 4966 | 4966 | 4966 | 4966 |
| C | A,U | mm | - | - | - | - | 1640 | 1640 | 1640 | 1732 | 1732 |
| Exchanger: 2 | | | | | | | | | | | |
| Dimensions and weights | | | | | | | | | | | |
| A | A,U | mm | 1850 | 1970 | 2010 | 2280 | 2280 | 2280 | 2280 | 2280 | 2280 |
| В | A,U | mm | 3040 | 3040 | 3340 | 4390 | 3990 | 3990 | 4966 | 4966 | 4966 |
| C | A,U | mm | 1000 | 1240 | 1240 | 1332 | 1732 | 1836 | 1836 | 1836 | 1836 |

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MULTI-PURPOSE

Thanks to the special architecture of the refrigerant circuit and advanced control logic, the multi-purpose heat pump is able to simultaneously satisfy different installation requirements and to independently modulate the power delivered on each of them.

The ability to simultaneously meet the demand of the hot and cold circuit, whatever the proportion of the load on the two circuits may be, derives from the capacity of its control to switch the operation between the various possible modes.

Air flow rate Cool. Cap. Heat. Cap. **MULTI-PURPOSE** Page (m³/h) (kW) (kW) NRP 0200-0750 43-185 46-205 Air-water multipurpose (plate heat exchanger) NRP 0804-3606 Air-water multipurpose (plate heat exchanger) 208-988 207-963 Multifunction unit with multiple temperature level capability 164-491 CPS 176-505 788 NXP 0500-1650 Water-water multipurpose (plate heat exchanger) 108-502 122-549





















NRP 0200-0750

Air-water multipurpose

Cooling capacity 43 ÷ 185 kW Heating capacity 46 ÷ 205 kW



- · High efficiency also at partial loads
- Units designed for 2 or 4-pipe systems
- Simultaneous and independent production of hot and chilled water
- Compact dimensions





DESCRIPTION

Multipurpose external units designed for 2 or 4-pipe systems. With just one unit simultaneous and independent requests for hot and chilled water can be accommodated all year round.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency **E** Silenced high efficiency

FEATURES

Operating field

Working at full load up to -15 $^{\circ}$ C outside air temperature in winter, and up to 46 $^{\circ}$ C in summer. Hot water production up to 55 $^{\circ}$ C (for more details refer to the selection software and technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Option integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL PCO⁵

770

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

— Possibility to control two units in a Master-Slave configuration

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

GP: Anti-intrusion grid.

VT: Antivibration supports

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FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | Α | | | | | | | • | • | • | • | • | • |
| AER403F I | E | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | Α | | | | | | | • | • | • | • | • | • |
| AENDACP | E | • | • | • | • | • | | | • | • | • | | |
| AFDNET | Α | | | | | | | • | • | • | • | • | • |
| AERNET | E | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER EVO | Α | | | | | | | • | • | • | • | • | • |
| MULIICHILLER_EVU | E | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | A | | | | | | | • | | • | • | • | |
| PGD1 | E | • | • | • | • | • | • | • | • | • | • | • | • |

Anti-intrusion grid

| Ver | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|-----|------|------|------|------|------|------|-------------|-------------|-------------|-------------|-------------|--------------|
| A | - | - | - | - | - | - | GP2 x 2 (1) | GP2 x 3 (1) | GP10 x 3 (1) |
| E | GP3 | GP3 | GP3 | GP4 | GP4 | GP4 | GP2 x 2 (1) | GP2 x 3 (1) | GP10 x 3 (1) |

⁽¹⁾ x _ indicates the quantity to buy

Antivibration

| Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | 0200 | 0240 | 0280 |
|---------|-----------------------------------|--|----------|----------|--------------|
| Α | 00 | 00,R1,R2,R3,R4 | | | |
| A | 01,02,03,04,05,06,07,08 | 00,61,62,65,64 | <u> </u> | <u> </u> | <u> </u> |
| A | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | <u> </u> | <u> </u> | |
| E | 00,P1,P2,P3,P4 | 00,R1,R2,R3,R4 | - VT17 | VT17 | - VT17 |
| E | | | VT13 | VT13 | VT17 VT13 |
| t | 01,02,03,04,05,06,07,08 | 00 | V113 | V113 | V113 |
| Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | 0300 | 0330 | 0350 |
| A | 00 | 00,R1,R2,R3,R4 | - | - | - |
| A | 01,02,03,04,05,06,07,08 | 00 | - | - | - |
| A | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | - | - | - |
| E | 00,P1,P2,P3,P4 | 00,R1,R2,R3,R4 | VT17 | VT17 | VT17 |
| E | 01,02,03,04,05,06,07,08 | 00 | VT13 | VT13 | VT13 |
| Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | 0500 | 0550 | 0600 |
| Α | 00 | 00,R1,R2,R3,R4 | VT11 | VT11 | VT11 |
| A | 01,02,03,04,05,06,07,08 | 00 | VT11 | VT11 | VT11 |
| A | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | VT11 | VT11 | VT11 |
| E | 00 | 00,R1,R2,R3,R4 | VT11 | VT11 | VT11 |
| E | 01,02,03,04,05,06,07,08 | 00 | VT11 | VT11 | VT11 |
| E | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | VT11 | VT11 | VT11 |
| Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | 0650 | 0700 | 0750 |
| A | 00 | 00,R1,R2,R3,R4 | VT11 | VT22 | VT23 |
| A | 01,02,03,04,05,06,07,08 | 00 | VT11 | VT22 | VT23 |
| A | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | VT11 | VT22 | VT23 |
| E | 00 | 00,R1,R2,R3,R4 | VT11 | VT22 | VT23 |
| E | 01,02,03,04,05,06,07,08 | 00 | VT11 | VT22 | VT23 |
| E | P1,P2,P3,P4 | 00,R1,R2,R3,R4 | VT11 | VT22 | VT23 |

not available

Device for peak current reduction

| Ver | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Power supply: ° | | | | | | | | | | | | |
| A | - | - | - | - | - | - | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) |
| E | DRE281 (1) | DRE281 (1) | DRE281 (1) | DRE301 (1) | DRE331 (1) | DRE351 (1) | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz, x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | - | - | - | - | - | - | RIF52 | RIF52 | RIF53 | RIF53 | RIF53 | RIF53 |
| E | RIF54 | RIF54 | RIF50 | RIF50 | RIF50 | RIF51 | RIF52 | RIF52 | RIF53 | RIF53 | RIF53 | RIF53 |

A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NRP |
| 4,5,6,7 | Size 0200, 0240, 0280, 0300, 0330, 0350, 0500, 0550, 0600, 0650, 0700, 0750 |
| 8 | Version |
| Α | High efficiency |
| E | Silenced high efficiency (1) |
| 9 | System type |
| 2 | 2-pipe system |
| 4 | 4-pipe system |
| 10 | Coils |
| 0 | Copper-aluminium |
| R | Copper pipes-copper fins |
| S | Copper pipes-Tinned copper fins |
| V | Copper pieps-Coated aluminium fins |
| 11 | Fans |
| 0 | Standard (2) |
| J | Inverter (3) |
| M | Oversized (4) |
| 12 | Power supply |
| 0 | 400V ~ 3N 50Hz with magnet circuit breakers |
| 1 | 220V ~ 3 50Hz with magnet circuit breakers (5) |
| 13,14 | Integrated hydronic kit user side |
| 00 | Without hydronic kit |
| 01 | Storage tank with low head pump |
| 02 | Storage tank with low head pump + stand-by pump |
| 03 | Storage tank with high head pump |
| 04 | Storage tank with high head pump + stand-by pump |
| 05 | Storage tank with holes for heaters and single low head pump (6) |
| 06 | Storage tank with holes for heaters and pump low head + stand-by pump (6) |
| 07 | Storage tank with holes for heaters and single high head pump (6) |
| 08 | Storage tank with holes for heaters and pump high head + stand-by pump (6) |
| P1 | Single pump low head |
| P2 | Pump low head + stand-by pump |
| P3 | Single pump high head |
| P4 | Pump high head + stand-by pump |
| 15,16 | Integrated hydronic kit, recovery side |
| 00 | Without hydronic kit |
| R1 | Single pump low head |
| R2 | Pump low head + stand-by pump |
| R3 | Single pump high head |
| R4 | Pump high head + stand-by pump |

- (1) The size up 0200 to 0350 are only available in the silenced versions (E)
 (2) As standard in sizes from 0500 to 0750
 (3) Standard for size from 0200 to 0350 without useful static pressure, option for other sizes
 (4) Available only for size from 0200 to 0350
 (5) Not available for size 0750
 (6) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

PERFORMANCE SPECIFICATIONS

NRP - 2-pipe system version A

| Size | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|---|-----------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling system side 2-pipe system (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | - | 99,8 | 103,7 | 123,7 | 140,7 | 159,7 | 184,6 |
| Input power | kW | - | - | - | - | - | - | 32,4 | 36,0 | 44,1 | 50,5 | 55,2 | 64,6 |
| Cooling total input current | A | - | - | - | - | - | - | 55,0 | 59,0 | 72,0 | 82,0 | 88,0 | 113,0 |
| EER | W/W | - | - | - | - | - | - | 3,08 | 2,89 | 2,80 | 2,79 | 2,89 | 2,86 |
| Water flow rate system side | l/h | - | - | - | - | - | - | 17181 | 17868 | 21305 | 24225 | 27490 | 31785 |
| Pressure drop system side | kPa | - | - | - | - | - | - | 37 | 39 | 37 | 48 | 56 | 67 |
| Heating system side 2-pipe system (2) | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | - | - | 106,3 | 112,3 | 137,3 | 152,3 | 173,3 | 205,4 |
| Input power | kW | - | - | - | - | - | - | 32,6 | 35,1 | 41,3 | 45,8 | 53,8 | 62,8 |
| Heating total input current | A | - | - | - | - | - | - | 55,0 | 59,0 | 72,0 | 82,0 | 88,0 | 113,0 |
| COP | W/W | - | - | - | - | - | - | 3,26 | 3,20 | 3,33 | 3,33 | 3,22 | 3,27 |
| Water flow rate system side | l/h | - | - | - | - | - | - | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop system side | kPa | - | - | - | - | - | - | 43 | 46 | 46 | 57 | 67 | 84 |
| Heating domestic hot water side 2-pipe system | (3) | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | - | - | 106,2 | 112,2 | 137,3 | 152,3 | 173,4 | 205,3 |
| Input power | kW | - | - | - | - | - | - | 32,5 | 34,9 | 41,3 | 45,7 | 53,5 | 62,3 |
| Heating total input current | A | - | - | - | - | - | - | 55,0 | 59,0 | 72,0 | 82,0 | 88,0 | 113,0 |
| СОР | W/W | - | - | - | - | - | - | 3,27 | 3,21 | 3,32 | 3,34 | 3,24 | 3,29 |
| Water flow rate domestic hot water side | l/h | - | - | - | - | - | - | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop domestic hot water side | kPa | - | - | - | - | - | - | 30 | 34 | 51 | 48 | 35 | 49 |
| Simultaneous operation (heating + cooling), 2 | oipes (4) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | - | 103,3 | 111,3 | 133,8 | 148,5 | 169,2 | 202,7 |
| Recovered heating power | kW | - | - | - | - | - | - | 132,2 | 142,2 | 174,3 | 193,3 | 218,4 | 261,3 |
| Input power | kW | - | - | - | - | - | - | 30,8 | 32,9 | 43,2 | 48,0 | 52,5 | 63,0 |
| Water flow rate system side | l/h | - | - | - | - | - | - | 17181 | 17868 | 21305 | 24225 | 27490 | 31785 |
| Pressure drop system side | kPa | - | - | - | - | - | - | 37 | 39 | 37 | 48 | 56 | 67 |
| Water flow rate domestic hot water side | l/h | - | - | - | - | - | - | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop domestic hot water side | kPa | - | - | - | - | _ | - | 30 | 34 | 51 | 48 | 35 | 49 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side 40 °C/45 °C; (4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 2-pipe system version E

| Size | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|---|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling system side 2-pipe system (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 42,9 | 49,9 | 55,9 | 63,9 | 67,9 | 79,8 | 94,8 | 98,8 | 115,8 | 130,7 | 152,7 | 178,7 |
| Input power | kW | 13,9 | 16,5 | 18,9 | 20,8 | 23,2 | 27,0 | 35,2 | 38,9 | 48,3 | 55,5 | 61,9 | 70,6 |
| Cooling total input current | A | 28,0 | 33,0 | 38,0 | 41,0 | 45,0 | 52,0 | 60,0 | 64,0 | 79,0 | 91,0 | 99,0 | 120,0 |
| EER | W/W | 3,08 | 3,02 | 2,97 | 3,07 | 2,93 | 2,96 | 2,70 | 2,54 | 2,40 | 2,35 | 2,47 | 2,53 |
| Water flow rate system side | l/h | 7388 | 8591 | 9621 | 10996 | 11683 | 13745 | 16322 | 17009 | 19930 | 22507 | 26287 | 30754 |
| Pressure drop system side | kPa | 26 | 37 | 22 | 29 | 22 | 31 | 34 | 35 | 32 | 41 | 51 | 63 |
| Heating system side 2-pipe system (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 46,1 | 53,2 | 60,1 | 75,2 | 80,2 | 84,2 | 106,3 | 112,3 | 137,3 | 152,3 | 173,3 | 205,4 |
| Input power | kW | 13,3 | 15,6 | 17,7 | 22,4 | 23,9 | 25,6 | 32,6 | 35,1 | 41,3 | 45,7 | 53,8 | 62,8 |
| Heating total input current | A | 28,0 | 33,0 | 38,0 | 41,0 | 45,0 | 52,0 | 60,0 | 64,0 | 79,0 | 91,0 | 99,0 | 120,0 |
| COP | W/W | 3,47 | 3,42 | 3,40 | 3,36 | 3,36 | 3,28 | 3,26 | 3,20 | 3,33 | 3,33 | 3,22 | 3,27 |
| Water flow rate system side | l/h | 7995 | 9211 | 10428 | 13035 | 13904 | 14599 | 18423 | 19466 | 23812 | 26417 | 30067 | 35629 |
| Pressure drop system side | kPa | 30 | 43 | 26 | 41 | 31 | 35 | 43 | 46 | 46 | 56 | 67 | 85 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | | | | | |
| Heating capacity | kW | 46,1 | 53,1 | 60,1 | 75,2 | 80,2 | 84,1 | 106,2 | 112,2 | 137,3 | 152,3 | 173,4 | 205,3 |
| Input power | kW | 13,2 | 15,4 | 17,7 | 22,3 | 24,0 | 25,5 | 32,5 | 34,9 | 41,3 | 45,7 | 53,5 | 62,3 |
| Heating total input current | Α | 28,0 | 33,0 | 38,0 | 41,0 | 45,0 | 52,0 | 60,0 | 64,0 | 79,0 | 91,0 | 99,0 | 120,0 |
| COP | W/W | 3,49 | 3,44 | 3,40 | 3,37 | 3,35 | 3,30 | 3,27 | 3,21 | 3,32 | 3,34 | 3,24 | 3,29 |
| Water flow rate domestic hot water side | I/h | 7995 | 9211 | 10428 | 13035 | 13904 | 14599 | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop domestic hot water side | kPa | 13 | 17 | 21 | 33 | 38 | 19 | 30 | 34 | 51 | 48 | 35 | 49 |
| Simultaneous operation (heating + cooling), 2 pipes | (4) | | | | | | | | | | | | |
| Cooling capacity | kW | 45,6 | 52,4 | 58,3 | 68,9 | 74,0 | 87,1 | 103,3 | 111,4 | 133,9 | 148,5 | 169,2 | 202,7 |
| Recovered heating power | kW | 58,1 | 67,1 | 75,1 | 88,2 | 95,2 | 111,1 | 132,2 | 142,2 | 174,3 | 193,3 | 218,4 | 261,3 |
| Input power | kW | 13,2 | 15,5 | 17,8 | 20,5 | 22,5 | 25,5 | 30,7 | 32,8 | 43,1 | 47,9 | 52,5 | 62,9 |
| Water flow rate system side | l/h | 7388 | 8591 | 9621 | 10996 | 11683 | 13745 | 16322 | 17009 | 19930 | 22507 | 26287 | 30754 |
| Pressure drop system side | kPa | 26 | 37 | 22 | 29 | 22 | 31 | 34 | 35 | 32 | 41 | 51 | 63 |
| Water flow rate domestic hot water side | l/h | 7995 | 9211 | 10428 | 13035 | 13904 | 14599 | 18423 | 19446 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop domestic hot water side | kPa | 13 | 17 | 21 | 33 | 38 | 19 | 30 | 34 | 51 | 48 | 35 | 49 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
(2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Water exchanger to the total recovery side 40 °C/45 °C;
(4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 4-pipe system version A

| Size | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|---|--------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Cooling system side 4-pipe system (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | - | 99,8 | 103,7 | 123,7 | 140,7 | 159,7 | 184,6 |
| Input power | kW | - | - | - | - | - | - | 32,4 | 36,0 | 44,1 | 50,5 | 55,2 | 64,6 |
| Cooling total input current | A | - | - | - | - | - | - | 55,0 | 59,0 | 72,0 | 82,0 | 88,0 | 113,0 |
| EER | W/W | - | - | - | - | - | - | 3,08 | 2,89 | 2,80 | 2,79 | 2,89 | 2,86 |
| Water flow rate system side | l/h | - | - | - | - | - | - | 17181 | 17868 | 21305 | 24225 | 27490 | 31785 |
| Pressure drop system side | kPa | - | - | - | - | - | - | 37 | 39 | 37 | 48 | 56 | 67 |
| Heating system side 4-pipe system (2) | | | | | | | | | | | | | |
| Heating capacity | kW | - | - | - | - | - | - | 106,2 | 112,2 | 137,3 | 152,3 | 173,4 | 205,3 |
| Input power | kW | - | - | - | - | - | - | 32,5 | 39,9 | 41,3 | 45,7 | 53,5 | 62,3 |
| Heating total input current | А | - | - | - | - | - | - | 55,0 | 59,0 | 72,0 | 82,0 | 88,0 | 113,0 |
| COP | W/W | - | - | - | - | - | - | 3,27 | 3,21 | 3,32 | 3,34 | 3,24 | 3,29 |
| Water flow rate system side | l/h | - | - | - | - | - | - | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop system side | kPa | - | - | - | - | - | - | 30 | 34 | 51 | 48 | 35 | 49 |
| Simultaneous operation (heating + cooling), 4 pip | es (3) | | | | | | | | | | | | |
| Cooling capacity | kW | - | - | - | - | - | - | 103,3 | 111,3 | 133,8 | 148,5 | 169,2 | 202,7 |
| Recovered heating power | kW | - | - | - | - | - | - | 132,2 | 142,2 | 174,3 | 193,3 | 218,4 | 261,3 |
| Input power | kW | - | - | - | - | - | - | 30,8 | 32,9 | 43,2 | 48,0 | 52,5 | 63,0 |
| Water flow rate cold side | l/h | - | - | - | - | - | - | 17181 | 17868 | 21305 | 24225 | 27490 | 31785 |
| Pressure drop cold side | kPa | - | - | - | - | - | - | 37 | 39 | 37 | 48 | 56 | 67 |
| Water flow rate hot side | l/h | - | - | - | - | - | - | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop hot side | kPa | - | - | - | - | - | - | 30 | 34 | 51 | 48 | 35 | 49 |

- (1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 4-pipe system version E

| NAP - 4-pipe system version E | | | | | | | | | | | | | |
|---|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
| Cooling system side 4-pipe system (1) | | | | | | | | | | | | | |
| Cooling capacity | kW | 42,9 | 49,9 | 55,9 | 63,9 | 67,9 | 79,8 | 94,8 | 98,8 | 115,8 | 130,7 | 152,7 | 178,7 |
| Input power | kW | 13,9 | 16,5 | 18,9 | 20,8 | 23,2 | 27,0 | 35,2 | 38,9 | 48,3 | 55,5 | 61,9 | 70,6 |
| Cooling total input current | A | 28,0 | 33,0 | 38,0 | 41,0 | 45,0 | 52,0 | 60,0 | 64,0 | 79,0 | 91,0 | 99,0 | 120,0 |
| EER | W/W | 3,08 | 3,02 | 2,97 | 3,07 | 2,93 | 2,96 | 2,70 | 2,54 | 2,40 | 2,35 | 2,47 | 2,53 |
| Water flow rate system side | l/h | 7388 | 8591 | 9621 | 10996 | 11683 | 13745 | 16322 | 17009 | 19930 | 22507 | 26287 | 30754 |
| Pressure drop system side | kPa | 26 | 37 | 22 | 29 | 22 | 31 | 34 | 35 | 32 | 41 | 51 | 63 |
| Heating system side 4-pipe system (2) | | | | | | | | | | | | | |
| Heating capacity | kW | 46,1 | 53,1 | 60,1 | 75,2 | 80,2 | 84,1 | 106,2 | 112,2 | 137,3 | 152,3 | 173,4 | 205,3 |
| Input power | kW | 13,2 | 15,4 | 17,7 | 22,3 | 24,0 | 25,5 | 32,5 | 34,9 | 41,3 | 45,7 | 53,5 | 62,3 |
| Heating total input current | A | 28,0 | 33,0 | 38,0 | 41,0 | 45,0 | 52,0 | 60,0 | 64,0 | 79,0 | 91,0 | 99,0 | 120,0 |
| COP | W/W | 3,49 | 3,44 | 3,40 | 3,37 | 3,35 | 3,30 | 3,27 | 3,21 | 3,32 | 3,34 | 3,24 | 3,29 |
| Water flow rate system side | l/h | 7995 | 9211 | 10428 | 13035 | 13904 | 14599 | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop system side | kPa | 13 | 17 | 21 | 33 | 38 | 19 | 30 | 34 | 51 | 48 | 35 | 49 |
| Simultaneous operation (heating + cooling), 4 pip | es (3) | | | | | | | | | | | | |
| Cooling capacity | kW | 45,6 | 52,4 | 58,3 | 68,9 | 74,0 | 87,1 | 103,3 | 111,4 | 133,9 | 148,5 | 169,2 | 202,7 |
| Recovered heating power | kW | 58,1 | 67,1 | 75,1 | 88,2 | 95,2 | 111,1 | 132,2 | 142,2 | 174,3 | 193,3 | 218,4 | 261,3 |
| Input power | kW | 13,2 | 15,5 | 17,8 | 20,5 | 22,5 | 25,5 | 30,7 | 32,8 | 43,1 | 47,9 | 52,5 | 62,9 |
| Water flow rate cold side | I/h | 7388 | 8591 | 9621 | 10996 | 11683 | 13745 | 16322 | 17009 | 19930 | 22507 | 26287 | 30754 |
| Pressure drop cold side | kPa | 26 | 37 | 22 | 29 | 22 | 31 | 34 | 35 | 32 | 41 | 51 | 63 |
| Water flow rate hot side | l/h | 7995 | 9211 | 10428 | 13035 | 13904 | 14599 | 18423 | 19466 | 23810 | 26417 | 30067 | 35629 |
| Pressure drop hot side | kPa | 13 | 17 | 21 | 33 | 38 | 19 | 30 | 34 | 51 | 48 | 35 | 49 |

- (1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

ENERGY DATA

| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|---|---------------|--------------|----------------|-------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity with low leaving water | temp (UE n° 2 | 2016/2281) | | | | | | | | | | | | |
| SEER | Α | W/W | - | - | - | - | - | - | 3,62 | 3,34 | 3,78 | 3,83 | 3,86 | 3,92 |
| DEEK | E | W/W | 3,78 | 3,74 | 3,77 | 3,70 | 3,74 | 4,00 | 3,53 | 3,29 | 3,67 | 3,72 | 3,75 | 3,76 |
| wee. | A | % | - | - | - | - | - | - | 141,60 | 130,60 | 148,00 | 150,10 | 151,30 | 153,70 |
| ηςς | E | % | 148,20 | 146,50 | 147,70 | 145,00 | 146,50 | 157,10 | 138,10 | 128,50 | 143,60 | 145,70 | 146,90 | 147,50 |
| UE 813/2013 performance in average am | bient conditi | ons (average |) - 35 °C - Pd | esignh ≤ 40 | 0 kW (1) | | | | | | | | | |
| Ddaeianh | А | kW | - | - | - | - | - | - | 90,00 | 95,00 | 116,00 | 129,00 | 147,00 | 174,00 |
| Pdesignh | E | kW | 39,00 | 45,00 | 51,00 | 64,00 | 68,00 | 71,00 | 90,00 | 95,00 | 116,00 | 129,00 | 147,00 | 174,00 |
| ccon | А | W/W | - | - | - | - | - | - | 3,53 | 3,50 | 3,60 | 3,68 | 3,55 | 3,60 |
| SCOP | E | W/W | 3,60 | 3,53 | 3,55 | 3,50 | 3,50 | 3,43 | 3,53 | 3,50 | 3,70 | 3,68 | 3,55 | 3,60 |
| nch | А | % | - | - | - | - | - | - | 138,00 | 137,00 | 145,00 | 144,00 | 139,00 | 141,00 |
| ηsh | E | % | 141,00 | 138,00 | 139,00 | 137,00 | 137,00 | 134,00 | 138,00 | 137,00 | 145,00 | 144,00 | 139,00 | 141,00 |

⁽¹⁾ Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|-----------------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power supply: ° | | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | | |
| Manimon and (ELA) | A | A | - | - | - | - | - | - | 76,0 | 81,0 | 100,0 | 112,0 | 122,0 | 144,0 |
| Maximum current (FLA) | E | А | 36,0 | 41,0 | 46,0 | 53,0 | 58,0 | 63,0 | 76,0 | 81,0 | 100,0 | 112,0 | 122,0 | 144,0 |
| DI | A | А | - | - | - | - | - | - | 214,0 | 220,0 | 232,0 | 243,0 | 261,0 | 320,0 |
| Peak current (LRA) | E | A | 119,0 | 150,0 | 155,0 | 184,0 | 190,0 | 200,0 | 214,0 | 220,0 | 232,0 | 243,0 | 261,0 | 320,0 |

| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|--------------------------------|----------------|---------------|----------|-----------|--------|-------------|-----------|----------|--------------|--------------|--------------|--------------|--------------|------------|
| Compressor | | | | | | | | | | | | | | |
| Туре | A | type | - | - | - | - | - | - | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| .,,pc | E | type | | | | | | Sc | roll | | | | | |
| Number | A | no. | - | - | - | - | - | - | 3 | 3 | 4 | 4 | 4 | 4 |
| | E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 |
| Circuits | A | no. | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A | type | - | - | - | - | - | - | R410A | R410A | R410A | R410A | R410A | R410A |
| nenigerant | E | type | | - | | | | R4 | 10A | | | | | |
| Refrigerant charge (1) | A | kg | - | - | - | - | - | - | 33,0 | 33,0 | - | - | - | - |
| nemgerant charge (1) | E | kg | 16,0 | 16,0 | 16,0 | 20,0 | 20,0 | 20,0 | 33,0 | 33,0 | - | - | - | - |
| 2-pipe system - System side he | at exchanger (| hot/cold) | | | | | | | | | | | | |
| Tuno | A | type | - | - | - | - | - | - | | Brazed plate | Brazed plate | Brazed plate | Brazed plate | Brazed pla |
| Туре | E | type | | | | | | Braze | d plate | | | | | |
| Number | A | no. | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Nulliber | E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Commonstions (in Joseph) | А | Type | - | - | - | - | - | - | G.s. | G.s. | G.s. | G.s. | G.s. | G.s. |
| Connections (in/out) | E | Туре | | | | | | G | .S. | | | | | |
| C: (:) | A | Ø | - | - | - | - | - | - | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2" 1/2 | 3" |
| Size (in) | E | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2″1/2 | 2″1/2 | 2"1/2 | 2″1/2 | 2"1/2 | 3" |
| G. () | A | Ø | - | - | - | - | - | - | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 3" |
| Size (out) | E | Ø | 2"1/2 | 2" 1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 3" |
| 2-pipe system - Recovery side | heat exchange | r (domestic l | | | | | | | | | | | | |
| | A | type | - | - | - | - | - | - | Brazed plate | Brazed pla |
| Туре | E | type | | | | | | Braze | d plate | | | | | |
| | A | no. | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| Number | E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | Type | | | | - | | | | G.s. | G.s. | G.s. | G.s. | G.s. |
| Manifold connection (in/out) | E | Type | | | | | | G | .S. | 0.51 | 0.51 | 0.51 | 0.51 | |
| | A | Ø | _ | - | - | - | - | - | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| Manifold diameter (in) | E | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| | A | Ø | | | - 1/2 | | | - | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| Manifold diameter (out) | F | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| 4-pipe system - System side he | | | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | |
| + pipe system - system side no | A | type | _ | _ | _ | | - | _ | Rrazed nlate | Brazed plate | Rrazed nlate | Rrazad nlata | Rrazad nlata | Brazed nla |
| Туре | E | | | | | | | | d plate | Diazcu piate | Diazeu piate | Diazeu piate | Diazcu piate | Diazcu pia |
| | A | type | | | | | _ | Diaze | 1 | 1 | 1 | 1 | 1 | 1 |
| Number | E | no. | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | no. | - | - | - | - | - | - | | | | | | |
| Connections (in/out) | A E | Type | | | | | | | G.S. .S. | G.s. | G.S. | G.s. | G.s. | G.s. |
| | | Туре | | | | | | | | 2// 1 /2 | 2// 1 /2 | 2// 1 /2 | 2//1/2 | 2" |
| Size (in) | A | Ø | - 2//1/2 | - 2// 1/2 | 2//1/2 | - 2// 1 / 2 | - 2// 1/2 | - 2//1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| | E | Ø | 2″1/2 | 2″1/2 | 2″1/2 | 2″ 1/2 | 2"1/2 | 2″1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2″1/2 | |
| Size (out) | A | Ø | - | - | - | | - | - | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| | E | Ø | 2″1/2 | 2″1/2 | 2″1/2 | 2″1/2 | 2″1/2 | 2″1/2 | 2"1/2 | 2″1/2 | 2"1/2 | 2″1/2 | 2″1/2 | 3" |
| 4-pipe system - Recovery side | | | | - | | | | | | | | | | |
| Туре | A | type | - | - | - | - | - | | | Brazed plate | Brazed plate | Brazed plate | Brazed plate | Brazed pla |
| 71. | E | type | | | | | | Braze | d plate | | | | | |
| Number | A | no. | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Manifold connection (in/out) | A | Type | - | - | | - | | | | G.s. | G.s. | G.s. | G.s. | G.s. |
| mamora connection (m/out) | E | Туре | | | | | | G | .S. | | | | | |
| Manifold diameter (in) | A | Ø | - | - | - | - | - | - | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" |
| mannoiu uidineter (III) | E | Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3″ |
| | | | | | | | | | | | | | | 3″ |
| Manifold diameter (out) | Α | Ø | - | - | - | - | - | - | 2" 1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2"1/2 |) |

Manifold diameter (out)

E

Ø

2"1/2

2"1/2

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G.s. = Grooved joints

FANS DATA

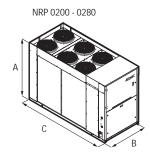
| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|-----------------|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fan | | | | | | | | | | | | | | |
| Tuna | Α | type | - | - | - | - | - | - | Axial | Axial | Axial | Axial | Axial | Axial |
| Туре | E | type | Axial |
| Nomekan | А | no. | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 |
| Number - | E | no. | 6 | 6 | 6 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 |
| A: A | А | m³/h | - | - | - | - | - | - | 37000 | 37000 | 36500 | 36500 | 58000 | 48000 |
| Air flow rate - | E | m³/h | 20000 | 20000 | 20000 | 26000 | 26000 | 26000 | 20200 | 21100 | 21400 | 22400 | 31900 | 34600 |

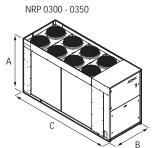
SOUND DATA

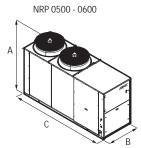
| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|--|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound data calculated in cooling mode (1 |) | | | | | | | | | | | | | |
| Country would be a second of the second of t | Α | dB(A) | - | - | - | - | - | - | 82,0 | 82,0 | 82,0 | 83,0 | 85,0 | 85,0 |
| Sound power level | E | dB(A) | 74,0 | 74,0 | 74,0 | 75,0 | 75,0 | 76,0 | 74,0 | 74,0 | 74,0 | 75,0 | 77,0 | 77,0 |
| County = 100 | Α | dB(A) | - | - | - | - | - | - | 50,0 | 50,0 | 50,0 | 51,0 | 53,0 | 53,0 |
| Sound pressure level (10 m) | Е | dB(A) | 42,0 | 42,0 | 42,0 | 43,0 | 43,0 | 44,0 | 42,0 | 42,0 | 42,0 | 43,0 | 45,0 | 45,0 |

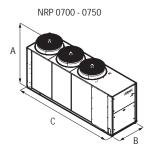
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS









| Size | | | 0200 | 0240 | 0280 | 0300 | 0330 | 0350 | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 |
|------------------------|---|----|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions and weights | | | | | | | | | | | | | | |
| Λ. | Α | mm | - | - | - | - | - | - | 1875 | 1875 | 1875 | 1875 | 1875 | 1975 |
| A - | E | mm | 1606 | 1606 | 1606 | 1606 | 1606 | 1606 | 1875 | 1875 | 1875 | 1875 | 1875 | 1975 |
| В | Α | mm | - | - | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1500 |
| В | E | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1500 |
| (| A | mm | - | - | - | - | - | - | 3342 | 3342 | 3342 | 3342 | 4342 | 4350 |
| | E | mm | 2700 | 2700 | 2700 | 3200 | 3200 | 3200 | 3342 | 3342 | 3342 | 3342 | 4342 | 4350 |
| Empty weight | Α | kg | - | - | - | - | - | - | 1233 | 1237 | 1359 | 1378 | 1591 | 1939 |
| Empty weight | E | kg | 788 | 790 | 792 | 862 | 872 | 894 | 1233 | 1237 | 1359 | 1378 | 1591 | 1939 |

[■] The weights are for standard units with plate heat exchangers and no hydronic kit.





















NRP 0804-3606

Air-water multipurpose

Cooling capacity 207 ÷ 963 kW Heating capacity 208 ÷ 988 kW



- Units designed for 2 or 4-pipe systems
- · High efficiency also at partial loads
- Simultaneous and independent production of hot and chilled water
- Also available with Shell and tube heat exchanger





DESCRIPTION

Multipurpose external units designed for 2 or 4-pipe systems. With just one unit simultaneous and independent requests for hot and chilled water can be accommodated all year round.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

A High efficiency

E Silenced high efficiency

FEATURES

Operating field

Working at full load up to -15 °C outside air temperature in winter, and up to 50 °C in summer. Hot water production up to 55 °C (for more details refer to the selection software and technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Exchangers

All the units have plate heat exchangers on service and recovery as standard but, upon request, they can be supplied with a shell & tube heat exchanger as well.

If the customer chooses a unit with tube core exchangers, it is not possible to add a hydronic kit.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Option integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

■ The flow switch is available as an accessory for both the system side and the recovery side, and is compulsory; if it is not installed, the warranty will be considered invalid.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

BRC1: Condensate drip tray. Consider 1 for each V-block.

ACCESSORIES COMPATIBILITY

| Model | | | Ver | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|------------------|---------|---------|-----|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | | | A,E | | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | | | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | | | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| FL | | | A,E | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| MULTICHILLER_EVO | | | A,E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PGD1 | | | A,E | ٠ | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ٠ | ٠ |
| | | | 30 | 04 | 090 | 4 | 100 | 14 | 110 | 14 | 120 | 04 | 14 | 14 | 16 | 04 | 18 | 05 | 20 | 06 |
| | IDR IMP | IDR REC | | | | | | | | | | | | | | | | | | |
| | 00 | 00 | AV) | (882 | AVX8 | 87 | AVX8 | 87 | AVX8 | 87 | AVX | 887 | AVX | 871 | AVX | 871 | AVX | 875 | AVX | (875 |
| A | PA-DJ | 00 | AV) | (886 | AVX8 | 87 | AVX8 | 87 | AVX8 | 87 | AVX | 887 | AVX | 872 | AVX | 872 | AVX | 875 | AVX | (884 |
| | 00 | RA-SJ | AV) | (886 | AVX8 | 87 | AVX8 | 87 | AVX8 | 87 | AVX | 883 | AVX | 873 | AVX | 873 | AV) | 876 | AVX | (876 |
| | PA-DJ | RA-SJ | AV) | (870 | AVX8 | 83 | AVX8 | 183 | AVX8 | 183 | AVX | 883 | AVX | 874 | AVX | 874 | AVX | 876 | AVX | (884 |
| | 00 | 00 | ΔV | (886 | AVX8 | 71 | AVX8 | 71 | AVX | .71 | AVX | 871 | AVX | R75 | AVX | 877 | ΔVX | 878 | ΔVX | (878 |
| _ | PA-DJ | 00 | | (886 | AVX8 | | AVX8 | | AVX | | AVX | | AVX | | AVX | | | 878 | | (865 |
| E - | 00 | RA-SJ | | (870 | AVX8 | | AVX8 | | AVX | | | (865 |
| | PA-DJ | RA-SJ | AV) | (870 | AVX8 | 74 | AVX8 | 374 | AVX8 | 374 | AVX | 874 | AVX | 876 | AVX | 877 | AVX | 879 | AVX | (865 |
| | | | 22 | .06 | 240 | б | 260 | 16 | 280 | 16 | 300 | 06 | 320 | 16 | 34 | 06 | 36 | 06 | | |
| | IDRIMP | IDR REC | | .00 | 210 | | 200 | | 200 | | 300 | - | 32 | | 31 | - | | ••• | | |
| _ | 00 | 00 | AV | (877 | AVX8 | 77 | AVX8 | 65 | AVXA | 165 | AVX | 866 | AVX | 866 | AVX | 869 | AVX | 869 | | |
| Α | PA-DJ | 00 | AV) | (877 | AVX8 | 85 | AVX8 | 65 | AVX8 | 65 | AVX | 866 | AVX | 866 | AVX | 868 | AVX | 868 | | |
| _ | 00 | RA-SJ | AV | (885 | AVX8 | 85 | AVX8 | 65 | AVX8 | 65 | AVX | 867 | AVX | 867 | AVX | 869 | AVX | 869 | | |
| | PA-DJ | RA-SJ | AV | (885 | AVX8 | 85 | AVX8 | 65 | AVX | 65 | AVX | 867 | AVX | 867 | AVX | 868 | AVX | 868 | | |

Device for peak current reduction

Ε

00

PA-DJ

00 PA-DJ

| Ver | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|-----|------------|------------|------------|------------|----------------|----------------|----------------|------------|------------|
| A,E | DRENRP0804 | DRENRP0904 | DRENRP1004 | DRENRP1104 | DRENRP1204 (1) | DRENRP1404 (2) | DRENRP1604 (1) | DRENRP1805 | DRENRP2006 |

AVX869

AVX868

AVX869

AVX868

AVX880

AVX880

AVX880

AVX880

AVX880

AVX880

AVX880

AVX880

AVX881

AVX881

AVX888

AVX888

AVX881

AVX881

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AVX888

AVX869

AVX868

AVX869

AVX868

AVX866

AVX866

AVX867

AVX867

AVX866

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RA-SJ

RA-SJ

| Ver | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|-----|------------|------------|------|------|------|------|------|------|
| A,E | DRENRP2206 | DRENRP2406 | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|-----|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| A | RIFNRP0804A | RIFNRP0904A | RIFNRP1004A | RIFNRP1104A | RIFNRP1204A | RIFNRP1404 | RIFNRP1604 | RIFNRP1805 | RIFNRP2006 |
| E | RIFNRP0804E | RIFNRP0904E | RIFNRP1004E | RIFNRP1104E | RIFNRP1204E | RIFNRP1404 | RIFNRP1604 | RIFNRP1805 | RIFNRP2006 |
| | | | | | | | | | |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| A,E | RIFNRP2206 | RIFNRP2406 | RIFNRP2606 | RIFNRP2806 | RIFNRP3006 | RIFNRP3206 | RIFNRP3406 | RIFNRP3606 |

A grey background indicates the accessory must be assembled in the factory

Anti-intrusion grid

| Ver | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|
| A | GP2VN | GP3VN | GP3VN | GP3VN | GP3VN | GP4VN | GP4VN | GP5VN | GP5G |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP7V | GP7V |
| E | GP3VN | GP4VN | GP4VN | GP4VN | GP4VN | GP5VN | GP6V | GP7V | GP7V |

A grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|-----|--------|--------|-------------|------------------|-----------------------|----------------------------|---------------------------------|---------------------------------------|
| A | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP9VN | GP9V |
| E | GP8V | GP8V | GP9V | GP9V | GP10V | GP10V | GP11V | GP11V |
| | A E | A GP6V | A GP6V GP6V | A GP6V GP6V GP7V | A GP6V GP6V GP7V GP7V | A GP6V GP6V GP7V GP7V GP8V | A GP6V GP6V GP7V GP7V GP8V GP8V | A GP6V GP6V GP7V GP7V GP8V GP8V GP9VN |

A grey background indicates the accessory must be assembled in the factory

| Ver | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| A,E | BRC1 (1) |

⁽¹⁾ Condensate drip tray. Consider 1 for each V-block.

⁽¹⁾ Only for power supply 400V 3N ~ 50Hz e 400V 3 ~ 50Hz.
(2) Only for supplies of 400V 3N ~ 50Hz and 400V 3 ~ 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

À grey background indicates the accessory must be assembled in the factory

| Ver | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|
| A,E | BRC1 (1) |

CONFIGURATOR

| Fiel | ld | Description |
|------|------|---|
| 1,2, | ,3 | NRP |
| 4,5, | ,6,7 | Size 0804, 0904, 1004, 1104, 1204, 1414, 1604, 1805, 2006, 2206, 2406, 2606, 2806 3006, 3206, 3406, 3606 |
| 8 | | Version |
| | Α | High efficiency (1) |
| | Ε | Silenced high efficiency |
| 9 | | System type |
| | 2 | 2-pipe system |
| | 4 | 4-pipe system |
| 10 | | Coils |
| | 0 | Copper-aluminium |
| | R | Copper pipes-copper fins |
| | S | Copper pipes-Tinned copper fins |
| | ٧ | Copper pieps-Coated aluminium fins |
| 11 | | Fans |
| | 0 | AC standard |
| | J | EC Inverter motors |
| 12 | | Power supply |
| | 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 13, | 14 | Integrated hydronic kit user side |
| | 00 | Without hydronic kit |
| | DA | Pump A + stand-by pump |
| | DB | Pump B + stand-by pump |
| | DC | Pump C + stand-by pump |
| | DD | Pump D + stand-by pump |
| | DE | Pump E + stand-by pump |
| | DF | Pump F + stand-by pump |
| | DG | Pump G + stand-by pump |
| | DH | Pump H + stand-by pump |
| | DI | Pump I + stand-by pump |
| | DJ | Pump J + stand-by pump (2) |
| | PA | Pump A |
| | | |

| Field | Description |
|-------|--|
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (2) |
| 15,16 | Integrated hydronic kit, recovery side |
| 00 | Without hydronic kit |
| RA | Pump A |
| RB | Pump B |
| RC | Pump C |
| RD | Pump D |
| RE | Pump E |
| RF | Pump F |
| RG | Pump G |
| RH | Pump H |
| RI | Pump I |
| RJ | Pump J (2) |
| SA | Pump A + stand-by pump |
| SB | Pump B + stand-by pump |
| SC | Pump C + stand-by pump |
| SD | Pump D + stand-by pump |
| SE | Pump E + stand-by pump |
| SF | Pump F + stand-by pump |
| SG | Pump G + stand-by pump |
| SH | Pump H + stand-by pump |
| SI | Pump I + stand-by pump |
| SJ | Pump J + stand-by pump (2) |

⁽¹⁾ Unit 804 version A cannot be configured with a twin pump on both the system side and the recovery side. (2) For all configurations including pump J please contact the factory.

⁽¹⁾ Condensate drip tray. Consider 1 for each V-block.
A grey background indicates the accessory must be assembled in the factory

PERFORMANCE SPECIFICATIONS

NRP - 2-pipe system version A

| Size | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling system side 2-pipe system (1) | | | | | | | | | | |
| Cooling capacity | kW | 206,7 | 230,6 | 259,2 | 299,6 | 332,2 | 386,3 | 426,2 | 490,5 | 544,3 |
| Input power | kW | 69,4 | 76,3 | 86,1 | 99,5 | 116,2 | 128,1 | 146,7 | 165,5 | 189,8 |
| Cooling total input current | Α | 124,0 | 138,0 | 155,0 | 172,0 | 195,0 | 218,0 | 247,0 | 280,0 | 319,0 |
| EER | W/W | 2,98 | 3,02 | 3,01 | 3,01 | 2,86 | 3,02 | 2,91 | 2,96 | 2,87 |
| Water flow rate system side | l/h | 35565 | 39671 | 44593 | 51536 | 57151 | 66430 | 73295 | 84370 | 93611 |
| Pressure drop system side | kPa | 24 | 33 | 34 | 42 | 43 | 36 | 36 | 49 | 54 |
| Heating system side 2-pipe system (2) | | | | | | | | | | |
| Heating capacity | kW | 209,9 | 246,0 | 272,7 | 306,2 | 340,5 | 396,2 | 437,6 | 504,8 | 562,7 |
| Input power | kW | 66,8 | 79,6 | 85,5 | 95,7 | 107,8 | 125,7 | 136,8 | 159,6 | 180,8 |
| Heating total input current | Α | 120,0 | 143,0 | 154,0 | 166,0 | 183,0 | 214,0 | 233,0 | 272,0 | 306,0 |
| COP | W/W | 3,14 | 3,09 | 3,19 | 3,20 | 3,16 | 3,15 | 3,20 | 3,16 | 3,11 |
| Water flow rate system side | l/h | 36426 | 42701 | 47339 | 53155 | 59117 | 68781 | 75976 | 87653 | 97701 |
| Pressure drop system side | kPa | 25 | 34 | 39 | 50 | 41 | 52 | 35 | 47 | 51 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | | |
| Heating capacity | kW | 209,9 | 246,0 | 272,7 | 306,2 | 340,6 | 396,2 | 437,6 | 504,9 | 562,7 |
| Input power | kW | 66,9 | 79,8 | 85,6 | 95,7 | 108,3 | 125,4 | 137,0 | 159,8 | 180,9 |
| Heating total input current | Α | 120,0 | 143,0 | 154,0 | 166,0 | 183,0 | 214,0 | 233,0 | 272,0 | 306,0 |
| COP | W/W | 3,14 | 3,08 | 3,19 | 3,20 | 3,15 | 3,16 | 3,19 | 3,16 | 3,11 |
| Water flow rate domestic hot water side | l/h | 36426 | 42701 | 47339 | 53155 | 59117 | 68781 | 75976 | 87653 | 97701 |
| Pressure drop domestic hot water side | kPa | 34 | 47 | 39 | 49 | 61 | 42 | 44 | 53 | 55 |
| Simultaneous operation (heating + cooling), 2 pipes (4) | | | | | | | | | | |
| Cooling capacity | kW | 211,2 | 236,7 | 258,2 | 306,9 | 350,5 | 398,0 | 446,2 | 510,6 | 584,4 |
| Recovered heating power | kW | 270,3 | 304,4 | 331,0 | 392,1 | 448,5 | 510,5 | 570,1 | 653,9 | 749,6 |
| Input power | kW | 62,8 | 72,4 | 77,7 | 91,3 | 105,2 | 120,2 | 132,4 | 153,7 | 177,2 |
| Water flow rate system side | l/h | 35565 | 39671 | 44593 | 51536 | 57151 | 66430 | 73295 | 84370 | 93611 |
| Pressure drop system side | kPa | 24 | 33 | 34 | 42 | 43 | 36 | 36 | 49 | 54 |
| Water flow rate domestic hot water side | l/h | 36426 | 42701 | 47339 | 53155 | 59117 | 68781 | 75976 | 87653 | 97701 |
| Pressure drop domestic hot water side | kPa | 34 | 47 | 39 | 49 | 61 | 42 | 44 | 53 | 55 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side 40 °C/45 °C; (4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 2-pipe system version A

| Size | | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling system side 2-pipe system (1) | | | | | | | | | |
| Cooling capacity | kW | 598,2 | 638,8 | 699,7 | 743,3 | 810,1 | 853,8 | 919,4 | 963,0 |
| Input power | kW | 202,0 | 220,3 | 235,7 | 257,3 | 273,7 | 295,4 | 312,1 | 333,7 |
| Cooling total input current | Α | 341,0 | 371,0 | 403,0 | 441,0 | 474,0 | 511,0 | 544,0 | 582,0 |
| EER | W/W | 2,96 | 2,90 | 2,97 | 2,89 | 2,96 | 2,89 | 2,95 | 2,89 |
| Water flow rate system side | l/h | 102896 | 109845 | 120321 | 127822 | 139307 | 146824 | 158090 | 165596 |
| Pressure drop system side | kPa | 64 | 47 | 43 | 48 | 52 | 57 | 66 | 73 |
| Heating system side 2-pipe system (2) | | | | | | | | | |
| Heating capacity | kW | 618,6 | 660,8 | 723,7 | 772,5 | 829,5 | 888,9 | 940,2 | 988,2 |
| Input power | kW | 199,7 | 209,7 | 230,5 | 247,9 | 265,5 | 286,7 | 304,3 | 321,9 |
| Heating total input current | A | 337,0 | 356,0 | 395,0 | 427,0 | 462,0 | 489,0 | 533,0 | 565,0 |
| COP | W/W | 3,10 | 3,15 | 3,14 | 3,12 | 3,12 | 3,10 | 3,09 | 3,07 |
| Water flow rate system side | I/h | 107407 | 114743 | 125675 | 134158 | 144044 | 154357 | 163276 | 171605 |
| Pressure drop system side | kPa | 62 | 47 | 42 | 48 | 50 | 57 | 63 | 70 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | |
| Heating capacity | kW | 618,7 | 660,8 | 723,7 | 772,6 | 829,5 | 888,9 | 940,2 | 988,2 |
| Input power | kW | 199,9 | 209,9 | 230,6 | 248,2 | 265,8 | 287,3 | 304,0 | 321,6 |
| Heating total input current | A | 337,0 | 356,0 | 395,0 | 427,0 | 462,0 | 489,0 | 533,0 | 565,0 |
| COP | W/W | 3,10 | 3,15 | 3,14 | 3,11 | 3,12 | 3,09 | 3,09 | 3,07 |
| Water flow rate domestic hot water side | I/h | 107407 | 114743 | 125675 | 134158 | 144044 | 154357 | 163276 | 171605 |
| Pressure drop domestic hot water side | kPa | 66 | 50 | 44 | 53 | 56 | 67 | 57 | 66 |
| Simultaneous operation (heating + cooling), 2 pipes (4) | | | | | | | | | |
| Cooling capacity | kW | 630,2 | 680,0 | 736,5 | 788,3 | 857,7 | 909,8 | 966,0 | 1019,1 |
| Recovered heating power | kW | 810,9 | 871,0 | 945,6 | 1015,4 | 1098,5 | 1168,6 | 1242,9 | 1313,5 |
| Input power | kW | 194,7 | 204,6 | 223,6 | 243,4 | 258,4 | 278,4 | 297,9 | 317,4 |
| Water flow rate system side | l/h | 102896 | 109845 | 120321 | 127822 | 139307 | 146824 | 158090 | 165596 |
| Pressure drop system side | kPa | 64 | 47 | 43 | 48 | 52 | 57 | 66 | 73 |
| Water flow rate domestic hot water side | l/h | 107407 | 114743 | 125675 | 134158 | 144044 | 154357 | 163276 | 171605 |
| Pressure drop domestic hot water side | kPa | 66 | 50 | 44 | 53 | 56 | 67 | 57 | 66 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
(2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Water exchanger to the total recovery side 40 °C/45 °C;
(4) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

NRP - 2-pipe system version E

| Size | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling system side 2-pipe system (1) | | | | | | | | | | |
| Cooling capacity | kW | 200,7 | 225,7 | 255,3 | 296,9 | 332,7 | 382,2 | 427,0 | 487,6 | 549,9 |
| Input power | kW | 66,0 | 73,4 | 83,2 | 96,4 | 113,0 | 125,6 | 139,1 | 159,0 | 182,6 |
| Cooling total input current | A | 113,0 | 125,0 | 142,0 | 159,0 | 182,0 | 203,0 | 225,0 | 256,0 | 294,0 |
| EER | W/W | 3,04 | 3,07 | 3,07 | 3,08 | 2,94 | 3,04 | 3,07 | 3,07 | 3,01 |
| Water flow rate system side | l/h | 34534 | 38826 | 43915 | 51070 | 57226 | 65736 | 73434 | 83856 | 94585 |
| Pressure drop system side | kPa | 25 | 33 | 34 | 43 | 44 | 37 | 38 | 49 | 54 |
| Heating system side 2-pipe system (2) | | | | | | | | | | |
| Heating capacity | kW | 207,4 | 240,7 | 262,4 | 300,7 | 338,4 | 389,4 | 436,7 | 503,3 | 567,2 |
| Input power | kW | 63,8 | 74,6 | 80,5 | 92,8 | 104,9 | 121,1 | 134,3 | 155,5 | 181,7 |
| Heating total input current | A | 109,0 | 126,0 | 136,0 | 153,0 | 170,0 | 195,0 | 217,0 | 250,0 | 293,0 |
| COP | W/W | 3,25 | 3,22 | 3,26 | 3,24 | 3,23 | 3,22 | 3,25 | 3,24 | 3,12 |
| Water flow rate system side | l/h | 35981 | 41776 | 45554 | 52195 | 58753 | 67603 | 75830 | 87384 | 98488 |
| Pressure drop system side | kPa | 25 | 33 | 37 | 48 | 40 | 50 | 35 | 46 | 52 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | | |
| Heating capacity | kW | 207,3 | 240,7 | 262,4 | 300,7 | 338,5 | 389,4 | 436,8 | 503,3 | 567,3 |
| Input power | kW | 64,0 | 74,8 | 80,5 | 92,8 | 105,4 | 120,8 | 134,6 | 155,7 | 181,9 |
| Heating total input current | A | 109,0 | 126,0 | 136,0 | 153,0 | 170,0 | 195,0 | 217,0 | 250,0 | 293,0 |
| COP | W/W | 3,24 | 3,22 | 3,26 | 3,24 | 3,21 | 3,22 | 3,24 | 3,23 | 3,12 |
| Water flow rate domestic hot water side | l/h | 35981 | 41776 | 45554 | 52195 | 58753 | 67603 | 75830 | 87384 | 98488 |
| Pressure drop domestic hot water side | kPa | 34 | 45 | 38 | 48 | 60 | 41 | 44 | 53 | 55 |
| Simultaneous operation (heating + cooling), 2 pipes (4) | | | | | | | | | | |
| Cooling capacity | kW | 211,0 | 236,8 | 258,3 | 306,6 | 350,0 | 397,8 | 445,0 | 509,9 | 583,9 |
| Recovered heating power | kW | 270,0 | 304,5 | 331,0 | 391,9 | 448,2 | 510,5 | 569,2 | 653,4 | 749,1 |
| Input power | kW | 62,8 | 72,3 | 77,6 | 91,4 | 105,3 | 120,3 | 132,7 | 153,9 | 177,3 |
| Water flow rate system side | l/h | 34534 | 38826 | 43915 | 51070 | 57226 | 65736 | 73434 | 83856 | 94585 |
| Pressure drop system side | kPa | 25 | 33 | 34 | 43 | 44 | 37 | 38 | 49 | 54 |
| Water flow rate domestic hot water side | l/h | 35981 | 41776 | 45554 | 52195 | 58753 | 67603 | 75830 | 87384 | 98488 |
| Pressure drop domestic hot water side | kPa | 34 | 45 | 38 | 48 | 60 | 41 | 44 | 53 | 55 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified
(2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Water exchanger to the total recovery side 40 °C/45 °C;
(4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 2-pipe system version E

| Size | | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling system side 2-pipe system (1) | | | | | | | | | |
| Cooling capacity | kW | 598,5 | 639,4 | 695,8 | 739,2 | 801,8 | 844,7 | 906,4 | 948,9 |
| Input power | kW | 195,9 | 214,0 | 230,3 | 252,1 | 269,0 | 291,1 | 308,1 | 330,4 |
| Cooling total input current | A | 315,0 | 344,0 | 375,0 | 413,0 | 444,0 | 482,0 | 512,0 | 551,0 |
| EER | W/W | 3,05 | 2,99 | 3,02 | 2,93 | 2,98 | 2,90 | 2,94 | 2,87 |
| Water flow rate system side | l/h | 102947 | 109954 | 119646 | 127107 | 137868 | 145260 | 155858 | 163168 |
| Pressure drop system side | kPa | 64 | 48 | 43 | 48 | 51 | 57 | 65 | 71 |
| Heating system side 2-pipe system (2) | | | | | | | | | |
| Heating capacity | kW | 618,5 | 661,8 | 714,3 | 763,4 | 816,0 | 864,2 | 922,4 | 970,1 |
| Input power | kW | 199,3 | 209,7 | 223,0 | 240,3 | 256,1 | 273,3 | 293,1 | 310,5 |
| Heating total input current | A | 320,0 | 338,0 | 363,0 | 395,0 | 424,0 | 456,0 | 490,0 | 521,0 |
| COP | W/W | 3,10 | 3,16 | 3,20 | 3,18 | 3,19 | 3,16 | 3,15 | 3,12 |
| Water flow rate system side | I/h | 107379 | 114913 | 124046 | 132574 | 141707 | 150072 | 160181 | 168462 |
| Pressure drop system side | kPa | 62 | 47 | 41 | 47 | 48 | 54 | 61 | 67 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | |
| Heating capacity | kW | 618,5 | 661,8 | 714,3 | 763,5 | 816,0 | 864,2 | 922,4 | 970,1 |
| Input power | kW | 199,5 | 209,9 | 223,1 | 240,6 | 256,5 | 273,8 | 292,8 | 310,3 |
| Heating total input current | A | 320,0 | 338,0 | 363,0 | 395,0 | 424,0 | 456,0 | 490,0 | 521,0 |
| COP | W/W | 3,10 | 3,15 | 3,20 | 3,17 | 3,18 | 3,16 | 3,15 | 3,13 |
| Water flow rate domestic hot water side | l/h | 107379 | 114913 | 124046 | 132574 | 141707 | 150072 | 160181 | 168462 |
| Pressure drop domestic hot water side | kPa | 66 | 50 | 43 | 52 | 55 | 63 | 55 | 63 |
| Simultaneous operation (heating + cooling), 2 pipes (4) | | | | | | | | | |
| Cooling capacity | kW | 630,2 | 679,9 | 737,0 | 788,9 | 858,6 | 911,1 | 967,3 | 1018,8 |
| Recovered heating power | kW | 810,9 | 871,0 | 946,0 | 1015,9 | 1099,3 | 1169,6 | 1244,0 | 1313,7 |
| Input power | kW | 194,7 | 204,7 | 223,3 | 243,1 | 258,1 | 277,8 | 297,4 | 317,5 |
| Water flow rate system side | l/h | 102947 | 109954 | 119646 | 127107 | 137868 | 145260 | 155858 | 163168 |
| Pressure drop system side | kPa | 64 | 48 | 43 | 48 | 51 | 57 | 65 | 71 |
| Water flow rate domestic hot water side | l/h | 107379 | 114913 | 124046 | 132574 | 141707 | 150072 | 160181 | 168462 |
| Pressure drop domestic hot water side | kPa | 66 | 50 | 43 | 52 | 55 | 63 | 55 | 63 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C; All units are Eurovent certified (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side 40 °C/45 °C; Water to the system side heat exchanger */7 °C; (4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 4-pipe system version A

| Size | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling system side 4-pipe system (1) | | | | | | | | | | |
| Cooling capacity | kW | 206,7 | 230,6 | 259,2 | 299,6 | 332,2 | 386,3 | 426,2 | 490,5 | 544,3 |
| Input power | kW | 69,4 | 76,3 | 86,1 | 99,5 | 116,2 | 128,1 | 146,7 | 165,5 | 189,8 |
| Cooling total input current | Α | 124,0 | 138,0 | 155,0 | 172,0 | 195,0 | 218,0 | 247,0 | 280,0 | 319,0 |
| EER | W/W | 2,98 | 3,02 | 3,01 | 3,01 | 2,86 | 3,02 | 2,91 | 2,96 | 2,87 |
| Water flow rate system side | l/h | 35565 | 39671 | 44593 | 51536 | 57151 | 66430 | 73295 | 84370 | 93611 |
| Pressure drop system side | kPa | 24 | 33 | 34 | 42 | 43 | 36 | 36 | 49 | 54 |
| Heating system side 4-pipe system (2) | | | | | | | | | | |
| Heating capacity | kW | 209,9 | 246,0 | 272,7 | 306,2 | 340,6 | 396,2 | 437,6 | 504,9 | 562,7 |
| Input power | kW | 66,9 | 79,8 | 85,6 | 95,7 | 108,3 | 125,4 | 137,0 | 159,8 | 180,9 |
| Heating total input current | Α | 120,0 | 143,0 | 154,0 | 166,0 | 183,0 | 214,0 | 233,0 | 272,0 | 306,0 |
| COP | W/W | 3,14 | 3,08 | 3,19 | 3,20 | 3,15 | 3,16 | 3,19 | 3,16 | 3,11 |
| Water flow rate system side | l/h | 36426 | 42701 | 47339 | 53155 | 59117 | 68781 | 75976 | 87653 | 97701 |
| Pressure drop system side | kPa | 34 | 47 | 39 | 49 | 61 | 42 | 44 | 53 | 55 |
| Simultaneous operation (heating + cooling), 4 pipes (3) | | | | | | | | | | |
| Cooling capacity | kW | 211,2 | 236,7 | 258,2 | 306,9 | 350,5 | 398,0 | 446,2 | 510,6 | 584,4 |
| Recovered heating power | kW | 270,3 | 304,4 | 331,0 | 392,1 | 448,5 | 510,5 | 570,1 | 653,9 | 749,6 |
| Input power | kW | 62,8 | 72,4 | 77,7 | 91,3 | 105,2 | 120,2 | 132,4 | 153,7 | 177,2 |
| Water flow rate cold side | l/h | 35565 | 39671 | 44593 | 51536 | 57151 | 66430 | 73295 | 84370 | 93611 |
| Pressure drop cold side | kPa | 24 | 33 | 34 | 42 | 43 | 36 | 36 | 49 | 54 |
| Water flow rate hot side | l/h | 36426 | 42701 | 47339 | 53155 | 59117 | 68781 | 75976 | 87653 | 97701 |
| Pressure drop hot side | kPa | 34 | 47 | 39 | 49 | 61 | 42 | 44 | 53 | 55 |

NRP - 4-pipe system version A

| Mili - 4- pipe system version A | | | | | | | | | |
|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Size | | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
| Cooling system side 4-pipe system (1) | | | | | | | | | |
| Cooling capacity | kW | 598,2 | 638,8 | 699,7 | 743,3 | 810,1 | 853,8 | 919,4 | 963,0 |
| Input power | kW | 202,0 | 220,3 | 235,7 | 257,3 | 273,7 | 295,4 | 312,1 | 333,7 |
| Cooling total input current | A | 341,0 | 371,0 | 403,0 | 441,0 | 474,0 | 511,0 | 544,0 | 582,0 |
| EER | W/W | 2,96 | 2,90 | 2,97 | 2,89 | 2,96 | 2,89 | 2,95 | 2,89 |
| Water flow rate system side | l/h | 102896 | 109845 | 120321 | 127822 | 139307 | 146824 | 158090 | 165596 |
| Pressure drop system side | kPa | 64 | 47 | 43 | 48 | 52 | 57 | 66 | 73 |
| Heating system side 4-pipe system (2) | | | | | | | | | |
| Heating capacity | kW | 618,7 | 660,8 | 723,7 | 772,6 | 829,5 | 888,9 | 940,2 | 988,2 |
| Input power | kW | 199,9 | 209,9 | 230,6 | 248,2 | 265,8 | 287,3 | 304,0 | 321,6 |
| Heating total input current | A | 337,0 | 356,0 | 395,0 | 427,0 | 462,0 | 489,0 | 533,0 | 565,0 |
| COP | W/W | 3,10 | 3,15 | 3,14 | 3,11 | 3,12 | 3,09 | 3,09 | 3,07 |
| Water flow rate system side | I/h | 107407 | 114743 | 125675 | 134158 | 144044 | 154357 | 163276 | 171605 |
| Pressure drop system side | kPa | 66 | 50 | 44 | 53 | 56 | 67 | 57 | 66 |
| Simultaneous operation (heating + cooling), 4 pipes (3) | | | | | | | | | |
| Cooling capacity | kW | 630,2 | 680,0 | 736,5 | 788,3 | 857,7 | 909,8 | 966,0 | 1019,1 |
| Recovered heating power | kW | 810,9 | 871,0 | 945,6 | 1015,4 | 1098,5 | 1168,6 | 1242,9 | 1313,5 |
| Input power | kW | 194,7 | 204,6 | 223,6 | 243,4 | 258,4 | 278,4 | 297,9 | 317,4 |
| Water flow rate cold side | l/h | 102896 | 109845 | 120321 | 127822 | 139307 | 146824 | 158090 | 165596 |
| Pressure drop cold side | kPa | 64 | 47 | 43 | 48 | 52 | 57 | 66 | 73 |
| Water flow rate hot side | l/h | 107407 | 114743 | 125675 | 134158 | 144044 | 154357 | 163276 | 171605 |
| Pressure drop hot side | kPa | 66 | 50 | 44 | 53 | 56 | 67 | 57 | 66 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C / 7 °C; External air 35 °C (2) Data 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C / 7 °C; External air 35 °C (2) Data 14511:2022; System side water heat exchanger 40 °C / 45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

783

NRP - 4-pipe system version E

| Size | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cooling system side 4-pipe system (1) | | | | | | | | | | |
| Cooling capacity | kW | 200,7 | 225,7 | 255,3 | 296,9 | 332,7 | 382,2 | 427,0 | 487,6 | 549,9 |
| Input power | kW | 66,0 | 73,4 | 83,2 | 96,4 | 113,0 | 125,6 | 139,1 | 159,0 | 182,6 |
| Cooling total input current | Α | 113,0 | 125,0 | 142,0 | 159,0 | 182,0 | 203,0 | 225,0 | 256,0 | 294,0 |
| EER | W/W | 3,04 | 3,07 | 3,07 | 3,08 | 2,94 | 3,04 | 3,07 | 3,07 | 3,01 |
| Water flow rate system side | l/h | 34534 | 38826 | 43915 | 51070 | 57226 | 65736 | 73434 | 83856 | 94585 |
| Pressure drop system side | kPa | 25 | 33 | 34 | 43 | 44 | 37 | 38 | 49 | 54 |
| Heating system side 4-pipe system (2) | | | | | | | | | | |
| Heating capacity | kW | 207,3 | 240,7 | 262,4 | 300,7 | 338,5 | 389,4 | 436,8 | 503,3 | 567,3 |
| Input power | kW | 64,0 | 74,8 | 80,5 | 92,8 | 105,4 | 120,8 | 134,6 | 155,7 | 181,9 |
| Heating total input current | Α | 109,0 | 126,0 | 136,0 | 153,0 | 170,0 | 195,0 | 217,0 | 250,0 | 293,0 |
| COP | W/W | 3,24 | 3,22 | 3,26 | 3,24 | 3,21 | 3,22 | 3,24 | 3,23 | 3,12 |
| Water flow rate system side | l/h | 35981 | 41776 | 45554 | 52195 | 58753 | 67603 | 75830 | 87384 | 98488 |
| Pressure drop system side | kPa | 34 | 45 | 38 | 48 | 60 | 41 | 44 | 53 | 55 |
| Simultaneous operation (heating + cooling), 4 pipes (3) | | | | | | | | | | |
| Cooling capacity | kW | 211,0 | 236,8 | 258,3 | 306,6 | 350,0 | 397,8 | 445,0 | 509,9 | 583,9 |
| Recovered heating power | kW | 270,0 | 304,5 | 331,0 | 391,9 | 448,2 | 510,5 | 569,2 | 653,4 | 749,1 |
| Input power | kW | 62,8 | 72,3 | 77,6 | 91,4 | 105,3 | 120,3 | 132,7 | 153,9 | 177,3 |
| Water flow rate cold side | l/h | 34534 | 38826 | 43915 | 51070 | 57226 | 65736 | 73434 | 83856 | 94585 |
| Pressure drop cold side | kPa | 25 | 33 | 34 | 43 | 44 | 37 | 38 | 49 | 54 |
| Water flow rate hot side | l/h | 35981 | 41776 | 45554 | 52195 | 58753 | 67603 | 75830 | 87384 | 98488 |
| Pressure drop hot side | kPa | 34 | 45 | 38 | 48 | 60 | 41 | 44 | 53 | 55 |

(1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C (2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b. (3) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NRP - 4-pipe system version E

| Size | | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling system side 4-pipe system (1) | | | | | | | | | |
| Cooling capacity | kW | 598,5 | 639,4 | 695,8 | 739,2 | 801,8 | 844,7 | 906,4 | 948,9 |
| Input power | kW | 195,9 | 214,0 | 230,3 | 252,1 | 269,0 | 291,1 | 308,1 | 330,4 |
| Cooling total input current | A | 315,0 | 344,0 | 375,0 | 413,0 | 444,0 | 482,0 | 512,0 | 551,0 |
| EER | W/W | 3,05 | 2,99 | 3,02 | 2,93 | 2,98 | 2,90 | 2,94 | 2,87 |
| Water flow rate system side | l/h | 102947 | 109954 | 119646 | 127107 | 137868 | 145260 | 155858 | 163168 |
| Pressure drop system side | kPa | 64 | 48 | 43 | 48 | 51 | 57 | 65 | 71 |
| Heating system side 4-pipe system (2) | | | | | | | | | |
| Heating capacity | kW | 618,5 | 661,8 | 714,3 | 763,5 | 816,0 | 864,2 | 922,4 | 970,1 |
| Input power | kW | 199,5 | 209,9 | 223,1 | 240,6 | 256,5 | 273,8 | 292,8 | 310,3 |
| Heating total input current | A | 320,0 | 338,0 | 363,0 | 395,0 | 424,0 | 456,0 | 490,0 | 521,0 |
| COP | W/W | 3,10 | 3,15 | 3,20 | 3,17 | 3,18 | 3,16 | 3,15 | 3,13 |
| Water flow rate system side | I/h | 107379 | 114913 | 124046 | 132574 | 141707 | 150072 | 160181 | 168462 |
| Pressure drop system side | kPa | 66 | 50 | 43 | 52 | 55 | 63 | 55 | 63 |
| Simultaneous operation (heating + cooling), 4 pipes (3) | | | | | | | | | |
| Cooling capacity | kW | 630,2 | 679,9 | 737,0 | 788,9 | 858,6 | 911,1 | 967,3 | 1018,8 |
| Recovered heating power | kW | 810,9 | 871,0 | 946,0 | 1015,9 | 1099,3 | 1169,6 | 1244,0 | 1313,7 |
| Input power | kW | 194,7 | 204,7 | 223,3 | 243,1 | 258,1 | 277,8 | 297,4 | 317,5 |
| Water flow rate cold side | l/h | 102947 | 109954 | 119646 | 127107 | 137868 | 145260 | 155858 | 163168 |
| Pressure drop cold side | kPa | 64 | 48 | 43 | 48 | 51 | 57 | 65 | 71 |
| Water flow rate hot side | l/h | 107379 | 114913 | 124046 | 132574 | 141707 | 150072 | 160181 | 168462 |
| Pressure drop hot side | kPa | 66 | 50 | 43 | 52 | 55 | 63 | 55 | 63 |

(1) Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

ENERGY DATA

| C' | | | 0004 | 2004 | 1004 | 1104 | 1204 | 1414 | 1604 | 1007 | 2007 |
|---|---|--|--|--|--|---|--|--|--|--|--|
| Size Fans: ° | | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
| Cooling capacity with low leaving wa | ator town (IIE n° 2) | 016/2291\ | | | | | | | | | |
| cooling capacity with low leaving we | A A | W/W | 3,94 | 4,04 | 4,00 | 3,89 | 4,03 | 4,14 | 4,21 | 4,23 | 4,24 |
| SEER | E | W/W | 4,22 | 4,30 | 4,21 | 4,08 | 4,12 | 4,25 | 4,24 | 4,28 | 4,27 |
| | A | % | 154,60 | 158,50 | 156,90 | 152,80 | 158,20 | 162,50 | 165,50 | 166,00 | 166,60 |
| ηςς | E | % | 166,00 | 169,00 | 165,40 | 160,10 | 161,70 | 167,00 | 166,80 | 168,20 | 167,80 |
| UE 813/2013 performance in average | | | | | 103/10 | .00,.0 | ,. | 107,00 | 100,00 | 100,20 | 107,00 |
| | A | kW | 188,98 | 221,78 | 246,64 | 276,68 | 309,44 | 358,27 | 395,99 | - | - |
| Pdesignh | E | kW | 184,95 | 215,78 | 235,92 | 269,81 | 305,13 | 350,22 | 391,37 | - | - |
| CCOD | A | W/W | 3,53 | 3,27 | 3,44 | 3,49 | 3,60 | 3,53 | 3,66 | - | - |
| SCOP | E | W/W | 3,71 | 3,59 | 3,69 | 3,70 | 3,82 | 3,70 | 3,75 | - | - |
| l | A | % | 138,30 | 127,70 | 134,50 | 136,70 | 140,90 | 138,40 | 143,60 | - | - |
| ηsh | E | % | 145,50 | 140,60 | 144,70 | 144,90 | 149,70 | 145,20 | 147,20 | - | - |
| Fans: J | | | | | | | | | | | |
| Cooling capacity with low leaving wa | ater temp (UE n° 20 | 016/2281) | | | | | | | | | |
| SEER | A | W/W | 4,25 | 4,36 | 4,32 | 4,21 | 4,35 | 4,47 | 4,55 | 4,56 | 4,58 |
| JEEN | E | W/W | 4,56 | 4,64 | 4,55 | 4,40 | 4,45 | 4,59 | 4,58 | 4,62 | 4,61 |
| ηςς | A | % | 167,20 | 171,40 | 169,70 | 165,20 | 171,10 | 175,80 | 179,00 | 179,50 | 180,10 |
| прс | E | % | 179,50 | 182,80 | 178,80 | 173,10 | 174,90 | 180,60 | 180,30 | 181,80 | 181,50 |
| UE 813/2013 performance in average | e ambient conditio | ons (average) - 3 | 5 °C - Pdesignh ≤ | ≤ 400 kW (1) | | | | | | | |
| Pdesignh | A | kW | 188,98 | 221,78 | 246,64 | 276,68 | 309,44 | 358,27 | 395,99 | - | - |
| | E | kW | 184,95 | 215,78 | 235,92 | 269,81 | 305,13 | 350,22 | 391,37 | - | - |
| SCOP | A | W/W | 3,53 | 3,27 | 3,44 | 3,49 | 3,60 | 3,53 | 3,66 | - | - |
| | E | W/W | 3,71 | 3,59 | 3,69 | 3,70 | 3,82 | 3,70 | 3,75 | - | - |
| ηsh | A | % | 138,30 | 127,70 | 134,50 | 136,70 | 140,90 | 138,40 | 143,60 | - | - |
| | E | % | 145,50 | 140,60 | 144,70 | 144,90 | 149,70 | 145,20 | 147,20 | - | - |
| (1) Efficiencies for low temperature app | lications (35 °C) | | | | | | | | | | |
| ,e.c.acs to low temperature upp | incations (55°C) | | | | | | | | | | |
| Size | incations (33°C) | | 2206 | 2406 | 2606 | 280 | 6 | 3006 | 3206 | 3406 | 3606 |
| 1 11 | incutions (55° C) | | 2206 | 2406 | 2606 | 280 | 6 | 3006 | 3206 | 3406 | 3606 |
| Size | . , | 016/2281) | 2206 | 2406 | 2606 | 280 | 6 | 3006 | 3206 | 3406 | 3606 |
| Size Fans: ° Cooling capacity with low leaving wa | . , | W/W | 2206 4,24 | 2406 4,25 | 2606 4,24 | 4,2 | | 3006 4,24 | 3206 4,22 | 4,22 | 3606 4,23 |
| Size Fans: ° | ater temp (UE n° 20 | | | | | | 2 | | | | |
| Size Fans: ° Cooling capacity with low leaving was SEER | ater temp (UE n° 20 A E A | W/W W/W % | 4,24 4,28 166,60 | 4,25 4,28 166,80 | 4,24 4,27 166,80 | 4,2 4,2 165, | 2 4 70 | 4,24 4,27 166,80 | 4,22 4,27 165,90 | 4,22 4,27 165,90 | 4,23 4,23 166,00 |
| Size Fans: ° Cooling capacity with low leaving was SEER | ater temp (UE n° 20 A E | W/W W/W | 4,24 4,28 | 4,25 4,28 | 4,24 4,27 | 4,2 4,2 | 2 4 70 | 4,24 4,27 | 4,22 4,27 | 4,22 4,27 | 4,23 4,23 |
| Size Fans: ° Cooling capacity with low leaving was SEER psc Fans: J | ater temp (UE n° 20 A E A E | W/W W/W % | 4,24 4,28 166,60 | 4,25 4,28 166,80 | 4,24 4,27 166,80 | 4,2 4,2 165, | 2 4 70 | 4,24 4,27 166,80 | 4,22 4,27 165,90 | 4,22 4,27 165,90 | 4,23 4,23 166,00 |
| Size Fans: ° Cooling capacity with low leaving was SEER | ater temp (UE n° 20 A E A E | W/W W/W % % | 4,24 4,28 166,60 168,20 | 4,25 4,28 166,80 168,00 | 4,24 4,27 166,80 167,90 | 4,2 4,2 165, 166, | 2 4 70 60 | 4,24 4,27 166,80 167,70 | 4,22 4,27 165,90 167,90 | 4,22 4,27 165,90 168,00 | 4,23 4,23 166,00 166,30 |
| Size Fans: ° Cooling capacity with low leaving was SEER | A E A E A E A A E A A E A A E A A E A A E A A E A A E A A E A A E A | W/W W/W % % 016/2281) W/W | 4,24 4,28 166,60 168,20 | 4,25 4,28 166,80 168,00 | 4,24 4,27 166,80 167,90 | 4,2 4,2 165, 166, | 2 4 70 60 | 4,24 4,27 166,80 167,70 | 4,22 4,27 165,90 167,90 | 4,22 4,27 165,90 168,00 | 4,23 4,23 166,00 166,30 |
| Size Fans: ° Cooling capacity with low leaving was SEER psc Fans: J | A E A E A E A E A E A E A E A E A E A E | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 | 4,25 4,28 166,80 168,00 4,59 4,62 | 4,24 4,27 166,80 167,90 4,58 4,62 | 4,2 4,2 165, 166, 4,5 4,5 | 2 4 770 660 | 4,24 4,27 166,80 167,70 4,58 4,61 | 4,22 4,27 165,90 167,90 4,56 4,62 | 4,22 4,27 165,90 168,00 4,56 4,62 | 4,23 4,23 166,00 166,30 4,56 4,57 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\$F\$ \$\$F\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$ | Ater temp (UE n° 20 A E A E A E A E A E A E A A A A A A A | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 | 4,2 4,2 165, 166, 4,5 4,5 179, | 2 4 4 770 660 6 6 8 8 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 |
| Size Fans: ° Cooling capacity with low leaving was SEER | A E A E A E A E A E A E A E A E A E A E | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 | 4,25 4,28 166,80 168,00 4,59 4,62 | 4,24 4,27 166,80 167,90 4,58 4,62 | 4,2 4,2 165, 166, 4,5 4,5 | 2 4 4 770 660 6 6 8 8 | 4,24 4,27 166,80 167,70 4,58 4,61 | 4,22 4,27 165,90 167,90 4,56 4,62 | 4,22 4,27 165,90 168,00 4,56 4,62 | 4,23 4,23 166,00 166,30 4,56 4,57 |
| Size Fans: ° Cooling capacity with low leaving was SEER | Ater temp (UE n° 20 A E A E A E A E A E A E A A A A A A A | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 | 4,2 4,2 165, 166, 4,5 4,5 179, | 2 4 4 770 660 6 6 8 8 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\$F\$ \$\$F\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$T\$ \$\$ | Ater temp (UE n° 20 A E A E A E A E A E A E A A A A A A A | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 | 4,2 4,2 165, 166, 4,5 4,5 179, | 2 4 4 770 660 6 6 8 8 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 |
| Size Fans: ° Cooling capacity with low leaving was SEER | Ater temp (UE n° 20 A E A E A E A E A E A E A A A A A A A | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 | 4,2 4,2 165, 166, 4,5 4,5 179, | 2 4 4 770 660 6 6 8 8 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 |
| Size Fans: ° Cooling capacity with low leaving was SEER psc Fans: J Cooling capacity with low leaving was SEER psc ELECTRIC DATA | Ater temp (UE n° 20 A E A E A E A E A E A E A A A A A A A | W/W W/W % % 016/2281) W/W W/W | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 | 4,2 4,2 165, 166, 4,5 4,5 179, 180, | 2 4 4 770 660 6 6 8 8 220 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{\$\text{SEER}\$} \$\$ \$\$ \$\$ ELECTRIC DATA \$\$ Size Electric data | Ater temp (UE n° 20 A E A E A E A E A E A E A E A E A E A | W/W W/W % % 016/2281) W/W W/W % A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 | 4,2 4,2 165, 166, 166, 4,5 4,5 179, 180, | 2 4 4 770 660 660 6 8 8 220 220 1204 261,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 |
| Size Fans: ° Cooling capacity with low leaving was SEER | ater temp (UE n° 2) A E A E A E ater temp (UE n° 2) A E A E A E | W/W W/W % % 016/2281) W/W W/W % A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 | 4,2 4,2 165, 166, 4,5 4,5 179, 180, | 2 4 4 770 660 660 6 8 8 220 220 1204 261,0 269,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{\$\text{SEER}\$} \$\$ \$\$ \$\$ ELECTRIC DATA \$\$ Size Electric data Maximum current (FLA) | ater temp (UE n° 2) A E A E A E A E A E A E A E A E A E A | W/W W/W % % 016/2281) W/W W/W % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 | 4,2 4,2 165, 166, 166, 4,5 4,5 179, 180, 1104 | 2 4 4 770 660 660 66 8 8 220 220 261,0 269,0 513,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{\$\text{SEER}\$} \$\$ \$\$ \$\$ ELECTRIC DATA \$\$ Size Electric data | ater temp (UE n° 2) A E A E A E ater temp (UE n° 2) A E A E A E | W/W W/W % % 016/2281) W/W W/W % A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 | 4,2 4,2 165, 166, 4,5 4,5 179, 180, | 2 4 4 770 660 660 6 8 8 220 220 1204 261,0 269,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{\$\text{SEER}\$} \$\$ \$\$ \$\$ ELECTRIC DATA \$\$ Size Electric data Maximum current (FLA) | ater temp (UE n° 2) A E A E A E A E A E A E A E A E A E A | W/W W/W % % 016/2281) W/W W/W % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 | 4,2 4,2 165, 166, 166, 4,5 4,5 179, 180, 1104 | 2 4 4 770 660 66 8 8 220 220 261,0 269,0 513,0 521,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 |
| Size Fans: ° Cooling capacity with low leaving was SEER psc Fans: J Cooling capacity with low leaving was SEER psc ELECTRIC DATA Size Electric data Maximum current (FLA) Peak current (LRA) | ater temp (UE n° 2) A E A E A E A E A E A E A E A E A E A | W/W W/W % % 016/2281) W/W W/W % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 | 4,2,2 4,2,2 165, 166,0 4,5,1 179, 180, 1104 233,0 241,0 485,0 493,0 | 2 4 4 770 660 66 8 8 220 220 261,0 269,0 513,0 521,0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 644,0 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 337,0 352,0 670,0 685,0 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 386,0 401,0 638,0 653,0 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 427,0 442,0 679,0 694,0 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{SEER} \$\text{SEER} \$\text{SEER} \$\text{Pans: J} Cooling capacity with low leaving was SEER \$\text{SEER} \$\text{Size} \$\text{Electric data} \$\text{Maximum current (FLA)} \$\text{Peak current (LRA)} \$\text{Size} \$\text{Electric data} | ater temp (UE n° 2) A E A E A E A E A E A E A E A E A E A | W/W W/W % % 016/2281) W/W W/W % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 | 4,2,2 4,2,2 165, 166,0 4,5,1 179, 180, 1104 233,0 241,0 485,0 493,0 | 22 4 4 770 660 66 8 8 220 220 261,0 269,0 513,0 521,0 66 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 644,0 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 337,0 352,0 670,0 685,0 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 386,0 401,0 638,0 653,0 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 427,0 442,0 679,0 694,0 |
| Size Fans: ° Cooling capacity with low leaving was SEER | A E A E A E A E A E A E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E A E E E A E E E E A E | W/W W/W % % 016/2281) W/W W/W % % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 163,0 170,0 368,0 376,0 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 188,0 196,0 431,0 439,0 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 205,0 213,0 449,0 456,0 | 4,2 4,2 165, 166, 166, 4,5 179, 180, 1104 233,0 241,0 485,0 493,0 | 2 4 4 770 660 66 8 8 220 220 261,0 269,0 513,0 521,0 6 6 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 644,0 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 337,0 352,0 670,0 685,0 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 386,0 401,0 638,0 653,0 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 427,0 442,0 679,0 694,0 3606 |
| Size Fans: ° Cooling capacity with low leaving was SEER \$\text{Fans: J} Cooling capacity with low leaving was SEER \$\text{SEER} \$\text{SEER} \$\text{SEER} \$\text{Pans: J} Cooling capacity with low leaving was SEER \$\text{SEER} \$\text{Size} \$\text{Electric data} \$\text{Maximum current (FLA)} \$\text{Peak current (LRA)} \$\text{Size} \$\text{Electric data} | A E A E A E A A E A A E A A E A A E A A E A A E A A E A A E A A E A A A E A A A E A A A E A | W/W W/W % % 016/2281) W/W W/W % A A A | 4,24 4,28 166,60 168,20 4,58 4,62 180,20 181,90 0804 163,0 170,0 368,0 376,0 2206 | 4,25 4,28 166,80 168,00 4,59 4,62 180,40 181,70 0904 188,0 196,0 431,0 439,0 2406 | 4,24 4,27 166,80 167,90 4,58 4,62 180,40 181,60 1004 205,0 213,0 449,0 456,0 2606 | 4,2 4,2 165, 166, 166, 4,5 179, 180, 1104 233,0 241,0 485,0 493,0 | 2 4 4 770 660 66 8 8 220 220 1204 261,0 269,0 513,0 521,0 66 0.0 0 | 4,24 4,27 166,80 167,70 4,58 4,61 180,40 181,30 1414 303,0 311,0 636,0 644,0 3006 | 4,22 4,27 165,90 167,90 4,56 4,62 179,40 181,60 1604 337,0 352,0 670,0 685,0 3206 | 4,22 4,27 165,90 168,00 4,56 4,62 179,40 181,70 1805 386,0 401,0 638,0 653,0 3406 | 4,23 4,23 166,00 166,30 4,56 4,57 179,60 179,80 2006 427,0 442,0 679,0 694,0 3606 |

GENERAL TECHNICAL DATA

| Size | | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|--------------------------------------|----------------------|--------------|-------|--------|--------|--------|----------------|--------|--------|--------|--------|
| Compressor | | | | | | | | | | | |
| Туре | A,E | type | | | | | Scroll | | | | |
| Number | A,E | no. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 |
| Circuits | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | | R410A | | | | |
| Potential global heating | A,E | GWP | | | | | 2088kgCO₂eq | | | | |
| Refrigerant charge (1) | A | kg | 41,1 | 61,0 | 61,4 | 62,7 | 62,8 | 83,6 | 83,6 | 106,1 | 107,6 |
| nemyerani charge (1) | E | kg | 61,0 | 80,8 | 81,2 | 82,9 | 83,0 | 103,9 | 124,1 | 147,2 | 149,3 |
| 2-pipe system - System side heat ex | changer (hot/cold) | | | | | | | | | | |
| Туре | A,E | type | | | | | Brazed plate | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,E | Туре | | | | | Grooved joints | | | | |
| Size (in) | A,E | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" |
| Size (out) | A,E | Ø | 3″ | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" |
| 2-pipe system - Recovery side heat o | exchanger (domesti | c hot water) | | | | | | | | | |
| Туре | A,E | type | | | | | Brazed plate | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Manifold connection (in/out) | A,E | Туре | | | | | G.s. | | | | |
| Manifold diameter (in) | A,E | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" |
| Manifold diameter (out) | A,E | Ø | 3" | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" |
| 4-pipe system - System side heat ex | changer (cold side) | | | | | | | | | | |
| Туре | A,E | type | | | | | Brazed plate | | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,E | Туре | | | | | Grooved joints | | | | |
| Size (in) | A,E | Ø | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" |
| Size (out) | A,E | Ø | 3" | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" |
| 4-pipe system - Recovery side heat e | exchanger (hot side) |) | | | | | | | | | |
| Туре | A,E | type | | | | | Brazed plate | | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Manifold connection (in/out) | A,E | Туре | | | | | Grooved joints | | | | |
| Manifold diameter (in) | A,E | Ø | 3" | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" |
| Manifold diameter (out) | A,E | Ø | 3" | 3" | 3" | 3" | 3″ | 4" | 4" | 4" | 4" |
| Fan | | | | | | | | | | | |
| Туре | A,E | type | | | | | Axial | | | | |
| Fan motor | A,E | type | | | | | On-Off | | | | |
| Number | A | no. | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 10 | 10 |
| Number | E | no. | 6 | 8 | 8 | 8 | 8 | 10 | 12 | 14 | 14 |
| Air flau rata | A | m³/h | 80000 | 120000 | 120000 | 120000 | 120000 | 160000 | 160000 | 200000 | 200000 |
| Air flow rate | E | m³/h | 80000 | 110000 | 110000 | 110000 | 110000 | 130000 | 160000 | 180000 | 180000 |
| Sound data calculated in cooling mo | ode (2) | | | | | | | | | | |
| Cannad a annau lanual | А | dB(A) | 89,5 | 91,6 | 91,6 | 91,6 | 91,6 | 93,1 | 93,1 | 94,2 | 94,2 |
| Sound power level | E | dB(A) | 84,6 | 86,1 | 86,1 | 86,1 | 86,1 | 87,2 | 88,2 | 89,4 | 89,9 |

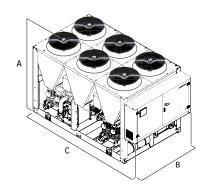
⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | | 2206 | 2406 | 2606 | 2806 | 3006 | 3206 | 3406 | 3606 |
|--------------------------------------|---------------------|------------|--------|--------|--------|--------|----------|--------|--------|--------|
| Compressor | | | | | | | | | | |
| Туре | A,E | type | | | | Sc | roll | | | |
| Number | A,E | no. | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Circuits | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E | type | | | | R4 | 10A | | | |
| Potential global heating | A,E | GWP | | | | 2088k | gCO₂eq | | | |
| Defricement change (1) | A | kg | 129,2 | 129,2 | 156,9 | 161,5 | 184,8 | 184,8 | 207,7 | 207,7 |
| Refrigerant charge (1) | E | kg | 170,9 | 170,9 | 199,9 | 205,8 | 229,0 | 229,0 | 252,0 | 252,0 |
| 2-pipe system - System side heat exc | hanger (hot/cold) | | | | | | | | | |
| Туре | A,E | type | | | | Braze | d plate | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,E | Туре | | | | Groove | d joints | | | |
| Size (in) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Size (out) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| 2-pipe system - Recovery side heat e | xchanger (domestic | hot water) | | | | | | | | |
| Туре | A,E | type | | | | Braze | d plate | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Manifold connection (in/out) | A,E | Туре | | | | G | .S. | | | |
| Manifold diameter (in) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Manifold diameter (out) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| 4-pipe system - System side heat exc | hanger (cold side) | | | | | | | | | |
| Туре | A,E | type | | | | Braze | d plate | | | |
| Number | A,E | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connections (in/out) | A,E | Туре | | | | Groove | d joints | | | |
| Size (in) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Size (out) | A,E | Ø | 4" | 5" | 5" | 5" | 5″ | 5" | 5" | 5" |
| 4-pipe system - Recovery side heat e | xchanger (hot side) | | | | | | | | | |
| Туре | A,E | type | | | | Braze | d plate | | | |
| Number | A,E | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Manifold connection (in/out) | A,E | Туре | | | | Groove | d joints | | | |
| Manifold diameter (in) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Manifold diameter (out) | A,E | Ø | 4" | 5" | 5" | 5" | 5" | 5" | 5" | 5" |
| Fan | | | | | | | | | | |
| Туре | A,E | type | | | | A | rial | | | |
| Fan motor | A,E | type | | | | On- | -Off | | | |
| Mumbar | A | no. | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 |
| Number | E | no. | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 |
| A: | A | m³/h | 240000 | 240000 | 280000 | 280000 | 320000 | 320000 | 350000 | 350000 |
| Air flow rate | E | m³/h | 210000 | 210000 | 230000 | 230000 | 260000 | 260000 | 280000 | 280000 |
| Sound data calculated in cooling mo | de (2) | | | | | | | | | |
| - | A | dB(A) | 95,1 | 95,1 | 95,9 | 95,9 | 96,6 | 96,6 | 97,2 | 97,2 |
| Sound power level | E | dB(A) | 91,1 | 91,6 | 92,2 | 92,2 | 92,7 | 92,7 | 93,2 | 93,2 |

G.s. = Grooved joints

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
|------------------------|-----|----|------|------|-------|------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| r | A | mm | 2780 | 3970 | 3970 | 3970 | 3970 | 4760 | 4760 | 5950 | 6350 |
| | E | mm | 3970 | 4760 | 4760 | 4760 | 4760 | 5950 | 7140 | 8330 | 8330 |
| Size | | | 2206 | 2406 | 2606 | | 2806 | 3006 | 3206 | 3406 | 3606 |
| Dimensions and weights | | | | | | | | | | | |
| A | A,E | mm | 2450 | 2450 | 2450 | | 2450 | 2450 | 2450 | 2450 | 2450 |
| В | A,E | mm | 2200 | 2200 | 2200 | | 2200 | 2200 | 2200 | 2200 | 2200 |
| r | A | mm | 7140 | 7140 | 8330 | | 8330 | 9520 | 9520 | 10710 | 10710 |
| | E | mm | 9520 | 9520 | 10710 | | 10710 | 11900 | 11900 | 13090 | 13090 |
| Size | | | 0804 | 0904 | 1004 | 1104 | 1204 | 1414 | 1604 | 1805 | 2006 |
| System type: 2 | | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Emptyweight | A | kg | 2642 | 3152 | 3262 | 3452 | 3722 | 4409 | 4569 | 5419 | 5829 |
| Empty weight | E | kg | 3072 | 3712 | 3822 | 4012 | 4282 | 4879 | 5449 | 6359 | 6789 |
| System type: 4 | | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Empty weight | A | kg | 2632 | 3132 | 3252 | 3442 | 3692 | 4379 | 4539 | 5389 | 5799 |
| | E | kg | 3052 | 3692 | 3812 | 4002 | 4252 | 4849 | 5419 | 6319 | 6759 |
| Size | | | 2206 | 2406 | 2606 | | 2806 | 3006 | 3206 | 3406 | 3606 |
| System type: 2 | | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Emptyweight | A | kg | 6479 | 6756 | 7436 | | 7566 | 8356 | 8426 | 9076 | 9156 |
| Empty weight | E | kg | 7469 | 7736 | 8356 | | 8486 | 9186 | 9256 | 9916 | 9996 |
| System type: 4 | | | | | | | | | | | |
| Weights | | | | | | | | | | | |
| Empty weight | A | kg | 6449 | 6716 | 7376 | | 7506 | 8296 | 8366 | 8976 | 9056 |
| Linpty weight | E | kg | 7429 | 7706 | 8296 | | 8426 | 9116 | 9196 | 9816 | 9896 |

[■] The weights are for standard units with plate heat exchangers and no hydronic kit.

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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CPS

Multifunction unit with multiple temperature level capability

Cooling capacity 164 ÷ 491 kW Heating capacity 176 ÷ 505 kW



- Multipurpose 6 pipes plug and play system
- Simultaneous and independent production of chilled water, medium temperature hot water and high temperature hot water (also suitable for domestic use)
- Uses heat recovery for simultaneous cooling and heating



DESCRIPTION

The multi-purpose 6-pipe units CPS are designed for residential buildings and accommodation facilities that require the simultaneous availability of heating and cooling for the rooms, along with high-temperature water (up to 73°C on the machine outlet) for heating needs and/ or DHW production.

Each single service (cooling, medium-temperature heating, high-temperature hot water) can be supplied independently of the request for the others.

The versatile functions, extended operating limits and simplified installation of these units mean that they can also be used in a variety of different industrial processes.

CPS the ideal solution for both new installations and upgrading existing systems.

FEATURES

Operating field

Possibility to produce water up to 73°C, using mainly free-heating for cooling requests.

2 dual circuit units

Created by combining and optimising, in a single system, an NRP series 4-pipe multifunction air-water unit (with scroll compressors and R410A refrigerant) for the production of chilled water and medium temperature hot water on the heating/cooling circuit side, and a WWB series water-water heat pump (with scroll compressors and R134a refrigerant) for the production of domestic hot water (DHW).

Constructional characteristics of unit

CPS units can be installed and operated even in locations with limit space, offering significant time savings in terms of both system planning and installation, while tried-and-tested, optimised management logic makes it possible to create plug-and-play systems with superior reliability and efficiency.

These units consist of:

4 cooling circuits

— 2 circuits (C1/C2) with R410A gas

— 2 circuits (C2/C3) with R134a gas

3 plate heat exchanger

- 1 Plate heat exchanger for chilled water
- 1 Plate heat exchanger for medium temperature hot water
- 1 Inspectable stainless steel plate heat exchanger for high temperature hot water production (DHW)

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Option integrated hydronic kit

To create a solution which offers both cost savings and facilitated installation, these units may be configured with an integrated hydronic kit on the chilled water utility side. A hydronic kit must always be used, however, on the medium temperature water side.

These kits include all the main plumbing components necessary, and are available in a variety of configurations with either a single pump or with a backup pump to offer a choice of different total head values.

Flow switches must be installed on both the cold and medium temperature water utility circuits to protect the heat exchangers. Failure to do so will render the warranty null and void.

CONTROL PCO⁵

Microprocessor adjustment, with 7", touch screen keyboard, which allows to navigate intuitively among the various screens, allowing to modify the operating parameters and graphically view the progress of some variables in real time and the ad adjustment includes complete management of the alarms and their log.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

- Floating HP control: Allows, with continuous fan modulation, to optimize the operation of the unit in any operating point, ensuring an increase in the energy efficiency at partial load. **ESEER up to** +7% with inverter fans
- **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

Field

Description Pump C

CONFIGURATOR

| Idonation |
|---|
| Description |
| CPS |
| Size 0704, 1004, 1805 |
| Coils |
| Copper-aluminium |
| Copper pipes-copper fins |
| Copper pipes-Tinned copper fins |
| Copper pieps-Coated aluminium fins |
| Fans |
| Asynchronous + DCPX |
| Inverter |
| Power supply |
| 400V ~ 3 50Hz with magnet circuit breakers |
| 400V ~ 3 50Hz with soft-start |
| Hydronic kit integrated on chilled water utility side |
| Without hydronic kit |
| Pump A + stand-by pump |
| Pump B + stand-by pump |
| Pump C + stand-by pump |
| Pump D + stand-by pump |
| Pump E + stand-by pump |
| Pump F + stand-by pump |
| Pump G + stand-by pump |
| Pump H + stand-by pump |
| Pump I + stand-by pump |
| Pump A |
| Pump B |
| |

| | rumpe |
|-------|--|
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| 13,14 | Hydronic kit integrated on medium temperature water utility side |
| RA | Pump A |
| RB | Pump B |
| RC | Pump C |
| RD | Pump D |
| RE | Pump E |
| RF | Pump F |
| RG | Pump G |
| RH | Pump H |
| RI | Pump I |
| SA | Pump A + stand-by pump |
| SB | Pump B + stand-by pump |
| SC | Pump C + stand-by pump |
| SD | Pump D + stand-by pump |
| SE | Pump E + stand-by pump |
| SF | Pump F + stand-by pump |
| SG | Pump G + stand-by pump |
| SH | Pump H + stand-by pump |
| SI | Pump I + stand-by pump |

COMPATIBILITY BETWEEN DIFFERENT HYDRONIC KITS

These kits include all the main plumbing components necessary, and are available in a variety of configurations with either a single pump or with a backup pump to offer a choice of different total head values.

The following table illustrates the compatibility between different unit sizes and the hydronic kits.

All units must be configured with the medium temperature water side hydronic kit.

| | PA-DA PB-DB | PA-DA PB-DB | | |
|----------------------------|----------------|----------------|-------|-------|
| | PB-DB | DD DD | | |
| | | אס-סק | | |
| | PC-DC | PC-DC | PC-DC | |
| | PD-DD | PD-DD | PD-DD | |
| Pumps - COLD WATER side | PE-DE | PE-DE | PE-DE | PE-DE |
| COLD WILLIAM | PF-DF | | PF-DF | PF-DF |
| | PG-DG | | | PG-DG |
| | PH-DH | | | PH-DH |
| | PI-DI | | | PI-DI |

| | | CPS0704 | CPS1004 | CPS1805 |
|---|-------|---------|---------|---------|
| Pumps - HOT WATER (AVERAGE TEMPERATURE) side | RA-SA | RA-SA | | |
| | RB-SB | RB-SB | | |
| | RC-SC | RC-SC | RC-SC | |
| | RD-SD | RD-SD | RD-SD | |
| | RE-SE | | RE-SE | RE-SE |
| | RF-SF | | RF-SF | RF-SF |
| | RG-SG | | | RG-SG |
| | RH-SH | | | RH-SH |
| | RI-SI | | | RI-SI |

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PERFORMANCE SPECIFICATIONS

| | | CPS0704°°°00RA | CPS1004°°°00RC | CPS1805°°°00RE |
|--|--|--|--|---|
| Household system side cooling (1) | | | | |
| Cooling capacity | kW | 163,9 | 259,2 | 490,5 |
| Input power | kW | 53,2 | 86,3 | 165,7 |
| Cooling total input current | A | 97,0 | 128,0 | 239,0 |
| EER | W/W | 3,08 | 3,00 | 2,96 |
| Water flow rate system side | I/h | 28212 | 44593 | 84370 |
| Pressure drop system side | kPa | 32 | 34 | 49 |
| Medium temperature system heating (2) | Ni u | 32 | 31 | |
| Heating capacity | kW | 175,2 | 271,8 | 503,5 |
| Input power | kW | 55,8 | 86,5 | 161,7 |
| Heating total input current | A | 104,0 | 136,0 | 250,0 |
| COP | W/W | | 3,14 | 3,11 |
| | I/h | 3,14 | | |
| Water flow rate system side | | 30521 | 47339 | 87653 |
| Useful head system side | kPa (2) | 99,0 | 120,0 | 113,0 |
| High temperature system side heating (DHW) (| | 00.7 | 477.4 | 254.0 |
| Heating capacity (DHW) | kW | 90,7 | 177,4 | 251,9 |
| Input power | kW | 48,4 | 85,3 | 144,3 |
| Heating total input current | A | 88,0 | 134,0 | 211,0 |
| COP | W/W | 1,87 | 2,08 | 1,75 |
| Water flow rate domestic hot water side | I/h | 7897 | 15442 | 21924 |
| Pressure drop domestic hot water side | kPa | 30 | 40 | 39 |
| Simultaneous operation (cooling + medium te | | | | |
| Cooling capacity | kW | 163,3 | 258,3 | 466,2 |
| Heating capacity | kW | 207,8 | 330,2 | 600,6 |
| Input power | kW | 48,4 | 78,7 | 147,7 |
| Total input current | A | 92 | 136 | 253 |
| TER | W/W | 7,66 | 7,47 | 7,22 |
| Water flow rate cold side | l/h | 28212 | 45593 | 84370 |
| Pressure drop cold side | kPa | 32 | 34 | 49 |
| Water flow rate hot side | l/h | 30521 | 47339 | 87653 |
| Useful head system side | kPa | 99,0 | 120,0 | 113,0 |
| Simultaneous operation (cooling + high temper | erature DHW production) (| 5) | | |
| Cooling capacity | kW | 160,0 | 250,0 | 463,5 |
| Heating capacity (DHW) | kW | 90,7 | 177,4 | 251,9 |
| Input power | kW | 70,7 | 124,1 | 217,0 |
| Total input current | A | 126 | 191 | 333 |
| TER | W/W | 3,54 | 3,45 | 3,30 |
| Water flow rate cold side | l/h | 27536 | 43003 | 79720 |
| Pressure drop cold side | kPa | 30 | 31 | 44 |
| Water flow rate domestic hot water side | l/h | 7899 | 15442 | 21924 |
| Pressure drop domestic hot water side | kPa | 30 | 40 | 39 |
| Simultaneous operation (medium temperature | | | | |
| Heating capacity | kW | 101,4 | 129,5 | 304,2 |
| Heating capacity (DHW) | kW | 90,5 | 177,0 | 251,3 |
| | kW | 73,7 | 123,9 | 215,6 |
| Input power Total input current | A KVV | 137 | 196 | 341 |
| TER | W/W | 2,60 | 2,47 | 2,58 |
| Water flow rate hot side | VV/VV I/h | | 22604 | 53038 |
| | kPa | | | 256,0 |
| Useful head system side | | 158,0 | 189,0 | |
| Water flow rate domestic hot water side | l/h | 7897 | 15442 | 21924 |
| Pressure drop domestic hot water side | Ln. | 20 | | |
| Simultaneous operation (cooling + medium te | kPa | 30 | 40 | 39 |
| Cooling capacity | mperature heating + high | temperature DHW production) (7) | | |
| | mperature heating + high kW | temperature DHW production) (7) 163,3 | 258,3 | 466,2 |
| Heating capacity | mperature heating + high kW kW | temperature DHW production) (7) 163,3 134,0 | 258,3 187,9 | 466,2 401,4 |
| Heating capacity Heating capacity (DHW) | mperature heating + high kW kW kW | temperature DHW production) (7) 163,3 134,0 90,5 | 258,3 187,9 177,0 | 466,2 401,4 251,3 |
| Heating capacity Heating capacity (DHW) Total input power | mperature heating + high kW kW kW kW | temperature DHW production) (7) 163,3 134,0 90,5 66,7 | 258,3 187,9 177,0 116,6 | 466,2 401,4 251,3 204,1 |
| Heating capacity Heating capacity (DHW) Total input power Total input current | mperature heating + high kW kW kW kW kW | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 | 258,3 187,9 177,0 116,6 199 | 466,2 401,4 251,3 204,1 347 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER | emperature heating + high kW kW kW kW kW kW kW | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 | 258,3 187,9 177,0 116,6 199 5,35 | 466,2 401,4 251,3 204,1 347 5,48 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER Water flow rate cold side | emperature heating + high kW kW kW kW kW kW A W/W | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 28212 | 258,3 187,9 177,0 116,6 199 5,35 44593 | 466,2 401,4 251,3 204,1 347 5,48 84370 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER Water flow rate cold side Pressure drop cold side | kW kW kW kW kW kW A W/W I/h | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 28212 32 | 258,3 187,9 177,0 116,6 199 5,35 44593 | 466,2 401,4 251,3 204,1 347 5,48 84370 49 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER Water flow rate cold side Pressure drop cold side Water flow rate hot side | emperature heating + high kW kW kW kW kW A W/W I/h kPa | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 28212 32 30521 | 258,3 187,9 177,0 116,6 199 5,35 44593 34 | 466,2 401,4 251,3 204,1 347 5,48 84370 49 87653 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER Water flow rate cold side Pressure drop cold side Water flow rate hot side Useful head system side | kW kW kW kW kW kW kW kW A W/W I/h kPa I/h kPa | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 28212 32 | 258,3 187,9 177,0 116,6 199 5,35 44593 | 466,2 401,4 251,3 204,1 347 5,48 84370 49 |
| Heating capacity Heating capacity (DHW) Total input power Total input current TER Water flow rate cold side Pressure drop cold side Water flow rate hot side | emperature heating + high kW kW kW kW kW A W/W I/h kPa | temperature DHW production) (7) 163,3 134,0 90,5 66,7 125 5,81 28212 32 30521 | 258,3 187,9 177,0 116,6 199 5,35 44593 34 | 466,2 401,4 251,3 204,1 347 5,48 84370 49 87653 |

⁽¹⁾ Data 14511:2022; System side water heat exchanger 12 °C/7 °C; External air 35 °C
(2) Data 14511:2022; System side water heat exchanger 40 °C/45 °C; Outside air 7 °C d.b. / 6 °C w.b.
(3) Data 14511:2022; Heat exchanger - services side (DHW at high temperature) 55 °C / 65 °C; Outside air 7 °C D.B. / 6 °C W.B.
(4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;
(5) Data 14511:2022; Heat exchanger water (services side) 12 °C/7 °C; Outside air 3 °C; Deta (15 °C) (15 °C)

ENERGY DATA

| | | CPS0704°°°00RA | CPS1004°°°00RC | CPS1805°°°00RE |
|--------------------------------------|--------------------------------------|-------------------------|----------------|----------------|
| Cooling capacity with low leaving wa | ter temp (UE n° 2016/2281) | | | |
| SEER | W/W | - | - | 4,56 |
| ηςς | % | - | - | 180% |
| UE 813/2013 performance in average | ambient conditions (average) - 55 °C | - Pdesignh ≤ 400 kW (1) | | |
| Pdesignh | kW | 150 | 241 | - |
| SCOP | W/W | 2,66 | 2,76 | - |
| ηsh | % | 103% | 107% | - |
| UE 813/2013 performance in average | ambient conditions (average) - 35 °C | - Pdesignh ≤ 400 kW (2) | | |
| Pdesignh | kW | 158 | 246 | - |
| SCOP | W/W | 3,26 | 3,44 | - |
| ηsh | % | 128% | 135% | - |

⁽¹⁾ Efficiencies for average temperature applications (55 °C) (2) Efficiencies for low temperature applications (35 °C)

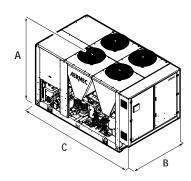
ELECTRIC DATA

| | | CPS0704°°°00RA | CPS1004°°°00RC | CPS1805°°°00RE |
|---------------------------------------|--------------------------------|-------------------------------|----------------|----------------|
| Cooling only mode | | | | |
| Maximum current (FLA) | A | 153,0 | 220,0 | 420,0 |
| Peak current (LRA) | A | 293,0 | 459,0 | 746,0 |
| Medium temperature heating mode op | eration only | | | |
| Maximum current (FLA) | A | 153,0 | 220,0 | 420,0 |
| Peak current (LRA) | A | 293,0 | 459,0 | 746,0 |
| High temperature DHW production ope | rating mode only) | | | |
| Maximum current (FLA) | A | 121,0 | 203,0 | 320,0 |
| Peak current (LRA) | A | 261 | 442 | 645 |
| Simultaneous operation (medium temp | erature heating + cooling) | | | |
| Maximum current (FLA) | A | 138,0 | 197,0 | 381,0 |
| Peak current (LRA) | A | 278 | 436 | 707 |
| Simultaneous operation (medium temp | erature heating + high tempera | ature DHW production) | | |
| Maximum current (FLA) | A | 197,0 | 308,0 | 549,0 |
| Peak current (LRA) | A | 337 | 547 | 874 |
| Simultaneous operation (cooling + DHV | V production operating) | | | |
| Maximum current (FLA) | A | 189,0 | 300,0 | 533,0 |
| Peak current (LRA) | A | 329 | 539 | 858 |
| Simultaneous operation (cooling + med | lium temperature heating + hig | h temperature DHW production) | | |
| Maximum current (FLA) | A | 181,0 | 284,0 | 510,0 |
| Peak current (LRA) | A | 321 | 523 | 835 |

GENERAL TECHNICAL DATA

| | | CPS0704°°°00RA | CPS1004°°°00RC | CPS1805°°°00RE |
|--|-------------------|----------------|-----------------------------|----------------|
| Compressor - Circuit (C1/C2) | | | | |
| Туре | type | | Scroll | |
| Number | no. | 4 | 4 | 5 |
| Circuits | no. | 2 | 2 | 2 |
| Refrigerant | type | | R410A | |
| Refrigerant charge | kg | 45,0 | 61,0 | 106,0 |
| Thermostatic expansion valve | type | | Meccanica | |
| Compressor - Circuit (C3/C4) | | | | |
| ype | type | | Scroll | |
| lumber | no. | 2 | 2 | 2 |
| ircuits | no. | 2 | 2 | 2 |
| Refrigerant | type | | R134a | |
| Refrigerant charge | kg | 7,0 | 15,0 | 20,0 |
| hermostatic expansion valve | type | | Elettronica | |
| Jtility side heat exchanger (cooling) | | | | |
| Гуре | type | | Brazed plate | |
| Number | no. | 1 | 1 | 1 |
| Connections (in/out) | Туре | | Grooved joints | |
| Sizes (in/out) | Ø | 2″1/2 | 3" | 4" |
| Jtility side heat exchanger (medium tem | perature heating) | | | |
| ype | type | | Brazed plate | |
| lumber | no. | 2 | 2 | 2 |
| Manifold connection (in/out) | Туре | | Grooved joints | |
| Manifold diameter (in/out) | Ø | 2″1/2 | 3" | 4" |
| Itility side heat exchanger (high temper | ature heating) | | | |
| ype | type | | Brazed plate | |
| lumber | no. | 1 | 1 | 1 |
| onnections (in/out) | Туре | | Gas | |
| izes (in/out) | Ø | | 2" M | |
| an | | | | |
| ype | type | | Axial | |
| an motor | type | | Asynchronous with phase cut | |
| Number | no. | 4 | 6 | 10 |
| Air flow rate | m³/h | 88000 | 116500 | 194100 |

DIMENSIONS



| | | CPS0704°°°00RA | CPS1004°°°00RC | CPS1805°°°OORE |
|------------------------|----|----------------|----------------|----------------|
| Dimensions and weights | | | | |
| A | mm | 2450 | 2450 | 2450 |
| В | mm | 2200 | 2200 | 2200 |
| C | mm | 3975 | 5760 | 8143 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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NXP 0500 - 1650

Water-water multipurpose

Cooling capacity 108 ÷ 502 kW Heating capacity 122 ÷ 549 kW



- Units designed for 2 or 4-pipe systems
- · High efficiency also at partial loads
- Simultaneous and independent production of hot and chilled water





DESCRIPTION

Multi-purpose indoor model designed for applications with 2 or 4-pipe systems. Just one unit is capable of satisfying the yearly hot and cold water demand simultaneously and independently.

The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

° Standard

L Standard silenced

FEATURES

Operating field

Work at full load with chilled water production from 4 to 18°C at the evaporator and hot water at the condenser up to 55°C.

(for more information, refer to the technical documentation).

Dual-circuit unit

The units are dual-circuit, to ensure maximum efficiency both at full load and at partial load.

Exchangers

All standard units have user-side heat exchangers and plate recovery, optimised to take advantage of the excellent heat exchange characteristics of the R410A.

Option integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

The flow switch is available as an accessory for both the system side and the recovery side, and is compulsory; if it is not installed, the warranty will be considered invalid.

CONTROL PCO⁵

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- Possibility to control two units in a Master-Slave configuration
- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.

ACCESSORIES

AER485P1: RS-485 interface for supervision systems with MODBUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

FL: Flow switch.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PGD1: Allows you to control the unit at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

DRE: Electronic device for peak current reduction.

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

ACCESSORIES COMPATIBILITY

| Model | Ver | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERBACP | °,L | • | • | • | • | • | • | • | • | • | • | • | • | • |
| AERNET | °,L | | | • | | | | • | | • | • | • | | • |
| FL | °,L | | | | | | | • | | • | • | | | • |
| MULTICHILLER_EVO | °,L | • | | • | | | | • | | • | • | • | | • |
| PGD1 | °,L | • | | | | | • | • | | • | • | | | • |

Antivibration

| Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|---------|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| • | ٥ | 0 | AVX350 | AVX350 | AVX351 | AVX351 | AVX351 | AVX351 | AVX352 | AVX352 | AVX353 | AVX353 | AVX353 | AVX354 | AVX354 |
| ۰ | 0 | U,V | AVX357 | AVX357 | AVX358 | AVX358 | AVX358 | AVX359 | AVX360 | AVX360 | AVX361 | AVX361 | AVX361 | AVX361 | AVX361 |
| | M,N | °,U,V,W,Z | AVX357 | AVX357 | AVX358 | AVX358 | AVX358 | AVX359 | AVX360 | AVX360 | AVX361 | AVX361 | AVX361 | AVX361 | AVX361 |
| ٥ | 0,P | U,V | AVX357 | AVX357 | AVX358 | AVX358 | AVX358 | AVX359 | AVX360 | AVX360 | AVX361 | AVX361 | AVX361 | AVX361 | AVX361 |
| • | 0 | W,Z | AVX357 | AVX357 | AVX359 | AVX359 | AVX359 | AVX359 | AVX363 | AVX363 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 |
| • | 0,P | °,W,Z | AVX357 | AVX357 | AVX359 | AVX359 | AVX359 | AVX359 | AVX363 | AVX363 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 |
| L | 0 | 0 | AVX351 | AVX351 | AVX359 | AVX359 | AVX359 | AVX356 | AVX353 | AVX353 | AVX353 | AVX354 | AVX354 | AVX354 | AVX354 |
| L | 0 | U,V | AVX358 | AVX358 | AVX359 | AVX359 | AVX359 | AVX360 | AVX360 | AVX360 | AVX361 | AVX361 | AVX362 | AVX362 | AVX362 |
| L | M,N | °,U,V | AVX358 | AVX358 | AVX359 | AVX359 | AVX359 | AVX360 | AVX360 | AVX360 | AVX361 | AVX361 | AVX362 | AVX362 | AVX362 |
| L | °,M,N | W,Z | AVX359 | AVX359 | AVX359 | AVX359 | AVX359 | AVX363 | AVX363 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 |
| L | 0,P | °,U,V,W,Z | AVX359 | AVX359 | AVX359 | AVX359 | AVX359 | AVX363 | AVX363 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 | AVX364 |

Device for peak current reduction

| Ver | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| °,L | DRE501 (1) | DRE551 (1) | DRE601 (1) | DRE651 (1) | DRE701 (1) | DRE751 (1) | DRE801 (1) | DRE901 (1) | DRE1001 (1) | DRE1251 (1) | DRE1401 (1) | DRE1401 (1) | DRE1401 (1) |

⁽¹⁾ Only for supplies of 400V 3N \sim 50Hz and 400V 3 \sim 50Hz. x 2 or x 3 (if present) indicates the quantity to be ordered. A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| °,L | RIF98 | RIF98 | RIF95 | RIF95 | RIF95 | RIF95 | RIF95 | RIF96 | RIF97 | RIF97 | RIF97 | RIF97 | RIF97 |

A grey background indicates the accessory must be assembled in the factory $% \left(1\right) =\left(1\right) \left(1\right)$

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NXP |
| 4,5,6,7 | Size 0500, 0550, 0600, 0650, 0700, 0750, 0800, 0900, 1000, 1250, 1400, 1500, 1650 |
| 8 | Operating field |
| 0 | Standard mechanic thermostatic valve |
| 9 | System type |
| 2 | 2-pipe system |
| 4 | 4-pipe system |
| 10 | Version |
| 0 | Standard |
| L | Standard silenced |
| 11 | Power supply |
| 0 | 400V ~ 3 50Hz with magnet circuit breakers |
| 4 | 220V ~ 3 50Hz with magnet circuit breakers (1) |
| 5 | 500V ~ 3 50Hz with magnet circuit breakers (2) |
| 12 | Integrated hydronic kit user side |
| 0 | Without hydronic kit |
| M | Single pump low head |
| N | Pump low head + stand-by pump |
| 0 | Single pump high head |
| Р | Pump high head + stand-by pump |
| 13 | Integrated hydronic kit, recovery side |
| 0 | Without hydronic kit |
| U | Single pump low head |
| V | Pump low head + stand-by pump |
| W | Single pump high head |
| Z | Pump high head + stand-by pump |

⁽¹⁾ Only for sizes from 0500 to 0700 (2) Only for sizes from 0800 to 1000

PERFORMANCE SPECIFICATIONS

NXP - 2-pipe system versions °/L

| - · · · · · | | 0500 | 0550 | 0400 | 0450 | 0700 | | 0000 | 0000 | 4000 | 4250 | 4400 | 4500 | 4450 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Size | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
| Cooling system side 2-pipe system (1) | | | | | | | | | | | | | | |
| Cooling capacity | kW | 108,9 | 117,0 | 141,5 | 157,5 | 192,7 | 218,5 | 252,2 | 281,0 | 305,8 | 345,2 | 392,3 | 447,2 | 502,4 |
| Input power | kW | 24,0 | 26,1 | 30,9 | 35,1 | 42,6 | 48,9 | 56,0 | 62,5 | 66,3 | 75,7 | 85,2 | 98,4 | 110,3 |
| Cooling input current | Α | 47,0 | 50,0 | 58,0 | 65,0 | 84,0 | 90,0 | 92,0 | 101,0 | 106,0 | 135,0 | 149,0 | 169,0 | 188,0 |
| EER | W/W | 4,54 | 4,48 | 4,58 | 4,49 | 4,52 | 4,47 | 4,51 | 4,50 | 4,61 | 4,56 | 4,60 | 4,55 | 4,55 |
| Water flow rate source side | l/h | 22711 | 24436 | 29455 | 32877 | 40143 | 45586 | 52705 | 58706 | 63673 | 71963 | 81633 | 93177 | 104621 |
| Pressure drop source side | kPa | 33 | 37 | 41 | 50 | 59 | 69 | 28 | 34 | 26 | 32 | 36 | 45 | 49 |
| Water flow rate system side | l/h | 18734 | 20124 | 24349 | 27108 | 33155 | 37599 | 43386 | 48338 | 52596 | 59364 | 67464 | 76904 | 86389 |
| Pressure drop system side | kPa | 19 | 21 | 21 | 25 | 27 | 29 | 20 | 25 | 19 | 23 | 26 | 32 | 34 |
| Heating system side 2-pipe system (2) | | | | | | | | | | | | | | |
| Heating capacity | kW | 122,4 | 131,0 | 158,2 | 175,7 | 210,0 | 238,7 | 289,0 | 320,9 | 352,6 | 383,7 | 433,5 | 489,5 | 549,4 |
| Input power | kW | 29,6 | 32,0 | 38,5 | 43,3 | 51,7 | 59,6 | 70,9 | 79,3 | 84,0 | 91,7 | 103,4 | 118,6 | 132,1 |
| Heating input current | Α | 54,0 | 58,0 | 68,0 | 76,0 | 95,0 | 103,0 | 112,0 | 123,0 | 130,0 | 154,0 | 173,0 | 196,0 | 217,0 |
| COP | W/W | 4,13 | 4,09 | 4,11 | 4,05 | 4,06 | 4,00 | 4,08 | 4,05 | 4,20 | 4,18 | 4,19 | 4,13 | 4,16 |
| Water flow rate source side | l/h | 27209 | 29066 | 35169 | 38937 | 46642 | 52841 | 63935 | 70917 | 78660 | 85555 | 96778 | 108934 | 122632 |
| Pressure drop source side | kPa | 47 | 52 | 58 | 69 | 79 | 92 | 41 | 50 | 39 | 45 | 51 | 62 | 67 |
| Water flow rate system side | l/h | 21232 | 22726 | 27452 | 30476 | 36453 | 41427 | 50177 | 55720 | 61233 | 66632 | 75270 | 84987 | 95403 |
| Pressure drop system side | kPa | 25 | 27 | 27 | 32 | 32 | 36 | 27 | 33 | 25 | 29 | 32 | 39 | 42 |
| Heating domestic hot water side 2-pipe system (3) | | | | | | | | | | | | | | |
| Heating capacity | kW | 124,5 | 133,2 | 161,0 | 178,8 | 213,6 | 242,8 | 293,3 | 325,1 | 354,8 | 390,1 | 439,8 | 496,5 | 558,6 |
| Input power | kW | 29,2 | 31,6 | 37,8 | 42,6 | 50,9 | 58,4 | 70,0 | 78,4 | 83,2 | 91,1 | 102,6 | 117,8 | 131,6 |
| Heating total input current | Α | 54,0 | 57,0 | 67,0 | 75,0 | 95,0 | 103,0 | 110,0 | 122,0 | 129,0 | 153,0 | 171,0 | 194,0 | 216,0 |
| COP | W/W | 4,26 | 4,21 | 4,26 | 4,20 | 4,19 | 4,16 | 4,19 | 4,15 | 4,26 | 4,28 | 4,29 | 4,21 | 4,24 |
| Water flow rate source side | l/h | 27905 | 29767 | 36085 | 39952 | 47734 | 54174 | 65416 | 72379 | 79441 | 87568 | 98845 | 111238 | 125462 |
| Pressure drop source side | kPa | 37 | 42 | 41 | 50 | 53 | 58 | 42 | 50 | 38 | 46 | 52 | 66 | 70 |
| Water flow rate domestic hot water side | l/h | 21604 | 23109 | 27936 | 31015 | 37062 | 42149 | 50928 | 56446 | 61601 | 67743 | 76363 | 86215 | 96994 |
| Pressure drop domestic hot water side | kPa | 23 | 26 | 25 | 30 | 33 | 36 | 26 | 32 | 23 | 28 | 33 | 40 | 43 |
| Simultaneous operation (heating + cooling), 2 pipe | s (4) | | | | | | | | | | | | | |
| Cooling capacity | kW | 96,2 | 102,5 | 124,8 | 138,9 | 165,4 | 190,6 | 225,7 | 250,3 | 282,6 | 308,1 | 340,2 | 392,0 | 444,9 |
| Recovered heating power | kW | 123,3 | 131,9 | 160,0 | 178,4 | 212,6 | 244,6 | 290,8 | 322,7 | 360,1 | 392,6 | 435,1 | 500,6 | 566,0 |
| Input power | kW | 28,2 | 30,5 | 36,5 | 40,9 | 49,0 | 56,2 | 67,8 | 75,5 | 80,9 | 88,2 | 99,2 | 113,9 | 126,6 |
| Water flow rate system side | I/h | 18734 | 20124 | 24349 | 27108 | 33155 | 37599 | 43386 | 48338 | 52596 | 59364 | 67464 | 76904 | 86389 |
| Pressure drop system side | kPa | 19 | 21 | 21 | 25 | 27 | 29 | 20 | 25 | 19 | 23 | 26 | 32 | 34 |
| Water flow rate domestic hot water side | l/h | 21604 | 23109 | 27936 | 31015 | 37062 | 42149 | 50928 | 56446 | 61601 | 67743 | 76363 | 86215 | 96994 |
| Pressure drop domestic hot water side | kPa | 23 | 26 | 25 | 30 | 33 | 36 | 26 | 32 | 23 | 28 | 33 | 40 | 43 |
| | | | | | | | | | | | | | | |

- (1) Date 14511:2022; Water user side 12 °C/7 °C; Water source side 30 °C/35 °C; All the units are Eurovent certified (2) Date 14511:2022; Water user side 40 °C/45 °C; Water source side 10 °C/7 °C (3) Water exchanger to the total recovery side 40 °C/45 °C; Water source side 10 °C/7 °C (4) Water exchanger to the total recovery side */45 °C; Water to the system side heat exchanger */7 °C;

NXP - 4-pipe system versions °/L

| Size | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Cooling system side 4-pipe system (1) | | 0300 | 0330 | 0000 | 0050 | 0700 | 0730 | 0000 | 0,00 | 1000 | 1230 | 1400 | 1500 | 1050 |
| Cooling capacity | kW | 108.9 | 117.0 | 141.5 | 154,5 | 192.7 | 218,5 | 252,2 | 281,0 | 305,8 | 345,2 | 392,3 | 447,2 | 502,4 |
| Input power | kW | 24,0 | 26,1 | 30,9 | 35,1 | 42,6 | 48,9 | 56.0 | 62,5 | 66,3 | 75,7 | 85,2 | 98,4 | 110,3 |
| Cooling input current | A | 47,0 | 50,0 | 58,0 | 65,0 | 84,0 | 90,0 | 92,0 | 101,0 | 106,0 | 135,0 | 149,0 | 169,0 | 188,0 |
| EER | W/W | 4,54 | 4,48 | 4,58 | 4,49 | 4,52 | 4,47 | 4,51 | 4,50 | 4,61 | 4,56 | 4,60 | 4,55 | 4,55 |
| Water flow rate source side | l/h | 22711 | 24436 | 29455 | 32877 | 40143 | 45586 | 52705 | 58706 | 63673 | 71963 | 81633 | 93177 | 104621 |
| Pressure drop source side | kPa | 33 | 37 | 41 | 50 | 59 | 69 | 28 | 34 | 26 | 32 | 36 | 45 | 49 |
| Water flow rate system side | l/h | 18734 | 20124 | 24349 | 27108 | 33155 | 37599 | 43386 | 48338 | 52596 | 59364 | 67464 | 76904 | 86389 |
| Pressure drop system side | kPa | 19 | 21 | 21 | 25 | 27 | 29 | 20 | 25 | 29 | 23 | 26 | 32 | 34 |
| Heating system side 4-pipe system (2) | | | | | | | | | | | | | | |
| Heating capacity | kW | 124,5 | 133,2 | 161,0 | 178,8 | 213,6 | 242,8 | 293,3 | 325,1 | 354,8 | 390,1 | 439,8 | 496,5 | 588,6 |
| Input power | kW | 29,2 | 31,6 | 37,8 | 42,6 | 50,9 | 58,4 | 70,0 | 78,4 | 83,2 | 91,1 | 102,6 | 117,8 | 131,6 |
| Heating total input current | A | 54,0 | 57,0 | 67,0 | 75,0 | 95,0 | 103,0 | 110,0 | 122,0 | 129,0 | 153,0 | 171,0 | 194,0 | 216,0 |
| COP | W/W | 4,26 | 4,21 | 4,26 | 4,20 | 4,19 | 4,16 | 4,19 | 4,15 | 4,26 | 4,28 | 4,29 | 4,21 | 4,24 |
| Water flow rate source side | I/h | 27905 | 29767 | 36085 | 39952 | 47734 | 54174 | 65416 | 72379 | 79441 | 87568 | 98845 | 111238 | 125462 |
| Pressure drop source side | kPa | 37 | 42 | 41 | 50 | 53 | 58 | 42 | 50 | 38 | 46 | 52 | 66 | 70 |
| Water flow rate system side | I/h | 21604 | 23109 | 27935 | 31015 | 37062 | 42149 | 50928 | 54446 | 61601 | 67743 | 76363 | 46215 | 96994 |
| Pressure drop system side | kPa | 23 | 26 | 25 | 30 | 33 | 36 | 26 | 32 | 23 | 28 | 33 | 40 | 43 |
| Simultaneous operation (heating + cooling), | 4 pipes (3) | | | | | | | | | | | | | |
| Cooling capacity | kW | 96,2 | 102,5 | 124,8 | 138,9 | 165,4 | 190,6 | 225,7 | 250,3 | 282,6 | 308,1 | 340,2 | 392,0 | 444,9 |
| Recovered heating power | kW | 123,3 | 131,9 | 160,0 | 178,4 | 212,6 | 244,6 | 290,8 | 322,7 | 360,1 | 392,6 | 435,1 | 500,6 | 566,0 |
| Input power | kW | 28,2 | 30,5 | 36,5 | 40,9 | 49,0 | 56,2 | 67,8 | 75,5 | 80,9 | 88,2 | 99,2 | 113,4 | 126,6 |
| Water flow rate cold side | l/h | 18734 | 20124 | 24349 | 27108 | 33155 | 37599 | 43386 | 48338 | 52596 | 59364 | 67464 | 76904 | 86389 |
| Pressure drop cold side | kPa | 19 | 21 | 21 | 25 | 27 | 29 | 20 | 25 | 19 | 23 | 26 | 32 | 34 |
| Water flow rate hot side | I/h | 21604 | 23109 | 27936 | 31015 | 37062 | 42149 | 50928 | 56446 | 61601 | 67743 | 76363 | 86215 | 96944 |

- (1) Date 14511:2022; Water user side $12 \, ^{\circ}\text{C} / 7 \, ^{\circ}\text{C}$; Water source side $30 \, ^{\circ}\text{C} / 35 \, ^{\circ}\text{C}$; All the units are Eurovent certified (2) Date 14511:2022; Water user side $40 \, ^{\circ}\text{C} / 45 \, ^{\circ}\text{C}$; Water source side $10 \, ^{\circ}\text{C} / 7 \, ^{\circ}\text{C}$ (3) Water exchanger to the total recovery side * / 45 $\, ^{\circ}\text{C}$; Water to the system side heat exchanger * / 7 $\, ^{\circ}\text{C}$;

| Size | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure drop hot side | kPa | 23 | 26 | 25 | 30 | 33 | 36 | 26 | 32 | 23 | 28 | 33 | 40 | 43 |

- (1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C; All the units are Eurovent certified (2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C (3) Water exchanger to the total recovery side * / 45 °C; Water to the system side heat exchanger * / 7 °C;

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|---|---------------|-------------|----------------|-----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SEER - 12/7 (EN14825: 2018) (1) | | | | | | | | | | | | | | | |
| SEER | °,L | W/W | 5,25 | 5,44 | 5,52 | 5,43 | 5,52 | 5,39 | 5,61 | 5,82 | 6,09 | 6,00 | 6,05 | 6,43 | 6,45 |
| Seasonal efficiency | °,L | % | 207,0% | 214,6% | 217,8% | 214,2% | 217,8% | 212,6% | 221.4% | 229,9% | 240,5% | 237,1% | 239,1% | 254,2% | 254,9% |
| SEPR - (EN 14825: 2018) High temperatur | e (2) | | | | | | | | | | | | | | |
| SEPR | °,L | W/W | - | - | - | - | - | - | - | 7,08 | 7,30 | 7,21 | 7,23 | - | - |
| UE 813/2013 performance in average am | bient conditi | ons (averag | e) - 55 °C - P | designh ≤ | 400 kW (3) | | | | | | | | | | |
| Pdesignh | °,L | kW | 163 | 173 | 212 | 234 | 280 | 318 | 385 | - | - | - | - | - | - |
| SCOP | °,L | W/W | 4,78 | 4,68 | 4,78 | 4,65 | 4,65 | 4,58 | 4,73 | - | - | - | - | - | - |
| ηsh | °,L | % | 183.0% | 179.0% | 183.0% | 178.0% | 178.0% | 175.0% | 181.0% | - | - | - | - | - | - |
| Energy index | | | | | | | | | | | | | | | |
| TER | °,L | W/W | 7,77 | 7,68 | 7,80 | 7,75 | 7,71 | 7,75 | 7,62 | 7,59 | 7,94 | 7,94 | 7,82 | 7,87 | 7,99 |

- (1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.
 (2) Calculation performed with FIXED water flow rate.
 (3) Efficiencies for average temperature applications (55 °C)

ELECTRIC DATA

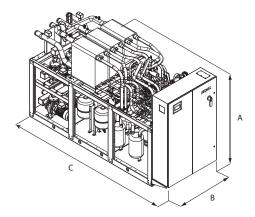
| Size | | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|-----------------------|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Electric data | | | | | | | | | | | | | | | |
| Maximum current (FLA) | °,L | Α | 71,0 | 77,0 | 91,0 | 102,0 | 124,0 | 135,0 | 163,0 | 179,0 | 195,0 | 208,0 | 237,0 | 266,0 | 295,0 |
| Peak current (LRA) | °,L | Α | 214,0 | 220,0 | 206,0 | 216,0 | 267,0 | 323,0 | 332,0 | 340,0 | 356,0 | 459,0 | 488,0 | 600,0 | 629,0 |

GENERAL TECHNICAL DATA

| L type L no. L no. | | | | | | | | | | | | | |
|--------------------------|---|--------|---|--------|--------|--------|---------------|------|------|------|------|------|------|
| L no. | - | | | | | | | | | | | | |
| | - | | | | | | Scroll | | | | | | |
| l no | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ,L 110. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| L type | | | | | | | R410A | | | | | | |
| :/cold) | | | | | | | | | | | | | |
| L type | | | | | | | Brazed plate | | | | | | |
| L no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| L Type | | | | | | (| irooved joint | S | | | | | |
| L Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3" | 3" | 3" | 3" | 3" | 3" | 3" |
| omestic hot wat | er) | | | | | | | | | | | | |
| L type | | | | | | | Brazed plate | | | | | | |
| L no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| L Type | | | | | | (| rooved joint | S | | | | | |
| L Ø | 2" 1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 2"1/2 | 3″ | 3" | 3″ | 3″ | 3" | 3″ | 3" |
| d side) | | | | | | | | | | | | | |
| L type | | | | | | | Brazed plate | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| L Type | | | | | | (| rooved joint | S | | | | | |
| L Ø | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 2"1/2 | 2"1/2 | 3″ | 3″ | 3″ | 3″ | 3" | 3" | 3″ |
| ot side) | | | | | | | | | | | | | |
| L type | | | | | | | Brazed plate | | | | | | |
| L no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| L Type | | | | | | (| rooved joint | S | | | | | |
| L Ø | 2"1/2 | 2"1/2 | 2"1/2 | 2" 1/2 | 2" 1/2 | 2" 1/2 | 3″ | 3″ | 3″ | 3″ | 3" | 3" | 3" |
| | | | | | | | | | | | | | |
| dB(A) | 78,0 | 79,0 | 79,0 | 80,0 | 82,0 | 86,0 | 88,0 | 88,0 | 88,0 | 90,0 | 90,0 | 92,0 | 92,0 |
| dB(A) | 72,0 | 73,0 | 73,0 | 74,0 | 76,0 | 80,0 | 82,0 | 82,0 | 82,0 | 84,0 | 84,0 | 86,0 | 86,0 |
| dB(A) | 46,0 | 47,0 | 47,0 | 48,0 | 50,0 | 54,0 | 56,0 | 56,0 | 56,0 | 58,0 | 58,0 | 60,0 | 60,0 |
| dB(A) | 40,0 | 41,0 | 41,0 | 42,0 | 44,0 | 48,0 | 50,0 | 50,0 | 50,0 | 52,0 | 52,0 | 54,0 | 54,0 |
| | Type Type | type | Type Type | Type | | | | Type | Type | Type | | | |

⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | | | | | | 0500 | 0550 | 0600 | 0650 | 0700 | 0750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
|-----------|-------------|--|--|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Dimension | s and weigl | hts | | | | | | | | | | | | | | | | |
| Α | | | | 0 | mm | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| Λ | | | | L | mm | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 |
| В | | | | °,L | mm | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
| C | | | | °,L | mm | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 |
| Dimension | s and weigl | hts with pun | np/s | | | | | | | | | | | | | | | |
| Α | | | | 0 | mm | 1976 | 1976 | 1976 | 1976 | 1976 | 1976 | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 | 2021 |
| n | | | | L | mm | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 | 2120 |
| В | | | | °,L | mm | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
| r | | | | 0 | mm | 3452 | 3452 | 3452 | 3452 | 3452 | 3452 | 3452 | 3452 | 3750 | 3750 | 3750 | 3750 | 3750 |
| | | | | L | mm | 3452 | 3452 | 3452 | 3452 | 3452 | 3750 | 3750 | 3750 | 3750 | 3750 | 2600 | 2600 | 2600 |
| | Version | Integrated hydronic kit user side | Integrated hydronic kit, recovery side | | 0500 | 0550 | 0600 | 0650 | 0700 | 07 | 750 | 0800 | 0900 | 1000 | 1250 | 1400 | 1500 | 1650 |
| | • | 0 | 0 | kg | 990 | 1000 | 1110 | 1130 | 1180 | 13 | 80 | 1680 | 1700 | 1890 | 1960 | 2060 | 2100 | 2270 |
| | • | 0 | U/V | kg | 1230 | 1240 | 1360 | 1380 | 1450 | 16 | 90 | 1960 | 2060 | 2310 | 2380 | 2500 | 2540 | 2720 |
| | | M/N | °/U/V | kg | 1230 | 1240 | 1360 | 1380 | 1450 | 16 | i90 | 1960 | 2060 | 2310 | 2380 | 2500 | 2540 | 2720 |
| | • | °/M/N | W/Z | kg | 1340 | 1350 | 1490 | 1500 | 1600 | 18 | 80 | 2110 | 2300 | 2560 | 2630 | 2770 | 2810 | 3010 |
| Empty | | 0/P | °/U/V/W/Z | kg | 1340 | 1350 | 1490 | 1500 | 1600 | 18 | 80 | 2110 | 2300 | 2560 | 2630 | 2770 | 2810 | 3010 |
| weight | L | 0 | 0 | kg | 1230 | 1230 | 1340 | 1360 | 1420 | 15 | 70 | 1910 | 1930 | 2120 | 2190 | 2270 | 2400 | 2500 |
| | L | 0 | U/V | kg | 1560 | 1570 | 1690 | 1710 | 1780 | 20 | 120 | 2290 | 2390 | 2660 | 2730 | 2850 | 2890 | 3070 |
| | L | M/N | °/U/V | kg | 1560 | 1570 | 1690 | 1710 | 1780 | 20 | 120 | 2290 | 2390 | 2660 | 2730 | 2850 | 2890 | 3070 |
| | L | °/M/N | W/Z | kg | 1670 | 1680 | 1820 | 1830 | 1930 | 22 | 10 | 2240 | 2630 | 2910 | 2980 | 3120 | 3160 | 3360 |
| | 1 | 0/P | °/U/V/W/Z | ka | 1670 | 1680 | 1820 | 1830 | 1930 | - 11 | 10 | 2240 | 2630 | 2910 | 2980 | 3120 | 3160 | 3360 |

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PRECISION AIR CONDITIONERS

Aermec is well established in the data centre market, with a multiple year experience and prestigious projects aimed at reducing the overall cost of ownership of modern data centres.

This process is achieved by applying state of the art product solutions with a strong focus on integrated design and sophisticated analyses of individual data centre customer requirements, with the aim of achieving a personalised and optimised solution for each and every individual installation site.

PRECISION AIR CONDITIONING

| P 10-932 | Direct expansion (air or water cooled); chilled water |
|------------|---|
| G 070-1342 | Direct expansion (air or water cooled); chilled water |
| R 20-361 | Direct expansion (air or water cooled); chilled water |

| Air flow (m³/h) | rate Cool. Ca (kW) | p. Heat. Cap. (kW) | Page |
|--------------------|-----------------------|-----------------------|------|
| | 7-160 | | 800 |
| | 50-222 | | 805 |
| | 10-37 | | 809 |

















P 10-932

Precision Air Conditioners

Cooling capacity 7 ÷ 160 kW



- Strict control of room temperature and humidity
- · High efficiency values
- Wide selection of configurations
- Reduced ground view clearance





Last generation control panel

DESCRIPTION

P series precision air conditioning units have design and operational features suitable for rooms where sensible nature heat loads are prevailing.

CONFIGURATIONS

PXO: upwards flow air conditioners with direct expansion with air or water condensation.

PWO: upwards flow air conditioners with chilled water.

PXU: downwards flow air conditioners with direct expansion with air or water condensation.

PWU: downwards airflow air conditioners with chilled water.

FEATURES

The **P** series precision air conditioning units are designed for precision air conditioning of technological rooms characterized by elevated thermal loads to be eliminated, such as computing centres and other applications where high performances and maximum reliability are required.

Precision Air Conditioning units can be customized as per necessities, in order to offer a complete control of temperature, of humidity and of air quality through accessories such as humidifier, after-heating and high efficiency filters.

In order to guarantee the maximum reliability and flexibility, there are available both solutions with double circuit and solution with different cooling mediums:

Two Sources

The Twin Sources system ensures cooling continuity in case of unavailability, for whatever reason, of the primary source: overhead, maintenance, night or seasonal stop or stop for any emergency.

This system includes the assembly inside the air conditioner of a second cooling source, complete with its regulation and completely independent from the primary one.

They only share the aluminium finned pack, allowing both a high thermal exchange efficiency.

Free Cooling

This system employs external air, a renewable energy source, for cooling the Free Cooling water circuit by an external dry cooler.

The Free Cooling circuit works in place of, or along, the mechanical cooling with direct expansion.

STRUCTURE

The structure consists of a steel frame painted with dark grey epoxy powders (RAL7024) guaranteeing a durable finish. Acoustic insulation self-extinguishing panels covered with anti-friction film.

FANS

Centrifugal fans with backward curved blades (plug fans) with EC motor directly coupled to the electronic control to minimize power consumption and noise emissions.

FILTERS

Corrugated baffle filters, not regenerable, self-extinguishing, G4 efficiency class (according to EN 779).

Differential pressure switch (STANDARD) for dirty filter alarm.

The control of filter dirt conditions via Modbus is available as an option.

ELECTRONIC CONTROLLER

The evolved electronic adjustment maximises energy saving and optimizes all operating modes of the units, both direct expansion and chilled water.

- The controller allows to supervise all main components of the unit, with more than 50 different variables that guarantee real time monitoring of all operating cycles.
- The units have a standard RS485 Modbus board, BACnet, LonWorks and SNMP are available as options, for a simple and quick interface with BMS (Building Management System) supervising systems.
- View of all operating parameters in 8 languages.

CHILLED WATER COILS

Only for W configurations

Large surface batteries, positioned in such a way as to optimise airflow and heat transfer, made of refrigerating quality copper tubes with aluminium louvers mechanically merged, fitted with motorised 3way valve (2way is also available in the selection process).

COMPRESSORS

Only for X configurations

High efficiency scroll compressor with low power consumption.

ACCESSORIES

Direct expansion

- DC brushless compressors with inverter control
- Electric power supply line for remote condenser
- Electric power supply line with speed adjustment for remote condenser
- Condenser adjustment with 0-10V signal for remote condenser with EC fans
- Water condenser
- Condensate adjustment pressure valve
- "LAC" (Low Ambient Control) valve has the function of bypassing the condenser, injecting warm gas in the liquid piping, to maintain the refrigerant pressure stable. Use is recommended in very cold climates, in case of inverter compressors and in case of oversized condensers with respect to the real necessities of the units.

Chilled water

- Two ways modulating valves
- Inlet and outlet water temperature probes
- "Power Valve" kit: automatic adjustment and balancing valve of the water circuit, which allows to guarantee a constant water flow rate and monitor the efficiency of the unit in real time.

Heating

- Low thermal inertia electric batteries with differentiated stages regulation
- Low thermal inertia electric batteries with modulating regulation
- Water heating batteries with 2 or 3 ways modulating valve (available on request on some models only)

Humidification

- Room humidity probe
- Flow humidity probe
- Submerged electrodes humidifier (also available with low conductivity cylinder)

Water presence detection

 Available as punctual probe or fabric belt (length 5 m) Allows to have an alarm in case water presence, even partial, is detected.

SMARTNET

The innovative **SMARTNET** system revolutionises the local area network concept.

This system, using the modulation capabilities of its components, allows dividing the workload across all units in the local area network. Compared to the Duty Stand-by $(n+1 \ o \ n+n)$ redundancy system, where the backup units were stopped waiting for a problem to arise,

These units in the direct expansion configurations work with R410A refrigerant, which does not damage the ozone layer.

In dual circuit configuration you can control the power output thanks

In dual circuit configuration you can control the power output thanks to electronic adjustment that automatically manages the compressors activation depending on the load request.

Electronic expansion valve standard on all sizes.

Mechanicals and structural

- Condensate discharge pump
- Condensation and humidifier drain pump
- Flow overpressure dampers
- Motorised damper on suction
- M5 (EU5) efficiency air filter on air supply
- Flow plenum with adjustable grills.
- Sub-base plenum with front grids.
- Plenum Free Cooling: available for direct expansion and downward flow versions, complete with motorised dampers and the external air temperature probe. Used to perform direct Free Cooling taking advantage of external air and will work in place of or supporting the direct expansion mechanical cooling.
- Height adjustable support for raised floor installation
- Grilled panels for front flow
- Closed panels for downwards air intake
- Panels with "sandwich" counter-panels (available on request on some models only)
- Panels with increased soundproof upholstery (available on request on some models only)

Electrical

- The unit has a standard power supply 400V ~ 3N 50Hz. The following voltages are available as an alternative: 400V ~ 3N 60Hz, 230V ~ 3 60Hz, 380V ~ 3N 60Hz
- Electric power supply line without neutral
- "Basic" version automatic transfer switch (ATS)
- Advanced" version automatic transfer switch (ATS)

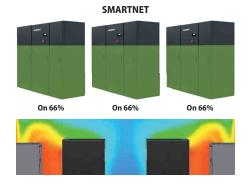
Regulation

- Constant flow rate ventilation adjustment
- Constant pressure ventilation adjustment
- Local area network configuration and cable
- User terminal for remote installation
- For further details refer to the technical documentation or to the selection program.

the SMARTNET system allows to maintain the units connected on the network always active with various advantages:

- greater efficiency of the units with partial loads;
- optimal air distribution, eliminating the risk of environment hotspots;
- internal system redundancy,

DUTY / STAND-BY On 100% On 100% Stand by



TECHNICAL DATA

PXO: upwards airflow - direct expansion with air or water condensation

| | | PX0 071 | PX0 141 | PXO 211 | PXO 251 | PX0 321 | PX0 322 | PXO 361 | PXO 422 | PX0 461 | PX0 512 | PXO 662 | PXO 852 | PXO 932 |
|---------------------------|-------|---------|---------|---------|---------|---------|---------|---------------|---------|---------|---------|---------|---------|---------|
| Cooling performances (1) | | | | | | | | | | | | | | |
| Total cooling capacity | kW | 8,2 | 14,7 | 21,0 | 27,4 | 35,2 | 33,8 | 38,1 | 43,7 | 48,1 | 57,8 | 67,3 | 84,4 | 94,9 |
| Sensible cooling capacity | kW | 7,9 | 12,9 | 21,0 | 25,7 | 35,2 | 33,8 | 38,1 | 43,7 | 46,8 | 53,6 | 66,2 | 73,7 | 86,3 |
| EER (2) | W/W | 3,83 | 3,40 | 3,30 | 3,14 | 3,13 | 3,34 | 3,57 | 3,47 | 3,63 | 3,34 | 3,26 | 3,27 | 3,64 |
| Fans | | | | | | | | | | | | | | |
| Туре | type | | | | | | Plu | g-fan EC inve | rter | | | | | |
| Air flow rate | m³/h | 2200 | 3200 | 7000 | 7000 | 12000 | 12000 | 14000 | 14000 | 14000 | 14000 | 18000 | 18000 | 21000 |
| Refrigerant circuit | | | | | | | | | | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |
| Sound data | | | | | | | | | | | | | | |
| Sound pressure (3) | dB(A) | 51 | 59 | 56 | 57 | 67 | 67 | 58 | 58 | 58 | 59 | 61 | 61 | 61 |
| Possible configurations | | | | | | | | | | | | | | |
| Free Cooling | | - | - | - | - | Yes | - | - | - | Yes | - | Yes | Yes | - |
| Two Sources | | - | - | Yes | - | Yes | - | - | - | Yes | Yes | Yes | Yes | Yes |
| Electric data | | | | | | | | | | | | | | |
| Power supply | | | | | | | 40 | 00V ~ 3N 50H | -lz | | | | | |

⁽¹⁾ Condensation temperature 45 °C; incoming air 24 °C / 45 % u.r.; external static pressure: 30Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

PWO: upwards airflow - with chilled water

| | | PW0 10 | PW0 20 | PW0 30 | PW0 50 | PW0 60 | PW0 70 | PW0 80 | PW0 110 | PW0 160 | PW0 220 |
|---------------------------|-------|--------|--------|--------|--------|----------|-------------|--------|---------|---------|---------|
| Cooling performances (1) | | | | | | | | | | | |
| Total cooling capacity | kW | 9,9 | 17,2 | 30,0 | 41,0 | 52,8 | 63,1 | 65,5 | 80,0 | 110,0 | 160,0 |
| Sensible cooling capacity | kW | 9,3 | 14,9 | 27,8 | 36,2 | 47,4 | 54,2 | 61,8 | 73,0 | 99,7 | 146,0 |
| EER (2) | W/W | 38,26 | 29,13 | 30,00 | 24,54 | 22,75 | 24,17 | 24,79 | 24,17 | 29,33 | 21,17 |
| Fans | | | | | | | | | | | |
| Туре | type | | | | | Plug-fan | EC inverter | | | | |
| Air flow rate | m³/h | 2200 | 3200 | 7000 | 8000 | 12000 | 12000 | 16000 | 18000 | 24000 | 36000 |
| Refrigerant circuit | | | | | | | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sound data | | | | | | | | | | | |
| Sound pressure (3) | dB(A) | 51 | 59 | 56 | 60 | 67 | 68 | 61 | 62 | 62 | 65 |
| Possible configurations | | | | | | | | | | | |
| Free Cooling | | - | - | - | - | - | - | - | - | - | - |
| Two Sources | | - | - | - | Yes | - | - | - | Yes | Yes | - |
| Electric data | | | | | | | | | | | |
| Power supply | | · | | | | 400V ~ | 3N 50Hz | · | · | | |

⁽¹⁾ Incoming air 24°C / 45 % r.h.; water 7°C / 12°C; external static pressure: 30 Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

PXU: downwards airflow - direct expansion with air or water condensation

| | | PXU 071 | PXU 141 | PXU 211 | PXU 251 | PXU 321 | PXU 322 | PXU 361 | PXU 422 | PXU 461 | PXU 512 | PXU 662 | PXU 852 | PXU 932 |
|---------------------------|-------|---------|---------|---------|---------|---------|---------|---------------|---------|---------|---------|---------|---------|---------|
| Cooling performances (1) | | | | | | | | | | | | | | |
| Total cooling capacity | kW | 8,2 | 14,7 | 21,0 | 27,4 | 35,2 | 33,8 | 38,1 | 43,7 | 48,1 | 57,8 | 67,3 | 84,4 | 94,9 |
| Sensible cooling capacity | kW | 7,9 | 12,9 | 21,0 | 25,7 | 35,2 | 33,8 | 38,1 | 43,7 | 46,8 | 53,6 | 66,2 | 73,7 | 86,3 |
| EER (2) | W/W | 3,74 | 3,29 | 3,24 | 3,10 | 3,09 | 3,29 | 3,50 | 3,41 | 3,57 | 3,30 | 3,15 | 3,18 | 3,59 |
| Fans | | | | | | | | | | | | | | |
| Туре | type | | | | | | Plu | g-fan EC inve | rter | | | | | |
| Air flow rate | m³/h | 2200 | 3200 | 7000 | 7000 | 12000 | 12000 | 14000 | 14000 | 14000 | 14000 | 18000 | 18000 | 21000 |
| Refrigerant circuit | | | | | | | | | | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |
| Sound data | | | | | | | | | | | | | | |
| Sound pressure (3) | dB(A) | 51 | 57 | 62 | 62 | 67 | 68 | 59 | 59 | 59 | 59 | 63 | 63 | 62 |
| Possible configurations | | | | | | | | | | | | | | |
| Free Cooling | | - | - | - | - | Yes | - | - | - | Yes | - | Yes | Yes | - |
| Two Sources | | - | - | Yes | - | Yes | - | - | - | Yes | Yes | Yes | Yes | Yes |
| Electric data | | | | | | | | | | | | | | |
| Power supply | | | | | | | 4 | 00V ~ 3N 50I | Hz | _ | | | | |

⁽¹⁾ Condensation temperature 45 °C; incoming air 24 °C / 45 % u.r.; external static pressure: 30Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

PWU: downwards airflow - with chilled water

| | | PWU 10 | PWU 20 | PWU 30 | PWU 50 | PWU 60 | PWU 70 | PWU 80 | PWU 110 | PWU 160 | PWU 220 |
|---------------------------|-------|--------|--------|--------|--------|------------|-------------|--------|---------|---------|---------|
| Cooling performances (1) | | | | | | | | | | | |
| Total cooling capacity | kW | 9,9 | 17,2 | 30,0 | 41,0 | 52,8 | 63,1 | 65,4 | 80,0 | 110,0 | 160,0 |
| Sensible cooling capacity | kW | 9,3 | 14,9 | 27,8 | 36,2 | 47,4 | 54,2 | 61,8 | 73,0 | 99,7 | 146,0 |
| EER (2) | W/W | 32,09 | 23,54 | 27,03 | 20,91 | 21,28 | 22,77 | 23,21 | 19,80 | 24,39 | 19,80 |
| Fans | | | | | | | | | | | |
| Туре | type | | | | | Plug-fan l | EC inverter | | | | |
| Air flow rate | m³/h | 2200 | 3200 | 7400 | 8200 | 12000 | 12000 | 16000 | 18000 | 24000 | 36000 |
| Refrigerant circuit | | | | | | | | | | | |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sound data | | | | | | | | | | | |
| Sound pressure (3) | dB(A) | 51 | 60 | 57 | 62 | 68 | 68 | 62 | 63 | 63 | 66 |
| Possible configurations | | | | | | | | | | | |
| Free Cooling | | - | - | - | - | - | - | - | - | - | - |
| Two Sources | | - | - | - | Yes | - | - | - | Yes | Yes | - |
| Electric data | | | | | | | | | | | |
| Power supply | | | | | | 400V ~ | 3N 50Hz | | | | |

- (1) Incoming air 24 °C / 45 % r.h.; water 7 °C / 12 °C; external static pressure: 30 Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

UPWARDS FLOW CONFIGURATIONS



Standard version with frontal air intake and upwards flow.



Version with front air intake and frontal air flow with distribution plenum with grid.



Version with air intake from the bottom, stand for raised floor, blind front panel and upflow air supply.

DOWNWARDS FLOW CONFIGURATIONS



Standard version with upwards suction and downwards airflow, with sub-base for raised flooring.



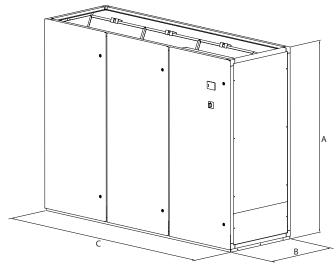
Version with upwards suction with frontal air flow with grilled plenum distribution.

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Version with upwards suction with frontal air flow with grilled front panel.

DIMENSIONS



| | | PX0 071 | PXO 141 | PX0 211 | PXO 251 | PX0 321 | PX0 322 | PXO 361 | PX0 422 | PXO 461 | PX0 512 | PXO 662 | PX0 852 | PXO 932 |
|------------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and weights | | | | | | | | | | | | | | |
| A | mm | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 |
| В | mm | 600 | 600 | 880 | 880 | 850 | 850 | 880 | 880 | 880 | 880 | 880 | 880 | 880 |
| C | mm | 750 | 750 | 860 | 860 | 1410 | 1410 | 1750 | 1750 | 1750 | 1750 | 2300 | 2300 | 2640 |
| Empty weight | kg | 180 | 210 | 270 | 270 | 365 | 390 | 440 | 450 | 450 | 500 | 640 | 660 | 860 |
| | | PW0 10 | PWO | 20 | PW0 30 | PW0 50 | PW0 | 60 P | W0 70 | PW0 80 | PW0 11 | 0 PW | 0 160 | PW0 220 |
| Dimensions and weights | | | | | | | | | | | | | | |
| A | mm | 1990 | 19 | 90 | 1990 | 1990 | 1990 |) | 1990 | 1990 | 1990 | 1 | 990 | 1990 |
| В | mm | 600 | 60 | 10 | 880 | 880 | 850 | | 850 | 880 | 880 | 1 | 380 | 880 |
| C | mm | 750 | 75 | 0 | 860 | 860 | 1410 |) | 1410 | 1750 | 1750 | 2 | 640 | 3495 |
| Empty weight | kg | 155 | 16 | i0 | 220 | 240 | 240 | | 260 | 340 | 360 | | 540 | 700 |
| | | PXU 071 | PXU 141 | PXU 211 | PXU 251 | PXU 321 | PXU 322 | PXU 361 | PXU 422 | PXU 461 | PXU 512 | PXU 662 | PXU 852 | PXU 932 |
| Dimensions and weights | | | | | | | | | | | | | | |
| A | mm | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 |
| В | mm | 600 | 600 | 880 | 880 | 850 | 850 | 880 | 880 | 880 | 880 | 880 | 880 | 880 |
| C | mm | 750 | 750 | 860 | 860 | 1410 | 1410 | 1750 | 1750 | 1750 | 1750 | 2300 | 2300 | 2640 |
| Empty weight | kg | 180 | 210 | 270 | 270 | 365 | 390 | 440 | 450 | 450 | 500 | 640 | 660 | 860 |
| | | PWU 10 | PWI | J 20 | PWU 30 | PWU 50 | PWU | 60 P | WU 70 | PWU 80 | PWU 11 | 0 PW | U 160 | PWU 220 |
| Dimensions and weights | | | | | | | | | | | | | | |
| A | mm | 1990 | 19 | 90 | 1990 | 1990 | 1990 |) | 1990 | 1990 | 1990 | 1 | 990 | 1990 |
| В | mm | 600 | 60 | 10 | 880 | 880 | 850 | | 850 | 880 | 880 | 1 | 380 | 880 |
| C | mm | 750 | 75 | 0 | 860 | 860 | 1410 |) | 1410 | 1750 | 1750 | 2 | 640 | 3495 |
| Empty weight | kg | 155 | 16 | 0 | 220 | 240 | 240 | | 260 | 340 | 360 | | 540 | 700 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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G 070-1342

Precision Air Conditioners

Cooling capacity 50 ÷ 222 kW



- Separate ventilating section for installation under raised floor
- Reduced energy consumption of fans
- High ratio between supplied cooling capacity and footprint
- Optimised distribution of air in the raised floor



Last generation control panel



DESCRIPTION

Precision air conditioners of the series ${\bf G}$ their construction and operating features are suitable to meet the design criteria of last generation Data Centers.

CONFIGURATIONS

 $\mbox{\bf GXU}:$ downwards flow air conditioners with direct expansion with air or water condensation.

GWU: downwards flow air conditioners with chilled water.

For the configuration **W** there is also the version **XH** (**Extra Height**). By increasing the height, performance can be enhanced thanks to the larger coil.

FEATURES

Precision air conditioners of the series **G** they are designed for air-conditioning of utility rooms for high power density applications.

In these applications, the structures are characterised by technical floors as high as 1000 mm, creating ample space below to house the

The fans are supplied inside a sub-base supplied separately, without increasing the size of the unit, thus optimising the available space with considerable advantages:

- The enlarged coils with ample heat exchange surface enhance performance with less energy consumption.
- Greater filtering surface reducing pressure drops so that less maintenance is needed as they get less dirty.
- Horizontal flow of fans in sub-base with lower pressure drops.

STRUCTURE

The structure consists of a steel frame painted with dark grey epoxy powders (RAL7024) guaranteeing a durable finish. Acoustic insulation self-extinguishing panels covered with anti-friction film.

The ventilating sub-base is supplied separately and must be electrically connected at the worksite or on-site.

FAN9

Centrifugal fans with backward curved blades (plug fans) with EC motor directly coupled to the electronic control to minimize power consumption and noise emissions.

FILTERS

Corrugated baffle filters, not regenerable, self-extinguishing, G4 efficiency class (according to EN 779).

Differential pressure switch (STANDARD) for dirty filter alarm.

The control of filter dirt conditions via Modbus is available as an option.

ELECTRONIC CONTROLLER

The evolved electronic adjustment maximises energy saving and optimizes all operating modes of the units, both direct expansion and chilled water.

- The controller allows to supervise all main components of the unit, with more than 50 different variables that guarantee real time monitoring of all operating cycles.
- The units have a standard RS485 Modbus board, BACnet, LonWorks and SNMP are available as options, for a simple and quick interface with BMS (Building Management System) supervising systems.
- View of all operating parameters in 8 languages.

CHILLED WATER COILS

Only for W configurations

Large surface coils, positioned in such a way as to optimise airflow and heat transfer, made of copper tubes with aluminium louvers mechanically merged, fitted with 2-way modulating valve (3-way is also available in the selection process).

COMPRESSORS

Only for X configurations

High efficiency scroll compressor with low power consumption. These units in the direct expansion configurations work with R410A refrigerant, which does not damage the ozone layer. The dual circuit configuration controls the power output thanks to electronic adjustment that automatically manages the compressors activation depending on the load request.

ACCESSORIES

Direct expansion

- DC brushless compressors with inverter control
- Electric power supply line for remote condenser
- Electric power supply line with speed adjustment for remote condenser
- Condenser adjustment with 0-10V signal for remote condenser with EC fans
- Water condenser
- Condensate adjustment pressure valve
- "LAC" (Low Ambient Control) valve has the function of bypassing the condenser, injecting warm gas in the liquid piping, to maintain the refrigerant pressure stable. Use is recommended in very cold climates, in case of inverter compressors and in case of oversized condensers with respect to the real necessities of the units.

Chilled water

- Three-way modulating valves
- Inlet and outlet water temperature probes
- "Power Valve" kit: automatic adjustment and balancing valve of the water circuit, which allows to guarantee a constant water flow rate and monitor the efficiency of the unit in real time.

Heating

 Low thermal inertia electric batteries with differentiated stages regulation

Humidification

- Room humidity probe
- Flow humidity probe
- Submerged electrodes humidifier (also available with low conductivity cylinder)

SMARTNET

The innovative **SMARTNET** system revolutionises the local area network concept.

This system, using the modulation capabilities of its components, allows dividing the workload across all units in the local area network. Compared to the Duty Stand-by (n+1 o n+n) redundancy system, where the backup units were stopped waiting for a problem to arise,

Electronic expansion valve standard on all sizes.

Water presence detection

 Available as punctual probe or fabric belt (length 5 m) Allows to have an alarm in case water presence, even partial, is detected.

Mechanicals and structural

- Condensate discharge pump
- Condensation and humidifier drain pump
- Motorised damper on suction
- M5 (EU5) efficiency air filter on air supply
- Ventilated plenum with panelling for front or rear flow
- Ventilated plenum with panelling for downflow (installation above raised floor)
- Panels with "sandwich" counter-panels (available on request on some models only)
- Panels with increased soundproof upholstery (available on request on some models only)

Flectrical

- The unit has a standard power supply $400V \sim 3N$ 50Hz. The following voltages are available as an alternative: $400V \sim 3N$ 60Hz, $460V \sim 3$ 60Hz, $380V \sim 3N$ 60Hz
- Electric power supply line without neutral
- "Basic" version automatic transfer switch (ATS)
- Advanced" version automatic transfer switch (ATS)

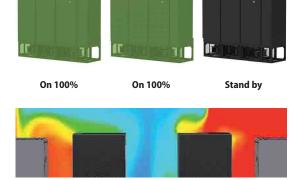
Regulation

- Constant flow rate ventilation adjustment
- Constant pressure ventilation adjustment
- Local area network configuration and cable
- User terminal for remote installation
- For further details refer to the technical documentation or to the selection program.

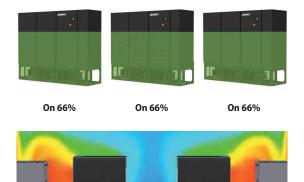
the SMARTNET system allows to maintain the units connected on the network always active with various advantages:

- greater efficiency of the units with partial loads;
- optimal air distribution, eliminating the risk of environment hotspots;
- internal system redundancy,

DUTY / STAND-BY



SMARTNET



TECHNICAL DATA

GXU: downwards airflow - direct expansion with air or water condensation

| | | GXU 932 | GXU 1342 |
|---------------------------|-------|---------|----------------------|
| Cooling performances (1) | | | |
| Total cooling capacity | kW | 91,2 | 130,5 |
| Sensible cooling capacity | kW | 77,5 | 121,2 |
| EER (2) | W/W | 3,70 | 3,81 |
| Fans | | | |
| Туре | type | | Plug-fan EC inverter |
| Air flow rate | m³/h | 18000 | 31500 |
| Refrigerant circuit | | | |
| Number | no. | 2 | 2 |
| Sound data | | | |
| Sound pressure (3) | dB(A) | 56 | 61 |
| Electric data | | | |
| Power supply | | | 400V ~ 3N 50Hz |

⁽¹⁾ Condensation temperature 45 °C; incoming air 24 °C / 45 % u.r.; external static pressure: 30Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

GWU: downwards airflow - with chilled water

| | | GWU 070 | GWU 150 | GWU 230 | GWU 300 |
|---------------------------|-------|----------------------|---------|---------|---------|
| Cooling performances (1) | | | | | |
| Total cooling capacity | kW | 58,6 | 96,4 | 143,6 | 208,8 |
| Sensible cooling capacity | kW | 49,0 | 79,4 | 118,0 | 184,3 |
| EER (2) | W/W | 31,83 | 46,92 | 62,41 | 33,68 |
| Fans | | | | | |
| Туре | type | Plug-fan EC inverter | | | |
| Air flow rate | m³/h | 11000 | 17600 | 25800 | 45200 |
| Refrigerant circuit | | | | | |
| Number | no. | 2 | 2 | 2 | 2 |
| Sound data | | | | | |
| Sound pressure (3) | dB(A) | 58 | 55 | 56 | 62 |
| Electric data | • | | | | |
| Power supply | | | 400V ~ | 3N 50Hz | - |

⁽¹⁾ Incoming air 24 °C / 45 % r.h.; water 7 °C / 12 °C; external static pressure: 30 Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system.
(2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers).
(3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

| | GWU 150 XH | GWU 230 XH |
|-------|----------------------------------|---|
| | | |
| kW | 113,2 | 222,9 |
| kW | 93,1 | 178,2 |
| W/W | 55,78 | 79,32 |
| | | |
| type | Plu | ug-fan EC inverter |
| m³/h | 20400 | 36000 |
| | | |
| no. | 2 | 2 |
| | | |
| dB(A) | 57 | 63 |
| | | |
| | | 400V ~ 3N 50Hz |
| | kW W/W type m³/h no. | kW 93,1 W/W 55,78 type PI m³/h 20400 no. 2 dB(A) 57 |

⁽¹⁾ Incoming air 24 °C / 45 % r.h.; water 7 °C / 12 °C; external static pressure: 30 Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

DOWNWARDS FLOW CONFIGURATIONS



Standard execution for perimeter installation inside Data Centres: the height of the raised flooring must be minimum 550 mm.



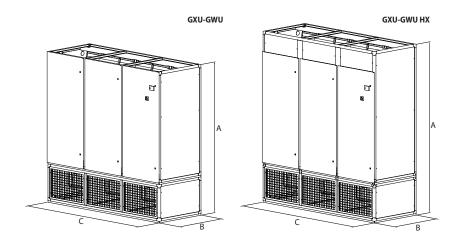
Execution for perimeter installation inside Data Centre. In this case, the sub-base side closure panels must be installed above the flooring. It is in any case essential to make sure that the height of the ceiling allows good air intake.



Execution for installation outside Data Centre, without raised flooring and rear delivery. In this case, the sub-base side closure panels and rear delivery grilles. Installation of the plenum with the rear return system is optional, if there is no channelling system.

DIMENSIONS

Empty weight



| | | | GXU 932 | | | GXU 1342 | |
|------------------------|----|---------|---------|------------|---------|------------|---------|
| Dimensions and weights | | | | | | | |
| A | mm | | 1990 | | | 1990 | |
| В | mm | | 921 | | | 921 | |
| C | mm | | 2390 | | | 3290 | |
| Empty weight | kg | | 870 | | | 1000 | |
| | | GWU 070 | GWU 150 | GWU 150 XH | GWU 230 | GWU 230 XH | GWU 300 |
| Dimensions and weights | | | | | | | |
| A | mm | 1990 | 1990 | 2350 | 1990 | 2350 | 1990 |
| В | mm | 921 | 921 | 1050 | 921 | 1050 | 921 |
| ſ | mm | 1320 | 1840 | 1840 | 2740 | 2740 | 4020 |

640

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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Aermec S.p.A. Via Roma, 996 - 37040 Bevilacqua (VR) - Italia Tel. 0442633111 - Telefax 044293577 www.aermec.com

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R 20-361

Precision Air Conditioners

Cooling capacity 10 ÷ 37 kW



- "In row" installation between the server lines
- Horizontal air flow to offer an effective localised cooling
- Rear and front accessibility for simplified maintenance
- Front and side air flow





Last generation control panel

DESCRIPTION

Precision air conditioners of the R **Series** have construction features and sizes so that they can be installed next to the servers of the Data Center.

CONFIGURATIONS

RXA: air conditioners with delivery downwards and direct expansion with air or water condensation.

RXU: air conditioners with air delivery horizontal with cooled water. Both configurations are available in compact version with reduced depth.

FEATURES

Precision air conditioners in the ${\bf R}$ series are designed and built to have the same dimensions as the racks, rear intake from the warm corridor and front delivery towards the cold corridor.

Two Sources

The Twin Sources system ensures cooling continuity in case of unavailability, for whatever reason, of the primary source: overhead, maintenance, night or seasonal stop or stop for any emergency.

This system includes the assembly inside the air conditioner of a second cooling source, complete with its regulation and completely independent from the primary one.

They only share the aluminium finned pack, allowing both a high thermal exchange efficiency.

Free Cooling

This system employs external air, a renewable energy source, for cooling the Free Cooling water circuit by an external dry cooler.

The Free Cooling circuit works in place of, or along, the mechanical cooling with direct expansion.

STRUCTURE

The structure consists of a steel frame painted with dark grey epoxy powders (RAL7024) guaranteeing a durable finish. Acoustic insulation self-extinguishing panels covered with anti-friction film.

FAN9

Centrifugal fans with backward curved blades (plug fans) with EC motor directly coupled to the electronic control to minimize power consumption and noise emissions.

FILTERS

Corrugated baffle filters, not regenerable, self-extinguishing, G4 efficiency class (according to EN 779).

Differential pressure switch (STANDARD) for dirty filter alarm.

The control of filter dirt conditions via Modbus is available as an option.

ELECTRONIC CONTROLLER

The evolved electronic adjustment maximises energy saving and optimizes all operating modes of the units, both direct expansion and chilled water.

- The controller allows to supervise all main components of the unit, with more than 50 different variables that guarantee real time monitoring of all operating cycles.
- The units have a standard RS485 Modbus board, BACnet, LonWorks and SNMP are available as options, for a simple and quick interface with BMS (Building Management System) supervising systems.
- View of all operating parameters in 8 languages.

CHILLED WATER COILS

Only for U configurations.

Large surface batteries, positioned in such a way as to optimise airflow and heat transfer, made of refrigerating quality copper tubes with aluminium louvers mechanically merged, fitted with motorised 3way valve (2way is also available in the selection process).

COMPRESSORS

Only for A configurations

Single circuit configurations with DC brushless compressor with inverter, which allows to optimise the provided power guaranteeing a low electrical absorption.

These units work with R410A refrigerant, which does not damage the ozone layer.

Electronic expansion valve standard on all sizes.

ACCESSORIES

Direct expansion

- Electric power supply line for remote condenser
- Electric power supply line with speed adjustment for remote condenser
- Condenser adjustment with 0-10V signal for remote condenser with EC fans
- Water condenser
- Condensate adjustment pressure valve
- "LAC" (Low Ambient Control) valve has the function of bypassing the condenser, injecting warm gas in the liquid piping, to maintain the refrigerant pressure stable. Use is recommended in very cold climates, in case of inverter compressors and in case of oversized condensers with respect to the real necessities of the units.

Chilled water

- Two ways modulating valves
- Inlet and outlet water temperature probes
- "Power Valve" kit: automatic adjustment and balancing valve of the water circuit, which allows to guarantee a constant water flow rate and monitor the efficiency of the unit in real time.

Heating

Single stage electric coils with low thermal inertia.

Humidification

- Room humidity probe
- Flow humidity probe

SMARTNET

The innovative **SMARTNET** system revolutionises the local area network concept.

This system, using the modulation capabilities of its components, allows dividing the workload across all units in the local area network. Compared to the Duty Stand-by (n+1 o n+n) redundancy system, where the backup units were stopped waiting for a problem to arise,

Submerged electrodes humidifier (also available with low conductivity cylinder)

Water presence detection

 Available as punctual probe or fabric belt (length 5 m) Allows to have an alarm in case water presence, even partial, is detected.

Mechanicals and structural

- Condensate discharge pump
- M5 (EU5) efficiency air filter on air supply
- Closed front panel for side flow
- Closed side panels for front flow
- Wheels for movement

Electrical

- The unit has a standard power supply 400V \sim 3N 50Hz. The following voltages are available as an alternative: 400V \sim 3N 60Hz, 230V \sim 3 60Hz, 380V \sim 3N 60Hz
- Electric power supply line without neutral
- "Basic" version automatic transfer switch (ATS)
- Advanced" version automatic transfer switch (ATS)

Regulation

- Constant flow rate ventilation adjustment
- Constant pressure ventilation adjustment
- Local area network configuration and cable
- User terminal for remote installation
- For further details refer to the technical documentation or to the selection program.

the SMARTNET system allows to maintain the units connected on the network always active with various advantages:

- greater efficiency of the units with partial loads;
- optimal air distribution, eliminating the risk of environment hotspots:
- internal system redundancy,

On 100% On 100% Stand by





TECHNICAL DATA

RXA: horizontal air delivery - direct expansion with air or water condensation

| | | RXA 121 | RXA 201 | RXA 231 | RXA 361 |
|---------------------------|-------|----------------------|---------|---------|---------|
| Cooling performances (1) | | | | | |
| Total cooling capacity | kW | 9,6 | 19,3 | 20,8 | 32,5 |
| Sensible cooling capacity | kW | 9,6 | 15,1 | 17,2 | 26,3 |
| EER (2) | W/W | 3,14 | 3,09 | 3,36 | 3,43 |
| Fans | | | | | |
| Туре | type | Pluq-fan EC inverter | | | |
| Air flow rate | m³/h | 3200 | 3600 | 6000 | 6600 |
| Refrigerant circuit | | | | | |
| Number | no. | 1 | 1 | 1 | 1 |
| Sound data | | | | | |
| Sound pressure (3) | dB(A) | 51 | 54 | 54 | 57 |
| Possible configurations | | | | | |
| Free Cooling | | - | - | Yes | - |
| Two Sources | | - | - | Yes | - |
| Electric data | | | | | |
| Power supply | | | 400V ~ | 3N 50Hz | |

- (1) Condensation temperature 45 °C; incoming air 24 °C / 45 % u.r.; external static pressure: 30Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

RXU: horizontal air delivery - cooled water

| | | RXU 20 | RXU 40 |
|---------------------------|-------|--------|----------------------|
| Cooling performances (1) | | | |
| Total cooling capacity | kW | 24,9 | 37,8 |
| Sensible cooling capacity | kW | 22,2 | 33,9 |
| EER (2) | W/W | 22,81 | 27,78 |
| Fans | | | |
| Туре | type | | Plug-fan EC inverter |
| Air flow rate | m³/h | 5600 | 9000 |
| Refrigerant circuit | | | |
| Number | no. | 1 | 1 |
| Sound data | | | |
| Sound pressure (3) | dB(A) | 54 | 62 |
| Possible configurations | | | |
| Free Cooling | | - | - |
| Two Sources | | - | Yes |
| Electric data | | | |
| Power supply | | | 400V ~ 3N 50Hz |

- (1) Incoming air 24°C / 45 % r.h.; water 7°C / 12°C; external static pressure: 30 Pa. Stated performances do not take into account the heat generated by the fans which must be added to the heat load of the system. (2) EER: Energy Efficiency Ratio; total cooling capacity / input power to the compressors + the power of fans (excluding air condensers). (3) Sound pressure: stated data 2m away, in free field according to UNI EN ISO 3744:2010

HORIZONTAL FLOW CONFIGURATIONS



Standard execution for "In-row" installation with front and side air delivery (RXA 121-201, RXU 20).



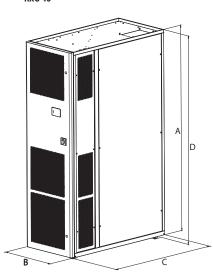
Execution for "In-row" installation with only front air delivery (RXA 231-361, RXU 40).

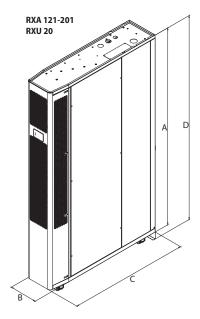


Execution for "In-row" installation with only side air delivery (RXA 231-361, RXU 40).

DIMENSIONS

RXA 231-361 RXU 40





| | | RXA 121 | RXA 201 | RXA 231 | RXA 361 |
|------------------------|----|---------|---------|---------|---------|
| Dimensions and weights | | | | | |
| A | mm | 1975 | 1975 | 1985 | 1985 |
| В | mm | 300 | 300 | 600 | 600 |
| C | mm | 1200 | 1200 | 1222 | 1222 |
| D | mm | 2045 | 2045 | 2015 | 2015 |
| Empty weight | kg | 200 | 215 | 215 | 215 |

| | | RXU 20 | RXU 40 |
|------------------------|----|--------|--------|
| Dimensions and weights | | | |
| A | mm | 1975 | 1985 |
| В | mm | 300 | 600 |
| (| mm | 1200 | 1222 |
| D | mm | 2045 | 2015 |
| Empty weight | kg | 120 | 190 |



ROOM AIR CONDITIONERS

A complete range of units designed to meet all climate control requirements: Aermec the answer to air conditioning.

A vast choice not only in terms of models but also alternatives and possibilities: state-of-the-art technology such as the inverter that optimises performance at all times according to the set temperature to achieve maximum energy saving; versatile installation options to solve all problems of space.

Quality design and materials, cooling and heating power suited to cover all requirements both in the residential and commercial sector, exclusive elegant design complete the range features, ranking Aermec among the leaders on the market.

| ROOM AIR CO | ONDITIONERS | (m³/h) | (kW) | (kW) | Page |
|--------------------|---|--|--|--|--|
| Monobloc | | | | | |
| FK | Monobloc window | | 2,7-3,6 | | 830 |
| CMP (COMPACT) | Monobloc without outdoor unit | | 2,35 | 2,36 | 833 |
| PSL | Portable air conditioner | | 2,6-3,4 | 2,3-2,7 | 836 |
| Monosplit | | | | | |
| SPG | Monosplit | | 2,5-6,2 | 2,8-6,5 | 839 |
| SGE | Monosplit | | 2,77-5,86 | 2,93-6,00 | 844 |
| SCG | Monosplit | | 7,2-12,5 | 7,9-13,5 | 848 |
| CKG | Monosplit | | 2,7-6,6 | 2,9-6,8 | 852 |
| LPG | Monosplit | | 3,5-16,0 | 4,0-17,0 | 857 |
| LCG | Monosplit | | 3,5-16,0 | 4,0-17,0 | 866 |
| MVAS | Monosplit high head duct | | 22,4-28,0 | 24,0-30,0 | 876 |
| Multisplit | | | | | |
| MLG | Multisplit | | 4,1-12,0 | 4,4-13,0 | 879 |
| MPG | Multisplit | | 4,1-8,0 | 4,4-9,5 | 896 |
| MGE | Multisplit | | 4,1-7,9 | 4,4-8,2 | 913 |
| | Monobloc FK CMP (COMPACT) PSL Monosplit SPG SGE SCG CKG LPG LCG MVAS Multisplit MLG MPG | FK Monobloc window CMP (COMPACT) Monobloc without outdoor unit PSL Portable air conditioner Monosplit SPG Monosplit SCG Monosplit CKG Monosplit LPG Monosplit LCG Monosplit MVAS Monosplit MVAS Monosplit high head duct Multisplit MLG Multisplit MPG Multisplit | ROOM AIR CONDITIONERS(m³/h)MonoblocMonobloc window-FKMonobloc without outdoor unit-CMP (COMPACT)Monobloc without outdoor unit-PSLPortable air conditioner-SPGMonosplit-SGEMonosplit-SCGMonosplit-CKGMonosplit-LPGMonosplit-LCGMonosplit-LCGMonosplit high head duct-MVASMonosplit high head duct-MUItisplitMultisplit-MLGMultisplit-MPGMultisplit- | ROOM AIR CONDITIONERS (m³/h) (kW) Monobloc FK Monobloc window - 2,7-3,6 CMP (COMPACT) Monobloc without outdoor unit - 2,35 PSL Portable air conditioner - 2,6-3,4 Monosplit - 2,5-6,2 SGE Monosplit - 2,77-5,86 SCG Monosplit - 7,2-12,5 CKG Monosplit - 2,7-6,6 LPG Monosplit - 3,5-16,0 LCG Monosplit high head duct - 3,5-16,0 MVAS Monosplit high head duct - 2,24-28,0 Multisplit - 4,1-12,0 MLG Multisplit - 4,1-12,0 MPG Multisplit - 4,1-8,0 | Monobloc FK Monobloc window - 2,7-3,6 - CMP (COMPACT) Monobloc without outdoor unit - 2,35 2,36 PSL Portable air conditioner - 2,6-3,4 2,3-2,7 Monosplit - 2,5-6,2 2,8-6,5 SGE Monosplit - 2,77-5,86 2,93-6,00 SCG Monosplit - 2,7-6,6 2,9-6,8 LPG Monosplit - 2,7-6,6 2,9-6,8 LPG Monosplit - 3,5-16,0 4,0-17,0 LCG Monosplit high head duct - 3,5-16,0 4,0-17,0 MVAS Monosplit high head duct - 2,2-4-28,0 24,0-30,0 Multisplit - 4,1-12,0 4,4-13,0 MPG Multisplit - 4,1-8,0 4,4-9,5 |











FK

Monobloc window

Cooling capacity 2,7 ÷ 3,6 kW



- New R32 ecological refrigerant gas.
- Flush-mounting installation on the window.
- Plug & Play.





DESCRIPTION

The packed air-conditioners of the FK range, for flush-mounting window installation, are ideal for use in commercial contexts such as shops, hotels, offices, laboratories and prefabricated garages.

FEATURES







Inner and outer side

- Remote control and holder standard supply with each unit.
- Fans with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Clean filter signal function.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- Inner side 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- **Sleep** night time function well-being program.
- DC inverter rotary compressor.

General features

- $-\!\!\!-$ New R32 ecological refrigerant gas with low GWP.
- Monobloc Plug & Play unit equipped with power supply with schuko plug.
- Operating mode: cooling, dehumidification and fan only.
- Condensate discharge tub included.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.

INSTALLATION TYPE



PERFORMANCE SPECIFICATIONS

| | | FK260 | FK360 |
|------------------------------|-----------|-------|-------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 2,70 | 3,65 |
| Cooling input power (1) | kW | 0,78 | 1,03 |
| EER (2) | W/W | 3,45 | 3,54 |
| Moisture removed | l/h | 1,0 | 1,6 |
| Maximum cooling performances | | | |
| Cooling input current | A | 3,5 | 4,6 |
| Seasonal efficiency | | | |
| SEER | W/W | 5,20 | 5,40 |
| Efficiency energy class (3) | | A | A |
| Pdesignc | kW | 2,7 | 3,7 |
| Annual power consumption | kWh/annum | 182 | 240 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication. (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

GENERAL DATA

| | | FK260 | FK360 |
|-------------------------|----|-----------------|-----------------|
| Electric data | | | |
| Rated power input (1) | kW | 1,1 | 1,3 |
| Rated current input (1) | A | 5,5 | 6,5 |
| Power supply | | | |
| Power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

(1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

INNER SIDE

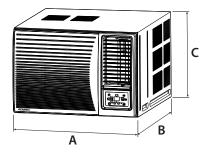
| | | FK260 | FK360 |
|---------------------------|-------|----------------------|----------------------|
| Inner side | | | |
| Type of fan | Туре | Inverter centrifugal | Inverter centrifugal |
| Inner side air flow rate | | | |
| Maximum | m³/h | 400 | 480 |
| Average | m³/h | 360 | 430 |
| Minimum | m³/h | 320 | 380 |
| Inner side sound pressure | | | |
| Maximum | dB(A) | 50,0 | 50,0 |
| Average | dB(A) | 48,0 | 48,0 |
| Minimum | dB(A) | 46,0 | 46,0 |
| Inner side sound power | | | |
| Maximum | dB(A) | 59,0 | 59,0 |
| Average | dB(A) | 57,0 | 57,0 |
| Minimum | dB(A) | 55,0 | 55,0 |

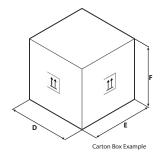
OUTER SIDE

| | | FK260 | FK360 |
|----------------------------|----------|-----------------|-----------------|
| Outer side | | | |
| Type of fan | Туре | Inverter axial | Inverter axial |
| Outer side air flow rate | | | |
| Maximum | m³/h | 800 | 1200 |
| Outer side sound power | | | |
| Maximum | dB(A) | 65,0 | 65,0 |
| Average | dB(A) | 63,0 | 63,0 |
| Minimum | dB(A) | 61,0 | 61,0 |
| Outer side sound pressure | | | |
| Maximum | dB(A) | 56,0 | 56,0 |
| Average | dB(A) | 54,0 | 54,0 |
| Minimum | dB(A) | 52,0 | 52,0 |
| Compressor | | | |
| Туре | type | Inverter rotary | Inverter rotary |
| Compressor | | | |
| Refrigerant | type | R32 | R32 |
| Refrigerant charge (1) | kg | 0,5 | 0,6 |
| Compressor | | | |
| Potential global heating | GWP | 675kgCO₂eq | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,34 | 0,43 |
| Outer side | <u> </u> | | |
| Protection rating | | IPX4 | IPX4 |
| | | | |

⁽¹⁾ The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

DIMENSIONS AND WEIGHTS





| | | FK260 | FK360 |
|------------------------|----|-------|-------|
| Dimensions and weights | | | |
| A | mm | 560 | 660 |
| В | mm | 710 | 700 |
| (| mm | 375 | 428 |
| D | mm | 623 | 739 |
| E | mm | 806 | 793 |
| F | mm | 425 | 505 |
| Net weight | kg | 43,00 | 50,00 |
| Weight for transport | kg | 47,00 | 54,00 |









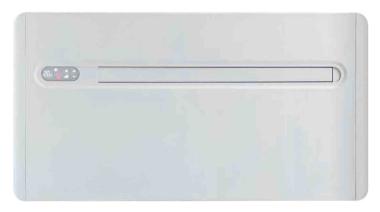
CMP

Monobloc without outdoor unit

Cooling capacity 2,35 kW Heating capacity 2,36 kW



- Two holes, no outdoor units.
- Modern design to blend with all furnishing styles.
- Extremely thin, with a depth of just 165 mm.







DESCRIPTION

The air-conditioners of the CMP range are of the single-block type and are ideal for heating, cooling, dehumidification or ventilation only, whether in the home or the office.

The absence of an outdoor unit permits installation in all those cases where architectural restraints prevent the positioning of a split air-conditioner.

The unit boasts a compressor and a fan with inverter technology.

FEATURES

Unit

Indoor unit designed for installation on internal walls.

- No need for an outdoor unit just make two 162 mm holes in the outer wall so the air-conditioner can exchange heat with the external environment.
- Folding grilles included.
- On-board control panel with display and soft-touch keys.
- Included remote control.

Cooling operation with outside temperatures up to 35 $^{\circ}$ C. Heating operation with outdoor temperatures down to 7 $^{\circ}$ C.







Folding grilles

With two folding grilles which, activated by the inlet and outlet air, open when the machine is working and close when the machine is switched off

In this way they guarantee enhanced indoor comfort, less dust, noise and pollution, reduced maintenance and are even less visible from the outside.

Control panel

The on-board control panel with display and soft-touch keys allows you to set the required temperature set-point easily and accurately.

The "heating" function is deactivated by a simple intervention on the control panel: the device then works in "cooling only" mode, without requiring the condensate discharge tube.

The air delivery fin is easily orientated by means of the relative key.

Remote control

Handy remote control that's not too bulky.

Fitted with a practical magnet so it can be fixed to the unit.

All the control panel functions are available via the remote control too.

GENERAL FEATURES

- Condensate drip tray constantly pre-heated in the winter during heat pump operation, without any risk of the water freezing.
- Operating mode: cooling, dehumidification and fan only.
- Particularly quiet operation.
- Microproccessor control.

ACCESSORIES AS STANDARD

- Condensate drip.
- Two folding grilles.
- Remote control.

PERFORMANCE SPECIFICATIONS

| | | CMP23I | |
|---|-----------|--------|--|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 2,35 | |
| Cooling input power (1) | kW | 0,73 | |
| EER (2) | W/W | 3,22 | |
| Maximum cooling performances | | | |
| Cooling capacity | kW | 3,10 | |
| Nominal cooling performances | | | |
| Moisture removed | l/h | 1,1 | |
| Seasonal efficiency | | | |
| Efficiency energy class (3) | | A+ | |
| Annual power consumption | kWh/annum | 425 | |
| Nominal heating performances | | | |
| Heating capacity (4) | kW | 2,36 | |
| Heating input power (4) | kW | 0,72 | |
| COP (2) | W/W | 3,28 | |
| Maximum heating performances | | | |
| Heating capacity | kW | 3,05 | |
| Seasonal efficiency (temperate climate) | | | |
| Efficiency energy class (3) | | A | |

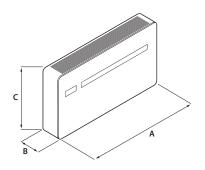
- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

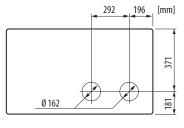
GENERAL DATA

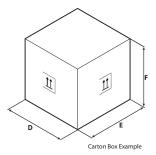
| | | CMP23I | |
|---|-------|----------------------|--|
| Fan | | | |
| Туре | type | Inverter centrifugal | |
| Number | no. | 1 | |
| Inner side air flow rate | | | |
| Maximum | m³/h | 400 | |
| Average | m³/h | 320 | |
| Minimum | m³/h | 270 | |
| Outer side air flow rate | | | |
| Maximum | m³/h | 480 | |
| Average | m³/h | 390 | |
| Minimum | m³/h | 340 | |
| Compressor | | | |
| Number | no. | 1 | |
| Refrigerant | type | R410A | |
| Refrigerant charge (1) | kg | 0,6 | |
| Potential global heating | GWP | 2088kgCO₂eq | |
| Sound data calculated in cooling mode (2) | | | |
| Sound power level | dB(A) | 58,0 | |
| Sound pressure level (1,5 m) | dB(A) | 46,0 | |

- (1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.
 (2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS AND WEIGHTS







| | | CMP23I | |
|------------------------|----|--------|--|
| Dimensions and weights | | | |
| A | mm | 1030 | |
| В | mm | 170 | |
| C | mm | 555 | |
| D | mm | 1100 | |
| E | mm | 260 | |
| F | mm | 660 | |
| Net weight | kg | 48,00 | |
| Weight for transport | kg | 49,00 | |













PSL

Portable air conditioner

Cooling capacity 2,6 ÷ 3,4 kW Heating capacity 2,3 ÷ 2,7 kW



- New R290 natural refrigerant gas.
- · Reversible heat pump.
- Compact, manoeuvrable and silent.
- Modern design to blend with all furnishing styles.
- Special coil with fin blue coating.







DESCRIPTION

PSL portable air conditioner, ideal for heating, cooling, dehumidification or ventilation only both at home and at the office.

Adapts to any kind of decor, thanks to its compact and elegant design; it is mounted on wheels and can be used in multiple rooms, and is easily transportable and installable.

Equipped with a specific tank to collect the moisture removed from the environment during cooling, heating or dehumidification.

The on-board control panel with display, allows to easily and precisely set the desired temperature set-points.

FEATURES







Operation

The cooled, heated and/or dehumidified air exits the front grille and directed vertically by movable louvers. The air to be treated is drawn through filters from the rear. The hot air is expelled through a hose that is attached by means of a special flange on the rear of the portable air conditioner unit. The air filters are easy to remove and wash.

Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



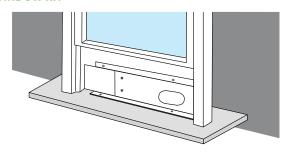
GENERAL FEATURES

- Remote control standard supply with each indoor unit.
- New R290 natural refrigerant gas.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Regenerable air filter easy to remove and clean.
- Particularly quiet operation.
- $\boldsymbol{--}$ Timer for programming switch-off and switch-on.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- **iFeel** function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Auto-restart function.

ACCESSORIES AS STANDARD

- Hot air expulsion hose with special joints and collectors.
- Condensate discharge hose, discharge tap and relative fixing accessories.
- Window kit and protection mesh to connect the hot air expulsion hose.
- Cap for the wall and connection for the hot air expulsion hose.
- Remote control.

WINDOW KIT



FLEXIBLE PIPE

| | | PSL250 | PSL350 |
|----------------|----|--------|--------|
| Flexible pipe | | | |
| Minimum length | mm | 270 | 270 |
| Maximum length | mm | 1500 | 1500 |

PERFORMANCE SPECIFICATIONS

| _ | | PSL250 | PSL350 |
|--|-----|--------|--------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 2,60 | 3,40 |
| EER (2) | W/W | 3,10 | 2,60 |
| Seasonal efficiency | | | |
| Efficiency energy class (3) | | A | A |
| Nominal heating performances | | | |
| Heating capacity (4) | kW | 2,30 | 2,70 |
| COP (2) | W/W | 3,10 | 2,80 |
| Seasonal efficiency (temperate climate |) | | |
| Efficiency energy class (3) | | A+ | A+ |

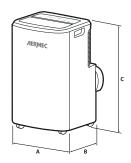
- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication. (3) Data in accordance with Delegated Regulation (EU) No. 626/2011. (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

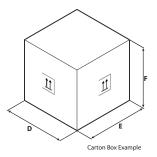
GENERAL DATA

| | | PSL250 | PSL350 |
|-------------------------------|----------|---------------------------------|---------------------------------|
| Electric data | | | |
| Rated power input (1) | kW | 1,0 | 1,5 |
| Rated current input (1) | A | 4,6 | 8,0 |
| Fan | | | |
| Туре | type | Centrifugal on/off | Centrifugal on/off |
| Air flow rate | | | |
| Maximum | m³/h | 390 | 390 |
| Average | m³/h | 360 | 360 |
| Minimum | m³/h | 330 | 330 |
| Sound power | | | |
| Maximum | dB(A) | 64,0 | 64,0 |
| Average | dB(A) | 63,5 | 63,5 |
| Minimum | dB(A) | 63,0 | 63,0 |
| Sound pressure (2) | | | |
| Maximum | dB(A) | 35,0 | 35,0 |
| Average | dB(A) | 33,0 | 33,0 |
| Minimum | dB(A) | 31,0 | 31,0 |
| Compressor | | | |
| Туре | type | Rotary on/off | Rotary on/off |
| Number | no. | 1 | 1 |
| Refrigerant | type | R290 | R290 |
| Refrigerant charge (3) | kg | 0,2 | 0,2 |
| Power supply cable | | | |
| Type of power supply cable | Туре | 3G1,0 mm²/L= 2,85 m/Schuko plug | 3G1,0 mm2/L= 2,85 m/Schuko plug |
| Power supply | | | |
| Power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz |
| Indoor unit | <u> </u> | | |
| Condensate discharge diameter | mm | 13,5 | 13,5 |

- (1) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
 (3) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

DIMENSIONS AND WEIGHTS





| | | PSL250 | PSL350 |
|------------------------|----|--------|--------|
| Dimensions and weights | | | |
| 4 | mm | 476 | 476 |
| 3 | mm | 385 | 385 |
| - | mm | 710 | 710 |
|) | mm | 545 | 545 |
| | mm | 435 | 435 |
| | mm | 885 | 885 |
| let weight | kg | 33,00 | 34,00 |
| Weight for transport | kg | 38,00 | 39,00 |



















SPG Monosplit

Cooling capacity 2,5 \div 6,2 kW Heating capacity 2,8 \div 6,5 kW



- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- Modern design to blend with all furnishing styles.
- Special coil with fin blue coating.
- Indoor units compatible with multisplit systems.







DESCRIPTION

The monosplit air conditioners of the SPG range are combined with SPG_W (Wall) indoor units for wall installation.

Universal indoor units: some indoor units can be combined with both multisplit outdoor units of the series MPG and monosplit outdoor units of the series SPG:

| | Indoor units SPG_W | | | | | |
|-----------------------------|---|---|---|---|---|--|
| | SPG200W SPG250W SPG350W SPG500W SPG700W | | | | | |
| Monosplit outdoor units SPG | | • | • | • | • | |
| Multisplit utdoor units MPG | • | • | • | • | • | |

The external unit boasts a compressor and a fan with inverter technology.

FEATURES







Indoor unit

Wall indoor unit designed to be installed on indoor walls.

- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- $\boldsymbol{--}$ Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.

- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- **iFeel** function for activating the ambient temperature probe inside the remote control, for improved comfort.

Outdoor unit

Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

— Compressor and fan with DC inverter technology.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







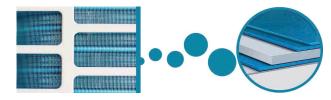
Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.



Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRCA: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

* The CC2 centralised control can manage up to 36 SPG system.

IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

DCK: Remote Contact Kit. This accessory allows you to switch the system on and off using an external contact.

WIFIKIT: Plug & Play module to be installed in the indoor unit for Wi-Fi control. (Cable length 250 mm)

WIFIKITO1: Plug & Play module to be installed in the indoor unit for Wi-Fi control, equipped with Bluetooth® connection to ensure a better connection with smart devices. (Cable length 250 mm)



ACCESSORIES COMPATIBILITY

| Accessory | SPG500W | | | SPG700W | | |
|----------------------------|---------|---------|---------|---------|---------|--|
| CC2 (1) | • | | | • | | |
| WRCA (1) | | • | | | | |
| (1) Auto-restart function. | | | | | | |
| Accessory | | SPG500W | | | | |
| IC-2P | | • | | • | | |
| Accessory | SPG200W | SPG250W | SPG350W | SPG500W | SPG700W | |
| DCK | | | | • | • | |
| WIFIKIT | • | • | • | • | • | |
| WIFIKIT01 | • | • | • | • | • | |

PERFORMANCE SPECIFICATIONS

| Indoor unit | | SPG250W | SPG350W | SPG500W | SPG700W |
|---|-----------|---------|---------|---------|---------|
| Outdoor unit | | SPG250 | SPG350 | SPG500 | SPG700 |
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,50 | 3,20 | 4,60 | 6,20 |
| Cooling input power (1) | kW | 0,72 | 0,99 | 1,36 | 1,77 |
| EER (2) | W/W | 3,47 | 3,23 | 3,39 | 3,50 |
| Moisture removed | l/h | 0,6 | 1,4 | 1,8 | 1,8 |
| Minimum cooling performances | | | | | |
| Cooling capacity | kW | 0,50 | 0,90 | 1,00 | 1,60 |
| Cooling input power | kW | 0,15 | 0,22 | 0,42 | 0,45 |
| Maximum cooling performances | | | | | |
| Cooling capacity | kW | 3,25 | 3,60 | 5,30 | 6,90 |
| Cooling input power | kW | 1,30 | 1,30 | 1,80 | 2,20 |
| Cooling input current | A | 3,2 | 4,4 | 5,9 | 7,9 |
| Seasonal efficiency | | | | | |
| Annual power consumption | kWh/annum | 135 | 184 | 251 | 319 |
| SEER | W/W | 6,50 | 6,10 | 6,40 | 6,80 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ |
| Nominal heating performances | | | | | |
| Heating capacity (4) | kW | 2,80 | 3,40 | 5,20 | 6,50 |
| Heating input power (4) | kW | 0,75 | 0,91 | 1,34 | 1,65 |
| COP (2) | W/W | 3,73 | 3,71 | 3,88 | 3,95 |
| Minimum heating performances | | | | | |
| Heating capacity | kW | 0,50 | 0,90 | 1,00 | 1,30 |
| Heating input power | kW | 0,14 | 0,22 | 0,42 | 0,45 |
| Maximum heating performances | | | | | |
| Heating capacity | kW | 3,50 | 4,00 | 5,65 | 7,91 |
| Heating input power | kW | 1,50 | 1,50 | 1,90 | 2,20 |
| Heating input current | A | 3,2 | 4,0 | 5,8 | 7,3 |
| Seasonal efficiency (temperate climate) | | | | | |
| Annual power consumption | kWh/annum | 875 | 945 | 1295 | 1645 |
| Efficiency energy class (3) | | A+ | A+ | A+ | A+ |
| SCOP | W/W | 4,00 | 4,00 | 4,00 | 4,00 |
| | - | · | | · | · |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT DATA

| | | SPG250W | SPG350W | SPG500W | SPG700W |
|-------------------------------|-----------------|---------|------------|------------|---------|
| Indoor unit | | | | | |
| Type of fan | Туре | | Inverter o | entrifugal | |
| Air flow rate | | | | - | |
| Turbo | m³/h | 500 | 590 | 850 | 1100 |
| Maximum | m³/h | 470 | 520 | 800 | 950 |
| Average | m³/h | 390 | 400 | 700 | 750 |
| Minimum | m³/h | 270 | 320 | 600 | 650 |
| Sound power (1) | | | | | |
| Turbo | dB(A) | 55,0 | 56,0 | 54,0 | 61,0 |
| Maximum | dB(A) | 48,0 | 49,0 | 52,0 | 58,0 |
| Average | dB(A) | 44,0 | 45,0 | 48,0 | 52,0 |
| Minimum | dB(A) | 34,0 | 38,0 | 44,0 | 49,0 |
| Sound pressure (1 m) (2) | | | | | |
| Turbo | dB(A) | 38,0 | 41,0 | 44,0 | 47,0 |
| Maximum | dB(A) | 36,0 | 37,0 | 42,0 | 44,0 |
| Average | dB(A) | 32,0 | 33,0 | 38,0 | 38,0 |
| Minimum | dB(A) | 22,0 | 26,0 | 34,0 | 35,0 |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 16,0 | 16,0 | 16,0 | 16,0 |
| Power supply | | | | | |
| Indoor unit power supply | 220-240V ~ 50Hz | | | | |

- (1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

OUTDOOR UNIT DATA

| | | SPG250 | SPG350 | SPG500 | SPG700 | |
|-------------------------------|-------|-----------------|--------|----------|--------|--|
| Outdoor unit | | | | | | |
| Type of fan | Туре | | Invert | er axial | | |
| Air flow rate | | | | | | |
| Maximum | m³/h | 1950 | 1950 | 1950 | 2800 | |
| Sound power (1) | | | | | | |
| Maximum | dB(A) | 62,0 | 64,0 | 63,0 | 67,0 | |
| Sound pressure (1 m) (2) | | | | | | |
| Maximum | dB(A) | 51,0 | 51,0 | 55,0 | 58,0 | |
| Compressor | | | | | | |
| Туре | type | Inverter rotary | | | | |
| Refrigerant | type | | R | 32 | | |
| Refrigerant charge | kg | 0,50 | 0,55 | 0,75 | 1,30 | |
| Potential global heating | GWP | | 675kg | gCO₂eq | | |
| Equivalent CO ₂ | t | 0,34 | 0,37 | 0,51 | 0,88 | |
| Outdoor unit | | | | | | |
| Condensate discharge diameter | mm | 16,0 | 16,0 | 16,0 | 16,0 | |

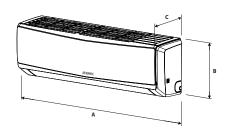
GENERAL DATA

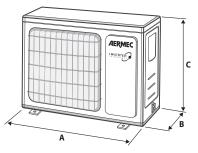
| Indoor unit | | SPG250W | SPG350W | SPG500W | SPG700W |
|--|-----------|-----------------|-----------------|-----------------|-----------------|
| Outdoor unit | | SPG250 | SPG350 | SPG500 | SPG700 |
| Electric data | | | | | |
| Rated power input (1) | kW | 1,5 | 1,5 | 1,9 | 2,2 |
| Rated current input (1) | A | 7,5 | 7,5 | 9,0 | 10,0 |
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") |
| Refrigerant to be added | g/m | 16 | 16 | 16 | 16 |
| Maximum refrigerant tube length | m | 15 | 15 | 25 | 25 |
| Maximum refrigerant line level difference | m | 10,0 | 10,0 | 10,0 | 10,0 |
| Power supply | | | | | |
| Power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

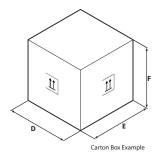
⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

DIMENSIONS AND WEIGHTS







| | | SPG250W | SPG350W | SPG500W | SPG700W |
|----------------------|----|---------|---------|---------|---------|
| Indoor unit | | | | | |
| A | mm | 696 | 770 | 972 | 1081 |
| В | mm | 251 | 251 | 300 | 325 |
| C | mm | 190 | 190 | 225 | 248 |
| D | mm | 747 | 822 | 1022 | 1137 |
| E | mm | 324 | 324 | 374 | 407 |
| F | mm | 262 | 262 | 299 | 334 |
| Net weight | kg | 7,50 | 8,50 | 13,50 | 16,50 |
| Weight for transport | kg | 9,00 | 10,00 | 16,00 | 19,50 |
| | | SPG250 | SPG350 | SPG500 | SPG700 |
| Outdoor unit | | | | | |
| A | mm | 732 | 732 | 732 | 873 |
| В | mm | 330 | 330 | 330 | 376 |
| C | mm | 550 | 550 | 555 | 555 |
| D | mm | 792 | 792 | 794 | 951 |
| E | mm | 393 | 393 | 376 | 431 |
| F | mm | 615 | 615 | 615 | 620 |
| · | | | | 27.00 | 27.00 |
| Net weight | kg | 25,00 | 25,00 | 27,00 | 37,00 |























SGE

Monosplit

Cooling capacity 2,8 ÷ 5,9 kW Heating capacity 2,9 ÷ 6,0 kW



- New R32 ecological refrigerant gas.
- · Air Purifiers (Cold Plasma).
- Possibility of Wi-Fi control.
- Innovative design sleek curved lines.
- Special coil with fin golden coating.









DESCRIPTION

The monosplit air conditioners of the SGE range are combined with SGE_W (Wall) indoor units for wall installation.

The external unit boasts a compressor with inverter technology.

FEATURES

Innovative design

SGE has an elegant and essential design. Its curved lines emphasize a kind of structure with innovative and functional style. The display with working parameters is elegantly integrated in the satin-finish cover and visible only when the unit is on.







Indoor unit

Wall indoor unit designed to be installed on indoor walls.

- Remote control standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- followMe function for activating the ambient temperature probe inside the remote control, for improved comfort.

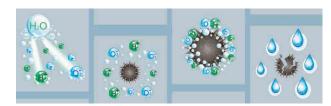
Outdoor unit

Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology. Compressor and fan with DC inverter technology.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.



Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Nethome Plus app

Using the specific accessory, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.









General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

ACCESSORIES

WIFIKEY: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

Accessories compatibility

| | -7 | | | |
|-----------|---------|---------|---------|---------|
| Accessory | SGE250W | SGE350W | SGE500W | SGE700W |
| WIEIKEA | | | _ | |

PERFORMANCE SPECIFICATIONS

| Indoor unit | | SGE250W | SGE350W | SGE500W | SGE700W |
|---|-----------|---------|---------|---------|---------|
| Outdoor unit | | SGE250 | SGE350 | SGE500 | SGE700 |
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,77 | 3,46 | 5,27 | 5,86 |
| Cooling input power (1) | kW | 0,77 | 1,06 | 1,55 | 1,81 |
| EER (2) | W/W | 3,60 | 3,25 | 3,40 | 3,24 |
| Moisture removed | l/h | 1,0 | 1,2 | 1,8 | 2,7 |
| Minimum cooling performances | | | | | |
| Cooling capacity | kW | 0,91 | 1,11 | 3,39 | 2,08 |
| Cooling input power | kW | 0,10 | 0,13 | 0,56 | 0,42 |
| Maximum cooling performances | | | | | |
| Cooling capacity | kW | 3,39 | 4,16 | 5,83 | 7,91 |
| Cooling input power | kW | 1,24 | 1,58 | 2,05 | 3,15 |
| Cooling input current | A | 3,3 | 4,6 | 6,7 | 7,9 |
| Seasonal efficiency | | | | | |
| SEER | W/W | 6,30 | 6,40 | 7,40 | 6,80 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ |
| Annual power consumption | kWh/annum | 156 | 190 | 247 | 300 |
| Nominal heating performances | | | | | |
| Heating capacity (4) | kW | 2,93 | 3,57 | 4,97 | 6,00 |
| Heating input power (4) | kW | 0,73 | 0,96 | 1,29 | 1,61 |
| COP (2) | W/W | 4,00 | 3,71 | 3,83 | 3,73 |
| Minimum heating performances | | | | | |
| Heating capacity | kW | 0,82 | 1,08 | 3,10 | 1,61 |
| Heating input power | kW | 0,12 | 0,10 | 0,78 | 0,30 |
| Maximum heating performances | | | | | |
| Heating capacity | kW | 3,37 | 4,22 | 5,85 | 7,91 |
| Heating input power | kW | 1,20 | 1,68 | 2,00 | 2,75 |
| Heating input current | A | 3,2 | 4,2 | 5,6 | 7,0 |
| Seasonal efficiency (temperate climate) | | | | | |
| SCOP | W/W | 4,00 | 4,00 | 4,00 | 4,00 |
| Efficiency energy class (3) | | A+ | A+ | A+ | A+ |
| Annual power consumption | kWh/annum | 910 | 945 | 1435 | 1818 |
| Seasonal efficiency (hot climate) | | | | | |
| SCOP | W/W | 5,10 | 5,10 | 5,10 | 5,00 |
| Efficiency energy class (3) | | A+++ | A+++ | A+++ | A++ |
| Annual power consumption | kWh/annum | 714 | 686 | 1260 | 1705 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication. (3) Data in accordance with Delegated Regulation (EU) No. 626/2011. (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

| | | SGE250W | SGE350W | SGE500W | SGE700W |
|--------------------------|-------|---------|---------|---------|---------|
| Indoor unit | | | | | |
| Type of fan | Туре | | Tang | ential | |
| Air flow rate | | | | | |
| Maximum | m³/h | 466 | 540 | 840 | 980 |
| Average | m³/h | 360 | 430 | 680 | 817 |
| Minimum | m³/h | 325 | 314 | 540 | 662 |
| Sound power (1) | | | | | |
| Maximum | dB(A) | 54,0 | 55,0 | 56,0 | 59,0 |
| Sound pressure (1 m) (2) | | | | | |
| Maximum | dB(A) | 38,5 | 40,5 | 42,5 | 45,0 |
| Average | dB(A) | 32,0 | 34,5 | 36,0 | 40,5 |
| Minimum | dB(A) | 25,0 | 25,0 | 26,0 | 36,0 |

OUTDOOR UNIT

| | | SGE250 | SGE350 | SGE500 | SGE700 |
|----------------------------|-------|-----------------|-----------------|-----------------|-----------------|
| Outdoor unit | | 342234 | 502550 | 502500 | 302700 |
| Type of fan | Туре | Axial | Axial | Axial | Axial |
| Air flow rate | // | | | | |
| Maximum | m³/h | 1750 | 1800 | 2100 | 3500 |
| Sound power (1) | | | | | |
| Maximum | dB(A) | 62,0 | 63,0 | 63,0 | 67,0 |
| Sound pressure (1 m) (2) | | | | | |
| Maximum | dB(A) | 55,5 | 56,0 | 56,0 | 59,0 |
| Compressor | | | | | |
| Туре | type | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary |
| Refrigerant | type | R32 | R32 | R32 | R32 |
| Refrigerant charge | kg | 0,55 | 0,55 | 1,08 | 1,42 |
| Potential global heating | GWP | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,37 | 0,37 | 0,73 | 0,96 |

GENERAL DATA

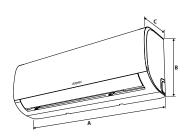
| Indoor unit | | SGE250W | SGE350W | SGE500W | SGE700W |
|--|-----------|-----------------|-----------------|-----------------|-----------------|
| Outdoor unit | | SGE250 | SGE350 | SGE500 | SGE700 |
| Electric data | | | | | |
| Rated power input (1) | kW | 2,2 | 2,2 | 2,5 | 3,5 |
| Rated current input (1) | A | 10,0 | 10,0 | 13,0 | 15,5 |
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") |
| Maximum refrigerant tube length | m | 25 | 25 | 30 | 50 |
| Maximum refrigerant line level difference | m | 10,0 | 10,0 | 20,0 | 25,0 |
| Refrigerant to be added | g/m | 12 | 12 | 12 | 24 |
| Power supply | | | | | |
| Power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

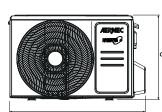
⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

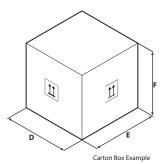
⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

DIMENSIONS AND WEIGHTS









| | | CCTATALL | CCF2 FAW | CCFFOON | CCFTOOU |
|----------------------|------|----------|----------|---------|---------|
| | | SGE250W | SGE350W | SGE500W | SGE700W |
| Indoor unit | | | | | |
| A | mm | 805 | 805 | 957 | 1040 |
| 3 | mm | 285 | 285 | 302 | 327 |
| | mm | 194 | 194 | 213 | 220 |
|) | mm | 870 | 870 | 1035 | 1120 |
| E | mm | 270 | 270 | 295 | 405 |
| F | mm | 365 | 365 | 385 | 315 |
| Net weight | kg | 7,60 | 7,60 | 10,00 | 12,30 |
| Weight for transport | kg | 9,70 | 9,80 | 13,00 | 15,80 |
| | | SGE250 | SGE350 | SGE500 | SGE700 |
| Outdoor unit | | | | | |
| A | mm | 720 | 720 | 805 | 890 |
| В | mm | 270 | 270 | 330 | 342 |
| (| mm | 495 | 495 | 554 | 673 |
| D | mm | 835 | 835 | 915 | 995 |
| E | mm | 300 | 300 | 370 | 398 |
| - | mm | 540 | 540 | 615 | 740 |
| Net weight | kg | 23,20 | 23,20 | 32,70 | 42,90 |
| itel weight | ny - | 23,20 | 23/20 | | |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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SCG

Monosplit

Cooling capacity 7,2 kW ÷ 12,5 kW Heating capacity 7,9 kW ÷ 13,5 kW



- New R32 ecological refrigerant gas.
- Standard Wi-Fi module.
- Modern design to blend with all furnishing styles.
- Easy installation and maintenance.
- Ideal for installations in the service sector: hotels, restaurants, offices.



DESCRIPTION

The monosplit air conditioners of the SCG range are combined with SCG_V (column) indoor units for floor installation.

Thanks to their compact size, ease of installation and modern design, they are suitable for environments such as shops, restaurants, shopping centers, doctor's offices, etc.

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

FEATURES







Indoorunit

Indoor unit ${\bf column}$ designed to be installed for indoor floor installation.

- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- **Auto** function for a continuous speed variation.

Outdoor unit

Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Smart APP Ewpe

This system is fitted **standard** with a wi-fi module that can be used, along with the app for iOS and Android devices (available free on Apple Store and Google Play), to control the system remotely on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.









Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

PERFORMANCE SPECIFICATIONS

| Indoor unit | | SCG700V | SCG1200V | SCG1200VT |
|---|-----------|---------|----------|-----------|
| Outdoor unit | | SCG700 | SCG1200 | SCG1200T |
| Nominal cooling performances | | | | |
| Cooling capacity (1) | kW | 7,20 | 12,50 | 12,50 |
| Cooling input power (1) | kW | 2,05 | 4,20 | 3,44 |
| EER (2) | W/W | 3,51 | 2,98 | 3,63 |
| Moisture removed | l/h | 2,0 | 5,0 | 5,0 |
| Minimum cooling performances | | | | |
| Cooling capacity | kW | 1,00 | 3,60 | 3,60 |
| Cooling input power | kW | 0,37 | 0,36 | 0,40 |
| Maximum cooling performances | | | | |
| Cooling capacity | kW | 9,00 | 13,50 | 13,50 |
| Cooling input power | kW | 3,70 | 5,40 | 6,60 |
| Cooling input current | A | 10,0 | 19,0 | 5,4 |
| Seasonal efficiency | | | | |
| SEER | W/W | 6,10 | 5,60 | 6,10 |
| Efficiency energy class (3) | | A++ | - | - |
| Annual power consumption | kWh/annum | 413 | - | - |
| ηςς | % | - | 221,00 | 246,00 |
| Nominal heating performances | | | | |
| Heating capacity (4) | kW | 7,90 | 13,50 | 13,50 |
| Heating input power (4) | kW | 2,33 | 4,20 | 3,30 |
| COP (2) | W/W | 3,39 | 3,21 | 4,09 |
| Minimum heating performances | | | | |
| Heating capacity | kW | 1,60 | 2,80 | 2,80 |
| Heating input power | kW | 0,32 | 0,36 | 0,50 |
| Maximum heating performances | | | | |
| Heating capacity | kW | 8,80 | 14,00 | 14,00 |
| Heating input power | kW | 3,90 | 5,40 | 6,60 |
| Heating input current | A | 11,0 | 19,0 | 5,2 |
| Seasonal efficiency (temperate climate) | | | | |
| SCOP | W/W | 4,00 | 3,70 | 4,00 |
| Efficiency energy class (3) | | A+ | - | - |
| Annual power consumption | kWh/annum | 2135 | - | - |
| ηsh | % | - | 145,00 | 159,00 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication. (3) Data in accordance with Delegated Regulation (EU) No. 626/2011. (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

| | | SCG700V | SCG1200VT | SCG1200V |
|--------------------------|-------|-----------------|--------------------|-----------------|
| Indoor unit | | | | |
| Type of fan | Туре | | Centrifugal | |
| Air flow rate | | | | |
| Turbo | m³/h | 1250 | 2400 | 2000 |
| Maximum | m³/h | 950 | 2200 | 1850 |
| Average | m³/h | 850 | 2000 | 1700 |
| Minimum | m³/h | 750 | 1800 | 1580 |
| Sound power (1) | | | | |
| Turbo | dB(A) | 60,0 | 68,0 | 66,0 |
| Maximum | dB(A) | 51,0 | 65,0 | 64,0 |
| Average | dB(A) | 48,0 | 63,0 | 62,0 |
| Minimum | dB(A) | 45,0 | 61,0 | 61,0 |
| Sound pressure (2) | | | | |
| Turbo | dB(A) | 45,0 | 57,0 | 53,0 |
| Maximum | dB(A) | 41,0 | 55,0 | 51,0 |
| Average | dB(A) | 38,0 | 53,0 | 50,0 |
| Minimum | dB(A) | 35,0 | 51,0 | 48,0 |
| Power supply | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | 380-415V ~ 3N 50Hz | 220-240V ~ 50Hz |

OUTDOOR UNIT

| | | SCG700 | SCG1200T | SCG1200 |
|----------------------------|-------|-----------------|--------------------|-----------------|
| Outdoor unit | | | | |
| Type of fan | Туре | | Axial | |
| Air flow rate | | | | |
| Maximum | m³/h | 3200 | 6000 | 6000 |
| Sound power (1) | | | | |
| Maximum | dB(A) | 70,0 | 75,0 | 74,0 |
| Sound pressure (2) | | | | |
| Maximum | dB(A) | 61,0 | 69,0 | 64,0 |
| Compressor | | | | |
| Туре | type | | Inverter rotary | |
| Refrigerant | type | | R32 | |
| Refrigerant charge | kg | 1,60 | 2,60 | 2,60 |
| Potential global heating | GWP | | 675kgCO₂eq | |
| Equivalent CO ₂ | t | 1,08 | 1,76 | 1,76 |
| Power supply | | · | | |
| Outdoor unit power supply | | 220-240V ~ 50Hz | 380-415V 3N ~ 50Hz | 220-240V ~ 50Hz |

⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

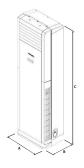
⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

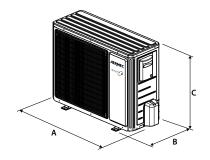
GENERAL DATA

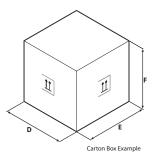
| Indoor unit | | SCG700V | SCG1200V | SCG1200VT |
|--|-----------|-------------|-------------|-------------|
| Outdoor unit | | SCG700 | SCG1200 | SCG1200T |
| Electric data | | | | |
| Rated power input (1) | kW | 3,9 | 5,4 | 6,6 |
| Rated current input (1) | Α | 18,0 | 22,0 | 10,0 |
| Refrigeration pipework | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| Maximum refrigerant tube length | m | 25 | 30 | 30 |
| Maximum refrigerant line level difference | m | 10,0 | 20,0 | 20,0 |
| Refrigerant to be added | g/m | 40 | 40 | 40 |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40. NB: the quantity of refrigerant gas to be added refers to a line length greater than 5 m.

DIMENSIONS AND WEIGHTS







| | | SCG700V | SCG1200VT | SCG1200V |
|----------------------|------|---------|--------------------|----------|
| Indoor unit | | | | |
| A | mm | 507 | 587 | 587 |
| В | mm | 320 | 394 | 394 |
| (| mm | 1770 | 1882 | 1882 |
| D | mm | 608 | 718 | 718 |
| E | mm | 410 | 485 | 485 |
| F | mm | 1983 | 2128 | 2128 |
| Net weight | kg | 38,00 | 57,00 | 55,00 |
| Weight for transport | kg | 47,00 | 69,00 | 67,00 |
| | | SCG700 | SCG1200T | SCG1200 |
| Outdoor unit | | | | |
| A | mm | 965 | 1028 | 1028 |
| В | mm | 396 | 530 | 530 |
| C | mm | 700 | 822 | 822 |
| D | mm | 1029 | 1083 | 1083 |
| E | mm | 458 | 573 | 573 |
| F | mm | 750 | 973 | 973 |
| Net weight | l.e. | E2 E0 | 94,00 | 89,00 |
| net weight | kg | 53,50 | 7 1 ,00 | 07,00 |

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CKG

Universal

Cooling capacity 2,7 ÷ 6,6 kW Heating capacity 2,9 ÷ 6,8 kW



- · Standard Wi-Fi module.
- New R32 ecological refrigerant gas.
- Air Purifiers (Cold Plasma).
- Low cooling function: cooling operation with outdoor temperatures down to -15 °C.
- Low heating function: heating operation with outdoor temperatures down to -22 °C.







DESCRIPTION

The monosplit air conditioners of the CKG range are combined with CKG_FS (Console) indoor units with an inverter fan unit, offering twin delivery for optimum air flow control and enhanced environmental comfort.

Universal indoor units:

all indoor units can be combined with both multisplit outdoor units of the series MPG and MLG and monosplit outdoor units of the series CKG.

| CKG_FS | CKG260FS | CKG360FS | CKG500FS |
|---|----------|----------|----------|
| Universal indoor units compatible with MPG multisplit system | • | • | • |
| Universal indoor units compatible with MLG multisplit | | | |

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

FEATURES







Indoor unit

Console indoor unit designed to be installed on indoor floors.

- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Indoor unit front panel with LED display and indicator lights.
- 5-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- **iFeel** function for activating the ambient temperature probe inside the remote control, for improved comfort.

Outdoor unit

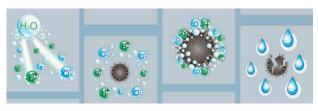
Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.



X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.



Smart APP Ewpe

This system is fitted **standard** with a wi-fi module that can be used, along with the app for iOS and Android devices (available free on Apple Store and Google Play), to control the system remotely on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.



General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRCA: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

* The CC2 centralised control can manage up to 36 CKG systems.



Single air delivery





Dual air delivery (default)





Intake



ACCESSORIES COMPATIBILITY

| Accessory | CKG260FS | CKG360FS | CKG500FS |
|-----------|----------|----------|----------|
| CC2 | • | • | • |
| WRCA | • | • | • |

The accessory CC2 version 01 is compatible with the indoor units of the CKG_FS series, from version 01.

PERFORMANCE SPECIFICATIONS

| Indoor unit | | CKG260FS | CKG360FS | CKG500FS |
|---|-----------|----------|----------|----------|
| Outdoor unit | | CKG260 | CKG360 | CKG500 |
| Nominal cooling performances | | | | |
| Cooling capacity (1) | kW | 2,70 | 3,52 | 5,20 |
| Cooling input power (1) | kW | 0,72 | 1,00 | 1,55 |
| EER (2) | W/W | 3,75 | 3,52 | 3,35 |
| Moisture removed | l/h | 0,8 | 1,2 | 1,8 |
| Minimum cooling performances | | | | |
| Cooling capacity | kW | 0,70 | 0,80 | 1,26 |
| Cooling input power | kW | 0,17 | 0,16 | 0,38 |
| Maximum cooling performances | | | | |
| Cooling capacity | kW | 3,40 | 4,40 | 6,60 |
| Cooling input power | kW | 1,30 | 1,50 | 2,45 |
| Cooling input current | A | 3,5 | 4,5 | 7,1 |
| Seasonal efficiency | | | | |
| SEER | W/W | 7,20 | 7,00 | 6,60 |
| Efficiency energy class (3) | | A++ | A++ | A++ |
| Annual power consumption | kWh/annum | 131 | 175 | 276 |
| Nominal heating performances | | | | |
| Heating capacity (4) | kW | 2,90 | 3,80 | 5,33 |
| Heating input power (4) | kW | 0,73 | 0,96 | 1,50 |
| COP (2) | W/W | 3,97 | 3,96 | 3,55 |
| Minimum heating performances | | | | |
| Heating capacity | kW | 0,60 | 1,10 | 1,12 |
| Heating input power | kW | 0,13 | 0,17 | 0,35 |
| Maximum heating performances | | | | |
| Heating capacity | kW | 3,50 | 4,40 | 6,80 |
| Heating input power | kW | 1,35 | 1,50 | 2,50 |
| Heating input current | A | 3,6 | 4,3 | 6,7 |
| Seasonal efficiency (temperate climate) | | | | |
| SCOP | W/W | 4,00 | 4,10 | 4,10 |
| Efficiency energy class (3) | | A+ | A+ | A+ |
| Annual power consumption | kWh/annum | 910 | 1093 | 1750 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

| | | CKG260FS | CKG360FS | CKG500FS |
|-------------------------------|-------|----------|----------------------|----------|
| Indoor unit | | | | |
| Input power | W | 35 | 40 | 50 |
| Type of fan | Туре | | Inverter centrifugal | |
| Air flow rate | | | | |
| Turbo | m³/h | 500 | 600 | 700 |
| Maximum | m³/h | 430 | 520 | 650 |
| Average | m³/h | 370 | 440 | 520 |
| Minimum | m³/h | 280 | 360 | 410 |
| Sound power (1) | | | | |
| Turbo | dB(A) | 50,0 | 54,0 | 57,0 |
| Maximum | dB(A) | 48,0 | 50,0 | 55,0 |
| Average | dB(A) | 44,0 | 46,0 | 51,0 |
| Minimum | dB(A) | 38,0 | 39,0 | 47,0 |
| Sound pressure (2) | | | | |
| Turbo | dB(A) | 39,0 | 44,0 | 47,0 |
| Maximum | dB(A) | 36,0 | 40,0 | 45,0 |
| Average | dB(A) | 31,0 | 36,0 | 41,0 |
| Minimum | dB(A) | 26,0 | 29,0 | 37,0 |
| Indoor unit | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 |

- (1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

OUTDOOR UNIT

| | | CKG260 | CKG360 | CKG500 |
|-------------------------------|-------|--------|-----------------|--------|
| Outdoor unit | | | | |
| Type of fan | Туре | | Inverter axial | |
| Air flow rate | | | | |
| Maximum | m³/h | 1600 | 2200 | 3200 |
| Sound power (1) | | | | |
| Maximum | dB(A) | 60,0 | 62,0 | 65,0 |
| Sound pressure (2) | | | | |
| Maximum | dB(A) | 49,0 | 52,0 | 57,0 |
| Compressor | | | | |
| Туре | type | | Inverter rotary | |
| Refrigerant | type | | R32 | |
| Refrigerant charge | kg | 0,55 | 0,75 | 0,95 |
| Potential global heating | GWP | | 675kgCO₂eq | |
| Equivalent CO ₂ | t | 0,37 | 0,51 | 0,64 |
| Outdoor unit | | | | |
| Condensate discharge diameter | mm | 15,8 | 15,8 | 15,8 |

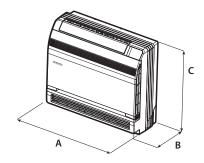
GENERAL DATA

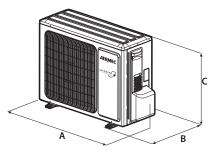
| Indoor unit | | CKG260FS | CKG360FS | CKG500FS |
|--|-----------|-----------------|-----------------|-----------------|
| Outdoor unit | | CKG260 | CKG360 | CKG500 |
| Electric data | | | | |
| Rated power input (1) | kW | 1,4 | 1,5 | 2,5 |
| Rated current input (1) | A | 6,0 | 6,7 | 11,1 |
| Refrigeration pipework | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") |
| Maximum refrigerant tube length | m | 15 | 20 | 25 |
| Maximum refrigerant line level difference | m | 10,0 | 10,0 | 10,0 |
| Refrigerant to be added | g/m | 16 | 16 | 16 |
| Power supply | | | | |
| Power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

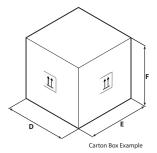
⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744. (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

DIMENSIONS AND WEIGHTS







| | | CKG260FS | CKG360FS | CKG500FS |
|----------------------|----------------------|--------------------------|--------------------------|---------------------------|
| | | CNUZOUFS | CROSOUFS | Crasones |
| Indoor unit | | | | |
| A | mm | 700 | 700 | 700 |
| 3 | mm | 215 | 215 | 215 |
| - | mm | 600 | 600 | 600 |
|) | mm | 788 | 788 | 788 |
| | mm | 283 | 283 | 283 |
| : | mm | 697 | 697 | 697 |
| Net weight | kg | 15,50 | 15,50 | 15,50 |
| Weight for transport | kg | 18,50 | 18,50 | 18,50 |
| | | CKG260 | CKG360 | CKG500 |
| Outdoor unit | | | | |
| A | mm | 782 | 848 | 965 |
| | 111111 | 702 | 0.10 | |
| 3 | mm | 320 | 320 | 396 |
| 3 | | | | |
| 3 | mm | 320 | 320 | 396 |
| 3 | mm mm | 320 540 | 320 596 | 396 700 |
| 3 : : : | mm mm mm | 320 540 823 | 320 596 881 | 396 700 1029 |
| let weight | mm mm mm mm | 320 540 823 358 | 320 596 881 363 | 396 700 1029 458 |

CKG_Y_UN50_05













LPG

Monosplit

Cooling capacity 3,5 ÷ 16,0 kW Heating capacity 4,0 ÷ 17,0 kW



• SEER up to 7.2.







DESCRIPTION

The monosplit air conditioners of the LPG range are combined with:

- LPG_D (Duct) for duct type horizontal installation.
- LPG_C / CS (Cassette) for false ceiling installation.
- LPG_F (Floor ceiling) wall and/or ceiling installation.

TYPE OF INDOOR UNIT

Indoor unit LPG_D

Duct indoor unit, designed for indoor duct type horizontal installation.







- Every indoor unit comes with a remote control and a remote control holder
- WRC50 wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- $\boldsymbol{--}$ Timer for programming switch-off and switch-on.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

Indoor unit LPG CS

Indoor unit **Cassette** of dimensions (570x570 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

Indoor unit LPG_C

Indoor unit **Cassette** of dimensions (840x840 mm) designed to be installed on suspended ceiling indoors.







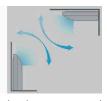
- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

Indoor unit LPG F

Indoor unit **Floor ceiling** designed to be installed on the wall or ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

Low cooling function

cooling operation with outdoor temperatures down to -20 °C.

Low heating function

heating with external temperatures up to -20 °C.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



TYPE OF OUTDOOR UNIT

Outdoor unit

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRC50: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with daily time bands.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.

GLG 40: Air supply and flow grid with dimensions (950x950 mm) for cassette internal unit.

GLG 40S: Air supply and flow grid with dimensions (620x620 mm) for cassette internal unit

MINIMODBUS20: Thanks to its compact size, this accessory can be easily installed inside the indoor unit. It allows the units to communicate with each other by providing a ModBus RTU serial on RS485 for supervision with external BMS.

* The CC2 centralised control can manage up to 36 LPG systems.









Accessories compatibility

LPG_D

| Accessory | LPG350D | LPG500D | LPG700D | LPG850D | LPG1000D | LPG1200D | LPG1400D | LPG1600D |
|---|---------|---------|---------|---------|----------|----------|----------|----------|
| CC2 (1) | • | • | • | • | • | • | • | • |
| (1) Auto-restart function. The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed. | | | | | | | | |
| Wired panel WRCSO standard supply. | | | | | | | | |

| Accessory | LPG350D | LPG500D | LPG700D | LPG850D | LPG1000D | LPG1200D | LPG1400D | LPG1600D |
|------------------|---------|---------|---------|---------|----------|----------|----------|----------|
| MINIMODBUS20 (1) | • | • | • | • | • | • | • | • |

(1) The units can only be routed using the wired control panel (accessory WRC20, WRC50 or WRC40). For more information about the procedure refer to the user manual.

LPG_C/CS

| Accessory | LPG350CS | LPG500C5 | LPG/UUC | LPG85UC | LPG1000C | LPG1200C | LPG 1400C | LPG 1600C |
|---------------------------|----------|----------|---------|---------|----------|----------|-----------|-----------|
| CC2 (1) | • | • | • | • | • | • | • | • |
| WRC50 | • | • | • | • | | • | • | • |
| (1) Auto-restart function | | | | | | | | |

(1) Auto-restart function. The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

| Accessory | LPG350CS | LPG500CS | LPG700C | LPG850C | LPG1000C | LPG1200C | LPG1400C | LPG1600C |
|------------------|----------|----------|---------|---------|----------|----------|----------|----------|
| MINIMODBUS20 (1) | • | • | • | • | • | • | • | • |
| | | | | | | | | |

(1) The units can only be routed using the wired control panel (accessory WRC20, WRC50 or WRC40). For more information about the procedure refer to the user manual. Accessory LPG350CS LPG500CS LPG700C LPG850C LPG1000C LPG12000 LPG1400C LPG16000 GLG40 (1) GLG40S (1)

(1) Mandatory accessory.

LPG_F

| Accessory | LPG350F | LPG500F | LPG700F | LPG850F | LPG1000F | LPG1200F | LPG1400F | LPG1600F |
|-----------|---------|---------|---------|---------|----------|----------|----------|----------|
| CC2 (1) | • | • | • | • | • | • | • | • |
| WRC50 | • | • | • | | • | • | • | |

(1) Auto-restart function.

The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

| Accessory | LPG350F | LPG500F | LPG700F | LPG850F | LPG1000F | LPG1200F | LPG1400F | LPG1600F |
|------------------|---------|---------|---------|---------|----------|----------|----------|----------|
| MINIMODBUS20 (1) | • | • | • | • | • | • | • | • |

⁽¹⁾ The units can only be routed using the wired control panel (accessory WRC20, WRC50 or WRC40). For more information about the procedure refer to the user manual.

OUTDOOR UNIT PERFORMANCE DATA

| | | LPG350 | LPG500 | LPG700 | LPG850 | LPG1000 | LPG1000T | LPG1200 | LPG1200T | LPG1400 | LPG1400T | LPG1600T |
|--|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Outdoor unit | | | | | | | | | | | | |
| Type of fan | Туре | Inverter axial |
| Air flow rate | | | | | | | | | | | | |
| Maximum | m³/h | 1800 | 2200 | 3600 | 3600 | 4800 | 4800 | 5200 | 5200 | 5200 | 5200 | 5500 |
| Sound power (1) | | | | | | | | | | | | |
| Maximum | dB(A) | 56,0 | 65,0 | 69,0 | 70,0 | 70,0 | 70,0 | 73,0 | 73,0 | 73,0 | 75,0 | 75,0 |
| Sound pressure (2) | | | | | | | | | | | | |
| Maximum | dB(A) | 48,0 | 52,0 | 55,0 | 57,0 | 57,0 | 57,0 | 58,0 | 58,0 | 59,0 | 59,0 | 60,0 |
| Compressor | | | | | | | | | | | | |
| Tuna | tuno | Inverter |
| Туре | type | rotary |
| Refrigerant | type | R32 |
| Refrigerant charge | kg | 0,57 | 0,85 | 1,50 | 1,50 | 2,10 | 2,10 | 2,25 | 2,25 | 2,80 | 2,80 | 3,50 |
| Potential global heating | GWP | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,38 | 0,57 | 1,01 | 1,01 | 1,42 | 1,42 | 1,52 | 1,52 | 1,89 | 1,89 | 2,36 |
| Refrigeration pipework | | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| Maximum refrigerant tube length | m | 30 | 30 | 30 | 30 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Maximum refrigerant line level difference | m | 15,0 | 20,0 | 20,0 | 25,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 |
| Refrigerant to be added | g/m | 16 | 16 | 20 | 20 | 20 | 20 | 20 | 20 | 35 | 35 | 35 |
| Power supply | | | | | | | | | | | | |
| Outdoor unit nower cumby | | 220-240V ~ | 380-415V ~ | 220-240V ~ | 380-415V ~ | 220-240V ~ | 380-415V ~ | 380-415V ~ |
| Outdoor unit power supply | | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 3N ~ 50Hz | 50Hz | 3N ~ 50Hz | 50Hz | 3N ~ 50Hz | 3N ~ 50Hz |

⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744. (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

INDOOR UNIT PERFORMANCE DATA

LPG D

| Indoor unit | | LPG350D | LPG500D | LPG700D | LPG850D | LPG1000D | LPG1000D | LPG1200D | LPG1200D | LPG1400D | LPG1400D | LPG1600D |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Outdoor unit | | LPG3500 | LPG500D | LCG700 | LPG850 | LPG1000 | LPG1000D | LPG12000 | LPG1200T | LPG1400 | LPG1400T | LPG1600T |
| Nominal cooling performances | | LFUJJU | LF4300 | LCG/UU | LFUOJU | LPUIUUU | LFUIUUUI | LFUIZUU | LFUIZUUI | LF 0 1400 | LFU14001 | LFUIOUUI |
| Cooling capacity (1) | kW | 3,50 | 5,30 | 7,10 | 8,50 | 10,50 | 10,50 | 12,10 | 12,10 | 13,40 | 13,40 | 16,00 |
| Cooling input power (1) | kW | 1,03 | 1,51 | 1,92 | 2,50 | 3,00 | 3,00 | 3,58 | 3,58 | 4,50 | 4,50 | 5,40 |
| EER (2) | W/W | 3,40 | 3,51 | 3,70 | 3,40 | 3,50 | 3,50 | 3,38 | 3,38 | 2,98 | 2,98 | 2,96 |
| Moisture removed | I/h | 1,0 | 1,7 | 2,4 | 2,8 | 3,30 | 3,3 | 3,7 | 3,7 | 3,9 | 3,9 | 4,6 |
| Minimum cooling performances | 1/11 | 1,0 | 1,/ | 2,4 | 2,0 | 3,3 | 3,3 | 3,/ | 3,1 | 3,7 | 3,7 | 4,0 |
| Cooling capacity | kW | 0,90 | 1,60 | 2,40 | 2,90 | 3,20 | 3,20 | 3,60 | 3,60 | 4,00 | 4.00 | 4,80 |
| Cooling input power | kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum cooling performances | KVV | 0,20 | 0,30 | 0,30 | 0,/3 | 0,90 | 0,70 | 1,10 | 1,10 | 1,33 | ردرا | טכיו |
| Cooling capacity | kW | 4,00 | 5,80 | 7,60 | 9,00 | 11,00 | 11,00 | 13,10 | 13,10 | 14,20 | 14,20 | 17,00 |
| Cooling input power | kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency | KVV | 1,30 | 1,00 | 2,00 | 3,30 | 4,00 | 4,00 | 3,30 | 3,30 | 3,00 | 3,00 | 0,00 |
| SEER | W/W | 6,50 | 6,30 | 6,60 | 6,40 | 6,40 | 6,40 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 |
| Efficiency energy class (3) | VV/VV | | | | | | | | - 0,10 | - 0,10 | - 0,10 | 0,10 |
| Pdesignc | kW | A++ | A++ 5,3 | A++ | A++ 8,5 | A++ | A++ 10,5 | - | | | | |
| Annual power consumption | kWh/annum | 3,5 189 | 294 | 7,1 377 | 465 | 10,5 574 | 574 | | | | - | - |
| | KWN/annum | 189 | 294 | 3// | 400 | 5/4 | 5/4 | | - | - | - | - |
| Nominal heating performances Heating capacity (4) | kW | 4.00 | E 60 | 9.00 | 0.00 | 11 50 | 11 [0 | 12 50 | 12.50 | 15 50 | 15 50 | 17.00 |
| 3 1 / 1 / | | 4,00 | 5,60 | 8,00 | 8,80 | 11,50 | 11,50 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) | kW | 1,00 | 1,42 | 2,00 | 2,25 | 2,80 | 2,80 | 3,70 | 3,70 | 4,50 | 4,50 | 4,70 |
| COP (2) | W/W | 4,00 | 3,94 | 4,00 | 3,91 | 4,11 | 4,11 | 3,65 | 3,65 | 3,44 | 3,44 | 3,62 |
| Minimum heating performances | 1111 | 0.00 | 4.60 | 2.20 | 2.50 | 3.00 | 2.00 | 2.60 | 2.00 | 2.00 | 3.00 | 4.50 |
| Heating capacity | kW | 0,90 | 1,60 | 2,20 | 2,50 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power | kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 4,50 | 6,10 | 8,60 | 9,50 | 12,50 | 12,50 | 14,50 | 14,50 | 16,00 | 16,00 | 18,00 |
| Heating input power | kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency (temperate climate) | 14/04/ | | | | | | | | | | | |
| SCOP | W/W | 4,00 | 4,00 | 4,10 | 4,10 | 4,20 | 4,20 | 4,10 | 4,10 | 4,00 | 4,00 | 4,00 |
| Efficiency energy class (3) | 1111 | A+ | A+ | A+ | A+ | A+ | A+ | | - | - | - | - |
| Pdesignh | kW | 3,00 | 3,90 | 4,70 | 6,00 | 7,00 | 7,00 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 1050 | 1365 | 1605 | 2049 | 2333 | 2333 | - | - | - | - | - |
| Electric data | | | | | | | | | | | | |
| Rated power input (5) | kW | 1,3 | 1,9 | 2,8 | 3,3 | 4,7 | 4,4 | 5,3 | 5,3 | 5,6 | 5,6 | 6,8 |
| Rated current input (5) | A | 6,0 | 9,5 | 14,0 | 15,0 | 21,0 | 7,0 | 23,0 | 9,0 | 25,0 | 11,0 | 12,0 |
| Refrigeration pipework | | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6.35 (1/4") | 6.35 (1/4") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9.52 (3/8") | 12.7 (1/2") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") |
| Nominal length of refrigerant lines | m | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 7,5 | 7,5 | 7,5 |
| Power supply Power supply | | | | | | | | | | | | |
| Power supply | | 220-240V ~ | | 220-240V ~ | | | 380-415V | 220-240V ~ | 380-415V | 220-240V ~ | 380-415V | 380-415V |
| | | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 3N~ 50/60Hz | 50Hz | 3N~ 50/60Hz | 50Hz | 3N~ 50/60Hz | 3N~ 50/60Hz |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

(3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

(4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

(5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| LPG. | 350D LPG | 500D LPG | i700D LP | G850D LP | G1000D LP | G1200D LP | G1400D LP(| G1600D |
|--------------------|--|--|---|---|--|---|--|--|
| | | | | | | | | |
| Inve | erter Inve | erter Inv | verter In | verter Ir | overter l | nverter li | nverter Ir | nverter |
| rpe centr | ifugal centr | ifugal cent | rifugal cen | ıtrifugal cer | ntrifugal ce | ntrifugal cei | ntrifugal cer | ntrifugal |
| | | | | | | | | |
| ³ /h 6 | 00 9 | 00 1 | 100 | 1400 | 1700 | 2000 | 2300 | 2600 |
| ³ /h 5. | 50 8 | 00 1 | 000 | 1300 | 1600 | 1800 | 2100 | 2300 |
| ³ /h 5 | 00 7 | 00 9 | 900 | 1100 | 1400 | 1600 | 1800 | 2000 |
| ³ /h 4 | 00 6 | 3 00 | 300 | 1000 | 1200 | 1400 | 1500 | 1700 |
| | | | | | | | | |
| Pa 2 | 25 2 | 25 | 25 | 37 | 50 | 50 | 50 | 50 |
| Pa 8 | 30 8 | 30 1 | 160 | 160 | 155 | 155 | 200 | 200 |
| | | | | | | | | |
| B(A) 35 | 5,0 36 | 5,0 3 | 7,0 | 43,0 | 39,0 | 43,0 | 43,0 | 46,0 |
| B(A) 33 | 3,0 35 | 5,0 3 | 5,0 | 41,0 | 38,0 | 42,0 | 42,0 | 44,0 |
| B(A) 32 | 2,0 33 | 3,0 3 | 3,0 | 39,0 | 37,0 | 41,0 | 40,0 | 42,0 |
| B(A) 30 | 0,0 3 | 1,0 3 | 1,0 | 37,0 | 36,0 | 40,0 | 38,0 | 40,0 |
| | | | | | | | | |
| nm 26 | 5,0 26 | 5,0 2 | 6,0 | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 |
| | ype centr centr 3 ³ /h 6 3 ³ /h 5 3 ³ /h 5 3 ³ /h 4 Pa 2 Pa 8 8 8(A) 3: 8(A) 3: 8(A) 3: | Inverter centrifugal centrif | Inverter Inverter | Inverter Inverter | Inverter centrifugal Inverter centrifugal Centrifuga | Inverter Inverter | Inverter centrifugal Centr | Inverter centrifugal Centr |

Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source (1,5m for type Duct and Cassette)

LPG CS/C

| | 1040044 | 104-044 | 104504 | 104004 | 1044444 | 1044444 | 1044044 | 1044044 | 1044444 | 1544444 | 1544444 |
|--|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor unit | LPG350CS | LPG500CS | LPG700C | LPG850C | LPG1000C | LPG1000C | LPG1200C | LPG1200C | LPG1400C | LPG1400C | LPG1600C |
| Outdoor unit | LPG350 | LPG500 | LPG700 | LPG850 | LPG1000 | LPG1000T | LPG1200 | LPG1200T | LPG1400 | LPG1400T | LPG1600T |
| Nominal cooling performances | | | | | | | | | | | |
| Cooling capacity (1) kW | 3,50 | 5,00 | 7,10 | 8,50 | 10,50 | 10,50 | 12,10 | 12,10 | 13,40 | 13,40 | 14,50 |
| Cooling input power (1) kW | 0,92 | 1,47 | 2,03 | 2,50 | 3,10 | 3,10 | 3,90 | 3,90 | 4,60 | 4,60 | 1,50 |
| EER (2) W/W | 3,80 | 3,40 | 3,50 | 3,40 | 3,40 | 3,40 | 3,10 | 3,10 | 2,91 | 2,91 | 2,74 |
| Moisture removed I/h | 1,0 | 1,7 | 2,4 | 2,8 | 3,3 | 3,3 | 3,7 | 3,7 | 3,9 | 3,9 | 4,8 |
| Minimum cooling performances | | | | | | | | | | | |
| Cooling capacity kW | 0,90 | 1,60 | 2,40 | 2,90 | 3,20 | 3,20 | 3,60 | 3,60 | 4,00 | 4,00 | 4,80 |
| Cooling input power kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum cooling performances | | | | | | | | | | | |
| Cooling capacity kW | 4,00 | 5,20 | 7,60 | 9,00 | 11,00 | 11,00 | 13,10 | 13,10 | 14,20 | 14,20 | 15,00 |
| Cooling input power kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency | | | | | | | | | | | |
| SEER W/W | 7,10 | 6,60 | 6,70 | 6,90 | 6,60 | 6,60 | 6,10 | 6,10 | 6,30 | 6,30 | 6,10 |
| Efficiency energy class (3) | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Pdesignc kW | 3,5 | 5,0 | 7,1 | 8,5 | 10,5 | 10,5 | - | - | - | - | - |
| Annual power consumption kWh/ann | um 173 | 266 | 371 | 432 | 557 | 557 | - | - | - | - | - |
| Nominal heating performances | | | | | | | | | | | |
| Heating capacity (4) kW | 4,00 | 5,60 | 7,80 | 8,80 | 11,50 | 11,50 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) kW | 1,00 | 1,60 | 2,00 | 2,25 | 2,95 | 2,95 | 3,97 | 3,97 | 4,70 | 4,70 | 5,70 |
| COP (2) W/W | 4,00 | 3,50 | 3,90 | 3,90 | 3,90 | 3,90 | 3,40 | 3,40 | 3,30 | 3,30 | 2,98 |
| Minimum heating performances | | | | | | | | | | | |
| Heating capacity kW | 0,90 | 1,60 | 2,20 | 2,50 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum heating performances | | | | | | | | | | | |
| Heating capacity kW | 4,50 | 6,10 | 8,60 | 9,50 | 12,50 | 12,50 | 14,50 | 14,50 | 16,00 | 16,00 | 17,50 |
| Heating input power kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency (temperate climate) | | | | | | | | | | | |
| SCOP W/W | 4,20 | 4,00 | 4,30 | 4,30 | 4,40 | 4,40 | 4,10 | 4,10 | 4,00 | 4,00 | 4,00 |
| Efficiency energy class (3) | A+ | A+ | A+ | A+ | A+ | A+ | - | - | - | - | - |
| Pdesignh kW | 3,10 | 3,90 | 5,00 | 6,00 | 7,00 | 7,00 | - | - | - | - | - |
| Annual power consumption kWh/ann | | 1365 | 1628 | 1954 | 2227 | 2227 | - | - | - | - | - |
| Electric data | | | - | | | | | | | | |
| Rated power input (5) kW | 1,3 | 1,9 | 2,8 | 3,3 | 4,7 | 4,4 | 5,3 | 5,3 | 5,6 | 5,6 | 6,8 |
| Rated current input (5) | 6,0 | 9,5 | 14,0 | 15,0 | 21,0 | 7,0 | 23,0 | 9,0 | 25,0 | 11,0 | 12,0 |
| Refrigeration pipework | -,- | - ,- | ,- | ,- | ,- | | | | ,- | | |
| Diameter of liquid refrigerant connections mm (inc | h) 6.35 (1/4") | 6.35 (1/4") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") |
| Diameter of refrigerant gas connections mm (inc | | 12.7 (1/2") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") |
| Nominal length of refrigerant lines m | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 7,5 | 7,5 | 7,5 |
| Power supply | -,- | -,- | -,- | -,- | -,- | -,- | -,- | -,- | - ,- | - ,- | - ,- |
| | 220-240V ~ | 220-240V ~ | 220-240V ~ | 220-240V ~ | 220-240V ~ | 380-415V | 220-240V ~ | 380-415V | 220-240V ~ | 380-415V | 380-415V |
| Power supply | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 3N~ 50Hz | 50Hz | 3N~ 50Hz | 50Hz | 3N~ 50Hz | 3N~ 50Hz |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| | | LPG350CS | LPG500CS | LPG700C | LPG850C | LPG1000C | LPG1200C | LPG1400C | LPG1600C |
|-------------------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor unit | | | | | | | | | |
| Tune of fan | Tuna | Inverter |
| Type of fan | Туре | centrifugal |
| Air flow rate | | | | | | | | | |
| Turbo | m³/h | 600 | 720 | 1100 | 1400 | 1500 | 1700 | 2000 | 2300 |
| Maximum | m³/h | 550 | 650 | 1000 | 1300 | 1400 | 1500 | 1800 | 2100 |
| Average | m³/h | 500 | 600 | 900 | 1100 | 1200 | 1300 | 1600 | 1900 |
| Minimum | m³/h | 400 | 500 | 800 | 1000 | 1000 | 1100 | 1400 | 1600 |
| Sound pressure | | | | | | | | | |
| Turbo | dB(A) | 36,0 | 43,0 | 39,0 | 47,0 | 43,0 | 48,0 | 50,0 | 52,0 |
| Maximum | dB(A) | 35,0 | 41,0 | 38,0 | 46,0 | 41,0 | 46,0 | 48,0 | 50,0 |
| Average | dB(A) | 33,0 | 39,0 | 36,0 | 42,0 | 39,0 | 43,0 | 45,0 | 48,0 |
| Minimum | dB(A) | 29,0 | 35,0 | 34,0 | 38,0 | 38,0 | 39,0 | 41,0 | 44,0 |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source (1,5m for type Duct and Cassette)

LPG F

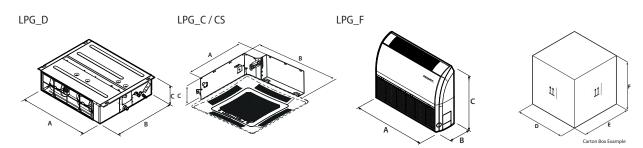
| LPG_F | | | | | | | | | | | | |
|--|-----------|-------------|---------------------------------------|-------------|-------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor unit | | LPG350F | LCG500F | LPG700F | LPG850F | LPG1000F | LPG1000F | LPG1200F | LPG1200F | LPG1400F | LPG1400F | LPG1600F |
| Outdoor unit | | LPG350 | LPG500 | LPG700 | LPG850 | LPG1000 | LPG1000T | LPG1200 | LPG1200T | LPG1400 | LPG1400T | LPG1600T |
| Nominal cooling performances | | | | | | | | | | | | |
| Cooling capacity (1) | kW | 3,50 | 5,30 | 7,10 | 8,50 | 10,00 | 10,00 | 12,10 | 12,10 | 13,40 | 13,40 | 16,00 |
| Cooling input power (1) | kW | 0,92 | 1,56 | 2,03 | 2,50 | 2,94 | 2,94 | 3,67 | 3,67 | 4,30 | 4,30 | 5,30 |
| EER (2) | W/W | 3,80 | 3,40 | 3,50 | 3,40 | 3,40 | 3,40 | 3,30 | 3,30 | 3,12 | 3,12 | 3,02 |
| Moisture removed | l/h | 1,1 | 1,7 | 2,4 | 2,8 | 3,3 | 3,3 | 3,7 | 3,7 | 3,9 | 3,9 | 4,7 |
| Minimum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 0,90 | 1,60 | 2,40 | 2,90 | 3,20 | 3,20 | 3,60 | 3,60 | 4,00 | 4,00 | 4,80 |
| Cooling input power | kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 4,00 | 5,50 | 7,60 | 9,00 | 10,50 | 10,50 | 13,10 | 13,10 | 14,20 | 14,20 | 17,00 |
| Cooling input power | kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency | | | | | | | | | | | | |
| SEER | W/W | 7,20 | 6,50 | 7,20 | 6,80 | 6,30 | 6,30 | 6,30 | 6,30 | 6,30 | 6,30 | 6,10 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Pdesignc | kW | 3,5 | 5,3 | 7,1 | 8,5 | 10,0 | 10,0 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 170 | 285 | 345 | 438 | 556 | 556 | - | - | - | - | - |
| Nominal heating performances | | | | | | | | | | | | |
| Heating capacity (4) | kW | 4,00 | 5,60 | 7,70 | 8,80 | 11,50 | 11,50 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) | kW | 0,93 | 1,44 | 1,95 | 2,25 | 2,95 | 2,95 | 3,75 | 3,75 | 4,20 | 4,20 | 4,80 |
| COP (2) | W/W | 4,30 | 3,90 | 3,95 | 3,90 | 3,90 | 3,90 | 3,60 | 3,60 | 3,69 | 3,69 | 3,54 |
| Minimum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,60 | 2,20 | 2,50 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power | kW | 0,20 | 0,30 | 0,50 | 0,75 | 0,90 | 0,90 | 1,10 | 1,10 | 1,35 | 1,35 | 1,50 |
| Maximum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 4,50 | 6,10 | 8,40 | 9,50 | 12,00 | 12,00 | 14,50 | 14,50 | 16,00 | 16,00 | 18,00 |
| Heating input power | kW | 1,30 | 1,80 | 2,60 | 3,30 | 4,00 | 4,00 | 5,30 | 5,30 | 5,60 | 5,60 | 6,80 |
| Seasonal efficiency (temperate climate) | | | | | | | | | | | | |
| SCOP | W/W | 4,10 | 4,20 | 4,30 | 4,50 | 4,20 | 4,20 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 |
| Efficiency energy class (3) | | A+ | A+ | A+ | A+ | A+ | A+ | - | - | - | - | - |
| Pdesignh | kW | 3,10 | 3,90 | 4,70 | 6,00 | 7,00 | 7,00 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 1059 | 1300 | 1530 | 1867 | 2333 | 2333 | - | - | - | - | - |
| Electric data | | | | | | | | | | | | |
| Rated power input (5) | kW | 1,3 | 1,9 | 2,8 | 3,3 | 4,7 | 4,4 | 5,3 | 5,3 | 5,6 | 5,6 | 6,8 |
| Rated current input (5) | A | 6,0 | 9,5 | 14,0 | 15,0 | 21,0 | 7,0 | 23,0 | 9,0 | 25,0 | 11,0 | 12,0 |
| Refrigeration pipework | | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6.35 (1/4") | 6.35 (1/4") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") | 15.9 (5/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9.52 (3/8") | 12.7 (1/2") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") | 9.52 (3/8") |
| Nominal length of refrigerant lines | m | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 5,0 | 7,5 | 7,5 | 7,5 |
| Power supply | | · · · · · · | · · · · · · · · · · · · · · · · · · · | , | | · · · · · · · · · · · · · · · · · · · | · | | | | | |
| ••• | | 220-240V ~ | 220-240V ~ | 220-240V ~ | 220-240V ~ | 220-240V ~ | 380-415V | 220-240V ~ | 380-415V | 220-240V ~ | 380-415V | 380-415V |
| Power supply | | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 3N∼ 50Hz | 50Hz | 3N∼ 50Hz | 50Hz | 3N∼ 50Hz | 3N∼ 50Hz |
| | | | | | | | | | | | | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| | LPG350F | LPG500F | LPG700F | LPG850F | LPG1000F | LPG1200F | LPG1400F | LPG1600F |
|-------|---|--|--|---|--|--|---|----------|
| | | | | | | | | |
| Туре | | | | Inverter | centrifugal | | | |
| | | | | | | | | |
| m³/h | 650 | 900 | 1250 | 1400 | 1600 | 1900 | 2300 | 2400 |
| m³/h | 600 | 800 | 1100 | 1300 | 1500 | 1800 | 2100 | 2200 |
| m³/h | 500 | 700 | 1000 | 1200 | 1400 | 1600 | 1800 | 1900 |
| m³/h | 400 | 600 | 900 | 1000 | 1200 | 1400 | 1500 | 1600 |
| | | | | | | | | |
| dB(A) | 35,0 | 41,0 | 41,0 | 46,0 | 48,0 | 45,0 | 51,0 | 53,0 |
| dB(A) | 34,0 | 40,0 | 39,0 | 45,0 | 46,0 | 43,0 | 48,0 | 51,0 |
| dB(A) | 31,0 | 38,0 | 37,0 | 43,0 | 45,0 | 40,0 | 45,0 | 48,0 |
| dB(A) | 28,0 | 36,0 | 35,0 | 39,0 | 43,0 | 38,0 | 43,0 | 44,0 |
| | | | | | | | | |
| mm | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 |
| | m ³ /h m ³ /h m ³ /h m ³ /h dB(A) dB(A) dB(A) dB(A) | Type m³/h 650 m³/h 600 m³/h 500 m³/h 400 dB(A) 35,0 dB(A) 34,0 dB(A) 31,0 dB(A) 28,0 | Type m³/h 650 900 m³/h 600 800 m³/h 500 700 m³/h 400 600 dB(A) 35,0 41,0 dB(A) 34,0 40,0 dB(A) 31,0 38,0 dB(A) 28,0 36,0 | Type m³/h 650 900 1250 m³/h 600 800 1100 m³/h 500 700 1000 m³/h 400 600 900 dB(A) 35,0 41,0 41,0 dB(A) 34,0 40,0 39,0 dB(A) 31,0 38,0 37,0 dB(A) 28,0 36,0 35,0 | m³/h 650 900 1250 1400 m³/h 600 800 1100 1300 m³/h 500 700 1000 1200 m³/h 400 600 900 1000 dB(A) 35,0 41,0 41,0 46,0 dB(A) 34,0 40,0 39,0 45,0 dB(A) 31,0 38,0 37,0 43,0 dB(A) 28,0 36,0 35,0 39,0 | Type Inverter centrifugal m³/h 650 900 1250 1400 1600 m³/h 600 800 1100 1300 1500 m³/h 500 700 1000 1200 1400 m³/h 400 600 900 1000 1200 dB(A) 35,0 41,0 41,0 46,0 48,0 dB(A) 34,0 40,0 39,0 45,0 46,0 dB(A) 31,0 38,0 37,0 43,0 45,0 dB(A) 28,0 36,0 35,0 39,0 43,0 | Type Inverter centrifugal m³/h 650 900 1250 1400 1600 1900 m³/h 600 800 1100 1300 1500 1800 m³/h 500 700 1000 1200 1400 1600 m³/h 400 600 900 1000 1200 1400 1600 dB(A) 35,0 41,0 41,0 46,0 48,0 45,0 dB(A) 34,0 40,0 39,0 45,0 46,0 43,0 dB(A) 31,0 38,0 37,0 43,0 45,0 40,0 dB(A) 28,0 36,0 35,0 39,0 43,0 38,0 | Type |

Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source (1,5m for type Duct and Cassette)

INDOOR UNIT WEIGHTS AND DIMENSIONS



| | | LPG350D | LPG500D | LPG700D | LPG850D | LPG1000D | LPG1200D | LPG1400D | LPG1600D |
|--------------------------------------|----|---------|---------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 710 | 1000 | 900 | 900 | 1340 | 1340 | 1400 | 1400 |
| В | mm | 450 | 450 | 655 | 655 | 655 | 655 | 700 | 700 |
| C | mm | 200 | 200 | 260 | 260 | 260 | 260 | 300 | 300 |
| Net weight | kg | 18,00 | 24,00 | 29,50 | 29,50 | 43,00 | 43,00 | 52,00 | 55,00 |
| Dimensions and weights for transport | | | | | | | | | |
| D | mm | 1008 | 1308 | 1115 | 1115 | 1568 | 1568 | 1601 | 1601 |
| E | mm | 568 | 568 | 772 | 772 | 770 | 770 | 813 | 813 |
| F | mm | 275 | 275 | 320 | 320 | 323 | 323 | 365 | 365 |
| Weight for transport | kg | 22,00 | 29,00 | 33,50 | 33,50 | 49,00 | 49,00 | 58,00 | 62,00 |

LPG_C/CS

| | | LPG350CS | LPG500CS | LPG700C | LPG850C | LPG1000C | LPG1200C | LPG1400C | LPG1600C |
|--------------------------------------|----|----------|----------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 570 | 570 | 840 | 840 | 840 | 840 | 840 | 840 |
| В | mm | 570 | 570 | 840 | 840 | 840 | 840 | 840 | 840 |
| C | mm | 260 | 260 | 200 | 200 | 240 | 240 | 290 | 290 |
| Net weight | kg | 17,00 | 17,00 | 21,00 | 21,00 | 23,00 | 23,00 | 25,00 | 26,00 |
| Dimensions and weights for transport | | | | | | | | | |
| D | mm | 698 | 698 | 943 | 943 | 933 | 933 | 933 | 933 |
| E | mm | 653 | 653 | 923 | 923 | 903 | 903 | 903 | 903 |
| F | mm | 295 | 295 | 245 | 245 | 272 | 272 | 335 | 335 |
| Weight for transport | kg | 21,00 | 21,00 | 27,00 | 27,00 | 29,00 | 29,00 | 32,00 | 33,00 |

LPG_F

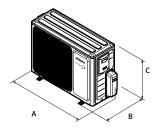
| | | LPG350F | LPG500F | LPG700F | LPG850F | LPG1000F | LPG1200F | LPG1400F | LPG1600F |
|--------------------------------------|----|---------|---------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 870 | 870 | 1200 | 1200 | 1200 | 1570 | 1570 | 1570 |
| В | mm | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 |
| C | mm | 665 | 665 | 665 | 665 | 665 | 665 | 665 | 665 |
| Net weight | kg | 24,00 | 25,00 | 31,00 | 32,00 | 32,00 | 40,00 | 42,00 | 42,00 |
| Dimensions and weights for transport | | | | | | | | | _ |
| D | mm | 973 | 973 | 1303 | 1303 | 1303 | 1669 | 1669 | 1669 |
| E | mm | 770 | 770 | 770 | 770 | 770 | 770 | 770 | 770 |
| F | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Weight for transport | kg | 28,00 | 29,00 | 36,00 | 37,00 | 37,00 | 47,00 | 49,00 | 49,00 |

Grid dimensions and weights GLG40 - GLG40S

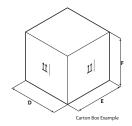
| | | GLG40S | GLG40 |
|----------------------|----|--------|-------|
| Indoor unit | | | |
| A | mm | 620 | 950 |
| В | mm | 620 | 950 |
| C | mm | 48 | 52 |
| D | mm | 701 | 1033 |
| E | mm | 701 | 1038 |
| F | mm | 125 | 112 |
| Net weight | kg | 3,00 | 6,00 |
| Weight for transport | kg | 5,00 | 10,00 |

Mandatory accessory to be provided when ordering.

OUTDOOR UNIT WEIGHTS AND DIMENSIONS



LPG350 - LCGP500 - LPG700 - LPG850 LPG1000 - LPG1000T - LPG1200 LPG1200T LPG1400 - LPG1400T - LP-G1600T



| | | LPG350 | LPG500 | LPG700 | LPG850 | LPG1000 | LPG1000T | LPG1200 | LPG1200T | LPG1400 | LPG1400T | LPG1600T |
|--------------------------------------|----|---------|---------|----------|---------|----------|-----------|---------|-----------|-----------|------------|-----------|
| Outdoor unit | | 1, 4550 | 1. 4500 | 11 07 00 | 11 4030 | 21 01000 | 21 010001 | | 11 012001 | 21 01 100 | 21 01 1001 | 21 010001 |
| A | mm | 732 | 802 | 958 | 958 | 1020 | 1020 | 1020 | 1020 | 1020 | 1020 | 1070 |
| В | mm | 330 | 350 | 402 | 402 | 427 | 427 | 427 | 427 | 427 | 427 | 427 |
| C | mm | 553 | 555 | 660 | 660 | 820 | 820 | 820 | 820 | 820 | 820 | 960 |
| Net weight | kg | 24,50 | 30,50 | 41,50 | 46,00 | 65,00 | 75,00 | 66,00 | 76,00 | 73,00 | 81,00 | 94,00 |
| Dimensions and weights for transport | - | | | | | | | | | | | |
| D | mm | 794 | 872 | 1032 | 1032 | 1095 | 1095 | 1095 | 1095 | 1095 | 1095 | 1150 |
| E | mm | 376 | 398 | 456 | 456 | 500 | 500 | 500 | 500 | 500 | 500 | 475 |
| F | mm | 605 | 609 | 730 | 730 | 955 | 955 | 955 | 955 | 955 | 955 | 1095 |
| Weight for transport | kg | 27,00 | 33,00 | 45,00 | 50,00 | 72,00 | 88,00 | 73,00 | 89,00 | 86,00 | 94,00 | 103,00 |















LCG

Monosplit

Cooling capacity 3,5 ÷ 16,0 kW Heating capacity 4,0 ÷ 17,0 kW



- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- 30% reduction of refrigerant gas compared with the previous range.
- 1 W of absorption in standby.
- SEER up to 7.2.













DESCRIPTION

The monosplit air conditioners of the LCG range are combined with:

- LCG_D for duct type horizontal installation.
- LCG_CS e LCG_C (Cassette) for false ceiling installation.
- LCG_F (Floor ceiling) wall and/or ceiling installation.

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

TYPE OF INDOOR UNIT

LCG_D indoor unit

Duct indoor unit, designed for indoor duct type horizontal installation.







- Every indoor unit comes with a remote control and a remote control holder.
- WRC20 wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- 3-speed fan, to meet every possible need.
- Auto function for a continuous speed variation.
- **Turbo** function to attain the desired temperature as quickly as possible
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

— Equipped with condensate drain pump.

LCG CS indoor unit

Indoor unit Cassette of dimensions (570x570 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

LCG_C indoor unit

Indoor unit Cassette of dimensions (840x840 mm) designed to be installed on suspended ceiling indoors.







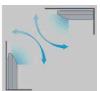
- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

LCG F indoor unit

Indoor unit **Floor ceiling** designed to be installed on the wall or ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

Low cooling function

cooling operation with outdoor temperatures down to -20 °C.

Low heating function

heating with external temperatures up to -20 °C.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.

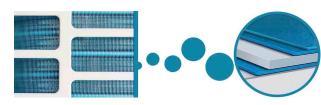






Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



TYPE OF OUTDOOR UNIT

Outdoor unit

Multisplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRC20: Wired panel with liquid crystal display and soft-touch buttons. **WRC40:** Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.

DCG: This accessory makes it possible to remotely control the main functions of the unit via the relay externally with third-party loads that are suitably powered and sized.

ECD: This accessory makes it possible to manage the switching on/off of the indoor units via the ON-OFF device, using the RS485 communication network.

MINIMODBUS20: Thanks to its compact size, this accessory can be easily installed inside the indoor unit. It allows the units to communicate with each other by providing a ModBus RTU serial on RS485 for supervision with external BMS.

WIFIKIT20: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

WIFIKIT30: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

GLG40S: Air supply and flow grid with dimensions (620x620 mm) for cassette internal unit.

GLG40: Air supply and flow grid with dimensions (950x950 mm) for cassette internal unit.

* The CC2 centralised control can manage up to 36 LCG systems.



















Accessories compatibility

LCG D

| Accessory | LCG350D | LCG500D | LCG700D | LCG850D | LCG1000D | LCG1200D | LCG1400D | LCG1600D |
|-----------|---------|---------|---------|---------|----------|----------|----------|----------|
| CC2 (1) | • | • | • | • | • | • | • | • |
| WRC20 (1) | • | • | • | • | • | • | • | • |
| WRC40 (1) | • | • | | • | | | | |

 $(1) \ Auto-restart \ function.$ The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

Wired panel WRC20 standard supply.

| Accessory | LCG350D | LCG500D | LCG700D | LCG850D | LCG1000D | LCG1200D | LCG1400D | LCG1600D |
|------------------|---------|---------|---------|---------|----------|----------|----------|----------|
| DCG | • | • | • | • | • | • | • | • |
| ECD | • | • | • | • | • | • | • | • |
| MINIMODBUS20 (1) | • | • | • | • | • | • | • | • |
| WIFIKIT20 | • | | • | • | • | • | • | |
| WIFIKIT30 | • | • | • | • | • | • | • | • |

⁽¹⁾ The units can only be routed using the wired control panel (accessory WRC20, WRC50 or WRC40). For more information about the procedure refer to the user manual.

LCG CS

| ECO_C3 | | |
|-----------|----------|----------|
| Accessory | LCG350CS | LCG500CS |
| CC2 (1) | • | |
| WRC20 (1) | • | • |
| WRC40 (1) | • | • |

(1) Auto-restart function.
The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

| Accessory | LCG350CS | LCG500CS |
|------------------|----------|----------|
| DCG | • | • |
| ECD | • | • |
| MINIMODBUS20 (1) | • | • |
| WIFIKIT20 | • | • |
| WIFIKIT30 | • | • |

(1) The units can only be routed using the wired control panel (accessory WRC20, WRC40). For more information about the procedure refer to the user manual

| (1) The dates can only be routed using the mice control panel (accessor) Three of the control more information about the procedure refer to the date mandain | | | | | | | |
|--|----------|----------|--|--|--|--|--|
| Accessory | LCG350CS | LCG500CS | | | | | |
| GLG40S (1) | • | • | | | | | |

(1) Mandatory accessory.

LCG C

| Accessory | LCG700C | LCG850C | LCG1000C | LCG1200C | LCG1400C | LCG1600C |
|-----------|---------|---------|----------|----------|----------|----------|
| CC2 (1) | • | • | • | • | • | • |
| WRC20 (1) | • | • | • | • | • | • |
| WRC40 (1) | • | • | • | • | • | • |

(1) Auto-restart function.
The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

| Accessory | LCG700C | LCG850C | LCG1000C | LCG1200C | LCG1400C | LCG1600C |
|------------------|---------|---------|----------|----------|----------|----------|
| DCG | • | • | • | • | • | • |
| ECD | • | • | • | • | • | • |
| MINIMODBUS20 (1) | • | • | • | • | • | • |
| WIFIKIT20 | • | • | • | • | • | • |
| WIFIKIT30 | • | | | | | • |

(1) The units can only be routed using the wired control panel (accessory WRC20, WRC30 or WRC40). For more information about the procedure refer to the user manual.

| Accessory | LCG700C | LCG850C | LCG1000C | LCG1200C | LCG1400C | LCG1600C |
|-----------|---------|---------|----------|----------|----------|----------|
| GLG40 (1) | • | • | • | • | • | • |

(1) Mandatory accessory.

LCG_F

| Accessory | LCG350F | LCG500F | LCG700F | LCG850F | LCG1000F | LCG1200F | LCG1400F | LCG1600F |
|-----------|---------|---------|---------|---------|----------|----------|----------|----------|
| CC2 (1) | • | • | • | • | • | • | • | • |
| WRC20 (1) | • | • | • | • | • | • | • | • |
| WRC40 (1) | • | | | | | • | | • |

(1) Auto-restart function.
The use of the CC2 centralised control requires the installation of 1 MINIMODBUS20 for each indoor unit installed.

| Accessory | LCG350F | LCG500F | LCG700F | LCG850F | LCG1000F | LCG1200F | LCG1400F | LCG1600F |
|------------------|---------|---------|---------|---------|----------|----------|----------|----------|
| DCG | • | • | • | • | • | • | • | • |
| ECD | • | • | • | • | • | • | • | • |
| MINIMODBUS20 (1) | • | • | • | • | • | • | • | • |
| WIFIKIT20 | • | • | • | • | • | • | • | • |
| WIFIKIT30 | • | • | • | • | • | • | • | • |

⁽¹⁾ The units can only be routed using the wired control panel (accessory WRC20, WRC50 or WRC40). For more information about the procedure refer to the user manual.

OUTDOOR UNIT PERFORMANCE DATA

| | | LCG350 | LCG500 | LCG700 | LCG850 | LCG1000 | LCG1000T | LCG1200 | LCG1200T | LCG1400 | LCG1400T | LCG1600T |
|--|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Outdoor unit | | | | | | | | | | | | |
| Type of fan | Туре | Inverter axial |
| Air flow rate | | | | | | | | | | | | |
| Maximum | m³/h | 3000 | 3000 | 3600 | 4000 | 5900 | 5900 | 5900 | 5900 | 5900 | 5900 | 6600 |
| Sound power (1) | | | | | | | | | | | | |
| Maximum | dB(A) | 64,0 | 65,0 | 67,0 | 69,0 | 70,0 | 70,0 | 71,0 | 71,0 | 71,0 | 72,0 | 72,0 |
| Sound pressure (2) | | | | | | | | | | | | |
| Maximum | dB(A) | 50,0 | 50,0 | 52,0 | 53,0 | 55,0 | 55,0 | 55,0 | 56,0 | 56,0 | 57,0 | 57,0 |
| Compressor | | | | | | | | | | | | |
| Tuno | tuno | Inverter |
| Туре | type | rotary |
| Refrigerant | type | R32 |
| Refrigerant charge | kg | 0,80 | 1,00 | 1,60 | 1,80 | 2,50 | 2,50 | 2,70 | 2,70 | 2,80 | 2,80 | 3,60 |
| Potential global heating | GWP | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,53 | 0,68 | 1,08 | 1,22 | 1,69 | 1,69 | 1,79 | 1,79 | 1,89 | 1,89 | 2,43 |
| Refrigeration pipework | | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| Maximum refrigerant tube length | m | 30 | 35 | 50 | 50 | 65 | 65 | 75 | 75 | 75 | 75 | 75 |
| Maximum refrigerant line level difference | m | 15,0 | 20,0 | 25,0 | 25,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 |
| Refrigerant to be added | g/m | 16 | 16 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Power supply | | | | | | | | | | | | |
| Outdoor unit nower cumby | | 220-240V ~ | 380-415V ~ | 220-240V ~ | 380-415V ~ | 220-240V ~ | 380-415V ~ | 380-415V ~ |
| Outdoor unit power supply | | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 3N ~ 50Hz | 50Hz | 3N ~ 50Hz | 50Hz | 3N ~ 50Hz | 3N ~ 50Hz |

⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744. (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

INDOOR UNIT PERFORMANCE DATA

LCG D

| Indoor unit | | LCG350D | LCG500D | LCG700D | LCG850D | LCG1000D | LCG1000D | LCG1200D | LCG1200D | LCG1400D | LCG1400D | LCG1600D |
|--|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Outdoor unit | | LCG350 | LCG500 | LCG700 | LCG850 | LCG1000 | LCG1000T | LCG1200 | LCG1200T | LCG1400 | LCG1400T | LCG1600T |
| Nominal cooling performances | | | | | | | | | | | | |
| Cooling capacity (1) | kW | 3,50 | 5,00 | 7,00 | 8,50 | 10,00 | 10,00 | 12,10 | 12,10 | 13,40 | 13,40 | 16,00 |
| Cooling input power (1) | kW | 0,95 | 1,55 | 2,10 | 2,70 | 3,20 | 3,15 | 4,10 | 3,80 | 4,45 | 4,70 | 5,45 |
| EER (2) | W/W | 3,68 | 3,23 | 3,33 | 3,15 | 3,12 | 3,17 | 2,95 | 3,18 | 3,01 | 2,85 | 2,94 |
| Moisture removed | l/h | 0,9 | 1,6 | 2,4 | 3,2 | 2,8 | 2,8 | 1,7 | 2,0 | 3,3 | 3,6 | 4,3 |
| Minimum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 0,90 | 1,60 | 2,40 | 2,40 | 3,20 | 3,20 | 3,60 | 3,60 | 6,00 | 6,00 | 6,80 |
| Cooling input power | kW | 0,20 | 0,30 | 0,40 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 4,00 | 5,50 | 8,00 | 9,00 | 11,00 | 11,00 | 12,80 | 12,80 | 14,20 | 14,20 | 16,80 |
| Cooling input power | kW | 1,35 | 1,75 | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Cooling input current | A | 4,2 | 6,3 | 8,7 | 12,1 | 13,9 | 4,8 | 17,9 | 5,3 | 19,9 | 7,2 | 7,7 |
| Seasonal efficiency | | | | | | | | | | | | |
| SEER | W/W | 6,10 | 6,10 | 6,80 | 6,10 | 6,10 | 6,10 | 5,80 | 5,80 | 6,10 | 5,60 | 6,10 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Pdesignc | kW | 3,5 | 5,0 | 7,0 | 8,5 | 10,0 | 10,0 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 200 | 277 | 357 | 480 | 571 | 577 | - | - | - | - | - |
| Nominal heating performances | | | | | | | | | | | | |
| Heating capacity (4) | kW | 4,00 | 5,50 | 8,00 | 8,80 | 12,00 | 12,00 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) | kW | 1,05 | 1,45 | 2,25 | 2,55 | 3,40 | 3,50 | 4,10 | 3,90 | 4,60 | 4,45 | 5,00 |
| COP (2) | W/W | 3,81 | 3,79 | 3,56 | 3,45 | 3,53 | 3,43 | 3,29 | 3,46 | 3,37 | 3,48 | 3,40 |
| Minimum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,50 | 2,20 | 2,40 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power | kW | 0,20 | 0,30 | 0,45 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 4,50 | 6,00 | 9,00 | 9,50 | 13,50 | 13,50 | 14,50 | 14,50 | 16,00 | 16,00 | 17,50 |
| Heating input power | kW | 1,35 | 1,75 | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Heating input current | A | 4,7 | 6,0 | 9,5 | 11,1 | 15,2 | 5,6 | 17,0 | 5,5 | 20,4 | 6,2 | 7,3 |
| Seasonal efficiency (temperate climate) | | | | | | | | | | | | |
| SCOP | W/W | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | - | - | - | - | - |
| Efficiency energy class (3) | | A+ | A+ | A+ | A+ | A+ | A+ | - | - | - | - | - |
| Pdesignh | kW | 3,10 | 4,20 | 6,40 | 7,20 | 9,00 | 9,00 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 1110 | 1469 | 2238 | 2576 | 3147 | 3218 | - | - | - | - | - |
| Electric data | | | | | | | | | _ | | | |
| Rated power input (5) | kW | 1,4 | 1,8 | 3,5 | 4,0 | 4,1 | 4,7 | 4,9 | 5,3 | 5,5 | 6,0 | 6,0 |
| Rated current input (5) | A | 6,0 | 8,0 | 16,0 | 18,0 | 18,5 | 7,0 | 22,0 | 8,0 | 25,0 | 9,0 | 9,0 |
| Refrigeration pipework | | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| | | | | | | | | | | | | |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
(3) Data in accordance with Delegated Regulation (EU) No. 626/2011.
(4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| | | LCG350D | LCG500D | LCG700D | LCG850D | LCG1000D | LCG1200D | LCG1400D | LCG1600D |
|-------------------------------|-------|---------|---------|---------|-----------------|-------------|----------|----------|---------------|
| Indoor unit | | | | | | | | | |
| Type of fan | Type | | | | Inverter | centrifugal | | | |
| Air flow rate | | | | | | | | | |
| Turbo | m³/h | 650 | 950 | 1200 | 1500 | 1800 | 2000 | 2200 | 2400 |
| Maximum | m³/h | 600 | 880 | 1160 | 1350 | 1520 | 1730 | 2000 | 1960 |
| Average | m³/h | 510 | 820 | 1090 | 1130 | 1380 | 1570 | 1730 | 1670 |
| Minimum | m³/h | 450 | 700 | 940 | 950 | 1270 | 1400 | 1490 | 1380 |
| High static pressure | | | | | | | | | |
| Nominal | Pa | 25 | 25 | 25 | 37 | 37 | 50 | 50 | 50 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 50 | 50 | 75 | 75 | 150 | 150 | 150 | 200 |
| Sound pressure (1) | | | | | | | | | |
| Turbo | dB(A) | 41,0 | 43,0 | 40,0 | 42,0 | 46,0 | 42,0 | 43,0 | 44,0 |
| Maximum | dB(A) | 38,0 | 42,0 | 39,0 | 40,0 | 44,0 | 40,0 | 41,0 | 41,0 |
| Average | dB(A) | 36,0 | 39,0 | 37,0 | 37,0 | 42,0 | 39,0 | 40,0 | 39,0 |
| Minimum | dB(A) | 34,0 | 36,0 | 32,0 | 35,0 | 40,0 | 37,0 | 38,0 | 38,0 |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 |
| Power supply | | | | | | | | | |
| Indoor unit nouver cumply | | | | | 220 2401/ 5011- | | | | 380-415V 3N ~ |
| Indoor unit power supply | | | | | 220-240V ~ 50Hz | | | | 50Hz |

⁽¹⁾ Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

LCG_CS

| Indoor unit | | LCG350CS | LCG500CS |
|--|-----------|-------------|-------------|
| Outdoor unit | | LCG350 | LCG500 |
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 3,50 | 5,00 |
| Cooling input power (1) | kW | 0,95 | 1,56 |
| EER (2) | W/W | 3,50 | 3,21 |
| Moisture removed | l/h | 1,0 | 1,8 |
| Minimum cooling performances | | | |
| Cooling capacity | kW | 0,90 | 1,60 |
| Cooling input power | kW | 0,20 | 0,30 |
| Maximum cooling performances | | | |
| Cooling capacity | kW | 4,00 | 5,50 |
| Cooling input power | kW | 1,35 | 1,75 |
| Cooling input current | A | 4,5 | 6,8 |
| Seasonal efficiency | | | |
| SEER | W/W | 5,90 | 5,90 |
| Efficiency energy class (3) | | A+ | A+ |
| Pdesignc | kW | 3,5 | 5,0 |
| Annual power consumption | kWh/annum | 213 | 296 |
| Nominal heating performances | | | |
| Heating capacity (4) | kW | 4,00 | 5,50 |
| Heating input power (4) | kW | 1,05 | 1,65 |
| COP (2) | W/W | 3,81 | 3,33 |
| Minimum heating performances | | | |
| Heating capacity | kW | 0,90 | 1,50 |
| Heating input power | kW | 0,20 | 0,30 |
| Maximum heating performances | | | |
| Heating capacity | kW | 4,50 | 6,00 |
| Heating input power | kW | 1,35 | 1,75 |
| Heating input current | A | 4,7 | 7,2 |
| Seasonal efficiency (temperate climate) | | | |
| SCOP | W/W | 4,00 | 4,00 |
| Efficiency energy class (3) | | A+ | A+ |
| Pdesignh | kW | 3,10 | 4,00 |
| Annual power consumption | kWh/annum | 1069 | 1405 |
| Electric data | | | |
| Rated power input (5) | kW | 1,4 | 1,8 |
| Rated current input (5) | A | 6,0 | 8,0 |
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

 (5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| and the second s |
|--|
| verter centrifugal |
| |
| 700 |
| 580 |
| 480 |
| 400 |
| |
| 44,0 |
| 39,0 |
| 36,0 |
| 33,0 |
| |
| 31,0 |
| |
| 20-240V ~ 50Hz |
| |

⁽¹⁾ Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

LCG C

| Indoor unit | | LCG700C | LCG850C | LCG1000C | LCG1000C | LCG1200C | LCG1200C | LCG1400C | LCG1400C | LCG1600C |
|--|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Outdoor unit | | LCG700 | LCG850 | LCG1000 | LCG1000T | LCG1200 | LCG1200T | LCG1400 | LCG1400T | LCG1600T |
| Nominal cooling performances | | | | | | | | | | |
| Cooling capacity (1) | kW | 7,00 | 8,50 | 10,00 | 10,00 | 12,10 | 12,10 | 13,40 | 13,40 | 14,50 |
| Cooling input power (1) | kW | 2,05 | 2,80 | 3,15 | 3,00 | 4,10 | 4,05 | 4,65 | 4,70 | 5,20 |
| EER (2) | W/W | 3,41 | 3,04 | 3,17 | 3,33 | 2,95 | 2,99 | 2,88 | 2,85 | 2,79 |
| Moisture removed | I/h | 2,4 | 2,9 | 3,5 | 4,0 | 4,1 | 4,0 | 4,7 | 4,3 | 5,3 |
| Minimum cooling performances | | | | | | | | | | |
| Cooling capacity | kW | 2,40 | 2,40 | 3,20 | 3,20 | 3,60 | 3,60 | 6,00 | 6,00 | 6,50 |
| Cooling input power | kW | 0,40 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum cooling performances | | | | | | | | | | |
| Cooling capacity | kW | 8,00 | 9,00 | 11,00 | 11,00 | 12,80 | 12,80 | 14,20 | 14,20 | 15,00 |
| Cooling input power | kW | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Cooling input current | A | 8,8 | 12,7 | 13,8 | 5,0 | 17,5 | 5,9 | 20,8 | 7,2 | 7,6 |
| Seasonal efficiency | | | | | | | | | | |
| SEER | W/W | 7,20 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Pdesignc | kW | 7,0 | 8,5 | 10,0 | 10,0 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 340 | 472 | 566 | 553 | - | - | - | - | - |
| Nominal heating performances | | | | | | | | | | |
| Heating capacity (4) | kW | 8,00 | 8,80 | 12,00 | 12,00 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) | kW | 2,20 | 2,65 | 3,55 | 3,40 | 4,20 | 4,15 | 4,35 | 4,45 | 4,80 |
| COP (2) | W/W | 3,64 | 3,32 | 3,38 | 3,53 | 3,21 | 3,25 | 3,56 | 3,48 | 3,54 |
| Minimum heating performances | | | | | | | | | | |
| Heating capacity | kW | 2,20 | 2,40 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power | kW | 0,45 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum heating performances | | | | | | | | | | |
| Heating capacity | kW | 9,00 | 9,50 | 13,50 | 13,50 | 14,50 | 14,50 | 16,00 | 16,00 | 17,50 |
| Heating input power | kW | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Heating input current | A | 9,5 | 11,7 | 15,7 | 5,3 | 18,0 | 6,1 | 19,5 | 6,2 | 7,2 |
| Seasonal efficiency (temperate climate) | | | | | | | | | | |
| SCOP | W/W | 3,90 | 4,00 | 4,00 | 4,00 | 3,80 | 3,80 | 3,60 | 4,00 | 3,80 |
| Efficiency energy class (3) | | A | A+ | A+ | A+ | - | - | - | - | - |
| Pdesignh | kW | 6,40 | 7,20 | 9,00 | 9,00 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 2297 | 2616 | 3139 | 3168 | - | - | - | - | - |
| Electric data | | | | | | | | | | |
| Rated power input (5) | kW | 3,5 | 4,0 | 4,1 | 4,7 | 4,9 | 5,3 | 5,5 | 6,0 | 6,0 |
| Rated current input (5) | A | 16,0 | 18,0 | 18,5 | 7,0 | 22,0 | 8,0 | 25,0 | 9,0 | 9,0 |
| Refrigeration pipework | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

 (5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

| | | LCG700C | LCG850C | LCG1000C | LCG1200C | LCG1400C | LCG1600C |
|-------------------------------|-------|---------|---------|-----------------|------------|----------|--------------------|
| Indoor unit | | | | | | | |
| Type of fan | Туре | | | Inverter o | entrifugal | | |
| Air flow rate | | | | | | | |
| Turbo | m³/h | 1100 | 1400 | 1500 | 1800 | 1900 | 2000 |
| Maximum | m³/h | 1050 | 1310 | 1470 | 1690 | 1690 | 1880 |
| Average | m³/h | 960 | 1180 | 1380 | 1470 | 1480 | 1620 |
| Minimum | m³/h | 870 | 1040 | 1220 | 1260 | 1140 | 1430 |
| Sound pressure (1) | | | | | | | |
| Turbo | dB(A) | 43,0 | 49,0 | 50,0 | 51,0 | 52,0 | 54,0 |
| Maximum | dB(A) | 42,0 | 47,0 | 48,0 | 49,0 | 51,0 | 52,0 |
| Average | dB(A) | 40,0 | 44,0 | 46,0 | 46,0 | 48,0 | 50,0 |
| Minimum | dB(A) | 39,0 | 41,0 | 42,0 | 42,0 | 45,0 | 48,0 |
| Indoor unit | | | | | | | |
| Condensate discharge diameter | mm | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 | 30,0 |
| Power supply | | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | | | 380-415V 3N ~ 50Hz |

⁽¹⁾ Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

LCG F

| LCG_F | | | | | | | | | | | | |
|--|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Indoor unit | | LCG350F | LCG500F | LCG700F | LCG850F | LCG1000F | LCG1000F | LCG1200F | LCG1200F | LCG1400F | LCG1400F | LCG1600F |
| Outdoor unit | | LCG350 | LCG500 | LCG700 | LCG850 | LCG1000 | LCG1000T | LCG1200 | LCG1200T | LCG1400 | LCG1400T | LCG1600T |
| Nominal cooling performances | | | | | | | | | | | | |
| Cooling capacity (1) | kW | 3,50 | 5,00 | 7,00 | 8,50 | 10,00 | 10,00 | 12,10 | 12,10 | 13,40 | 13,40 | 16,00 |
| Cooling input power (1) | kW | 0,95 | 1,55 | 1,90 | 2,80 | 3,30 | 3,30 | 3,90 | 4,05 | 4,40 | 4,30 | 5,40 |
| EER (2) | W/W | 3,89 | 3,23 | 3,68 | 3,04 | 3,03 | 3,03 | 3,10 | 2,99 | 3,05 | 3,12 | 2,96 |
| Moisture removed | I/h | 0,5 | 1,6 | 1,4 | 2,6 | 3,1 | 3,5 | 3,3 | 3,5 | 3,3 | 3,4 | 5,9 |
| Minimum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 0,90 | 1,60 | 2,40 | 2,40 | 3,20 | 3,20 | 3,60 | 3,60 | 6,00 | 6,00 | 6,35 |
| Cooling input power | kW | 0,20 | 0,30 | 0,40 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum cooling performances | | | | | | | | | | | | |
| Cooling capacity | kW | 4,00 | 5,50 | 8,00 | 9,00 | 11,00 | 11,00 | 12,80 | 12,80 | 14,20 | 14,20 | 16,50 |
| Cooling input power | kW | 1,35 | 1,75 | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Cooling input current | A | 4,0 | 6,5 | 8,6 | 12,7 | 14,5 | 5,1 | 15,7 | 5,9 | 19,5 | 6,6 | 7,7 |
| Seasonal efficiency | | | | | | | | | | | | |
| SEER | W/W | 6,70 | 6,10 | 6,80 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,30 | 6,10 | 6,10 |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ | A++ | A++ | - | - | - | - | - |
| Pdesignc | kW | 3,5 | 5,0 | 7,0 | 8,5 | 10,0 | 10,0 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 177 | 284 | 359 | 477 | 573 | 561 | - | - | - | - | - |
| Nominal heating performances | | | | | | | | | | | | |
| Heating capacity (4) | kW | 4,00 | 5,50 | 8,00 | 8,80 | 12,00 | 12,00 | 13,50 | 13,50 | 15,50 | 15,50 | 17,00 |
| Heating input power (4) | kW | 1,05 | 1,60 | 2,45 | 2,65 | 3,60 | 3,50 | 3,95 | 4,00 | 4,35 | 4,40 | 5,40 |
| COP (2) | W/W | 4,21 | 3,44 | 3,27 | 3,32 | 3,33 | 3,43 | 3,42 | 3,38 | 3,56 | 3,52 | 3,15 |
| Minimum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 0,90 | 1,50 | 2,20 | 2,40 | 3,00 | 3,00 | 3,60 | 3,60 | 3,90 | 3,90 | 4,50 |
| Heating input power | kW | 0,20 | 0,30 | 0,45 | 0,50 | 0,60 | 0,60 | 0,70 | 0,60 | 0,80 | 0,80 | 0,85 |
| Maximum heating performances | | | | | | | | | | | | |
| Heating capacity | kW | 4,50 | 6,00 | 9,00 | 9,50 | 13,50 | 13,50 | 14,50 | 14,50 | 16,00 | 16,00 | 17,50 |
| Heating input power | kW | 1,35 | 1,75 | 3,50 | 3,95 | 4,05 | 4,05 | 4,85 | 5,30 | 5,50 | 5,95 | 5,95 |
| Heating input current | A | 4,2 | 6,9 | 10,5 | 11,7 | 15,9 | 5,6 | 16,8 | 6,1 | 19,4 | 6,7 | 7,6 |
| Seasonal efficiency (temperate climate) | | | | | | | | | | | | |
| SCOP | W/W | 4,00 | 4,00 | 3,90 | 4,00 | 4,00 | 4,00 | 3,80 | 3,80 | 3,70 | 4,00 | 4,00 |
| Efficiency energy class (3) | | A+ | A+ | A+ | A+ | A+ | A+ | - | - | - | - | - |
| Pdesignh | kW | 3,10 | 4,00 | 6,40 | 7,20 | 9,00 | 9,00 | - | - | - | - | - |
| Annual power consumption | kWh/annum | 1040 | 1394 | 2295 | 2577 | 3149 | 3146 | - | - | - | - | - |
| Electric data | | | | | | | | | | | | |
| Rated power input (5) | kW | 1,4 | 1,8 | 3,5 | 4,0 | 4,1 | 4,7 | 4,9 | 5,3 | 5,5 | 6,0 | 6,0 |
| Rated current input (5) | A | 6,0 | 8,0 | 16,0 | 18,0 | 18,5 | 7,0 | 22,0 | 8,0 | 25,0 | 9,0 | 9,0 |
| Refrigeration pipework | | | | | | | | | | * | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| | | | | , | | | | | | | | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

 (3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

 (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

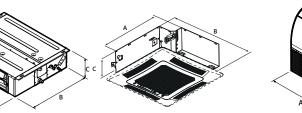
 (5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

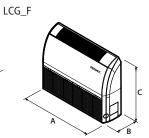
| | | LCG350F | LCG500F | LCG700F | LCG850F | LCG1000F | LCG1200F | LCG1400F | LCG1600F |
|-------------------------------|-------|-----------------|---------|---------|----------|-------------|----------|----------|-----------------------|
| Indoor unit | | | | | | | | | |
| Type of fan | Туре | | | | Inverter | centrifugal | | | |
| Air flow rate | | | | | | | | | |
| Turbo | m³/h | 650 | 850 | 1300 | 1500 | 1600 | 1800 | 2100 | 2300 |
| Maximum | m³/h | 610 | 800 | 1220 | 1380 | 1500 | 1700 | 2000 | 2200 |
| Average | m³/h | 530 | 700 | 1090 | 1200 | 1350 | 1540 | 1800 | 1870 |
| Minimum | m³/h | 460 | 600 | 940 | 1020 | 1260 | 1400 | 1480 | 1590 |
| Sound pressure (1) | | | | | | | | | |
| Turbo | dB(A) | 39,0 | 44,0 | 45,0 | 49,0 | 49,0 | 49,0 | 52,0 | 54,0 |
| Maximum | dB(A) | 36,0 | 42,0 | 44,0 | 47,0 | 47,0 | 47,0 | 50,0 | 53,0 |
| Average | dB(A) | 32,0 | 39,0 | 41,0 | 43,0 | 45,0 | 44,0 | 48,0 | 49,0 |
| Minimum | dB(A) | 28,0 | 36,0 | 38,0 | 39,0 | 43,0 | 42,0 | 44,0 | 45,0 |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 |
| Power supply | · | | | | | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | | | | | | | 380-415V 3N ~ 50Hz |

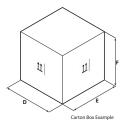
⁽¹⁾ Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

INDOOR UNIT WEIGHTS AND DIMENSIONS









LCG_D

| | | LCG350D | LCG500D | LCG700D | LCG850D | LCG1000D | LCG1200D | LCG1400D | LCG1600D |
|----------------------|----|---------|---------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 700 | 1000 | 1300 | 1300 | 1000 | 1400 | 1400 | 1400 |
| В | mm | 450 | 450 | 450 | 450 | 700 | 700 | 700 | 700 |
| C | mm | 200 | 200 | 220 | 220 | 300 | 300 | 300 | 300 |
| D | mm | 1008 | 1308 | 1628 | 1628 | 1205 | 1601 | 1601 | 1678 |
| E | mm | 568 | 568 | 578 | 578 | 813 | 813 | 813 | 808 |
| F | mm | 275 | 275 | 300 | 300 | 360 | 365 | 365 | 365 |
| Net weight | kg | 20,00 | 26,00 | 31,00 | 31,00 | 41,00 | 50,00 | 50,00 | 57,00 |
| Weight for transport | kg | 24,00 | 31,00 | 36,00 | 36,00 | 47,00 | 56,00 | 56,00 | 64,00 |

LCG_CS

| | | LCG350CS | LCG500CS |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 570 | 570 |
| В | mm | 570 | 570 |
| C | mm | 265 | 265 |
| D | mm | 698 | 698 |
| E | mm | 653 | 653 |
| F | mm | 300 | 300 |
| Net weight | kg | 17,00 | 17,00 |
| Weight for transport | kg | 22,00 | 22,00 |

LCG_C

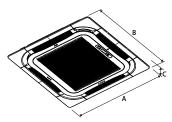
| | | LCG700C | LCG850C | LCG1000C | LCG1200C | LCG1400C | LCG1600C |
|----------------------|----|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | |
| A | mm | 840 | 840 | 840 | 840 | 840 | 840 |
| В | mm | 840 | 840 | 840 | 840 | 840 | 840 |
| С | mm | 240 | 240 | 240 | 290 | 290 | 290 |
| D | mm | 963 | 963 | 963 | 963 | 963 | 963 |
| E | mm | 963 | 963 | 963 | 963 | 963 | 963 |
| F | mm | 325 | 325 | 325 | 379 | 379 | 379 |
| Net weight | kg | 29,00 | 29,00 | 31,00 | 33,00 | 36,00 | 36,00 |
| Weight for transport | kg | 36,00 | 36,00 | 38,00 | 41,00 | 44,00 | 44,00 |

LCG_F

| ECO_1 | | | | | | | | | |
|----------------------|----|---------|---------|---------|---------|----------|----------|----------|----------|
| | | LCG350F | LCG500F | LCG700F | LCG850F | LCG1000F | LCG1200F | LCG1400F | LCG1600F |
| Indoor unit | ' | | | | | | | | |
| A | mm | 870 | 870 | 1200 | 1200 | 1200 | 1570 | 1570 | 1570 |
| В | mm | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 |
| C | mm | 665 | 665 | 665 | 665 | 665 | 665 | 665 | 665 |
| D | mm | 1033 | 1033 | 1033 | 1033 | 1363 | 1729 | 1729 | 1729 |
| E | mm | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| F | mm | 770 | 770 | 770 | 770 | 770 | 770 | 770 | 770 |
| Net weight | kg | 25,00 | 26,00 | 31,00 | 31,00 | 32,00 | 40,00 | 42,00 | 42,00 |
| Weight for transport | kg | 30,00 | 31,00 | 37,00 | 37,00 | 38,00 | 47,00 | 49,00 | 49,00 |

Grid dimensions and weights

GLG40S / GLG40



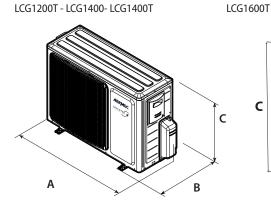
GLG40 - GLG40S

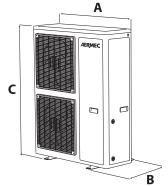
| | | GLG40S | GLG40 |
|----------------------|----|--------|-------|
| Indoor unit | | | |
| A | mm | 620 | 950 |
| В | mm | 620 | 950 |
| C | mm | 48 | 52 |
| D | mm | 701 | 1033 |
| E | mm | 701 | 1038 |
| F | mm | 125 | 112 |
| Net weight | kg | 3,00 | 6,00 |
| Weight for transport | kg | 5,00 | 10,00 |

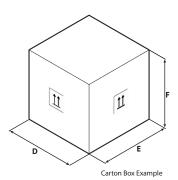
Mandatory accessory to be provided when ordering.

OUTDOOR UNIT WEIGHTS AND DIMENSIONS

LCG350 - LCG500 - LCG700 - LCG850 LCG1000 - LCG1000T - LCG1200







| | | LCG350 | LCG500 | LCG700 | LCG850 | LCG1000 | LCG1000T | LCG1200 | LCG1200T | LCG1400 | LCG1400T | LCG1600T |
|----------------------|----|--------|--------|--------|--------|---------|----------|---------|----------|---------|----------|----------|
| Outdoor unit | | | | | | | | | | | | |
| A | mm | 818 | 818 | 892 | 920 | 940 | 940 | 940 | 940 | 940 | 940 | 900 |
| В | mm | 302 | 302 | 340 | 370 | 460 | 460 | 460 | 460 | 460 | 460 | 340 |
| C | mm | 596 | 596 | 698 | 790 | 820 | 820 | 820 | 820 | 820 | 820 | 1345 |
| D | mm | 948 | 948 | 1029 | 1083 | 1073 | 1073 | 1073 | 1073 | 1073 | 1073 | 1033 |
| E | mm | 420 | 420 | 458 | 488 | 563 | 563 | 563 | 563 | 563 | 563 | 443 |
| F | mm | 645 | 645 | 750 | 855 | 835 | 835 | 835 | 835 | 835 | 835 | 1395 |
| Net weight | kg | 37,00 | 39,00 | 53,00 | 60,00 | 83,00 | 89,00 | 91,00 | 95,00 | 95,00 | 99,00 | 112,00 |
| Weight for transport | kg | 40,00 | 42,00 | 57,00 | 65,00 | 95,00 | 101,00 | 103,00 | 107,00 | 107,00 | 111,00 | 122,00 |

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MVAS

Monosplit high head duct

Cooling capacity 22,4 ÷ 28,0 kW Heating capacity 24,0 ÷ 30,0 kW



- Suitable for long-distance channels.
- Effective static pressure that can reach 150 Pa.
- Special coil with fin golden coating.



DESCRIPTION

The monosplit air conditioners of the MVAS range are combined with MVA_DH monosplit (high head duct) indoor units for duct type horizontal installation.

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

FEATURES







Indoor unit

High head duct indoor unit, designed for indoor duct type horizontal installation.

- Every indoor unit comes with a remote control and a remote control holder.
- WRC wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- 5-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.

- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

Outdoor unit

Monosplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Easy installation and maintenance.

ACCESSORIES

MVAGW: This accessory allows you to manage up to 16 MV systems (with a maximum of 255 total indoor units), making available a serial in

ModBus RTU protocol on RS485, ModBus TCP or BACnet / IP for supervision with an external BMS.

USBDC: The kit includes a converter (from CanBus to ModBus) and the VRF debugger software. IT is designed to meet the requirements of after sales services and qualified technicians who need to carry out control and debugging procedures on the MV_ranges.

WRC: Wired panel with liquid crystal display and soft-touch buttons.

WRC1: Simplified wired panel with liquid crystal display and soft-touch buttons with built-in external contact. This panel is particularly suitable for hotel applications.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.



PERFORMANCE SPECIFICATIONS

| Indoor unit | | MVA2240DH | MVA2800DH |
|------------------------------|-----|-----------|-----------|
| Outdoor unit | | MVAS2242T | MVAS2802T |
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 22,40 | 28,00 |
| Cooling input power (1) | kW | 6,12 | 7,78 |
| Cooling input current | A | 10,9 | 13,9 |
| EER (2) | W/W | 3,66 | 3,60 |
| Nominal heating performances | | | |
| Heating capacity (3) | kW | 24,00 | 30,00 |
| Heating input power (3) | kW | 4,90 | 6,12 |
| Heating input current | A | 8,8 | 10,9 |
| COP (2) | W/W | 4,90 | 4,90 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.
 (3) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

INDOOR UNIT

| | | MVA2240DH | MVA2800DH |
|-------------------------------|-------|----------------------|----------------------|
| Indoor unit | | | |
| Type of fan | Туре | Inverter centrifugal | Inverter centrifugal |
| Air flow rate | | | |
| Maximum | m³/h | 4000 | 4400 |
| High static pressure | | | |
| Nominal | Pa | 150 | 150 |
| Sound power (1) | | | |
| Maximum | dB(A) | 64,0 | 65,0 |
| Average | dB(A) | 62,0 | 62,0 |
| Minimum | dB(A) | 59,0 | 60,0 |
| Sound pressure (2) | | | |
| Maximum | dB(A) | 54,0 | 55,0 |
| Average | dB(A) | 52,0 | 52,0 |
| Minimum | dB(A) | 49,0 | 50,0 |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 30,0 | 30,0 |

- (1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
- (2) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

OUTDOOR UNIT

| | | MVAS2242T | MVAS2802T |
|--------------------------|-------|-----------------|-----------------|
| Outdoor unit | | | |
| Type of fan | Туре | Inverter axial | Inverter axial |
| Sound power (1) | | | |
| Maximum | dB(A) | 74,0 | 74,0 |
| Compressor | | | |
| Туре | type | Inverter rotary | Inverter rotary |
| Refrigerant | type | R410A | R410A |
| Potential global heating | GWP | 2088kgCO₂eq | 2088kgCO₂eq |

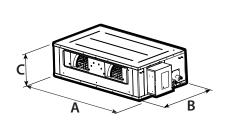
⁽¹⁾ Sound power calculated in free field, in accordance with UNI EN ISO 3744.

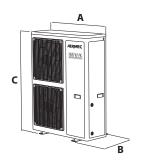
GENERAL DATA

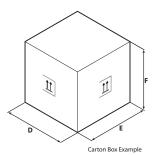
| Indoor unit | | MVA2240DH | MVA2800DH |
|--|-----------|----------------------|----------------------|
| Outdoor unit | | MVAS2242T | MVAS2802T |
| Electric data | | | |
| Rated power input (1) | kW | 9,6 | 12,5 |
| Refrigeration pipework | | | |
| Type refrigerant connections | Туре | To be soldered | To be soldered |
| Diameter of liquid refrigerant connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 19,05 (3/4") | 22,2 (7/8") |
| Power supply | | | |
| Power supply | | 380-415V ~ 3N ~ 50Hz | 380-415V ~ 3N ~ 50Hz |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40. NB: the quantity of refrigerant gas to be added refers to a line length greater than 5 m.

DIMENSIONS AND WEIGHTS







| | | MVA2240DH | MVA2800DH |
|----------------------|----|-----------|-----------|
| Indoor unit | | | |
| A | mm | 1483 | 1686 |
| В | mm | 791 | 870 |
| C | mm | 385 | 450 |
| D | mm | 1758 | 1788 |
| E | mm | 883 | 988 |
| F | mm | 470 | 580 |
| Net weight | kg | 82,00 | 105,00 |
| Weight for transport | kg | 104,00 | 140,00 |
| | | MVAS2242T | MVAS2802T |
| Outdoor unit | | | |
| A | mm | 940 | 940 |
| В | mm | 1430 | 1615 |
| (| mm | 320 | 460 |
| D | mm | 1038 | 1038 |
| E | mm | 1580 | 1765 |
| F | mm | 438 | 578 |
| Net weight | kg | 133,00 | 166,00 |
| Weight for transport | kg | 144,00 | 183,00 |

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MLG

Multisplit

Cooling capacity 4,1 \div 12,0 kW Heating capacity 4,4 \div 13,0 kW



- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- Modern design to blend with all furnishing styles.
- Special coil with fin blue coating.







DESCRIPTION

The multisplit air conditioners of the MLG range are combined with:

- SMG_W (Wall) for wall installation.
- SLG_W (Wall) for wall installation.
- CKG_FS (Console) for wall installation.
- MLG_D to be installed horizontally indoors.
- MLG_CS e MLG_C (Cassette) for false ceiling installation.
- MLG_F (Floor ceiling) wall and/or ceiling installation.
- MLG_FS (Console) for wall installation.

The outdoor unit features a compressor with inverter technology, an electronic valve and electric heater to ensure proper winter operation and prevent ice formation on the coil.

TYPE OF INDOOR UNIT

SMG_W indoor unit

Wall indoor unit designed to be installed on indoor walls. Universal indoor units: all indoor units can be combined with both multisplit outdoor units of the series MLG and monosplit outdoor units of the series SMG.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
 3-speed fan, to meet every possible need.

- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Air Purifiers (Cold Plasma) is able to reduce pollutants.
- Standard Wi-Fi module.

Smart APP Ewpe

The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.

SLG Windoor unit

Wall indoor unit designed to be installed on indoor walls.

Universal indoor units: some indoor units can be combined with both multisplit outdoor units of the series MLG and monosplit outdoor units of the series SLG:

| SLG | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W |
|--|---------|---------|---------|---------|---------|
| Universal indoor units compatible with MLG multisplit system | | | • | • | |
| Multisplit indoor units | • | | | | |







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Possibility of Wi-Fi control.

Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.

CKG FS indoor unit

Console indoor unit designed to be installed on indoor floors.

Universal indoor units: some indoor units can be combined with both multisplit outdoor units of the series MLG and monosplit outdoor units of the series CKG:

| CKG_FS | CKG260FS | CKG360FS | CKG500FS |
|--|----------|----------|----------|
| Universal indoor units compatible with MLG | _ | | |
| multisplit system | • | • | |



- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.

866

- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Indoor unit front panel with LED display and indicator lights.
- 5-speed fan, to meet every possible need.
- Auto function for a continuous speed variation.

- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Air Purifiers (Cold Plasma) is able to reduce pollutants.
- Standard Wi-Fi module.

Single air delivery





Dual air delivery (default)





Intake



Smart APP Ewpe

The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.

MLG D indoor unit

Indoor unit designed to be fitted horizontally on indoor walls.







- Every indoor unit comes with a remote control and a remote control holder.
- WRCA wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- 3-speed fan, to meet every possible need.
- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MLG_CS indoor unit

Indoor unit **Cassette** of dimensions (600x600 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MLG Cindoor unit

Indoor unit **Cassette** of dimensions (840x840 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MLG_F indoor unit

Indoor unit **Floor ceiling** designed to be installed on the wall or ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

MLG FS indoor unit

A **Console** indoor unit designed to be installed on indoor floors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 5-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Air Purifiers (Cold Plasma) is able to reduce pollutants.
- Standard Wi-Fi module.

Single air delivery





Dual air delivery (default)





Intake



General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Systems with multi-line refrigerant connections, where every indoor unit is connected directly to the outdoor unit via dedicated refrigerant lines.
- Easy installation and maintenance.

Low cooling function

cooling operation with outdoor temperatures down to -15 °C.

Low heating function

heating with external temperatures up to:

| Models | Temperature up to -20 °C | Temperature up to -22 °C |
|---------|--------------------------|--------------------------|
| MLG420 | | • |
| MLG520 | | • |
| MLG630 | | • |
| MLG730 | | • |
| MLG840 | | • |
| MLG1040 | • | |
| MLG1250 | • | |

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.



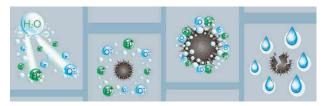
Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.



SUPPLIED COMPONENTS FOR INDOOR UNITS

| Models | SMG_W | SLG_W | CKG_FS | MLG_D | MLG_CS | MLG_C | MLG_F | MLG_FS |
|-----------------------------|-------|-------|--------|-------|--------|-------|-------|--------|
| Remote control | • | • | • | • | • | • | • | • |
| Remote control holder | • | • | • | • | • | • | • | • |
| WRCA wired panel | | | | • | | | | |
| Air Purifiers (Cold Plasma) | • | | • | | | | | • |
| Condensate discharge pump | | | | • | • | • | | |
| Wi-Fi module | • | | • | | | | | • |

TYPE OF OUTDOOR UNIT

Outdoor unit

Multisplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

Types:

- Dualsplit: outdoor units MLG420 and MLG520 can be combined with 1 or 2 indoor units.
- Trialsplit: outdoor units MLG630 and MLG730 can be combined with 2 or 3 indoor units.
- Quadrisplit: outdoor units MLG840 and MLG1040 can be combined with 2, 3 or 4 indoor units.
- Pentasplit: outdoor unit MLG1250 can be combined with 2, 3, 4 or 5 indoor units.

Main features:

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRCA: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.

DCK: Remote Contact Kit. This accessory allows you to switch the system on and off using an external contact.

WIFIKIT: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

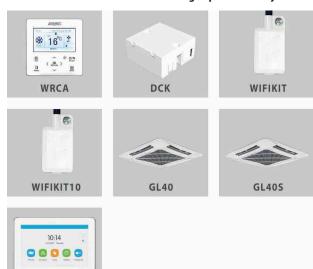
WIFIKIT10: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

The accessories WRCA and WIFIKIT / WIFIKIT10 are compatible with one another and can therefore be connected to the same indoor unit simultaneously.

GL405: Air supply and flow grid with dimensions (600x600 mm) for cassette internal unit.

GL40: Air supply and flow grid with dimensions (840x840 mm) for cassette internal unit.

* The CC2 centralised control can manage up to 36 MLG systems.



CC2

ACCESSORIES COMPATIBILITY

SLG_W

| Accessory | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W |
|----------------------------|---------|---------|---------|---------|---------|
| CC2 (1) | • | • | • | • | • |
| WRCA (1) | • | • | • | • | • |
| (1) Auto-restart function. | | | | | |
| Accessory | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W |
| DCK | • | • | • | • | • |
| WIFIKIT | | | | • | • |
| WIFIKIT10 | • | • | | | |

CKG_FS

| Accessory | CKG260FS | CKG360FS |
|-----------|----------|----------|
| CC2 (1) | • | • |
| WRCA (1) | • | • |

(1) Auto-restart function.

MLG_FS

| Accessory | MLG500FS | |
|-----------|----------|--|
| CC2 (1) | • | |
| WRCA (1) | • | |

(1) Auto-restart function.

MLG_D

| | | | | | | - |
|-----------|---------|---------|---------|---------|---------|---|
| Accessory | MLG250D | MLG350D | MLG500D | MLG600D | MLG700D | |
| ((2 (1) | • | • | • | • | • | Ī |

(1) Auto-restart function.
The WRCA accessory is supplied with the MLG_D indoor units.

MLG_CS

| Accessory | MLG350CS | MLG500CS |
|----------------------------|----------|----------|
| CC2 (1) | • | • |
| WRCA (1) | • | • |
| (1) Auto-restart function. | | |

| Accessory | MLG350CS | MLG500CS |
|-----------|----------|----------|
| DCK | • | • |
| Accessory | MLG350CS | MLG500CS |
| GL40S (1) | • | |

⁽¹⁾ Mandatory accessory.

MLG_C

| Accessory | MLG700C |
|----------------------------|---------|
| CC2 (1) | • |
| WRCA (1) | • |
| (1) Auto-restart function. | |

| Accessory | MLG700C |
|-----------|---------|
| DCK | • |
| Accessory | MLG700C |
| GL40 (1) | • |

⁽¹⁾ Mandatory accessory.

MLG_F

| Accessory | MLG250F | MLG350F | MLG500F | MLG700F |
|-----------|---------|---------|---------|---------|
| CC2 (1) | • | • | • | • |
| WRCA (1) | • | • | • | • |

⁽¹⁾ Auto-restart function.

INDOOR UNIT VERSIONS AVAILABLE

| Nominal cooling capacity in kBTU/h | | | | Indoo | r units | | | |
|------------------------------------|---------|---------|----------|---------|----------|---------|---------|----------|
| 7 | | SLG200W | | | | | | |
| 9 | SMG270W | SLG250W | CKG260FS | MLG250D | | | MLG250F | |
| 12 | SMG350W | SLG350W | CKG360FS | MLG350D | MLG350CS | | MLG350F | |
| 18 | | SLG500W | | MLG500D | MLG500CS | | MLG500F | MLG500FS |
| 21 | | | | MLG600D | | | | |
| 24 | | SLG700W | | MLG700D | | MLG700C | MLG700F | |

ALLOWED COMBINATIONS OF INDOOR UNITS

Trialsplit, quadrisplit, pentasplit: it is mandatory to install at least 2 indoor units for correct functioning of the system.

For further information, please refer to the technical documentation on the website www.aermec.com

| | 6420 BTU/h) | | 5520 BTU/h) | | G630 BTU/h) | | G730 BTU/h) | | MLG84 | /h) | | MLG104 (36kBTU) | | MLG1250 (42kBTU/h) | | | |
|----|----------------|----|----------------|-------------|-------------------|-------------|------------------------|--------------|-----------------|---------------------|--|----------------------|-----------------------|-----------------------|--------------------|--------------------------|--------------------------------|
| | _ | _ | _ | _ | | _ | - | | N° Indoo | | _ | | | | | | |
| 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 2 | 3 | 4 | 5 |
| 7 | 7+7 | 9 | 7+7 | 7+7 | 7+7+7 | 7+7 | 7+7+7 | 7+7 | 7+7+7 | 7+7+7+7 | 7+12 | 7+7+7 | 7+7+7+7 | 7+18 | 7+7+7 | 7+7+7+7 | 7+7+7+7 |
| 9 | 7+9 | 12 | 7+9 | 7+9 | 7+7+9 | 7+9 | 7+7+9 | 7+9 | 7+7+9 | 7+7+7+9 | 7+18 | 7+7+9 | 7+7+7+9 | 7+21 | 7+7+9 | 7+7+7+9 | 7+7+7+7+9 |
| 12 | 7+12 9+9 | | 7+12 | 7+12 | 7+7+12 | 7+12 | 7+7+12 | 7+12 7+18 | 7+7+12 | 7+7+7+12 | 7+21 | 7+7+12 | 7+7+7+12 | 7+24 | 7+7+12 | 7+7+7+12 | 7+7+7+7+12 |
| | | | 9+9 | 7+18 9+9 | 7+9+9 | 7+18 | 7+7+18 7+9+9 | 9+9 | 7+7+18 7+9+9 | 7+7+7+18 7+7+9+9 | 7+24 | 7+7+18 | 7+7+7+18 | 9+12 9+18 | 7+7+18 | 7+7+7+18 7+7+7+21 | 7+7+7+7+18 7+7+7+7+21 |
| | 9+12 | | 9+12 12+12 | 9+9 | 7+9+12 7+12+12 | 9+9 9+12 | 7+9+12 | 9+12 | 7+9+9 | 7+7+9+9 | 9+9 9+12 | 7+7+21 7+7+24 | 7+7+7+21 7+7+7+24 | 9+10 | 7+7+21 7+7+24 | 7+7+7+21 | 7+7+7+7+21 |
| | | | 12+12 | 9+12 | 9+9+9 | 9+12 | 7+9+12 | 9+12 | 7+9+12 | 7+7+9+12 | 9+12 | 7+7+24 | 7+7+7+24 | 9+21 | 7+7+24 | 7+7+7+24 | 7+7+7+24 |
| | | | | 12+12 | 9+9+12 | 12+12 | 7+12+12 | 12+12 | 7+12+12 | 7+7+12+12 | 9+21 | 7+9+12 | 7+7+9+12 | 12+12 | 7+9+12 | 7+7+9+12 | 7+7+7+9+12 |
| | | | | 12+18 | 212112 | 12+18 | 9+9+9 | 12+18 | 7+12+18 | 7+9+9+9 | 9+24 | 7+9+18 | 7+7+9+18 | 12+18 | 7+9+18 | 7+7+9+18 | 7+7+7+9+18 |
| | | | | 12110 | | 18+18 | 9+9+12 | 18+18 | 9+9+9 | 7+9+9+12 | 12+12 | 7+9+21 | 7+7+9+21 | 12+21 | 7+9+21 | 7+7+9+21 | 7+7+7+9+21 |
| | | | | | | 10110 | 9+9+18 | 10110 | 9+9+12 | 7+9+12+12 | 12+18 | 7+9+24 | 7+7+9+24 | 12+24 | 7+9+24 | 7+7+9+24 | 7+7+7+9+24 |
| | | | | | | | 9+12+12 | | 9+9+18 | 9+9+9+9 | 12+21 | 7+12+12 | 7+7+12+12 | 18+18 | 7+12+12 | 7+7+12+12 | 7+7+7+12+12 |
| | | | | | | | 12+12+12 | | 9+12+12 | 9+9+9+12 | 12+24 | 7+12+18 | 7+7+12+18 | 18+21 | 7+12+18 | 7+7+12+18 | 7+7+7+12+18 |
| | | | | | | | | | 9+12+18 | 9+9+12+12 | 18+18 | 7+12+21 | 7+7+12+21 | 18+24 | 7+12+21 | 7+7+12+21 | 7+7+7+12+21 |
| | | | | | | | | | 12+12+12 | | 18+21 | 7+12+24 | 7+7+12+24 | 21+21 | 7+12+24 | 7+7+12+24 | 7+7+7+12+24 |
| | | | | | | | | | 12+12+18 | | 18+24 | 7+18+18 | 7+7+18+18 | 21+24 | 7+18+18 | 7+7+18+18 | 7+7+7+18+18 |
| | | | | | | | | | | | 21+21 | 7+18+21 | 7+7+18+21 | 24+24 | 7+18+21 | 7+7+18+21 | 7+7+7+18+21 |
| | | | | | | | | | | | 21+24 | 7+18+24 | 7+9+9+9 | | 7+18+24 | 7+7+18+24 | 7+7+7+18+24 |
| | | | | | | | | | | | 24+24 | 7+21+21 | 7+9+9+12 | | 7+21+21 | 7+7+21+21 | 7+7+7+21+21 |
| | | | | | | | | | | | | 7+21+24 | 7+9+9+18 | | 7+21+24 | 7+7+21+24 | 7+7+9+9+9 |
| | | | | | | | | | | | | 9+9+9 | 7+9+9+21 | | 7+24+24 | 7+7+24+24 | 7+7+9+9+12 |
| | | | | | | | | | | | | 9+9+12 | 7+9+9+24 | | 9+9+9 | 7+9+9+9 | 7+7+9+9+18 |
| | | | | | | | | | | | | 9+9+18 | 7+9+12+12 | | 9+9+12 | 7+9+9+12 | 7+7+9+9+21 |
| | | | | | | | | | | | | 9+9+21 | 7+9+12+18 | | 9+9+18 | 7+9+9+18 | 7+7+9+9+24 |
| | | | | | | | | | | | | 9+9+24 | 7+9+12+21 | | 9+9+21 | 7+9+9+21 | 7+7+9+12+12 |
| | | | | | | | | | | | | 9+12+12 | 7+9+12+24 | | 9+9+24 | 7+9+9+24 | 7+7+9+12+18 |
| | | | | | | | | | | | | 9+12+18 | 7+9+18+18 | | 9+12+12 | 7+9+12+12 | 7+7+9+12+21 |
| | | | | | | | | | | | | 9+12+21 | 7+12+12+12 | | 9+12+18 | 7+9+12+18 | 7+7+9+12+24 |
| | | | | | | | | | | | | 9+12+24 | 7+12+12+18 | | 9+12+21 | 7+9+12+21 | 7+7+9+18+18 |
| | | | | | | | | | | | | 9+18+18 | 7+12+12+21 | | 9+12+24 | 7+9+12+24 | 7+7+9+18+21 |
| | | | | | | | | | | | | 9+18+21 | 9+9+9+9 | | 9+18+18 | 7+9+18+18 | 7+7+12+12+12 |
| | | | | | | | | | | | | 9+18+24 | 9+9+9+12 | | 9+18+21 | 7+9+18+21 | 7+7+12+12+18 |
| | | | | | | | | | | | | 9+21+21 | 9+9+9+18 | | 9+18+24 | 7+9+18+24 | 7+7+12+12+21 |
| | | | | | | | | | | | | 9+21+24 | 9+9+9+21 | | 9+21+21 | 7+9+21+21 | 7+7+12+12+24 |
| | | | | | | | | | | | | 12+12+12 12+12+18 | 9+9+9+24 9+9+12+12 | | 9+21+24 9+24+24 | 7+9+21+24 7+12+12+12 | 7+7+12+18+18 7+9+9+9 |
| | | | | | | | | | | | | 12+12+18 | 9+9+12+12 | | 12+12+12 | 7+12+12+12 | 7+9+9+9+12 |
| | | | | | | | | | | | | 12+12+24 | 9+9+12+10 | | 12+12+18 | 7+12+12+10 | 7+9+9+9+18 |
| | | | | | | | | | | | | 12+18+18 | 9+9+12+24 | | 12+12+10 | 7+12+12+24 | 7+9+9+9+21 |
| | | | | | | | | | | | | 12+18+21 | 9+9+18+18 | | 12+12+24 | 7+12+18+18 | 7+9+9+9+24 |
| | | | | | | | | | | | | 12+18+24 | 9+12+12+12 | | 12+18+18 | 7+12+18+21 | 7+9+9+12+12 |
| | | | | | | | | | | | | 12+21+21 | 9+12+12+18 | | 12+18+21 | 7+12+18+24 | 7+9+9+12+18 |
| | | | | | | | | | | | | 18+18+18 | 9+12+12+21 | | 12+18+24 | 7+12+21+21 | 7+9+9+12+21 |
| | | | | | | | | | | | | | 12+12+12+12 | | 12+21+21 | 7+18+18+18 | 7+9+9+12+24 |
| | | | | | | | | | | | | | 12+12+12+18 | | 12+21+24 | 9+9+9+9 | 7+9+9+18+18 |
| | | | | | | | | | | | | | | | 12+24+24 | 9+9+9+12 | 7+9+12+12+12 |
| | | | | | | | | | | | | | | | 18+18+18 | 9+9+9+18 | 7+9+12+12+18 |
| | | | | | | | | | | | | | | | 18+18+21 | 9+9+9+21 | 7+9+12+12+21 |
| | | | | | | | | | | | | | | | 18+18+24 | 9+9+9+24 | 7+12+12+12+12 |
| | | | | | | | | | | | | | | | 18+21+21 | 9+9+12+12 | 7+12+12+12+18 |
| | | | | | | | | | | | | | | | 18+21+24 | 9+9+12+18 | 9+9+9+9+9 |
| | | | | | | | | | | | | | | | 21+21+21 | 9+9+12+21 | 9+9+9+9+12 |
| | | | | | | | | | | | | | | | | 9+9+12+24 | 9+9+9+9+18 |
| | | | | | | | | | | | | | | | | 9+9+18+18 | 9+9+9+9+21 |
| | | | | | | | | | | | | | | | | 9+9+18+21 | 9+9+9+9+24 |
| | | | | | | | | | | | | | | | | 9+9+18+24 | 9+9+9+12+12 |
| | | | | | | | | | | | | | | | | 9+9+21+21 | 9+9+9+12+18 |
| | | | | _ | | - | | | | | - | | | | | 9+9+21+24 | 9+9+9+12+21 9+9+9+12+24 |
| | | | | _ | | | | | | | - | | | | | 9+12+12+12 | |
| | | | | _ | | | | | | | - | | | | | 9+12+12+18 | 9+9+9+18+18 |
| | | | | | | | | | | | | | | | | 9+12+12+21 | 9+9+12+12+12 |
| | | | | _ | | | | | | | | | | | | 9+12+12+24 | 9+9+12+12+18 9+9+12+12+21 |
| | | | | | | | | | | | | | | | | 9+12+18+18 9+12+18+21 | 9+9+12+12+21 |
| | | | | | | | | | | | | | | | | 9+12+18+21 | 9+12+12+12+12 |
| | | | | | | | | | | | | | | | | 9+12+18+24 | 12+12+12+12+18 |
| | | | | | | | | | | | | | | | | 9+12+21+21 | 12712712712712 |
| | | | | | | | | | | | | | | | | 12+12+12+12 | |
| | | | | | | | | | | | | | | | | 12+12+12+12 | |
| | | | | | | | | | | | | | | | | 12+12+12+10 | |
| | | | | | | | | | | | | | | | | 12+12+12+24 | |
| | | | | | | | | | | | | | | | | 12+12+18+18 | 1 |
| | | | | | | | | | | | | | | | | 12+12+18+21 | |
| | | | | | | | | | | L | | L | L | | | .22110121 | |

OUTDOOR UNIT PERFORMANCE DATA

| OUTDOOK ONIT PERFORMAN | | MLG420 | MLG520 | MLG630 | MLG730 | MLG840 | MLG1040 | MLG1250 |
|--|------------------|--------|--------|--------|---------------------|-------------------|---------|---------|
| Nominal cooling performances | | | | | | | | |
| Cooling capacity (1) | kW | 4,10 | 5,20 | 6,10 | 7,10 | 8,00 | 10,50 | 12,00 |
| Cooling input power (1) | kW | 1,20 | 1,45 | 1,74 | 1,95 | 2,30 | 3,10 | 3,45 |
| EER (2) | W/W | 3,42 | 3,59 | 3,51 | 3,64 | 3,48 | 3,39 | 3,48 |
| Minimum cooling performances | | | | | | | | |
| Cooling capacity | kW | 2,05 | 2,14 | 2,20 | 2,29 | 2,29 | 2,60 | 2,60 |
| Cooling input power | kW | 0,55 | 0,55 | 0,95 | 1,10 | 1,20 | 1,60 | 2,40 |
| Maximum cooling performances | | • | , | , | , | , | , | , |
| Cooling capacity | kW | 4,40 | 5,80 | 7,33 | 8,50 | 10,26 | 12,00 | 13,00 |
| Cooling input power | kW | 1,40 | 1,56 | 2,39 | 2,87 | 3,58 | 4,00 | 4,00 |
| Cooling input current | A | 5,3 | 6,4 | 7,7 | 8,7 | 10,2 | 14,0 | 16,0 |
| Seasonal efficiency | | 5,5 | ٥,٠ | .,. | 37. | 10,2 | 1.1,0 | 10/0 |
| SEER | W/W | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 | 6,10 |
| Efficiency energy class (3) | , | 0,10 | 0,10 | 0,10 | A++ | 0,10 | 0,10 | 0,10 |
| Pdesignc | kW | 4,1 | 5,2 | 6,1 | 7,1 | 8,0 | 10,5 | 12,0 |
| Annual power consumption | kWh/annum | 235 | 298 | 350 | 407 | 459 | 602 | 689 |
| Nominal heating performances | KVVII/ dIIIIUIII | 233 | 270 | 330 | 407 | 407 | 002 | 007 |
| Heating capacity (4) | kW | 4,40 | 5,40 | 6,50 | 8,50 | 9,50 | 12,00 | 12.00 |
| 3 1 7 1 | kW | | | | | | | 13,00 |
| Heating input power (4) | | 1,02 | 1,30 | 1,60 | 2,20 | 2,65 | 3,20 | 3,50 |
| COP (2) | W/W | 4,31 | 4,15 | 4,06 | 3,86 | 3,58 | 3,75 | 3,71 |
| Minimum heating performances | 1347 | 2.40 | 2.50 | 2.44 | 3.77 | 2.00 | 2.00 | 3.00 |
| Heating capacity | kW | 2,49 | 2,58 | 3,61 | 3,66 | 3,66 | 2,60 | 2,60 |
| Heating input power | kW | 0,60 | 0,78 | 0,78 | 0,98 | 1,00 | 1,71 | 2,24 |
| Maximum heating performances | | | | | | | | |
| Heating capacity | kW | 5,42 | 5,92 | 8,50 | 8,79 | 10,26 | 13,50 | 14,50 |
| Heating input power | kW | 1,78 | 1,78 | 2,87 | 2,87 | 2,87 | 4,00 | 4,00 |
| Heating input current | A | 4,5 | 5,8 | 7,1 | 9,8 | 11,8 | 13,0 | 15,0 |
| Seasonal efficiency (temperate climate) | | | | | | | | |
| SCOP | | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 | 4,00 |
| Efficiency energy class (3) | | | | | A+ | | | |
| Pdesignh | kW | 3,8 | 3,8 | 6,1 | 6,1 | 7,2 | 10,5 | 11,8 |
| Annual power consumption | kWh/annum | 1330 | 1330 | 2135 | 2135 | 2520 | 3675 | 4130 |
| Outdoor unit | | | | | | | | |
| Type of fan | Type | | | | Inverter axial | | | |
| Air flow rate | | | | | | | | |
| Maximum | m³/h | 2600 | 2600 | 3200 | 4000 | 4000 | 7200 | 7200 |
| Sound power | | | | | | | | |
| Maximum | dB(A) | 65,0 | 65,0 | 68,0 | 68,0 | 68,0 | 70,0 | 70,0 |
| Sound pressure (5) | , | , | , | ,. | , | 2. 2. 7 2. | | .,,,, |
| Maximum | dB(A) | 55,0 | 55,0 | 58,0 | 58,0 | 58,0 | 60,0 | 60,0 |
| Compressor | 45(1) | 33,0 | 33,0 | 30,0 | 30,0 | 30,0 | | |
| Туре | type | | | | Rotatativo inverter | | | |
| Compressor | i) Pc | | | | otatativo inverter | | | |
| Refrigerant | tyna | | | | R32 | | | |
| Compressor | type | | | | IIJZ | | | |
| Refrigerant charge | kg | 1,1 | 1,1 | 1,6 | 1,8 | 2,0 | 2,8 | 2,8 |
| | GWP | 1,1 | 1,1 | 1,0 | | 2,0 | Z,0 | Z,0 |
| Potential global heating Equivalent CO ₂ | | 0.71 | 0.71 | 1.00 | 675kgCO₂eq | 1.25 | 100 | 1.00 |
| | t | 0,71 | 0,71 | 1,08 | 1,22 | 1,35 | 1,86 | 1,86 |
| Electric data | 1,141 | 1.0 | 1.0 | 2.0 | 2.0 | 2.6 | 4.0 | 4.0 |
| Rated power input (6) | kW | 1,8 | 1,9 | 2,9 | 2,9 | 3,6 | 4,0 | 4,0 |
| Rated current input (6) | A | 7,9 | 8,3 | 12,7 | 12,7 | 15,9 | 20,0 | 20,0 |
| Refrigeration pipework | | | | | | | | |
| Maximum refrigerant tube length | m | 20 | 20 | 60 | 60 | 70 | 75 | 75 |
| Maximum single cooling line length | m | 10 | 10 | 20 | 20 | 20 | 25 | 25 |
| Maximum unit (indoor/external) cooling line level difference in height | m | 5,0 | 5,0 | 10,0 | 10,0 | 10,0 | 7,5 | 7,5 |
| Maximum (indoor/outdoor) cooling line level difference | e m | 5,0 | 5,0 | 10,0 | 10,0 | 10,0 | 15,0 | 15,0 |
| Power supply | | | | | | | | |
| Outdoor unit power supply | | | | | 220-240V ~ 50Hz | | | |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

(3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

(4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

(5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

(6) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

All technical data refer to the respective allowed combinations of indoor units.

INDOOR UNIT PERFORMANCE DATA

SMG_W

| | | SMG270W | SMG350W |
|------------------------------|-------|---------|-------------------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 2,70 | 3,53 |
| Moisture removed | I/h | 0,8 | 0,8 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 3,20 | 4,00 |
| Indoor unit | | | |
| Type of fan | Туре | In | verter tangential |
| Air flow rate | | | |
| Minimum | m³/h | 250 | 250 |
| Maximum | m³/h | 450 | 500 |
| Sound power | | | |
| Minimum | dB(A) | 37,0 | 37,0 |
| Maximum | dB(A) | 50,0 | 51,0 |
| Sound pressure (3) | | | |
| Minimum | dB(A) | 23,0 | 23,0 |
| Maximum | dB(A) | 36,0 | 37,0 |
| Power supply | | | |
| Indoor unit power supply | | 22 | 20-240V ~ 50Hz |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m. (3) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

SLG_W

| | | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W |
|-------------------------------|-------|---------|---------|---------------------|---------|---------|
| Nominal heating performances | | | | | | |
| Heating capacity (1) | kW | 2,60 | 2,80 | 3,50 | 5,20 | 6,45 |
| Nominal cooling performances | | | | | | |
| Cooling capacity (2) | kW | 2,10 | 2,70 | 3,20 | 4,60 | 6,16 |
| Moisture removed | I/h | 0,6 | 0,8 | 1,4 | 1,8 | 1,8 |
| Indoor unit | | | | | | |
| Type of fan | Туре | | | Inverter tangential | | |
| Air flow rate | | | | | | |
| Minimum | m³/h | 330 | 290 | 290 | 520 | 520 |
| Maximum | m³/h | 490 | 460 | 480 | 720 | 720 |
| Sound power | | | | | | |
| Minimum | dB(A) | 38,0 | 35,0 | 38,0 | 44,0 | 44,0 |
| Maximum | dB(A) | 46,0 | 46,0 | 47,0 | 54,0 | 54,0 |
| Sound pressure (3) | | | | | | |
| Minimum | dB(A) | 28,0 | 24,0 | 28,0 | 34,0 | 34,0 |
| Maximum | dB(A) | 36,0 | 35,0 | 37,0 | 45,0 | 44,0 |
| Indoor unit | | | | | | |
| Condensate discharge diameter | mm | 16,0 | 16,0 | 16,0 | 16,0 | 16,0 |
| Power supply | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | | |

- (1) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m. (2) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (3) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

CKG FS

| | | CKG260FS | CKG360FS |
|-------------------------------|-------|----------|------------------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 2,70 | 3,50 |
| Moisture removed | l/h | 0,8 | 1,2 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 2,90 | 3,80 |
| Indoor unit | | | |
| Type of fan | Туре | Inve | rter centrifugal |
| Air flow rate | | | |
| Minimum | m³/h | 280 | 360 |
| Maximum | m³/h | 430 | 520 |
| Sound power | | | |
| Minimum | dB(A) | 38,0 | 39,0 |
| Maximum | dB(A) | 48,0 | 50,0 |
| Sound pressure (3) | | | |
| Minimum | dB(A) | 26,0 | 29,0 |
| Maximum | dB(A) | 36,0 | 40,0 |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 |
| Power supply | | | |
| Indoor unit power supply | | 220 | 0-240V ~ 50Hz |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m. (3) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MLG_FS

| mEd_13 | | | |
|-------------------------------|-------|----------------------|--|
| | | MLG500FS | |
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 5,20 | |
| Moisture removed | l/h | 3,8 | |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 5,33 | |
| Electric data | | | |
| Rated power input (3) | W | 50 | |
| Indoor unit | | | |
| Type of fan | Туре | Inverter centrifugal | |
| Air flow rate | | | |
| Minimum | m³/h | 320 | |
| Maximum | m³/h | 650 | |
| Sound power | | | |
| Minimum | dB(A) | 45,0 | |
| Maximum | dB(A) | 55,0 | |
| Sound pressure (4) | | | |
| Minimum | dB(A) | 35,0 | |
| Maximum | dB(A) | 45,0 | |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 28,0 | |
| Power supply | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

 (4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MLG D

| | | MLG250D | MLG350D | MLG500D | MLG600D | MLG700D |
|-------------------------------|-------|---------|---------|----------------------|---------|---------|
| Nominal cooling performances | | | | | | |
| Cooling capacity (1) | kW | 2,50 | 3,50 | 5,00 | 6,00 | 7,10 |
| Moisture removed | l/h | 0,8 | 1,4 | 1,8 | 2,0 | 2,5 |
| Nominal heating performances | | | | | | |
| Heating capacity (2) | kW | 2,80 | 3,85 | 5,50 | 6,60 | 8,00 |
| Electric data | | | | | | |
| Rated power input (3) | W | 75 | 85 | 110 | 110 | 110 |
| Indoor unit | | | | | | |
| Type of fan | Туре | | | Inverter centrifugal | | |
| Air flow rate | | | | | | |
| Minimum | m³/h | 280 | 300 | 500 | 550 | 550 |
| Maximum | m³/h | 450 | 550 | 700 | 1000 | 1000 |
| Sound power | | | | | | |
| Minimum | dB(A) | 41,0 | 42,0 | 43,0 | 44,0 | 44,0 |
| Maximum | dB(A) | 47,0 | 49,0 | 51,0 | 52,0 | 52,0 |
| Sound pressure (4) | | | | | | |
| Minimum | dB(A) | 31,0 | 32,0 | 33,0 | 34,0 | 34,0 |
| Maximum | dB(A) | 37,0 | 39,0 | 41,0 | 42,0 | 42,0 |
| Indoor unit | · | · | · | | | · |
| Condensate discharge diameter | mm | 26,0 | 26,0 | 26,0 | 26,0 | 26,0 |
| Power supply | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MLG CS

| MEG_C3 | | | |
|-------------------------------|-------|----------|------------------|
| | | MLG350CS | MLG500CS |
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 3,50 | 4,50 |
| Moisture removed | l/h | 1,4 | 1,8 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 4,00 | 5,00 |
| Electric data | | | |
| Rated power input (3) | W | 30 | 40 |
| Indoor unit | | | |
| Type of fan | Туре | Inve | rter centrifugal |
| Air flow rate | | | |
| Minimum | m³/h | 450 | 450 |
| Maximum | m³/h | 560 | 670 |
| Sound power | | | |
| Minimum | dB(A) | 45,0 | 46,0 |
| Maximum | dB(A) | 52,0 | 56,0 |
| Sound pressure (4) | | | |
| Minimum | dB(A) | 34,0 | 35,0 |
| Maximum | dB(A) | 41,0 | 45,0 |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 |
| Power supply | | | |
| Indoor unit power supply | | 220 | -240V ~ 50Hz |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MLG C

| | | MLG700C | |
|-------------------------------|-------|----------------------|--|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 7,10 | |
| Moisture removed | l/h | 2,5 | |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 8,00 | |
| Electric data | | | |
| Rated power input (3) | W | 60 | |
| Indoor unit | | | |
| Type of fan | Туре | Inverter centrifugal | |
| Air flow rate | | | |
| Minimum | m³/h | 880 | |
| Maximum | m³/h | 1220 | |
| Sound power | | | |
| Minimum | dB(A) | 47,0 | |
| Maximum | dB(A) | 56,0 | |
| Sound pressure (4) | | | |
| Minimum | dB(A) | 36,0 | |
| Maximum | dB(A) | 45,0 | |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 25,0 | |
| Power supply | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MLG_F

| | | MLG250F | MLG350F | MLG500F | MLG700F |
|-------------------------------|-------|---------|------------|------------|---------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,60 | 3,50 | 4,50 | 7,10 |
| Moisture removed | l/h | 0,8 | 1,4 | 1,8 | 2,5 |
| Nominal heating performances | | | | | |
| Heating capacity (2) | kW | 2,70 | 4,00 | 5,00 | 8,00 |
| Electric data | | | | | |
| Rated power input (3) | W | 38 | 38 | 38 | 60 |
| Indoor unit | | | | | |
| Type of fan | Туре | | Inverter o | entrifugal | |
| Air flow rate | | | | | |
| Minimum | m³/h | 420 | 420 | 410 | 720 |
| Maximum | m³/h | 610 | 610 | 590 | 870 |
| Sound power | | | | | |
| Minimum | dB(A) | 40,0 | 40,0 | 40,0 | 41,0 |
| Maximum | dB(A) | 49,0 | 49,0 | 49,0 | 52,0 |
| Sound pressure (4) | | | | | |
| Minimum | dB(A) | 26,0 | 26,0 | 26,0 | 27,0 |
| Maximum | dB(A) | 35,0 | 35,0 | 35,0 | 35,0 |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 | 17,0 |
| Power supply | | | | | |
| Indoor unit power supply | · | | 220-240 | V ~ 50Hz | · |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

ADAPTERS SUPPLIED WITH THE OUTDOOR UNIT

| Models | MLG420 | MICEON | MICANO MICENO MICAN | MLG520 MLG630 MLG730 MLG840 MLG1040 MLG1250 |) MLG630 | MIC720 MICO40 | MI C720 | ALG730 MLG840 MLG1040 | 730 MICO40 MIC1040 MIC | Connections mm (in | ch) | |
|----------|--------|--------|---------------------|---|----------|---------------|---------|-----------------------|------------------------|--------------------|--------------|-------------|
| wodels | WLG420 | MLG520 | MILGOSO | WLG/30 | WLG040 | WILGO40 | MLG1040 | MLG1040 | MLG1230 | LG 1040 MLG 1230 | Outdoor unit | Indoor unit |
| | 1 | 1 | 2 | 2 | 2 | | | 9,52mm (3/8") | 12,7mm (1/2") | | | |
| Ouantitu | | | | | | 2 | 2 | 6,35mm (1/4") | 9,52mm (3/8") | | | |
| Quantity | | | | | | 2 | 3 | 12,7mm (1/2") | 15,9mm (5/8") | | | |
| | | | | | | 4 | 4 | 9,52mm (3/8") | 12,7mm (1/2") | | | |

For further information, please refer to the technical documentation on the website www.aermec.com

INDOOR UNIT COOLING FITTINGS

SMG_W

| | | SMG270W | SMG350W |
|--|-----------|-------------|-------------|
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") |

SLG_W

| | | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W | |
|--|-----------|-------------|-------------|-------------|-------------|-------------|--|
| Refrigeration pipework | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 15,9 (5/8") | |

CKG_FS

| | | CKG260FS | CKG360FS |
|--|-----------|-------------|-------------|
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") |

MLG_FS

| | | MLG500FS |
|--|-----------|-------------|
| Refrigeration pipework | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 12.7 (1/2") |

$\mathbf{MLG}_\mathbf{D}$

| | | MLG250D | MLG350D | MLG500D | MLG600D | MLG700D |
|--|-----------|-------------|-------------|-------------|-------------|-------------|
| Refrigeration pipework | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") |

MLG_CS

| | | MLG350CS | MLG500CS |
|--|-----------|-------------|-------------|
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") |

MLG_C

| | | MLG700C |
|--|-----------|-------------|
| Refrigeration pipework | | |
| Diameter of liquid refrigerant connections | mm (inch) | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 15,9 (5/8") |

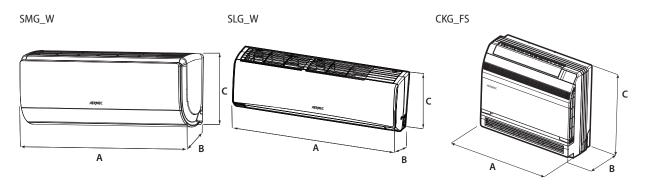
MLG_F

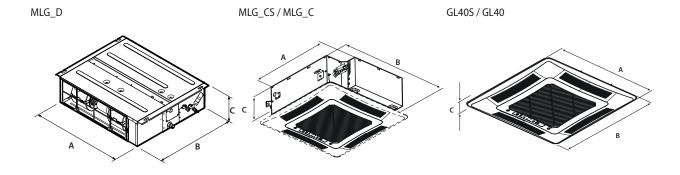
| | | MLG250F | MLG350F | MLG500F | MLG700F |
|--|-----------|------------|------------|------------|------------|
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4) | 6,35 (1/4) | 6,35 (1/4) | 9,52 (3/8) |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8) | 12,7 (1/2) | 12,7 (1/2) | 15,9 (5/8) |

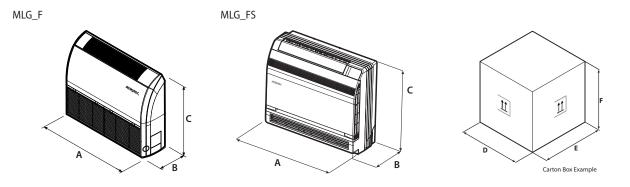
OUTDOOR UNIT COOLING FITTINGS

| Madala | | | MLG420 | MLG520 | MLG630 | MLG730 | MLG840 | MLG1040 | MLG1250 |
|--------------------|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Models | | | 14kBtu/h | 18kBtu/h | 21kBtu/h | 24kBtu/h | 28kBtu/h | 36kBtu/h | 42kBtu/h |
| | Α | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | В | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Liquid connections | (| mm (inch) | | | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | D | mm (inch) | | | | | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | E | mm (inch) | | | | | | | 6,35 (1/4") |
| | Α | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | В | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Gas connections | (| mm (inch) | | | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | D | mm (inch) | | | | | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | E | mm (inch) | | | | | | | 9,52 (3/8") |

INDOOR UNIT WEIGHTS AND DIMENSIONS







SMG W

| 3111G_11 | | | |
|----------------------|----|---------|---------|
| | | SMG270W | SMG350W |
| Indoor unit | | | |
| A | mm | 860 | 860 |
| В | mm | 170 | 170 |
| C | mm | 305 | 305 |
| D | mm | 935 | 935 |
| E | mm | 388 | 388 |
| F | mm | 295 | 295 |
| Net weight | kg | 11,50 | 11,50 |
| Weight for transport | ka | 14.00 | 14.00 |

SLG_W

| | | SLG200W | SLG250W | SLG350W | SLG500W | SLG700W |
|----------------------|----|---------|---------|---------|---------|---------|
| Indoor unit | | | | | | |
| A | mm | 790 | 790 | 790 | 970 | 970 |
| В | mm | 200 | 200 | 200 | 224 | 224 |
| C | mm | 275 | 275 | 275 | 300 | 300 |
| D | mm | 866 | 866 | 866 | 1041 | 1041 |
| E | mm | 271 | 271 | 271 | 320 | 320 |
| F | mm | 367 | 367 | 367 | 383 | 383 |
| Net weight | kg | 9,00 | 9,00 | 9,00 | 14,00 | 14,00 |
| Weight for transport | kg | 11,00 | 11,00 | 11,00 | 17,00 | 17,00 |

CKG_FS

| | | CKG260FS | CKG360FS |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 700 | 700 |
| В | mm | 215 | 215 |
| C | mm | 600 | 600 |
| D | mm | 788 | 788 |
| E | mm | 283 | 283 |
| F | mm | 697 | 697 |
| Net weight | kg | 15,50 | 15,50 |
| Weight for transport | ka | 18,50 | 18.50 |

MLG_FS

| | | MLG500FS |
|----------------------|----|----------|
| Indoor unit | | |
| A | mm | 700 |
| В | mm | 215 |
| C | mm | 600 |
| D | mm | 788 |
| E | mm | 283 |
| F | mm | 697 |
| Net weight | kg | 16,00 |
| Weight for transport | kg | 19,00 |

MLG_D

| | | MLG250D | MLG350D | MLG500D | MLG600D | MLG700D |
|----------------------|----|---------|---------|---------|---------|---------|
| Indoor unit | | | | | | |
| A | mm | 700 | 700 | 900 | 1100 | 1100 |
| В | mm | 615 | 615 | 615 | 615 | 615 |
| C | mm | 200 | 200 | 200 | 200 | 200 |
| D | mm | 893 | 893 | 1123 | 1323 | 1323 |
| E | mm | 743 | 743 | 743 | 743 | 743 |
| F | mm | 305 | 305 | 305 | 305 | 305 |
| Net weight | kg | 21,00 | 22,00 | 26,00 | 30,00 | 30,00 |
| Weight for transport | kg | 26,00 | 28,00 | 32,00 | 40,00 | 40,00 |

MLG_CS

| | | MLG350CS | MLG500CS |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 666 | 666 |
| В | mm | 596 | 596 |
| C | mm | 240 | 240 |
| D | mm | 778 | 778 |
| E | mm | 738 | 738 |
| F | mm | 300 | 300 |
| Net weight | kg | 20,00 | 20,00 |
| Weight for transport | kg | 24,00 | 24,00 |

MLG_C

| | | MLG700C | |
|----------------------|----|---------|--|
| Indoor unit | | | |
| A | mm | 840 | |
| В | mm | 840 | |
| (| mm | 240 | |
| D | mm | 963 | |
| E | mm | 963 | |
| F | mm | 325 | |
| Net weight | kg | 26,00 | |
| Weight for transport | kg | 32,00 | |

GL40S / GL40

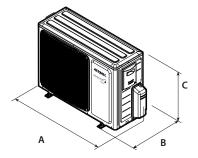
| | | GL40 | GL40S |
|----------------------|----|-------|-------|
| Indoor unit | | | |
| A | mm | 950 | 670 |
| В | mm | 950 | 670 |
| C | mm | 60 | 50 |
| D | mm | 1038 | 763 |
| E | mm | 1033 | 763 |
| F | mm | 133 | 105 |
| Net weight | kg | 7,00 | 4,00 |
| Weight for transport | kg | 11,00 | 5,00 |

Mandatory accessory to be provided when ordering.

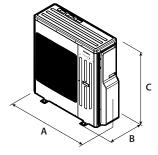
MLG_F

| | | MLG250F | MLG350F | MLG500F | MLG700F |
|----------------------|----|---------|---------|---------|---------|
| Indoor unit | | | | | |
| A | mm | 870 | 870 | 870 | 1200 |
| В | mm | 235 | 235 | 235 | 235 |
| C | mm | 665 | 665 | 665 | 665 |
| D | mm | 1033 | 1033 | 1033 | 1363 |
| E | mm | 300 | 300 | 300 | 300 |
| F | mm | 770 | 770 | 770 | 770 |
| Net weight | kg | 25,00 | 25,00 | 26,00 | 33,00 |
| Weight for transport | kg | 30,00 | 30,00 | 31,00 | 40,00 |

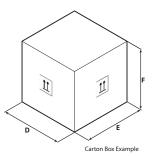
OUTDOOR UNIT WEIGHTS AND DIMENSIONS



MLG420 - MLG520 - MLG630 MLG730 - MLG840



MLG1040 - MLG1250



MLG

| | | MLG420 | MLG520 | MLG630 | MLG730 | MLG840 | MLG1040 | MLG1250 |
|----------------------|----|--------|--------|--------|--------|--------|---------|---------|
| Outdoor unit | | | | | | | | |
| A | mm | 899 | 899 | 963 | 1001 | 1001 | 1098 | 1098 |
| В | mm | 378 | 378 | 396 | 427 | 427 | 440 | 440 |
| C | mm | 596 | 596 | 700 | 790 | 790 | 1106 | 1106 |
| D | mm | 948 | 948 | 1029 | 1083 | 1083 | 1158 | 1158 |
| E | mm | 420 | 420 | 458 | 488 | 488 | 483 | 483 |
| F | mm | 645 | 645 | 750 | 855 | 855 | 1235 | 1235 |
| Net weight | kg | 43,00 | 43,00 | 55,00 | 68,00 | 69,00 | 90,00 | 90,00 |
| Weight for transport | kg | 46,00 | 46,00 | 60,00 | 73,00 | 74,00 | 98,00 | 98,00 |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.





















SPG_W

MPG

Multisplit

Cooling capacity 4,1 ÷ 12,1 kW Heating capacity 4,4 ÷ 13,0 kW

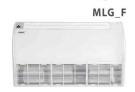


- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- Modern design to blend with all furnishing styles.
- · Wide choice of indoor units available.
- Special coil with fin blue coating.













DESCRIPTION

The multisplit air conditioners of the MPG range are combined with:

- SPG_W Wall, for wall installation.
- **CKG_FS Console**, for wall installation.
- **MLG_F Floor ceiling**, for wall and/or ceiling installation.
- MPG_CS and MPG_C Cassette, for false ceiling installation.
- MPG_D and MPG_DH Duct, for duct type horizontal installation.Outdoor units equipped with base electric resistance to avoid the possible formation of ice and facilitate the disposal of condensate during heating operation, compressor and fan with DC inverter technology and electronic expansion valve.

TYPE OF INDOOR UNIT

SPG W indoor unit

Wall indoor unit designed to be installed on indoor walls.

Universal indoor units: some indoor units can be combined with both multisplit outdoor units of the series MPG and monosplit outdoor units of the series SPG:

| | Indoor units SPG_W | | | | | | | |
|-----------------------------|--------------------|---------|---------|---------|---------|--|--|--|
| | SPG200W | SPG250W | SPG350W | SPG500W | SPG700W | | | |
| Monosplit outdoor units SPG | | • | • | • | • | | | |
| Multisplit utdoor units MPG | | | • | | | | | |







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.

- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play), the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.

CKG FS indoor unit

Console indoor unit designed to be installed on indoor floors.

Universal indoor units: all indoor units can be combined with both multisplit outdoor units of the series MPG and monosplit outdoor units of the series CKG.



- Every indoor unit comes with a remote control and a remote control holder
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Indoor unit front panel with LED display and indicator lights.
- 5-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Air Purifiers (Cold Plasma) is able to reduce pollutants.
- Standard Wi-Fi module.

Single air delivery





Dual air delivery (default)





Intake



Smart APP Ewpe

The system is equipped standard with the Wi-Fi module; using this module and the app for iOS and Android devices (available free on Apple Store and Google Play, the system can be directly controlled from a distance on your smartphone or tablet. Remote control is possible via Cloud, using a wireless router connected to the Internet.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.

MLG Findoor unit

Indoor unit **floor ceiling** designed to be installed on the wall or ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.

MPG CS indoor unit

Indoor unit **cassette** of dimensions (570x570 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 7-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MPG Cindoor unit

Indoor unit **cassette** of dimensions (840x840 mm) designed to be installed on suspended ceiling indoors.







- Every indoor unit comes with a remote control and a remote control holder.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 7-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MPG D indoor unit

Duct indoor unit designed for indoor duct type installation.







- Every indoor unit comes with a remote control and a remote control holder.
- WRCB wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- 7-speed fan, to meet every possible need.
- Auto function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- Sleep night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

MPG DH indoor unit

Duct indoor unit designed for indoor duct type installation.







- Every indoor unit comes with a remote control and a remote control holder.
- **WRCB** wired panel standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- 7-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- X-fan prolonged ventilation function, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- iFeel function for activating the ambient temperature probe inside the remote control, for improved comfort.
- Equipped with condensate drain pump.

General features

- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Systems with multi-line refrigerant connections, where every indoor unit is connected directly to the outdoor unit via dedicated refrigerant lines.
- Easy installation and maintenance.

X-fan function

This self-cleaning system foresees that the fan of the indoor unit continues its operation for a few minutes after the unit is turned off, in order to perfectly dry the coil and avoid the formation and proliferation of pathogens.







Smart APP Ewpe

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.









Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Supplied components for indoor units

| Models | SPG_W | CKG_FS | MLG_F | MPG_CS | MPG_C | MPG_D | MPG_DH |
|--|-------|--------|-------|--------|-------|-------|--------|
| Remote control | • | • | • | • | • | • | • |
| Remote control holder | • | • | • | • | • | • | • |
| WRCB wired panel WRCB with integrated Wi-Fi module | | | | | | • | • |
| Air Purifiers (Cold Plasma) | | • | | | | | |
| Wi-Fi module | | • | | | | | |
| Condensate discharge pump | | | | • | • | • | • |

www.aermec.com

TYPE OF OUTDOOR UNIT

MPG outdoor unit

Multisplit reversible air/air heat pump with DC inverter technology.

Types:

- Dualsplit: outdoor units MPG420 and MPG520 can be combined with 1 or 2 indoor units.
- Trialsplit: outdoor units MPG630 and MPG730 can be combined with 2 or 3 indoor units.
- Quadrisplit: outdoor unit MPG840 and MPG1040 can be combined with 2, 3 or 4 indoor units.
- Pentasplit: outdoor unit MPG1250 can be combined with 2, 3, 4 or indoor units.

Main features:

- Fitted with a electrical anti-freeze heater (in unit base) to avoid the formation of ice and encourage the drainage of condensate during heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

WRCA: Wired panel with liquid crystal display and soft-touch buttons. This accessory can be used to control not only the traditional system functions but also a weekly timer with a maximum of 8 daily time bands.

WRCB: Wired panel with liquid crystal display and soft-touch buttons, equipped with an integrated wi-fi module for remote control of the unit (via the dedicated EWPE Smart App).

* The CC2 centralised control can manage up to 36 MPG systems.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.

IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

DCK: Remote Contact Kit. This accessory allows you to switch the system on and off using an external contact.

WIFIKIT: Plug & Play module to be installed in the indoor unit for Wi-Fi control. (Cable length 250 mm)

WIFIKITO1: Plug & Play module to be installed in the indoor unit for Wi-Fi control, equipped with Bluetooth® connection to ensure a better connection with smart devices. (Cable length 250 mm)

The accessories WRCA and WIFIKIT are compatible with one another and can therefore be connected to the same indoor unit simultaneously.

GLG40S: Air supply and flow grid with dimensions (620x620 mm) for cassette internal unit.

GLG40: Air supply and flow grid with dimensions (950x950 mm) for cassette internal unit.



ACCESSORIES COMPATIBILITY

| SPG_W | | | | | | | |
|----------------------------|----------|----------|---------|----------|---------|----------|----------|
| Accessory | | SPG500W | | | | SPG700W | |
| CC2 (1) | | • | | | | • | |
| WRCA (1) | | • | | | | • | |
| (1) Auto-restart function. | | | | | | | |
| Accessory | | SPG500W | | | | SPG700W | |
| IC-2P | | • | | | | • | |
| Accessory | SPG200W | SPG250W | | SPG350W | SPG50 | 00W | SPG700W |
| DCK | | | | | | | • |
| WIFIKIT | • | • | | • | • | | • |
| WIFIKIT01 | • | • | | • | | | • |
| CVC FC | | | | | | | |
| CKG_FS | | | | | | | |
| Accessory CC2 (1) | CKG260FS | | | CKG360FS | | CK | G500FS |
| WRCA (1) | • | | | • | | | • |
| | · | | | <u> </u> | | | <u>·</u> |
| (1) Auto-restart function. | CICOCOEC | | | CICOCOFC | | CI | CEROFE |
| Accessory | CKG260FS | | | CKG360FS | | CK | G500FS |
| <u>IC-2P</u> | • | | | • | | | • |
| MLG_F | | | | | | | |
| Accessory | MLG250F | | MLG350F | | MLG500F | | MLG700F |
| CC2 (1) | • • | | • | | • | | • |
| WRCA (1) | • | | • | | • | | • |
| WRCB (1) | • | | | | • | | • |
| (1) Auto-restart function. | | | | | | | |
| Accessory | MLG250F | | MLG350F | | MLG500F | | MLG700F |
| IC-2P | • | | • | | • | | • |
| Accessory | MLG250F | | MLG350F | | MLG500F | | MLG700F |
| DCK | • • | | • | | • | | • |
| Detr. | | | | | | | |
| MPG_CS | | | | | | | |
| Accessory | | MPG350CS | | | | MPG500CS | |
| CC2 (1) | | • | | | | • | |
| WRCA (1) | | • | | | | • | |
| WRCB (1) | | • | | | | • | |
| (1) Auto-restart function. | | | | | | | |
| Accessory | | MPG350CS | | | | MPG500CS | |
| IC-2P | | • | | | | • | |
| Accessory | | MPG350CS | | MPG500CS | | | |
| GLG40S (1) | | • | | | | • | |
| (1) Mandatory accessory. | | | | | | | |
| Accessory | | MPG350CS | | | | MPG500CS | |
| DCK | | • | | | | • | |
| | | | | | | | |
| MPG_C | | | | | | | |
| Accessory | | | | MPG700C | | | |
| CC2 (1) | | | | • | | | |
| WRCA (1) | | | | • | | | |
| WRCB (1) | | | | • | | | |
| (1) Auto-restart function. | | | | | | | |
| Accessory | | | | MPG700C | | | |
| IC-2P | | | | • | | | |
| Accessory | | | | MPG700C | | | <u> </u> |
| GLG40 (1) | | | | • | | | |
| (1) Mandatory accessory. | | | | | | | |
| Accessory | | | | MPG700C | | | |
| DCK | | | | • | | | |
| | | | | | | | |
| MPG_D | | | | | | | |
| Accessory | MPG250D | | MPG350D | | MPG500D | | MPG700D |
| CC2 (1) | • | | • | | • | | • |
| WRCA (1) WRCB (1) | • | | • | | • | | • |
| WKLB (1) | • | | • | | • | | • |

(1) Auto-restart function. WRCB wired panel standard supply.

| Accessory | MPG250D | MPG350D | MPG500D | MPG700D |
|---|----------|----------|----------|----------|
| IC-2P | • | • | • | • |
| Accessory | MPG250D | MPG350D | MPG500D | MPG700D |
| DCK | • | • | • | • |
| MPG_DH | | | | |
| Accessory | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
| CC2 (1) | • | • | • | |
| WRCA (1) | • | • | • | • |
| WRCB (1) | • | • | • | • |
| (1) Auto-restart function. WRCB wired panel standard supply. | | | | |
| Accessory | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
| IC-2P | • | • | • | • |
| Accessory | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
| DCK | • | • | • | • |

INDOOR UNIT VERSIONS AVAILABLE

| Nominal cooling capacity in k | BTU/h | | | Indoor units | | | |
|-------------------------------|---------|----------|---------|--------------|---------|---------|----------|
| 7 | SPG200W | | | | | | |
| 9 | SPG250W | CKG260FS | MLG250F | | | MPG250D | MPG250DH |
| 12 | SPG350W | CKG360FS | MLG350F | MPG350CS | | MPG350D | MPG350DH |
| 18 | SPG500W | CKG500FS | MLG500F | MPG500CS | | MPG500D | MPG500DH |
| 24 | SPG700W | | MLG700F | | MPG700C | MPG700D | MPG700DH |

ALLOWED COMBINATIONS OF INDOOR UNITS

For trialsplit, quadrisplit, pentasplit it is mandatory to install at least 2 indoor units for correct functioning of the system.

For further information, please refer to the technical documentation on the website www.aermec.com

| | MPG420 (14kBTU/h) | | G520 BTU/h) | MPG630 (21kBTU/h) | | | | | |
|------------------|----------------------|----|----------------|----------------------|---------|--|--|--|--|
| N° unità interne | | | | | | | | | |
| 1 | 2 | 1 | 2 | 2 | 3 | | | | |
| 7 | 7+7 | 9 | 7+7 | 7+7 | 7+7+7 | | | | |
| 9 | 7+9 | 12 | 7+9 | 7+9 | 7+7+9 | | | | |
| 12 | 7+12 | | 7+12 | 7+12 | 7+7+12 | | | | |
| | 9+9 | | 9+9 | 7+18 | 7+9+9 | | | | |
| | 9+12 | | 9+12 | 9+9 | 7+9+12 | | | | |
| | | | 12+12 | 9+12 | 7+12+12 | | | | |
| | | | | 9+18 | 9+9+9 | | | | |
| | | | | 12+12 | 9+9+12 | | | | |
| | | | | 12+18 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | MPG730 (24kBTU/h) | | MPG840 (28kBTU/h) | | | | |
|-------|----------------------|-------|----------------------|-----------|--|--|--|
| 2 | 3 | 2 | 3 | 4 | | | |
| 7+7 | 7+7+7 | 7+7 | 7+7+7 | 7+7+7+7 | | | |
| 7+9 | 7+7+9 | 7+9 | 7+7+9 | 7+7+7+9 | | | |
| 7+12 | 7+7+12 | 7+12 | 7+7+12 | 7+7+7+12 | | | |
| 7+18 | 7+7+18 | 7+18 | 7+7+18 | 7+7+7+18 | | | |
| 9+9 | 7+9+9 | 9+9 | 7+9+9 | 7+7+9+9 | | | |
| 9+12 | 7+9+12 | 9+12 | 7+9+12 | 7+7+9+12 | | | |
| 9+18 | 7+9+18 | 9+18 | 7+9+18 | 7+7+9+18 | | | |
| 12+12 | 7+12+12 | 12+12 | 7+12+12 | 7+7+12+12 | | | |
| 12+18 | 9+9+9 | 12+18 | 7+12+18 | 7+9+9+9 | | | |
| 18+18 | 9+9+12 | 18+18 | 9+9+9 | 7+9+9+12 | | | |
| | 9+9+18 | | 9+9+12 | 7+9+12+12 | | | |
| | 9+12+12 | | 9+9+18 | 9+9+9+9 | | | |
| | 12+12+12 | | 9+12+12 | 9+9+9+12 | | | |
| | | | 9+12+18 | 9+9+12+12 | | | |
| | | | 12+12+12 | | | | |
| | | | 12+12+18 | | | | |
| | | | | | | | |

Any configuration outside of those listed in the above tables will cause errors on the external drives, resulting in system failure and/or damage.

| | MPG1040 (36kBTU/h) | | | | | 1250 BTU/h) | | |
|-------|-----------------------|------------------------|-------|----------------------|----------------------|--------------------------|----------------------------|----------------------------|
| 2 | 3 | 4 | 2 | 3 | | 4 | | 5 |
| 7+12 | 7+7+7 | 7+7+7+7 | 7+18 | 7+7+7 | 7+7+7+7 | 7+12+12+12 | 7+7+7+7 | 7+9+9+9+9 |
| 7+18 | 7+7+9 | 7+7+7+9 | 7+21 | 7+7+9 | 7+7+7+9 | 7+12+12+21 | 7+7+7+7+9 | 7+9+9+9+12 |
| 7+21 | 7+7+12 | 7+7+7+12 | 7+24 | 7+7+12 | 7+7+7+12 | 7+12+12+24 | 7+7+7+712 | 7+9+9+9+18 |
| 7+24 | 7+7+18 | 7+7+7+18 | 9+12 | 7+7+18 | 7+7+7+18 | 7+12+18+18 | 7+7+7+7+18 | 7+9+9+9+21 |
| 9+9 | 7+7+21 | 7+7+7+21 | 9+18 | 7+7+21 | 7+7+7+21 | 7+12+18+21 | 7+7+7+7+21 | 7+9+9+9+24 |
| 9+12 | 7+7+24 | 7+7+7+24 | 9+21 | 7+7+24 | 7+7+7+24 | 7+12+18+24 | 7+7+7+7+24 | 7+9+9+12+12 |
| 9+18 | 7+9+9 | 7+7+9+9 | 9+24 | 7+9+9 | 7+7+9+9 | 7+12+21+21 | 7+7+7+9+9 | 7+9+9+12+18 |
| 9+21 | 7+9+12 | 7+7+9+12 | 12+12 | 7+9+12 | 7+7+9+12 | 7+18+18+18 | 7+7+7+9+12 | 7+9+9+12+21 |
| 9+24 | 7+9+18 | 7+7+9+18 | 12+18 | 7+9+18 | 7+7+9+18 | 9+9+9+9 | 7+7+7+9+18 | 7+9+9+12+24 |
| 12+12 | 7+9+21 | 7+7+9+21 | 12+21 | 7+9+21 | 7+7+9+21 | 9+9+9+12 | 7+7+7+9+21 | 7+9+9+18+18 |
| 12+18 | 7+9+24 | 7+7+9+24 | 12+24 | 7+9+24 | 7+7+9+24 | 9+9+9+18 | 7+7+7+9+24 | 7+9+12+12+12 |
| 12+21 | 7+12+12 | 7+7+12+12 | 18+18 | 7+12+12 | 7+7+12+12 | 9+9+9+21 | 7+7+7+12+12 | 7+9+12+12+18 |
| 12+24 | 7+12+18 | 7+7+12+18 | 18+21 | 7+12+18 | 7+7+12+18 | 9+9+9+24 | 7+7+7+12+18 | 7+9+12+12+21 |
| 18+18 | 7+12+21 | 7+7+12+21 | 18+24 | 7+12+21 | 7+7+12+21 | 9+9+12+12 | 7+7+7+12+21 | 7+12+12+12+12 |
| 18+21 | 7+12+24 | 7+7+12+24 | 21+21 | 7+12+24 | 7+7+12+24 | 9+9+12+18 | | 7+12+12+12+18 |
| 18+24 | 7+18+18 | 7+7+18+18 | 21+24 | 7+18+18 | 7+7+18+18 | 9+9+12+21 | 7+7+7+18+18 | 9+9+9+9+9 |
| 21+21 | 7+18+21 | 7+7+18 +21 | 24+24 | 7+18+21 | 7+7+18 +21 | 9+9+12+24 | 7+7+7+18+21 | 9+9+ 9+9+12 |
| 21+21 | 7+18+24 | 7+9+9+9 | | 7+18+24 | 7+7+18 +24 | 9+9+18+18 | 7+7+7+18+24 | 9+9+9+9+18 |
| 24+24 | 7+21+21 | 7+9+9+12 | | 7+21+21 | 7+7+21 +21 | 9+9+18+21 | 7+7+7+21+21 | 9+9+9+9+21 |
| - | 7+21+24 | 7+9+9+18 | | 7+21+24 | 7+7+21 +24 | 9+9+18+24 | 7+7+9+9+9 | 9+9+9+9+24 |
| | 9+9+9 | 7+9+9+21 | | 7+24+24 | 7+7+24+24 | 9+9+21+21 | 7+7+9+9+12 | 9+9+9+12+12 |
| | 9+9+12 | 7+9+9+24 | | 9+9+9 | 7+9+9+9 | 9+9+21+24 | 7+7+9+9+18 | 9+9+9+12+18 |
| | 9+9+18 | 7+9+12+12 | | 9+9+12 | 7+9+9+12 | 9+12+12+12 | 7+7+9+9+21 | 9+9+9+12+21 |
| | 9+9+21 | 7+9+12+18 | | 9+9+18 | 7+9+9+18 | 9+12+12+18 9+12+12+21 | 7+7+9+9+24 | 9+9+9+12+24 9+9+9+18+18 |
| | 9+9+24 9+12+12 | 7+9+12+21 7+9+12+24 | | 9+9+21 9+9+24 | 7+9+9+21 7+9+9+24 | 9+12+12+21 | 7+7+9+12+12 7+7+9+12+18 | 9+9+12+12+12 |
| | 9+12+12 | 7+9+12+24 | | 9+9+24 | 7+9+9+24 7+9+12+12 | 9+12+12+24 | 7+7+9+12+16 | 9+9+12+12+18 |
| | 9+12+10 | 7+12+12+12 | | 9+12+18 | 7+9+12+12 | 9+12+18+21 | 7+7+9+12+24 | 9+9+12+12+21 |
| | 9+12+24 | 7+12+12+18 | | 9+12+21 | 7+9+12+21 | 9+12+18+24 | 7+7+9+18+18 | 9+12+12+12+12 |
| | 9+18+18 | 7+12+12+21 | | 9+12+24 | 7+9+12+24 | 9+12+21+21 | 7+7+9+18+21 | 9+12+12+12+18 |
| | 9+18+21 | 9+9+9+9 | | 9+18+18 | 7+9+18+18 | 9+18+18+18 | | 12+12+12+12+12 |
| | 9+18+24 | 9+9+9+12 | | 9+18+21 | 7+9+18+21 | 12+12+12+12 | 7+7+12+12+18 | |
| | 9+21+21 | 9+9+9+18 | | 9+18+24 | 7+9+18+24 | 12+12+12+18 | 7+7+12+12+21 | |
| | 9+21+24 | 9+9+9+21 | | 9+21+21 | 7+9+21+21 | 12+12+12+21 | 7+7+12+12+24 | |
| | 12+12+12 | 9+9+9+24 | | 9+21+24 | 7+9+21+24 | | 7+7+12+18+18 | |
| | 12+12+18 | 9+9+12+12 | | 9+24+24 | | 12+12+18+18 | | |
| | 12+12+21 | 9+9+12+18 | | 12+12+12 | | 12+12+18+21 | | |
| | 12+12+24 | 9+9+12+21 | | 12+12+18 | | | | |
| | 12+18+18 | 9+9+12+24 | | 12+12+21 | | | | |
| | 12+18+21 | 9+9+18+18 | | 12+12+24 | | | | |
| | 12+18+24 | 9+12+12+12 | | 12+18+18 | | | | |
| | 12+21+21 | 9+12+12+18 | | 12+18+21 | | | | |
| | 18+18+18 | 9+12+12+21 | | 12+18+24 | | | | |
| | | 12+12+12+12 | | 12+21+21 | | | | |
| | | 12+12+12+18 | | 12+21+24 | | | | |
| | | | | 12+24+24 | | | | |
| | | | | 18+18+18 | | | | |
| | | | | 18+18+21 | | | | |
| | | | | 18+18+24 | | | | |
| | | | | 18+21+21 | | | | |
| | | | | 18+21+24 21+21+21 | | | | |
| | | | | ZITZITZI | | | | |

Any configuration outside of those listed in the above tables will cause errors on the external drives, resulting in system failure and/or damage.

OUTDOOR UNIT PERFORMANCE DATA

| | | MPG420 | MPG520 | MPG630 | MPG730 | MPG840 | MPG1040 | MPG1250 |
|--|-----------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|-----------------|
| Nominal cooling performances | | | | | | | | |
| Cooling capacity (1) | kW | 4,10 | 5,30 | 6,10 | 7,10 | 8,00 | 10,60 | 12,10 |
| Cooling input power (1) | kW | 1,10 | 1,48 | 1,48 | 1,88 | 2,12 | 3,00 | 3,40 |
| EER (2) | W/W | 3,73 | 3,58 | 4,12 | 3,78 | 3,77 | 3,53 | 3,56 |
| Minimum cooling performances | | | | | | | | |
| Cooling capacity | kW | 2,05 | 2,14 | 2,20 | 2,30 | 2,30 | 2,60 | 2,60 |
| Cooling input power | kW | 0,20 | 0,30 | 0,40 | 0,60 | 0,80 | 0,60 | 0,60 |
| Maximum cooling performances | | | | | | | | |
| Cooling capacity | kW | 5,00 | 5,80 | 8,30 | 9,20 | 11,00 | 12,00 | 15,20 |
| Cooling input power | kW | 2,20 | 2,50 | 2,90 | 3,40 | 3,60 | 4,60 | 4,60 |
| Seasonal efficiency | | | | | | | | |
| SEER | W/W | 6,70 | 6,50 | 6,90 | 6,50 | 6,10 | 6,50 | 6,48 |
| Annual power consumption | kWh/annum | 214 | 285 | 309 | 382 | 459 | 571 | - |
| Efficiency energy class (3) | | A++ | A++ | A++ | A++ | A++ | A++ | - |
| Nominal heating performances | | | | | | | | |
| Heating capacity (4) | kW | 4,40 | 5,65 | 6,50 | 8,60 | 9,50 | 12,00 | 13,00 |
| Heating input power (4) | kW | 0,97 | 1,25 | 1,43 | 2,23 | 2,20 | 3,04 | 3,19 |
| COP (2) | W/W | 4,54 | 4,52 | 4,55 | 3,86 | 4,32 | 3,95 | 4,08 |
| Minimum heating performances | | , | , | ,== | ., | ,,= | -, | , |
| Heating capacity | kW | 2,49 | 2,58 | 3,60 | 3,65 | 3,65 | 3,00 | 3,00 |
| Heating input power | kW | 0,30 | 0,40 | 0,40 | 0,60 | 0,70 | 0,80 | 0,80 |
| Maximum heating performances | | ., | ., | ., | .,, | | ., | .,, |
| Heating capacity | kW | 5,40 | 6,50 | 8,50 | 9,20 | 10,25 | 14,00 | 15,50 |
| Heating input power | kW | 2,25 | 2,50 | 2,90 | 3,00 | 3,60 | 5,00 | 5,00 |
| Seasonal efficiency (temperate climate) | | _, | _, | _,,,, | -, | -, | 2,55 | -, |
| SCOP | W/W | 4,00 | 4,00 | 3,80 | 3,80 | 4,00 | 3,80 | 3,80 |
| Annual power consumption | kWh/annum | 1295 | 1435 | 2247 | 2247 | 2345 | 3795 | - |
| Efficiency energy class (3) | Kirri, airiairi | A+ | A+ | Α | Α | A+ | A | - |
| Outdoor unit | | | | | | | | |
| Type of fan | Туре | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial |
| Air flow rate | .,,,,, | intercer and | inverter and | inverter and | mrerer and | mrereer amai | mrerter and | mrerer and |
| Maximum | m³/h | 2300 | 2300 | 3800 | 3800 | 3800 | 5800 | 5800 |
| Sound power (5) | , | 2500 | 2500 | 3000 | 3000 | 5000 | 5000 | 3000 |
| Maximum | dB(A) | 62,0 | 64,0 | 68,0 | 68,0 | 68,0 | 70,0 | 74,0 |
| Sound pressure (1 m) (6) | (-) | ,- | ,- | | | ,- | | ,- |
| Maximum | dB(A) | 52,0 | 54,0 | 58,0 | 58,0 | 58,0 | 60,0 | 60,0 |
| Compressor | 45(1) | 32/0 | 3 1/0 | 30,0 | 30,0 | 30,0 | 00/0 | 55/5 |
| Туре | type | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary |
| Refrigerant | type | R32 | R32 | R32 | R32 | R32 | R32 | R32 |
| Refrigerant charge | kg | 0,75 | 0,90 | 1,60 | 1,70 | 1,80 | 2,40 | 2,40 |
| Potential global heating | GWP | 675kgCO ₂ eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,51 | 0,61 | 1,08 | 1,15 | 1,22 | 1,62 | 1,62 |
| Electric data | • | ا در ۰ | 0,01 | .,00 | .,15 | ., | .,02 | .,02 |
| Rated power input (7) | kW | 2,3 | 2,5 | 2,9 | 3,4 | 3,6 | 5,0 | 5,0 |
| Rated current input (7) | A | 10,0 | 11,0 | 12,9 | 15,0 | 16,0 | 21,7 | 21,7 |
| Refrigeration pipework | - A | 10,0 | 11,0 | 12,7 | 13,0 | 10,0 | 21,7 | 21,1 |
| Maximum refrigerant tube length | m | 40 | 40 | 60 | 60 | 70 | 80 | 100 |
| Maximum single cooling line length | m | 20 | 20 | 20 | 20 | 20 | 25 | 25 |
| Maximum unit (indoor/external) cooling line level | 111 | | | | | | | |
| difference in height | m | 15,0 | 15,0 | 15,0 | 15,0 | 15,0 | 25,0 | 25,0 |
| Maximum (indoor/outdoor) cooling line level difference | m | 15,0 | 15,0 | 15,0 | 15,0 | 15,0 | 25,0 | 25,0 |
| Refrigerant to be added | q/m | 20 | 20 | 20 | 20 | 20 | 20,0 | 20,0 |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Power supply | IIIII (IIICII) | 7,32 (310) | 7,32 (310) | 7,32 (3/0) | 7,32 (3/0) | 1,12 (310) | 7,32 (310) | 126 (210) |
| Outdoor unit power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |
| (1) Cooling (EN 14511 and EN 14935) ambient air temper | | | | | | 220-2401 ~ JUIL | ∠∠U-∠ 1 UV ~ JUI1Z | 22U-24UV ~ JUNZ |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

(3) Data in accordance with Delegated Regulation (EU) No. 626/2011.

(4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

(5) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

(6) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

(7) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

All technical data refer to the respective reference combinations of the indoor units.

INDOOR UNIT PERFORMANCE DATA

SPG_W

| | | SPG200W | SPG250W | SPG350W | SPG500W | SPG700W |
|-------------------------------|----------|---------|---------|----------------------|----------|---------|
| Nominal cooling performances | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,50 | 3,20 | 4,60 | 6,20 |
| Moisture removed | l/h | 0,6 | 0,6 | 1,4 | 1,8 | 1,8 |
| Nominal heating performances | | | | | | |
| Heating capacity (2) | kW | 2,40 | 2,80 | 3,40 | 5,20 | 6,50 |
| Indoor unit | | | | | | |
| Type of fan | Туре | | | Inverter centrifugal | | |
| Input power | W | 13 | 13 | 23 | 38 | 38 |
| Air flow rate | | | | | | |
| Minimum | m³/h | 250 | 270 | 320 | 600 | 650 |
| Average | m³/h | 420 | 390 | 400 | 700 | 750 |
| Maximum | m³/h | 470 | 470 | 520 | 800 | 950 |
| Turbo | m³/h | 500 | 500 | 590 | 850 | 1100 |
| Sound power (3) | | | | | | |
| Minimum | dB(A) | 34,0 | 34,0 | 38,0 | 44,0 | 49,0 |
| Average | dB(A) | 45,0 | 44,0 | 45,0 | 48,0 | 52,0 |
| Maximum | dB(A) | 49,0 | 48,0 | 49,0 | 52,0 | 58,0 |
| Turbo | dB(A) | 55,0 | 55,0 | 56,0 | 54,0 | 61,0 |
| Sound pressure (1 m) (4) | | | | | | |
| Minimum | dB(A) | 22,0 | 22,0 | 26,0 | 34,0 | 35,0 |
| Average | dB(A) | 33,0 | 32,0 | 33,0 | 38,0 | 38,0 |
| Maximum | dB(A) | 36,0 | 36,0 | 37,0 | 42,0 | 44,0 |
| Turbo | dB(A) | 39,0 | 38,0 | 41,0 | 44,0 | 47,0 |
| Indoor unit | <u> </u> | | | | | |
| Condensate discharge diameter | mm | 16,0 | 16,0 | 16,0 | 16,0 | 16,0 |
| Power supply | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | <u> </u> | |

CKG_FS

| | | CKG260FS | CKG360FS | CKG500FS |
|-------------------------------|-------|----------|----------------------|----------|
| Nominal cooling performances | | | | |
| Cooling capacity (1) | kW | 2,70 | 3,50 | 5,20 |
| Moisture removed | l/h | 0,8 | 1,2 | 1,8 |
| Nominal heating performances | | | | |
| Heating capacity (2) | kW | 2,90 | 3,80 | 5,33 |
| Indoor unit | | | | |
| Type of fan | Туре | | Inverter centrifugal | |
| Input power | W | 35 | 40 | 50 |
| Air flow rate | | | | |
| Minimum | m³/h | 280 | 360 | 410 |
| Average | m³/h | 370 | 440 | 520 |
| Maximum | m³/h | 430 | 520 | 650 |
| Turbo | m³/h | 500 | 600 | 700 |
| Sound power (3) | | | | |
| Minimum | dB(A) | 38,0 | 39,0 | 47,0 |
| Average | dB(A) | 44,0 | 46,0 | 51,0 |
| Maximum | dB(A) | 48,0 | 50,0 | 55,0 |
| Turbo | dB(A) | 50,0 | 54,0 | 57,0 |
| Sound pressure (4) | | | | |
| Minimum | dB(A) | 26,0 | 29,0 | 37,0 |
| Average | dB(A) | 31,0 | 36,0 | 41,0 |
| Maximum | dB(A) | 36,0 | 40,0 | 45,0 |
| Turbo | dB(A) | 39,0 | 44,0 | 47,0 |
| Indoor unit | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 |
| Power supply | | | | |
| Indoor unit power supply | | | 220-240V ~ 50Hz | |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.
Sound power calculated in free field, in accordance with UNI EN ISO 3744.

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
Sound power calculated in free field, in accordance with UNI EN ISO 3744.

MLG_F

| | | MLG250F | MLG350F | MLG500F | MLG700F |
|-------------------------------|-------|---------|-------------|-------------|---------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,60 | 3,50 | 4,50 | 7,10 |
| Moisture removed | l/h | 0,8 | 1,4 | 1,8 | 2,5 |
| Nominal heating performances | | | | | |
| Heating capacity (2) | kW | 2,70 | 4,00 | 5,00 | 8,00 |
| Electric data | | | | | |
| Rated power input (3) | W | 38 | 38 | 38 | 60 |
| Indoor unit | | | | | |
| Type of fan | Type | | Inverter of | centrifugal | |
| Input power | W | 38 | 38 | 38 | 60 |
| Air flow rate | | | | | |
| Minimum | m³/h | 420 | 420 | 410 | 720 |
| Average | m³/h | 540 | 540 | 520 | 800 |
| Maximum | m³/h | 610 | 610 | 590 | 870 |
| Turbo | m³/h | 700 | 700 | 680 | 950 |
| Sound power (4) | | | | | |
| Minimum | dB(A) | 40,0 | 40,0 | 40,0 | 41,0 |
| Average | dB(A) | 44,0 | 44,0 | 44,0 | 45,0 |
| Maximum | dB(A) | 49,0 | 49,0 | 49,0 | 52,0 |
| Turbo | dB(A) | 52,0 | 52,0 | 52,0 | 52,0 |
| Sound pressure (5) | | | | | |
| Minimum | dB(A) | 26,0 | 26,0 | 26,0 | 27,0 |
| Average | dB(A) | 30,0 | 30,0 | 30,0 | 31,0 |
| Maximum | dB(A) | 35,0 | 35,0 | 35,0 | 35,0 |
| Turbo | dB(A) | 38,0 | 38,0 | 38,0 | 38,0 |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 | 17,0 |
| Power supply | · | | | | |
| Indoor unit power supply | | | 220-240 | V ~ 50Hz | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
 Sound power calculated in free field, in accordance with UNI EN ISO 3744.

MPG CS

| | | MPG350CS | MPG500CS |
|-------------------------------|-------|----------|----------------------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 3,50 | 5,00 |
| Moisture removed | l/h | 1,4 | 1,8 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 4,00 | 5,50 |
| Indoor unit | | | |
| Type of fan | Туре | | Inverter centrifugal |
| Input power | W | 30 | 35 |
| Air flow rate | | | |
| Minimum | m³/h | 380 | 380 |
| Average | m³/h | 450 | 450 |
| Maximum | m³/h | 540 | 540 |
| Turbo | m³/h | 560 | 650 |
| Sound power (3) | | | |
| Minimum | dB(A) | 46,0 | 46,0 |
| Average | dB(A) | 50,0 | 50,0 |
| Maximum | dB(A) | 55,0 | 55,0 |
| Turbo | dB(A) | 57,0 | 59,0 |
| Sound pressure (1 m) (4) | | | |
| Turbo | dB(A) | 41,0 | 43,0 |
| Minimum | dB(A) | 30,0 | 30,0 |
| Average | dB(A) | 34,0 | 34,0 |
| Maximum | dB(A) | 39,0 | 39,0 |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 |
| Power supply | | | |
| Indoor unit power supply | | | 220-240V ~ 50Hz |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.
Sound power calculated in free field, in accordance with UNI EN ISO 3744.

MPG C

| | | MPG700C | | | |
|-------------------------------|-------|----------------------|--|--|--|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 7,00 | | | |
| Moisture removed | l/h | 2,5 | | | |
| Nominal heating performances | | | | | |
| Heating capacity (2) | kW | 8,00 | | | |
| Indoor unit | | | | | |
| Type of fan | Туре | Inverter centrifugal | | | |
| Input power | W | 50 | | | |
| Air flow rate | | | | | |
| Minimum | m³/h | 830 | | | |
| Average | m³/h | 910 | | | |
| Maximum | m³/h | 1050 | | | |
| Turbo | m³/h | 1100 | | | |
| Sound pressure (1 m) (3) | | | | | |
| Turbo | dB(A) | 44,0 | | | |
| Minimum | dB(A) | 38,0 | | | |
| Average | dB(A) | 40,0 | | | |
| Maximum | dB(A) | 43,0 | | | |
| Sound power (4) | | | | | |
| Minimum | dB(A) | 57,0 | | | |
| Average | dB(A) | 59,0 | | | |
| Maximum | dB(A) | 61,0 | | | |
| Turbo | dB(A) | 62,0 | | | |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 25,0 | | | |
| Power supply | | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | | | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 Sound power calculated in free field, in accordance with UNI EN ISO 3744.

MPG D

| MPG_D | | MPG250D | MPG350D | MPG500D | MPG700D |
|-------------------------------|----------|---------|---------------------------------------|------------|----------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,65 | 3,50 | 5,00 | 7,00 |
| Moisture removed | l/h | 0,8 | 1,4 | 1,8 | 2,5 |
| Nominal heating performances | | , | · · · · · · · · · · · · · · · · · · · | , | , |
| Heating capacity (2) | kW | 2,80 | 4,00 | 5,50 | 8,00 |
| Indoor unit | | | | | |
| Type of fan | Туре | | Inverter o | entrifugal | |
| Input power | W | 70 | 80 | 80 | 200 |
| Air flow rate | | | | | |
| Minimum | m³/h | 220 | 300 | 420 | 900 |
| Average | m³/h | 340 | 420 | 610 | 1000 |
| Maximum | m³/h | 450 | 540 | 720 | 1200 |
| urbo | m³/h | 560 | 600 | 800 | 1300 |
| Sound pressure (1 m) (3) | | | | | |
| urbo | dB(A) | 32,0 | 36,0 | 36,0 | 46,0 |
| Minimum | dB(A) | 22,0 | 27,0 | 25,0 | 36,0 |
| Average | dB(A) | 22,0 | 27,0 | 25,0 | 36,0 |
| Maximum | dB(A) | 28,0 | 34,0 | 31,0 | 42,0 |
| Sound power (4) | | | | | |
| Minimum | dB(A) | 37,0 | 42,0 | 40,0 | 51,0 |
| Average | dB(A) | 40,0 | 46,0 | 43,0 | 55,0 |
| Maximum | dB(A) | 43,0 | 49,0 | 46,0 | 57,0 |
| Turbo | dB(A) | 47,0 | 51,0 | 51,0 | 61,0 |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 26,0 | 26,0 | 26,0 | 26,0 |
| Power supply | | | | | |
| Indoor unit power supply | <u> </u> | | 220-240 | V ~ 50Hz | <u> </u> |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 Sound power calculated in free field, in accordance with UNI EN ISO 3744.

MPG_DH

| | | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
|-------------------------------|-------|----------|------------|-------------|----------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,65 | 3,50 | 5,00 | 7,00 |
| Moisture removed | l/h | 0,8 | 1,4 | 1,8 | 2,5 |
| Nominal heating performances | | | | | |
| Heating capacity (2) | kW | 2,80 | 4,00 | 5,50 | 8,00 |
| Indoor unit | | | | | |
| Type of fan | Туре | | Inverter o | centrifugal | |
| nput power | W | 50 | 50 | 75 | 80 |
| High static pressure | | | | | |
| Maximum | Pa | 60 | 60 | 60 | 125 |
| Air flow rate | | | | | |
| Minimum | m³/h | 550 | 410 | 750 | 900 |
| Average | m³/h | 610 | 480 | 790 | 1000 |
| Maximum | m³/h | 670 | 560 | 840 | 1200 |
| Turbo | m³/h | 700 | 650 | 880 | 1500 |
| Sound pressure (1 m) (3) | | | | | |
| Turbo | dB(A) | 41,0 | 39,0 | 41,0 | 45,0 |
| Minimum | dB(A) | 35,0 | 33,0 | 37,0 | 36,0 |
| Average | dB(A) | 37,0 | 35,0 | 38,0 | 38,0 |
| Maximum | dB(A) | 39,0 | 37,0 | 39,0 | 40,0 |
| Sound power (4) | | | | | |
| Minimum | dB(A) | 51,0 | 49,0 | 53,0 | 53,0 |
| Average | dB(A) | 53,0 | 51,0 | 54,0 | 55,0 |
| Maximum | dB(A) | 55,0 | 53,0 | 55,0 | 57,0 |
| Turbo | dB(A) | 57,0 | 55,0 | 57,0 | 62,0 |
| Indoor unit | | | | | |
| Condensate discharge diameter | mm | 26,0 | 26,0 | 26,0 | 26,0 |
| Power supply | | | | | |
| Indoor unit power supply | | | 220-240 | V ~ 50Hz | |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.
(4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
Sound power calculated in free field, in accordance with UNI EN ISO 3744.

INDOOR UNIT COOLING FITTINGS

SPG_W

| | | SPG200W | SPG250W | SPG350W | SPG500W | SPG700W |
|--|-----------|-------------|-------------|-------------|-------------|-------------|
| Refrigeration pipework | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") |

CKG_FS

| | | CKG260FS | CKG360FS | CKG500FS | | | |
|--|-----------|-------------|-------------|-------------|--|--|--|
| Refrigeration pipework | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | | | |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | | | |

MLG_F

| | | MLG250F | MLG350F | MLG500F | MLG700F |
|--|-----------|------------|------------|------------|------------|
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4) | 6,35 (1/4) | 6,35 (1/4) | 9,52 (3/8) |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8) | 9,52 (3/8) | 12,7 (1/2) | 15,9 (5/8) |

MPG_CS

| | | MPG350CS | MPG500CS |
|--|-----------|-------------|-------------|
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") |

MPG_C

| | | MPG700C |
|--|-----------|-------------|
| Refrigeration pipework | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 15,9 (5/8") |

MPG_D

| | | MPG250D | MPG350D | MPG500D | MPG700D |
|--|-----------|-------------|-------------|-------------|-------------|
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") |

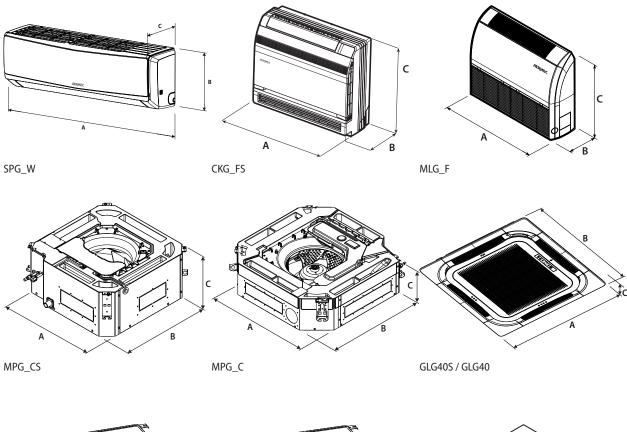
$\mathbf{MPG_DH}$

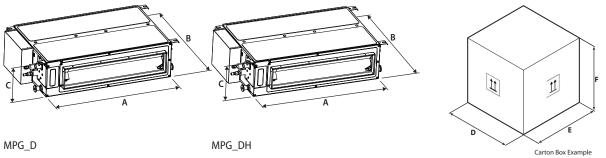
| | | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
|--|-----------|-------------|-------------|-------------|-------------|
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | 15,9 (5/8") |

OUTDOOR UNIT COOLING FITTINGS

| Models | | | MPG420 | MPG520 | MPG630 | MPG730 | MPG840 | MPG1040 | MPG1250 |
|--------------------|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Models | | | 14kBtu/h | 18kBtu/h | 21kBtu/h | 24kBtu/h | 28kBtu/h | 36kBtu/h | 42kBtu/h |
| | A | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | В | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Liquid connections | (| mm (inch) | | | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | D | mm (inch) | | | | | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| | E | mm (inch) | | | | | | | 9,52 (3/8") |
| | A | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| Gas connections | В | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | (| mm (inch) | | | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | D | mm (inch) | | | | | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| | E | mm (inch) | | | | | | | 6,35 (1/4") |

INDOOR UNIT WEIGHTS AND DIMENSIONS





SPG_W

| J. U | | | | | | |
|----------------------|----|---------|---------|---------|---------|---------|
| | | SPG200W | SPG250W | SPG350W | SPG500W | SPG700W |
| Indoor unit | | | | | | |
| A | mm | 696 | 696 | 770 | 972 | 1081 |
| В | mm | 251 | 251 | 251 | 300 | 325 |
| (| mm | 190 | 190 | 190 | 225 | 248 |
| D | mm | 747 | 747 | 822 | 1022 | 1137 |
| E | mm | 324 | 324 | 324 | 374 | 407 |
| F | mm | 262 | 262 | 262 | 299 | 334 |
| Net weight | kg | 7,50 | 7,50 | 8,50 | 13,50 | 16,50 |
| Weight for transport | ka | 9.00 | 9.00 | 10.00 | 16.00 | 19.50 |

CKG_FS

| | | CKG260FS | CKG360FS | CKG500FS |
|----------------------|----|----------|----------|----------|
| Indoor unit | | | | |
| A | mm | 700 | 700 | 700 |
| В | mm | 215 | 215 | 215 |
| (| mm | 600 | 600 | 600 |
| D | mm | 788 | 788 | 788 |
| E | mm | 283 | 283 | 283 |
| F | mm | 697 | 697 | 697 |
| Net weight | kg | 15,50 | 15,50 | 15,50 |
| Weight for transport | kg | 18,50 | 18,50 | 18,50 |

MLG_F

| | | MLG250F | MLG350F | MLG500F | MLG700F |
|----------------------|----|---------|---------|---------|---------|
| Indoor unit | | | | | |
| A | mm | 870 | 870 | 870 | 1200 |
| В | mm | 235 | 235 | 235 | 235 |
| C | mm | 665 | 665 | 665 | 665 |
| D | mm | 1033 | 1033 | 1033 | 1363 |
| E | mm | 300 | 300 | 300 | 300 |
| F | mm | 770 | 770 | 770 | 770 |
| Net weight | kg | 25,00 | 25,00 | 26,00 | 33,00 |
| Weight for transport | kg | 30,00 | 30,00 | 31,00 | 40,00 |

MPG_CS

| | | MPG350CS | MPG500CS |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 570 | 570 |
| В | mm | 570 | 570 |
| C | mm | 265 | 265 |
| D | mm | 698 | 698 |
| E | mm | 653 | 653 |
| F | mm | 295 | 295 |
| Net weight | kg | 17,00 | 17,00 |
| Weight for transport | kg | 22,00 | 22,00 |

MPG_C

| | | MPG700C |
|----------------------|----|---------|
| Indoor unit | | |
| A | mm | 840 |
| В | mm | 840 |
| C | mm | 240 |
| D | mm | 963 |
| E | mm | 963 |
| F | mm | 325 |
| Net weight | kg | 29,00 |
| Weight for transport | kg | 36,00 |

GLG40S / GLG40

| | | GLG40S | GLG40 |
|----------------------|----|--------|-------|
| Indoor unit | | | |
| A | mm | 620 | 950 |
| В | mm | 620 | 950 |
| C | mm | 48 | 52 |
| D | mm | 701 | 1033 |
| E | mm | 701 | 1038 |
| F | mm | 125 | 112 |
| Net weight | kg | 3,00 | 6,00 |
| Weight for transport | kg | 5,00 | 10,00 |

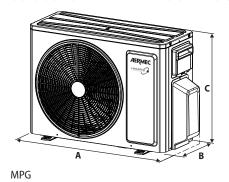
MPG_D

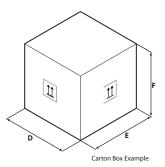
| | | MPG250D | MPG350D | MPG500D | MPG700D |
|----------------------|----|---------|---------|---------|---------|
| Indoor unit | | | | | |
| A | mm | 710 | 710 | 1010 | 900 |
| В | mm | 450 | 450 | 450 | 655 |
| C | mm | 200 | 200 | 200 | 260 |
| D | mm | 1008 | 1008 | 1308 | 1115 |
| E | mm | 568 | 568 | 568 | 772 |
| F | mm | 275 | 275 | 275 | 320 |
| Net weight | kg | 18,50 | 19,00 | 25,00 | 31,00 |
| Weight for transport | kg | 22,50 | 23,00 | 30,00 | 36,00 |

MPG_DH

| | | MPG250DH | MPG350DH | MPG500DH | MPG700DH |
|----------------------|----|----------|----------|----------|----------|
| Indoor unit | | | | | |
| A | mm | 710 | 710 | 1010 | 900 |
| В | mm | 450 | 450 | 450 | 655 |
| C | mm | 200 | 200 | 200 | 260 |
| D | mm | 1008 | 1008 | 1308 | 1115 |
| E | mm | 568 | 568 | 568 | 772 |
| F | mm | 275 | 275 | 275 | 320 |
| Net weight | kg | 18,50 | 19,00 | 25,00 | 31,00 |
| Weight for transport | kg | 22,50 | 23,00 | 30,00 | 36,00 |

OUTDOOR UNIT WEIGHTS AND DIMENSIONS





MPG

| | | MPG420 | MPG520 | MPG630 | MPG730 | MPG840 | MPG1040 | MPG1250 |
|----------------------|----|--------|--------|--------|--------|--------|-----------|-----------|
| Outdoor unit | | | | | | | | |
| A | mm | 822 | 822 | 964 | 964 | 964 | 1020 | 1020 |
| В | mm | 352 | 352 | 402 | 402 | 402 | 427 | 427 |
| C | mm | 555 | 555 | 660 | 660 | 660 | 826 | 826 |
| D | mm | 872 | 872 | 1032 | 1032 | 1032 | 1095 | 1095 |
| E | mm | 398 | 398 | 456 | 456 | 456 | 500 | 500 |
| F | mm | 620 | 620 | 737 | 737 | 737 | 955 | 955 |
| Net weight | kg | 30,00 | 32,00 | 47,50 | 47,50 | 51,00 | 72,00 | 73,00 |
| Weight for transport | kg | 32,50 | 34,50 | 52,00 | 52,00 | 55,50 | 85,00 (1) | 86,00 (1) |

⁽¹⁾ Packaging + pallet

















MGE

Multisplit

Cooling capacity 4,1 ÷ 7,9 kW Heating capacity 4,4 ÷ 8,2 kW



- New R32 ecological refrigerant gas.
- Wi-fi control using the relative accessory.
- Special golden fin coil.











DESCRIPTION

The multisplit air conditioners of the MGE range are combined with:

— SGE_W unit wall, for wall installation.

TYPE OF INDOOR UNIT

Indoor unit SGE_W

Wall indoor unit designed to be installed on indoor walls.

SGE_W has an elegant and essential design. Its curved lines emphasize a kind of structure with innovative and functional style. The display with working parameters is elegantly integrated in the satin-finish cover and visible only when the unit is on.







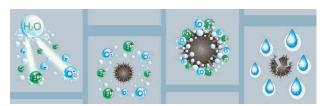
Features

- Remote control standard supply with each indoor unit.
- Fan with DC inverter technology.
- Regenerable air filter easy to remove and clean.
- Timer for programming switch-off and switch-on.
- Auxiliary emergency command integrated into the unit.
- Indoor unit front panel with LED display and indicator lights.
- 3-speed fan, to meet every possible need.
- **Auto** function for a continuous speed variation.
- Turbo function to attain the desired temperature as quickly as possible.
- **Sleep** night time function well-being program.
- Anti-freeze function that allows you to keep an inside minimum temperature of 8 °C in winter.
- followMe function for activating the ambient temperature probe inside the remote control, for improved comfort.

Air Purifiers (Cold Plasma)

Capable of reducing pollutants breaking down their molecules using electric discharges, causing the splitting of the water molecules in the air into positive and negative ions. These ions neutralise the molecules of the gaseous pollutants obtaining products that are normally present in clean air. The device can eliminate 90% of bacteria. The result is clean, ionised air that has no bad odours.

Not available for SGE200W



Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



Nethome Plus app

Using the specific **accessory**, the system offers wi-fi control thanks to the app for iOS and Android devices (available free on Apple Store and Google Play). The system can be controlled from a distance directly on

your smartphone or tablet, or via Cloud with the aid of a wireless router connected to the Internet.











- New R32 ecological refrigerant gas with low GWP.
- Operating mode: cooling, heating, dehumidification, automatic and fan only.

TYPE OF OUTDOOR UNIT

Outdoor unit

Multisplit air conditioner.

Reversible air/air heat pump with DC inverter technology.

Types

- Dualsplit: outdoor units MGE420 and MGE520 can be combined with 2 indoor units.
- Trialsplit: outdoor units MGE630 and MGE830 can be combined with 2 or 3 indoor units.

- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Air filter easily removed and cleaned.
- Systems with multi-line refrigerant connections, where every indoor unit is connected directly to the outdoor unit via dedicated refrigerant lines.
- Easy installation and maintenance.

Low cooling function

cooling operation with outdoor temperatures down to -15 $^{\circ}\text{C}$

Low heating function

heating with external temperatures up to -15 °C.

General features

- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

ACCESSORIES

WIFIKEY: Plug & Play module to be installed in the indoor unit for Wi-Fi control.

ACCESSORIES COMPATIBILITY

| Accessory | SGE200W | SGE250W | SGE350W | SGE500W |
|-----------|---------|---------|---------|---------|
| WIFIKEY | • | • | • | • |

ALLOWED COMBINATIONS OF INDOOR UNITS

For trialsplit MGE units, it is mandatory to install at least 2 indoor units for correct functioning of the system.

For further information, please refer to the technical documentation on the website www.aermec.com

| MGE420 (14kBtu/h) | MGE520 (18kBtu/h) | MGE630 (21kBtu/h) | | | E830 Btu/h) | | | | | | |
|----------------------|----------------------|----------------------|--------|-------|----------------|--|--|--|--|--|--|
| No. indoor unit | | | | | | | | | | | |
| 2 | 2 | 2 | 3 | 2 | 3 | | | | | | |
| 7+7 | 7+7 | 7+7 | 7+7+7 | 7+7 | 7+7+7 | | | | | | |
| 7+9 | 7+9 | 7+9 | 7+7+9 | 7+9 | 7+7+9 | | | | | | |
| 7+12 | 7+12 | 7+12 | 7+7+12 | 7+12 | 7+7+12 | | | | | | |
| 9+9 | 9+9 | 7+18 | 7+9+9 | 7+18 | 7+9+9 | | | | | | |
| 9+12 | 9+12 | 9+9 | 9+9+9 | 9+9 | 7+9+12 | | | | | | |
| | 12+12 | 9+12 | 7+9+12 | 9+12 | 7+12+12 | | | | | | |
| | | 9+18 | | 9+18 | 9+9+9 | | | | | | |
| | | 12+12 | | 12+12 | 9+9+12 | | | | | | |
| | | | | 12+18 | 9+12+12 | | | | | | |
| | | | | | 12+12+12 | | | | | | |
| | | | | | 7+7+18 | | | | | | |
| | | | | | 7+9+18 | | | | | | |

Reference combinations

OUTDOOR UNIT PERFORMANCE DATA

| | | MGE420 | MGE520 | MGE630 | MGE830 |
|---|-----------|-----------------|-----------------|-----------------|-----------------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 4,10 | 5,30 | 6,15 | 7,90 |
| Cooling input power (1) | kW | 1,27 | 1,64 | 1,91 | 2,45 |
| EER (2) | W/W | 3,23 | 3,23 | 3,23 | 3,23 |
| Minimum cooling performances | | | | | |
| Cooling capacity | kW | 1,47 | 2,29 | 1,99 | 3,18 |
| Cooling input power | kW | 0,12 | 0,69 | 0,18 | 0,29 |
| Maximum cooling performances | | | | | |
| Cooling capacity | kW | 4,98 | 5,71 | 6,59 | 8,21 |
| Cooling input power | kW | 1,67 | 2,00 | 2,20 | 3,10 |
| Seasonal efficiency | | | | | |
| SEER | W/W | 5,60 | 6,10 | 6,10 | 6,10 |
| Efficiency energy class (3) | | A+ | A++ | A++ | A++ |
| Annual power consumption | kWh/annum | 258 | 309 | 350 | 453 |
| Nominal heating performances | | | | | |
| Heating capacity (4) | kW | 4,40 | 5,57 | 6,45 | 8,20 |
| Heating input power (4) | kW | 1,27 | 1,50 | 1,74 | 2,21 |
| COP (2) | W/W | 3,71 | 3,71 | 3,71 | 3,71 |
| Minimum heating performances | | | | | |
| Heating capacity | kW | 1,52 | 2,40 | 1,99 | 2,29 |
| Heating input power | kW | 0,12 | 0,60 | 0,35 | 0,37 |
| Maximum heating performances | | | | | |
| Heating capacity | kW | 4,98 | 5,74 | 6,68 | 8,50 |
| Heating input power | kW | 1,67 | 1,78 | 1,80 | 2,90 |
| Seasonal efficiency (temperate climate) | | | | | |
| SCOP | W/W | 3,80 | 3,80 | 4,00 | 4,00 |
| Efficiency energy class (3) | | A | A | A+ | A+ |
| Annual power consumption | kWh/annum | 1400 | 1768 | 1910 | 1960 |
| Power supply | | | | | |
| Outdoor unit power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m. (2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication. (3) Data in accordance with Delegated Regulation (EU) No. 626/2011. (4) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

Outdoor unit technical data

| | | MGE420 | MGE520 | MGE630 | MGE830 |
|-------------------------------|-------|-----------------|-----------------|-----------------|-----------------|
| Outdoor unit | | | | | |
| Type of fan | Туре | Axial | Axial | Axial | Axial |
| Air flow rate | | | | | |
| Maximum | m³/h | 2100 | 2100 | 3000 | 3000 |
| Sound power (1) | | | | | |
| Maximum | dB(A) | 64,0 | 65,0 | 65,0 | 67,0 |
| Sound pressure (1 m) (2) | | | | | |
| Maximum | dB(A) | 56,0 | 54,0 | 58,0 | 58,0 |
| Compressor | | | | | |
| Туре | type | Inverter rotary | Inverter rotary | Inverter rotary | Inverter rotary |
| Refrigerant | type | R32 | R32 | R32 | R32 |
| Refrigerant charge | kg | 1,10 | 1,25 | 1,50 | 1,85 |
| Potential global heating | GWP | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq | 675kgCO₂eq |
| Equivalent CO ₂ | t | 0,74 | 0,84 | 1,01 | 1,24 |
| Outdoor unit | | | | | |
| Condensate discharge diameter | mm | 16,0 | 16,0 | 16,0 | 16,0 |

- (1) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (2) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

Outdoor unit general technical data

| | | MGE420 | MGE520 | MGE630 | MGE830 |
|--|-----------|--------|--------|--------|--------|
| Electric data | | | | | |
| Rated power input (1) | kW | 2,8 | 3,1 | 3,9 | 4,1 |
| Rated current input (1) | A | 12,0 | 13,0 | 17,0 | 18,0 |
| Refrigeration pipework | | | | | |
| Maximum refrigerant tube length | m | 40 | 40 | 60 | 60 |
| Maximum single cooling line length | m | 25 | 25 | 30 | 30 |
| Refrigerant to be added | g/m | 12 | 12 | 12 | 12 |
| Maximum unit (indoor/external) cooling line level difference in height | m | 10,0 | 10,0 | 10,0 | 10,0 |
| Maximum (indoor/outdoor) cooling line level difference | m | 15,0 | 15,0 | 15,0 | 15,0 |
| Diameter of liquid refrigerant connections | mm (inch) | | 6,35 | (1/4") | |
| Diameter of refrigerant gas connections | mm (inch) | | 9,52 | (3/8") | |

⁽¹⁾ The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

INDOOR UNIT PERFORMANCE DATA

SGE W

| | | SGE200W | SGE250W | SGE350W | SGE500W |
|--|-----------|-----------------|-----------------|-----------------|-----------------|
| Nominal cooling performances | | | | | |
| Cooling capacity (1) | kW | 2,05 | 2,77 | 3,46 | 5,27 |
| Nominal heating performances | | | | | |
| Heating capacity (2) | kW | 2,34 | 2,93 | 3,57 | 4,97 |
| Indoor unit | | | | | |
| Type of fan | Туре | Tangential | Tangential | Tangential | Tangential |
| Air flow rate | | | | | |
| Maximum | m³/h | 460 | 466 | 540 | 840 |
| lverage | m³/h | 360 | 360 | 430 | 680 |
| Minimum | m³/h | 325 | 325 | 314 | 540 |
| Sound power (3) | | | | | |
| Maximum | dB(A) | 54,0 | 54,0 | 55,0 | 56,0 |
| Average | dB(A) | - | - | - | - |
| Minimum | dB(A) | - | - | - | - |
| Sound pressure (1 m) (4) | | | | | |
| Minimum | dB(A) | 21,0 | 25,0 | 25,0 | 26,0 |
| Maximum | dB(A) | 40,0 | 38,5 | 40,5 | 42,5 |
| Average | dB(A) | 26,0 | 32,0 | 34,5 | 36,0 |
| Refrigeration pipework | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") |
| liameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 12.7 (1/2") |
| ower supply | | <u> </u> | | | |
| ndoor unit power supply | | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz | 220-240V ~ 50Hz |

ADAPTERS SUPPLIED WITH THE OUTDOOR UNIT

| II | MCE430 | MGE520 | MGE630 | MGE830 | Connections mm (inch) | | | | |
|----------|--------|--------|--------|---------------|-----------------------|---------------|-------------|--|--|
| Unit | MGE420 | | | MGESZU MGEGSU | 30 MGE830 - | Outdoor unit | Indoor unit | | |
| Quantity | 0 | 0 | 1 | 1 | 9,52mm (3/8") | 12,7mm (1/2") | | | |

For further information, please refer to the technical documentation on the website www.aermec.com

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

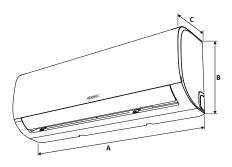
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

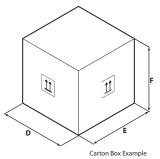
(3) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

INDOOR UNIT WEIGHTS AND DIMENSIONS

SGE_W

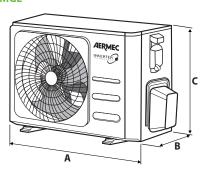


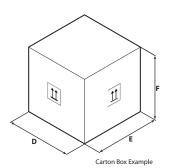


| | | SGE200W | SGE250W | SGE350W | SGE500W |
|----------------------|----|---------|---------|---------|---------|
| Indoor unit | | | | | |
| A | mm | 805 | 805 | 805 | 957 |
| В | mm | 285 | 285 | 285 | 302 |
| (| mm | 194 | 194 | 194 | 213 |
| D | mm | 870 | 870 | 870 | 1035 |
| E | mm | 270 | 270 | 270 | 295 |
| F | mm | 360 | 365 | 365 | 385 |
| Net weight | kg | 7,90 | 7,60 | 7,60 | 10,00 |
| Weight for transport | kg | 9,70 | 9,70 | 9,80 | 13,00 |

OUTDOOR UNIT WEIGHTS AND DIMENSIONS

MGE





| | | MGE420 | MGE520 | MGE630 | MGE830 |
|----------------------|----|--------|--------|--------|--------|
| Outdoor unit | | | | | |
| A | mm | 877 | 877 | 1003 | 1003 |
| В | mm | 349 | 349 | 380 | 380 |
| C | mm | 554 | 554 | 673 | 673 |
| D | mm | 915 | 915 | 1030 | 1030 |
| E | mm | 370 | 370 | 438 | 438 |
| F | mm | 615 | 615 | 750 | 750 |
| Net weight | kg | 31,60 | 35,00 | 43,30 | 48,00 |
| Weight for transport | kg | 34,70 | 38,00 | 47,10 | 51,80 |

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Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VRF SYSTEM

The VRFs are the direct expansion systems, with variable refrigerant flow.

Unlike the Multisplits, which are characterised by a set flow of refrigerant, these systems allow users to adjust the amount of refrigerant in circulation, according to the actual load required by the indoor units in use.

They range of 12kW to 276 kW thanks to their modular configuration, and are available in a heat pump version with heat recovery and domestic hot water production.

These systems guarantee excellent energy efficiency, avoiding wasting energy pointlessly, and are amazingly quiet during operation.

VRF SYSTEM MVBM - MVAS

Air flow rate Cool. Cap. Heat. Cap. (kW) (kW)











MVBM - MVAS

Direct expansion variable refrigerant flow system VRF

Cooling capacity 12,1 ÷ 246,0 kW Heating capacity 14,0 ÷ 276,0 kW



- Units prepared for installations with two pipes.
- The correct balance between cost, efficiency and space.
- Wide choice of indoor units available.
- Up to 80 connectible indoor units.



DESCRIPTION

The MV air conditioners from the MVBM and MVA S range are combined with indoor units:

- MVA_WL Wall.
- MVA_D Horizontal duct.
- MVA_DH Horizontal duct, high head.
- MVA_DV Vertical duct.
- MVA_CS, MVA_C 8-way cassette .
- MVA_CB 4-way cassette .
- MVA_C1 1-way cassette.
- MVA_F Floor ceiling.
- MVA_FS Console.
- MVA_V Column.
- MVA_ERV Heat recovery unit.

TYPE OF INDOOR UNIT

MVA_WL

Wall indoor unit designed to be installed on indoor walls.

- Modern design to blend with all furnishing styles.
- Distributed air jet: air outlet louvers with horizontal and vertical adjustment facility.
- Anti-freeze function that allows a minimum temperature of 8 °C to be maintained in the environment during the winter period.

MVA_D

Duct indoor unit designed for indoor duct type installation.

MVA_D - Horizontal duct.

- Wired panel standard supply.
- Low noise levels.
- Easy installation in small assembly spaces, thanks to the limited dimensions.
- Useful static pressure up to 80 Pa.

MVA DH

Duct indoor unit designed for indoor duct type installation.

MVA_DH - Horizontal duct, high head.

- Wired panel standard supply.
- Unit without cover, designed for duct type horizontal installation.
- Useful static pressure up to 200 Pa.

MVA DV

 $\textbf{Duct} \ indoor \ unit \ designed \ for \ indoor \ vertical \ installation.$

MVA_DV - Vertical duct.

- Wired panel standard supply.
- Unit without cover, designed for installation in wall recesses.
- Useful static pressure up to 60 Pa.

MVA CS/MVA C

8-way cassette indoor unit designed to be installed on false ceilings indoors.

MVA_CS - Cassette 570x570.

Mandatory accessory GLG40S.

MVA_C - Cassette 840x840.

- Mandatory accessory GLG40.
- Wired panel standard supply.
- Condensate discharge pump as standard.
- Guarantees even air distribution, for optimum comfort.

MVA CB

4-way cassette indoor unit designed to be installed on false ceilings indoors.

MVA_CB - Cassette 910x910.

Mandatory accessory GL40B.

- Wired panel standard supply.
- Condensate discharge pump as standard.
- Guarantees even air distribution, for optimum comfort.

MVA C1

1-way cassette indoor unit designed to be installed on false ceilings indoors.

MVA C1 - Cassette 987x385.

- Mandatory accessory GLC1.
- Wired panel standard supply.
- Condensate discharge pump as standard.
- Compact size and minimum dimensions.

MVA F

Floor ceiling indoor unit to be installed on walls or ceiling.

- Low noise levels.
- Anti-freeze function.
- Flexible installation for any environment.

MVA FS

Console indoor unit designed to be installed on the floor.

- Anti-freeze function.
- 5-speed fan, to meet every possible need.
- Two delivery vents for optimal control of the air flow.

MVA \

Column indoor unit designed to be installed in large sized rooms.

- Easy installation and maintenance.
- Speed in reaching the defined set point in the shortest time possible
- Ideal for installations in the service sector: hotels, restaurants, offices.

General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Total capacity connected to the outdoor units between 50% and 135% of the rated capacity of the selected configuration.
- Indoor unit fitted standard with an electronic expansion valve.
- WRC wired panel standard supply with each indoor unit.
- Every indoor unit comes with a remote control and a remote control holder.
- Automatic unit adjustment function.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.
- Self-diagnosis function.
- Easy installation and maintenance.

TYPE OF INDOOR UNIT - HEAT RECOVERY

MVA ERV



Heat recovery units designed for duct-type horizontal installation indoors. Fitted with a cross-flow enthalpic heat recovery unit with recovery efficiency higher than 70%. The heat exchanger allows energy to be transferred from the exhaust air to the fresh air, avoiding any direct mixing of the air flows.

This range of heat recovery units ensures constantly clean and filtered fresh air, a constant air flow rate, and rooms with comfortable temperature and humidity levels, ensuring reduced energy consumption in every application.

The device is also equipped with a direct expansion coil to allow the air flow delivered into the room to give off or absorb heat. This means that the unit not only guarantees correct air renewal, but also helps cool or heat the rooms and avoid air currents with a marked temperature difference in relation to the room temperature, to ensure optimum comfort for the occupants.

Operating mode

Every indoor unit comes with a wired panel. The wired panel can be used to set the standard cooling, heating, dehumidification and ventilation-only modes, plus the following operating modes.

- Bypass with free cooling and night-time free cooling operation: night-time free cooling operation reduces the thermal load in the rooms, taking advantage merely of the outside temperature difference and therefore boosting energy savings for the following day thanks to free night-time cooling.
- Control of different inlet and outlet air flow rates: known as "positive pressure operating mode" when the inlet air flow rate is higher than the recovery one, or "negative pressure operating mode" in the opposite situation.

Mixed connection indoor units + MVA_ERV

In case of mixed systems, i.e. consisting of indoor units of the VRF and units, MVA_ERV to guarantee the proper operation of the system, the nominal cooling powers of the indoor units is between 50% and 100% of the nominal cooling power of the system of external units and that the sum of the installed nominal power of the MVA_ERV units does not exceed 30% of the power of the external units system.

Connections with MVA_ERV units only

In case of systems made up only by units, MVA_ERV to guarantee the proper operation of the system, check that the sum of the nominal cooling powers of the indoor units is between 50% and 100% of the nominal cooling power of the external units system.

General features

- Wired panel standard supply with each indoor unit.
- Particularly guiet operation.
- Centrifugal fans with 5-speed brushless DC motor.
- Units fitted with an electronic expansion valve as standard.
- Filters with G4 efficiency level on inlet and outlet air.
- Alarm signal for filter cleaning.
- Timer for programming unit switch-on and switch-off.
- Incorporated electrical panel with electronic card to control the ventilation and free cooling functions.
- Easy installation and maintenance.

TYPE OF OUTDOOR UNIT

MVA S

Standard multisplit VRF air conditioners.

Reversible air/air heat pump with DC inverter technology.

- From 1 to 16 connectible indoor units.
- Total maximum length of the refrigerant lines up to 300 m.
- The sizes MVAS 1201S MVAS 1401S MVAS 1601S e MVAS 1201T MVAS 1401T MVAS 1601T, are fitted with a base electric resistor to avoid possible formation of ice and encourage the disposal of the condensate during the heating operation.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.

MVB M

Module multisplit VRF ambient air conditioner for 2-pipe systems. Reversible air/air heat pump with DC inverter technology.

- From 1 to 80 connectible indoor units.
- Total maximum length of the refrigerant lines up to 1000 m.
- Modular system with base modules that can be combined together, up to a maximum of 4, for a total of 33 recommended combinations.
- Compressor and fan with DC inverter technology.
- Fitted with an electronic expansion valve.
- Optimised management of the compressor operating time with partial loads.
- Emergency operation, in the event of problems with the compressors or fans, allows operation of the system with a reduced number of compressors and/or fans for a limited time.
- Channelled air delivery from 0 Pa (default) to 82 Pa of effective static head set via dip switches.
- For cooling line connections, refer to refnet joints in the accessories section.

Special golden fin coil

Unlike normal batteries, this special golden epoxy coating silicon free is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



General features

- Operating mode: cooling, heating, dehumidification, automatic and fan only.
- Refrigerant connections with braze welded Y and F joints (mandatory accessories).
- Compressor and fan with DC inverter technology.
- Particularly quiet operation.
- Microproccessor control.
- Auto-restart function.— Self-diagnosis function.
- Self-diagnosis function.
- Easy installation and maintenance.
- Serial communication in CanBus protocol.

ACCESSORIES

CC2: Centralised control with 7" touchscreen display for managing several indoor units within a number of multisplit systems. The centralised control has an integrated external contact. For more information, refer to the specific documentation. *

MVASZC: Simplified centralised control (4,3" touch screen display), which can be used to manage up to 32 Indoor Units distributed across a maximum of 16 Systems.

WLRC: Remote control with liquid crystal display and soft-touch buttons.

WRC: Wired panel with liquid crystal display and soft-touch buttons.

WRC1: Simplified wired panel with liquid crystal display and soft-touch buttons with built-in external contact. This panel is particularly suitable for hotel applications.

* The CC2 centralised control can manage up to 255 indoor units distributed over a maximum of 16 VRF systems.

For more information about the accessories and their functions (such as the auto-restart function), refer to the specific documentation of the single accessory.

AHUKIT: Kit comprised of a box that contains the thermal expansion valve(s) complete with wiring and their control module, with pre-wired

probes, a wall-mounted control panel with external contact. The kit is intended to be combined with the direct expansion cooling and/or heating coil (using R410A) of an air treatment unit. The latter is not supplied as an MV_ component, but is functionally connected to an MV_ system and is suitably sized. AHUKIT, and the and the air treatment unit connected to it, treat the recirculated and/or fresh air that falls within the operating limits, regulating the recirculation/expulsion air temperature.

MINIMODBUS10: Thanks to its smaller size, this accessory can be easily installed in the outdoor unit. It allows you to manage up to 16 MV systems (with a maximum of 255 indoor units), with a ModBus RTU serial on RSA485 for supervision with an external BMS.

MVAGW: This accessory allows you to manage up to 16 MV systems (with a maximum of 255 total indoor units), making available a serial in ModBus RTU protocol on RS485, ModBus TCP or BACnet / IP for supervision with an external BMS.

USBDC: The kit includes a converter (from CanBus to ModBus) and the VRF debugger software. IT is designed to meet the requirements of after sales services and qualified technicians who need to carry out control and debugging procedures on the MV ranges.

Accessories mandatory

Air delivery and recovery grille for indoor **Cassette** type units.

| Grille model | | Indoor unit model | | | | | 1 WAV | Dimensions | Weight |
|--------------|--------------------------------------|-------------------|-------|-------|------------|----|-------|--------------|--------|
| Grille model | lel MVA_CS MVA_C MVA_CB MVA_C1 8 WAY | 8 WAY | 4 WAY | 1 WAY | LxHxW (mm) | Kg | | | |
| GLG40S | • | - | - | - | • | - | - | 620x620x47,5 | 3,0 |
| GLG40 | - | • | - | - | • | - | - | 950x950x52 | 6,0 |
| GL40B | - | - | | | - | • | - | 1040x1040x65 | 8,0 |
| GLC1 | - | - | - | • | - | - | • | 1200x460x55 | 4,2 |

Joints refnet

Connection between modular outdoor units.

The modules are easy to install and link together from the cooling point of view, thanks to the connections with dedicated refnet joints. Modularity is the fundamental characteristic of these systems as it also allows high-capacity systems to be created in a quick, simple way.

Y-joints for cooling connection between 2 Outdoor Units in Modular Systems. A modular system made up of n. base modules requires n-1 Y-joints.

Mandatory accessory for modular systems.

| MVBM 2-pipe system. | | | | | | |
|---------------------|--------------|--|--|--|--|--|
| Outdoor unit | Indoor units | | | | | |
| RNYM01 | RNY11 | | | | | |
| AHUKIT | RNY12 | | | | | |
| RNYAHU | RNY21 | | | | | |
| | RNY31 | | | | | |
| | RNY41 | | | | | |
| | RNF14 | | | | | |
| | RNF18 | | | | | |
| | RNF18B | | | | | |

MVB_M 2-pipe system

RNYM01

Accessory comprising 2 Y-joints, one for the liquid line and one for the discharge line.

Connection between indoor units

RNY

Accessory comprising 2 Y-joints, one for the liquid line and one for the discharge line.

RNF

Accessory made up of two F-joints, one for the liquid line and one for the discharge line.

| Code | System type | Type of joint | Total power downline (kW) | | Maximum 1-way connectible power | Connectible indoor units |
|--------|-------------|---------------|---------------------------|--------|---------------------------------|--------------------------|
| | 2-pipe | | > | ≤ | (kW) | No. |
| RNY11 | • | Υ | - | 20,00 | - | - |
| RNY12 | • | Υ | 20,00 | 30,00 | - | - |
| RNY21 | • | Υ | 30,00 | 70,00 | - | - |
| RNY31 | • | Υ | 70,00 | 135,00 | - | - |
| RNY41 | • | Υ | 135,00 | - | - | - |
| | | | | | | |
| RNF14 | • | F | - | 40,00 | 16,00 | from 2 to 4 |
| RNF18 | • | F | - | 68,00 | 16,00 | from 4 to 8 |
| RNF18B | • | F | 68,00 | - | 16,00 | from 4 to 8 |

ADVANTAGES FOR VRF SYSTEMS: MVAS/MVBM

Compact design

Thanks to the reduced dimensions and compact design of these units, they are easy to move at the job site. All the models can in fact be transported easily right up to the roof, even using a lift.



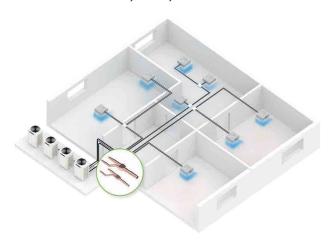
VRF systems - 2-pipe heat pump

Customise your VRF system

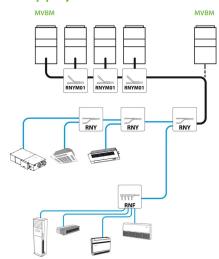
To guarantee greater seasonal efficiency and maximum comfort with the variable refrigerant function.

Continuous comfort

Continuous heating or cooling of the rooms is what makes the VRF system a valid alternative to hydronic systems.



Example of a 2-pipe system



When dimensioning the cooling lines, exclusively refer to the technical manual.

A modular system made up of n base modules requires n-1 Y-joints.

MVAS - MVBM

- 2-pipe system.
- Cooling or heating mode. (The image shows an example of a system in cooling mode)
- Total maximum length of the refrigerant lines: MVAS: 300 m, MVBM:

CONFIGURATIONS

MVA_S combinations

MVA S connectable units

| MVA S | Nominal cooling capacity (kW) | Min. no. of indoor units | Max. no. of indoor units |
|-------|-------------------------------|--------------------------|--------------------------|
| 12015 | 12,10 | 2 | 7 |
| 14015 | 14,00 | 2 | 8 |
| 16015 | 16,00 | 2 | 9 |
| 1201T | 12,10 | 2 | 7 |
| 1401T | 14,00 | 2 | 8 |
| 1601T | 16,00 | 2 | 9 |
| 2242T | 22,40 | 1 | 13 |
| 2802T | 28,00 | 1 | 17 |
| 3351T | 33,50 | 2 | 20 |

MVA S outdoor unit with single duct type indoor unit

| MVA S | Nominal cooling capacity (kW) | No. indoor units | Compatible indoor unit |
|-------|-------------------------------|------------------|------------------------|
| 2242T | 22,40 | 1 | MVA2240DH |
| 2802T | 28,00 | 1 | MVA2800DH |

MVB_M recommended configurations

| | Nominal cooling capacity— | | | mbination | | Connectible | |
|--------------|---------------------------|-------|-------|-----------|-------|-------------|-------------|
| | | | | dule | | Num | |
| | (kW) | (A) | (B) | (C) | (D) | MINIMUM (1) | MAXIMUM (2) |
| | 22,40 | 2240T | - | - | - | 1 | 13 |
| | 28,00 | 2800T | - | - | - | 1 | 16 |
| | 33,50 | 3350T | - | - | - | 1 | 19 |
| Base Module | 40,00 | 4000T | - | - | - | 1 | 23 |
| buse module | 45,00 | 4500T | - | - | - | 1 | 26 |
| | 50,40 | 5040T | - | - | - | 1 | 29 |
| | 56,00 | 5600T | - | - | - | 1 | 33 |
| | 61,50 | 6150T | - | - | - | 2 | 36 |
| | 68,00 | 2800T | 4000T | = | - | 2 | 39 |
| | 73,00 | 2800T | 4500T | - | - | 2 | 43 |
| | 78,40 | 2800T | 5040T | - | - | 2 | 46 |
| | 84,00 | 2800T | 5600T | - | - | 2 | 50 |
| | 89,50 | 2800T | 6150T | - | - | 2 | 53 |
| | 95,00 | 3350T | 6150T | - | - | 2 | 56 |
| | 101,50 | 4000T | 6150T | - | - | 2 | 59 |
| | 106,50 | 4500T | 6150T | - | - | 2 | 63 |
| | 111,90 | 5040T | 6150T | - | - | 3 | 64 |
| | 117,50 | 5600T | 6150T | = | - | 3 | 64 |
| | 123,00 | 6150T | 6150T | - | - | 3 | 64 |
| | 129,00 | 2800T | 4500T | 5600T | - | 3 | 64 |
| | 134,50 | 2800T | 4500T | 6150T | - | 3 | 64 |
| | 140,00 | 3350T | 4500T | 6150T | - | 3 | 66 |
| | 145,50 | 2800T | 5600T | 6150T | - | 3 | 69 |
| | 151,00 | 2800T | 6150T | 6150T | - | 3 | 71 |
| Combinations | 156,50 | 3350T | 6150T | 6150T | - | 3 | 74 |
| | 163,00 | 4000T | 6150T | 6150T | - | 3 | 77 |
| | 168,00 | 4500T | 6150T | 6150T | - | 4 | 80 |
| | 173,40 | 5040T | 6150T | 6150T | - | 4 | 80 |
| | 179,00 | 5600T | 6150T | 6150T | - | 4 | 80 |
| | 184,50 | 6150T | 6150T | 6150T | - | 4 | 80 |
| | 190,50 | 2800T | 4500T | 5600T | 6150T | 4 | 80 |
| | 195,90 | 2800T | 5040T | 5600T | 6150T | 4 | 80 |
| | 201,50 | 2800T | 5600T | 5600T | 6150T | 4 | 80 |
| | 207,00 | 2800T | 5600T | 6150T | 6150T | 4 | 80 |
| | 212,50 | 2800T | 6150T | 6150T | 6150T | 4 | 80 |
| | 218,00 | 3350T | 6150T | 6150T | 6150T | 4 | 80 |
| | 224,50 | 4000T | 6150T | 6150T | 6150T | 5 | 80 |
| | 229,50 | 4500T | 6150T | 6150T | 6150T | 5 | 80 |
| | 234,90 | 5040T | 6150T | 6150T | 6150T | 5 | 80 |
| | 240,50 | 5600T | 6150T | 6150T | 6150T | 5 | 80 |
| | 246,00 | 6150T | 6150T | 6150T | 6150T | 5 | 80 |

INDOOR UNIT PERFORMANCE DATA

MVA_WL

| | | MVA220WL | MVA280WL | MVA360WL | MVA450WL | MVA500WL | MVA560WL | MVA630WL | MVA710WL |
|--|-----------|----------|----------|-------------|-------------|-----------|----------|-------------|----------|
| Nominal cooling performances | | | | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,00 | 5,60 | 6,30 | 7,10 |
| Nominal heating performances | | | | | | | | | |
| Heating capacity (2) | kW | 2,50 | 3,20 | 4,00 | 5,00 | 5,60 | 6,30 | 7,10 | 7,50 |
| Electric data | | | | | | | | | |
| Rated power input (3) | W | 20 | 20 | 25 | 35 | 35 | 50 | 50 | 65 |
| Fan | | | | | | | | | |
| Туре | type | | | | Inverter t | angential | | | |
| Air flow rate | | | | | | | | | |
| Minimum | m³/h | 300 | 300 | 320 | 500 | 501 | 650 | 650 | 650 |
| Average | m³/h | 440 | 440 | 460 | 580 | 580 | 850 | 850 | 850 |
| Maximum | m³/h | 500 | 500 | 630 | 850 | 850 | 1100 | 1100 | 1200 |
| Sound power (4) | | | | | | | | | |
| Minimum | dB(A) | 40,0 | 41,0 | 41,0 | 47,0 | 47,0 | 47,0 | 48,0 | 47,0 |
| Average | dB(A) | 43,0 | 43,0 | 45,0 | 50,0 | 50,0 | 51,0 | 51,0 | 51,0 |
| Maximum | dB(A) | 45,0 | 45,0 | 48,0 | 53,0 | 53,0 | 53,0 | 53,0 | 54,0 |
| Sound pressure (5) | | | | | | | | | |
| Minimum | dB(A) | 30,0 | 30,0 | 31,0 | 37,0 | 37,0 | 37,0 | 37,0 | 37,0 |
| Average | dB(A) | 33,0 | 33,0 | 35,0 | 40,0 | 40,0 | 41,0 | 41,0 | 41,0 |
| Maximum | dB(A) | 35,0 | 35,0 | 38,0 | 43,0 | 43,0 | 43,0 | 43,0 | 44,0 |
| Refrigeration pipework | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 (1/4") | | | | 9,52 (3/8") | |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 | (3/8") | | 12,7 (1/2") | | | 15,9 (5/8") | |
| Power supply | | | | | | | | | |
| Indoor unit power supply | | | | | 220-240 | V ~ 50Hz | | | |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 20,0 | 20,0 | 20,0 | 20,0 | 20,0 | 20,0 | 20,0 | 20,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA D

| | | MVA221D | MVA251D | MVA281D | MVA321D | MVA361D | MVA401D | MVA451D | MVA501D | MVA561D |
|--|-----------|---------|-------------|---------|---------|---------------------|-------------|---------|---------|-------------|
| Nominal cooling performances | | | | | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,50 | 2,80 | 3,20 | 3,60 | 4,00 | 4,50 | 5,00 | 5,60 |
| Nominal heating performances | | | | | | | | | | |
| Heating capacity (2) | kW | 2,50 | 2,80 | 3,20 | 3,60 | 4,00 | 4,50 | 5,00 | 5,60 | 6,30 |
| Electric data | | | | | | | | | | |
| Rated power input (3) | W | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 117 | 117 |
| Fan | | | | | | | | | | |
| Туре | type | | | | | Inverter centrifuga | al | | | |
| Air flow rate | | | | | | | | | | |
| Minimum | m³/h | 200 | 200 | 200 | 300 | 300 | 400 | 400 | 550 | 550 |
| Average | m³/h | 350 | 350 | 350 | 400 | 400 | 550 | 550 | 700 | 700 |
| Maximum | m³/h | 450 | 450 | 450 | 550 | 550 | 750 | 750 | 850 | 850 |
| High static pressure | | | | | | | | | | |
| Nominal | Pa | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Sound power (4) | | | | | | | | | | |
| Minimum | dB(A) | 32,0 | 32,0 | 32,0 | 35,0 | 35,0 | 37,0 | 37,0 | 39,0 | 39,0 |
| Average | dB(A) | 35,0 | 35,0 | 35,0 | 37,0 | 37,0 | 39,0 | 39,0 | 41,0 | 41,0 |
| Maximum | dB(A) | 40,0 | 40,0 | 40,0 | 41,0 | 41,0 | 43,0 | 43,0 | 45,0 | 45,0 |
| Sound pressure (5) | | | | | | | | | | |
| Minimum | dB(A) | 22,0 | 22,0 | 22,0 | 25,0 | 25,0 | 27,0 | 27,0 | 29,0 | 29,0 |
| Average | dB(A) | 25,0 | 25,0 | 25,0 | 27,0 | 27,0 | 29,0 | 29,0 | 31,0 | 31,0 |
| Maximum | dB(A) | 30,0 | 30,0 | 30,0 | 31,0 | 31,0 | 33,0 | 33,0 | 35,0 | 35,0 |
| Refrigeration pipework | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | | 6,35 | (1/4") | | | | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | | 9,52 (3/8") | | | | 12,7 (1/2") | | | 15,9 (5/8") |
| Power supply | | | | | | | | | | |
| Indoor unit power supply | | | | | | 220-240V ~ 50Hz | 2 | | | |
| Indoor unit | | | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

| | | MVA631D | MVA711D | MVA801D | MVA901D | MVA1001D | MVA1121D | MVA1251D | MVA1401D |
|--|-----------|-----------------|----------|----------|------------|------------|----------|----------|----------|
| Nominal cooling performances | | MITAUSID | MIVA/11D | MINNOVID | MVAZOID | MVATOUTD | MVATILID | MVAIZJID | MVAITUID |
| Cooling capacity (1) | kW | 6,30 | 7,10 | 8,00 | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 |
| Nominal heating performances | | , | • | • | , | , | | • | , |
| Heating capacity (2) | kW | 7,10 | 8,00 | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 |
| Electric data | | | | | | | | | |
| Rated power input (3) | W | 117 | 154 | 110 | 130 | 130 | 130 | 170 | 170 |
| Fan | | | | | , | | | | |
| Туре | type | | | | Inverter o | entrifugal | | | |
| Air flow rate | | | | | | | | | |
| Minimum | m³/h | 550 | 650 | 900 | 900 | 1000 | 1100 | 1400 | 1400 |
| Average | m³/h | 700 | 850 | 1100 | 1250 | 1350 | 1500 | 1700 | 1700 |
| Maximum | m³/h | 850 | 1100 | 1250 | 1500 | 1500 | 1700 | 2000 | 2000 |
| High static pressure | | | | | | | | | |
| Nominal | Pa | 15 | 15 | 50 | 50 | 50 | 50 | 50 | 50 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 30 | 50 | 80 | 80 | 80 | 80 | 80 | 80 |
| Sound power (4) | | | | | | | | | |
| Minimum | dB(A) | 39,0 | 40,0 | 46,0 | 47,0 | 47,0 | 47,0 | 52,0 | 52,0 |
| Average | dB(A) | 41,0 | 42,0 | 49,0 | 51,0 | 51,0 | 51,0 | 55,0 | 55,0 |
| Maximum | dB(A) | 45,0 | 47,0 | 52,0 | 55,0 | 55,0 | 55,0 | 57,0 | 57,0 |
| Sound pressure (5) | | | | | | | | | |
| Minimum | dB(A) | 29,0 | 30,0 | 31,0 | 32,0 | 32,0 | 32,0 | 37,0 | 37,0 |
| Average | dB(A) | 31,0 | 32,0 | 34,0 | 36,0 | 36,0 | 36,0 | 40,0 | 40,0 |
| Maximum | dB(A) | 35,0 | 37,0 | 37,0 | 40,0 | 40,0 | 40,0 | 42,0 | 42,0 |
| Refrigeration pipework | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | | 9,52 | (3/8") | | | |
| Diameter of refrigerant gas connections | mm (inch) | | | | 15,9 | (5/8") | | | |
| Power supply | | | | | | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | | | | | | | |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

(3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

(4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

(5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

| MVA_DH | | | | | | | |
|--|-----------|----------|-------------|------------|------------|-------------|----------|
| | | MVA221DH | MVA251DH | MVA281DH | MVA321DH | MVA361DH | MVA401DH |
| Nominal cooling performances | | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,50 | 2,80 | 3,20 | 3,60 | 4,00 |
| Nominal heating performances | | | | | | | |
| Heating capacity (2) | kW | 2,50 | 2,80 | 3,20 | 3,60 | 4,00 | 4,50 |
| Electric data | | | | | | | |
| Rated power input (3) | W | 55 | 55 | 55 | 65 | 65 | 85 |
| Fan | | | | | | | |
| Туре | type | | | Inverter o | entrifugal | | |
| Air flow rate | | | | | | | |
| Minimum | m³/h | 400 | 400 | 400 | 420 | 420 | 600 |
| Average | m³/h | 480 | 480 | 480 | 500 | 500 | 700 |
| Maximum | m³/h | 550 | 550 | 550 | 600 | 600 | 850 |
| High static pressure | | | | | | | |
| Nominal | Pa | 60 | 60 | 60 | 60 | 60 | 60 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 150 | 150 | 150 | 150 | 150 | 150 |
| Sound power (4) | | | | | | | |
| Minimum | dB(A) | 41,0 | 41,0 | 41,0 | 42,0 | 42,0 | 44,0 |
| Average | dB(A) | 43,0 | 43,0 | 43,0 | 44,0 | 44,0 | 47,0 |
| Maximum | dB(A) | 45,0 | 45,0 | 45,0 | 46,0 | 46,0 | 50,0 |
| Sound pressure (5) | | | | | | | |
| Minimum | dB(A) | 31,0 | 31,0 | 31,0 | 32,0 | 32,0 | 34,0 |
| Average | dB(A) | 33,0 | 33,0 | 33,0 | 34,0 | 34,0 | 37,0 |
| Maximum | dB(A) | 35,0 | 35,0 | 35,0 | 36,0 | 36,0 | 40,0 |
| Refrigeration pipework | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 | (1/4") | | |
| Diameter of refrigerant gas connections | mm (inch) | | 9,52 (3/8") | | | 12,7 (1/2") | |
| Power supply | | | | | | | |
| ndoor unit power supply | | | | 220-240 | V ~ 50Hz | | |
| Indoor unit | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

| | | MVA451DH | MVA501DH | MVA561DH | MVA631DH | MVA711DH | MVA801DH |
|---|--|--|--|---|--|--|--|
| Nominal cooling performances | | | | | | | |
| Cooling capacity (1) | kW | 4,50 | 5,00 | 5,60 | 6,30 | 7,10 | 8,00 |
| Nominal heating performances | | | | | | | |
| Heating capacity (2) | kW | 5,00 | 5,60 | 6,30 | 7,10 | 8,00 | 9,00 |
| Electric data | | | | | | | |
| Rated power input (3) | W | 85 | 85 | 90 | 90 | 100 | 100 |
| Fan | | | | | | | |
| Туре | type | | | Inverter ce | entrifugal | | |
| Air flow rate | | | | | - | | |
| Minimum | m³/h | 600 | 600 | 700 | 700 | 950 | 950 |
| Average | m³/h | 700 | 700 | 800 | 800 | 1050 | 1050 |
| Maximum | m³/h | 850 | 850 | 1000 | 1000 | 1250 | 1250 |
| High static pressure | , | | | | | | |
| Nominal | Pa | 60 | 60 | 90 | 90 | 90 | 90 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 150 | 150 | 200 | 200 | 200 | 200 |
| | га | 130 | 130 | 200 | 200 | 200 | 200 |
| Sound power (4) | AD/A/ | 44.0 | 44.0 | AE O | AE O | AE O | AF O |
| Minimum | dB(A) | 44,0 | 44,0 | 45,0 | 45,0 | 45,0 | 45,0 |
| Average | dB(A) | 47,0 | 47,0 | 48,0 | 48,0 | 49,0 | 49,0 |
| Maximum | dB(A) | 50,0 | 50,0 | 52,0 | 52,0 | 53,0 | 53,0 |
| Sound pressure (5) | | | | | | | |
| Minimum | dB(A) | 34,0 | 34,0 | 35,0 | 35,0 | 35,0 | 35,0 |
| Average | dB(A) | 37,0 | 37,0 | 38,0 | 38,0 | 39,0 | 39,0 |
| Maximum | dB(A) | 40,0 | 40,0 | 42,0 | 42,0 | 43,0 | 43,0 |
| Refrigeration pipework | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (| 1/4") | | 9,52 (| 3/8") | |
| Diameter of refrigerant gas connections | mm (inch) | 12,7 (| 1/2") | | 15,9 (| 5/8") | |
| Power supply | . , | , | , | | , , | , | |
| Indoor unit power supply | | | | 220-240\ | / ~ 50Hz | | |
| Indoor unit | | | | 220 2101 | 30112 | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |
| Condensate discharge diameter | 111111 | | | | | | |
| | | MVA901DH | MVA1001DH | MVA1121DH | MVA1251DH | MVA1401DH | MVA1601DH |
| Nominal cooling performances | | | | | | | |
| | 1111 | | 40.00 | 44.00 | 40.50 | | 44.00 |
| Cooling capacity (1) | kW | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 |
| Cooling capacity (1) Nominal heating performances | | | | | | | |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) | kW kW | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data | kW | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) | | | | | | | |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data | kW | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) | kW | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan | kW W | 10,00 | 11,20 | 12,50 160 | 14,00 | 16,00 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type | kW W | 10,00 | 11,20 | 12,50 160 | 14,00 | 16,00 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum | kW W type | 10,00 | 11,20 140 | 12,50 160 Inverter ce | 14,00 160 entrifugal | 16,00 220 | 18,00 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average | kW W type m³/h m³/h | 10,00 140 1250 1450 | 11,20 140 1250 1450 | 12,50 160 Inverter ce 1400 1600 | 14,00 160 entrifugal 1400 1600 | 16,00 220 1650 1900 | 18,00 230 1750 2000 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum | kW W type m³/h | 10,00 140 1250 | 11,20 140 | 12,50 160 Inverter ce | 14,00 160 entrifugal | 16,00 220 1650 | 18,00 230 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure | kW type m³/h m³/h m³/h | 10,00 140 1250 1450 1800 | 11,20 140 1250 1450 1800 | 12,50 160 Inverter ce 1400 1600 2000 | 14,00 160 entrifugal 1400 1600 2000 | 16,00 220 1650 1900 2350 | 18,00 230 1750 2000 2500 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal | kW type m³/h m³/h m³/h Pa | 10,00 140 1250 1450 1800 | 11,20 140 1250 1450 1800 | 12,50 160 Inverter ce 1400 1600 2000 | 14,00 160 entrifugal 1400 1600 2000 | 16,00 220 1650 1900 2350 | 18,00 230 1750 2000 2500 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum | kW type m³/h m³/h m³/h Pa Pa | 10,00 140 1250 1450 1800 | 11,20 140 1250 1450 1800 90 0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 | 14,00 160 entrifugal 1400 1600 2000 90 0 | 16,00 220 1650 1900 2350 90 0 | 18,00 230 1750 2000 2500 90 0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Maximum | kW type m³/h m³/h m³/h Pa | 10,00 140 1250 1450 1800 | 11,20 140 1250 1450 1800 | 12,50 160 Inverter ce 1400 1600 2000 | 14,00 160 entrifugal 1400 1600 2000 | 16,00 220 1650 1900 2350 | 18,00 230 1750 2000 2500 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Maximum Sound power (4) | kW type m³/h m³/h m³/h Pa Pa Pa | 10,00 140 1250 1450 1800 90 0 | 11,20 140 1250 1450 1800 90 0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 2000 | 14,00 160 2000 90 0 2000 | 16,00 220 1650 1900 2350 90 0 | 18,00 230 1750 2000 2500 90 0 200 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Maximum Maximum Sound power (4) Minimum | type m³/h m³/h m³/h Pa Pa Pa dB(A) | 10,00 140 1250 1450 1800 90 0 200 | 11,20 140 1250 1450 1800 90 0 200 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 | 14,00 160 2000 90 0 2000 50,0 | 16,00 220 1650 1900 2350 90 0 200 | 18,00 230 1750 2000 2500 90 0 200 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Maximum Sound power (4) Minimum Average | kW type m³/h m³/h m³/h Pa Pa Pa Pa dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 | 14,00 160 2000 1400 1600 2000 90 0 200 50,0 52,0 | 16,00 220 1650 1900 2350 90 0 200 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Average | type m³/h m³/h m³/h Pa Pa Pa dB(A) | 10,00 140 1250 1450 1800 90 0 200 | 11,20 140 1250 1450 1800 90 0 200 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 | 14,00 160 2000 90 0 2000 50,0 | 16,00 220 1650 1900 2350 90 0 200 | 18,00 230 1750 2000 2500 90 0 200 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) | type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 | 14,00 160 2000 1400 1600 2000 90 0 200 50,0 52,0 55,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum | kW type m³/h m³/h m³/h m³/h Pa Pa Pa AB(A) AB(A) AB(A) AB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 | 14,00 160 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 | 18,00 230 2750 2000 2500 2500 2500 2500 2500 250 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 | 14,00 160 1400 1600 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum | kW type m³/h m³/h m³/h m³/h Pa Pa Pa AB(A) AB(A) AB(A) AB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 | 14,00 160 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 | 18,00 230 2750 2000 2500 2500 2500 2500 2500 250 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 47,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections Diameter of refrigerant gas connections | kW type m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections Diameter of refrigerant gas connections Power supply | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 9,52 (15,9 (5/8") | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 3/8") | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 47,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections Diameter of refrigerant gas connections Power supply Indoor unit power supply | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 3/8") | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 47,0 |
| Cooling capacity (1) Nominal heating performances Heating capacity (2) Electric data Rated power input (3) Fan Type Air flow rate Minimum Average Maximum High static pressure Nominal Minimum Maximum Sound power (4) Minimum Average Maximum Sound power (5) Minimum Average Maximum Sound pressure (5) Minimum Average Maximum Refrigeration pipework Diameter of liquid refrigerant connections Diameter of refrigerant gas connections Power supply | kW type m³/h m³/h m³/h m³/h Pa Pa Pa dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) | 10,00 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 11,20 140 1250 1450 1800 90 0 200 48,0 51,0 54,0 38,0 41,0 | 12,50 160 Inverter ce 1400 1600 2000 90 0 200 50,0 52,0 55,0 40,0 42,0 45,0 9,52 (15,9 (5/8") | 14,00 160 2000 90 0 2000 50,0 52,0 55,0 40,0 42,0 45,0 3/8") | 16,00 220 1650 1900 2350 90 0 200 51,0 53,0 56,0 41,0 43,0 | 18,00 230 1750 2000 2500 90 0 200 52,0 54,0 57,0 42,0 44,0 47,0 |

| | | MVA 2240 DH | MVA 2800 DH |
|--|-----------|--------------|-----------------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 22,40 | 28,00 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 24,00 | 30,00 |
| Electric data | | | |
| Rated power input (3) | W | 960 | 1250 |
| Fan | | | |
| Туре | type | | |
| Air flow rate | | | |
| Minimum | m³/h | - | - |
| Average | m³/h | - | - |
| Maximum | m³/h | 4000 | 4400 |
| High static pressure | | | |
| Nominal | Pa | 150 | 150 |
| Minimum | Pa | - | - |
| Maximum | Pa | - | - |
| Sound power (4) | | | |
| Minimum | dB(A) | 59,0 | 60,0 |
| Average | dB(A) | 62,0 | 62,0 |
| Maximum | dB(A) | 64,0 | 65,0 |
| Sound pressure (5) | | | |
| Minimum | dB(A) | 49,0 | 50,0 |
| Average | dB(A) | 52,0 | 52,0 |
| Maximum | dB(A) | 54,0 | 55,0 |
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 19,05 (3/4") | 22,2 (7/8") |
| Diameter of refrigerant gas connections | mm (inch) | | 9,52 (3/8") |
| Power supply | | | |
| Indoor unit power supply | | | 220-240V ~ 50Hz |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 30,0 | 30,0 |

⁽¹⁾ Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_DV

| | | MVA220DV | MVA280DV | MVA360DV | MVA450DV | MVA560DV | MVA630DV | MVA710DV |
|--|-----------|----------|----------|----------|----------------------|----------|-------------|----------|
| Nominal cooling performances | | | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,60 | 6,30 | 7,10 |
| Nominal heating performances | | | | | | | | |
| Heating capacity (2) | kW | 2,50 | 3,20 | 4,00 | 5,00 | 6,30 | 7,10 | 8,00 |
| Electric data | | | | | | | | |
| Rated power input (3) | W | 35 | 35 | 43 | 45 | 80 | 80 | 90 |
| Fan | | | | | | | | |
| Туре | type | | | | Inverter centrifugal | | | |
| Air flow rate | | | | | | | | |
| Minimum | m³/h | 250 | 250 | 350 | 400 | 600 | 600 | 700 |
| Average | m³/h | 350 | 350 | 450 | 500 | 750 | 750 | 900 |
| Maximum | m³/h | 450 | 450 | 550 | 650 | 900 | 900 | 1100 |
| High static pressure | | | | | | | | |
| Nominal | Pa | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| Minimum | Pa | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | Pa | 40 | 40 | 40 | 60 | 60 | 60 | 60 |
| Sound power (4) | | | | | | | | |
| Minimum | dB(A) | 35,0 | 35,0 | 38,0 | 38,0 | 40,0 | 40,0 | 43,0 |
| Average | dB(A) | 38,0 | 38,0 | 41,0 | 41,0 | 43,0 | 43,0 | 45,0 |
| Maximum | dB(A) | 40,0 | 40,0 | 43,0 | 43,0 | 45,0 | 45,0 | 47,0 |
| Sound pressure (5) | | | | | | | | |
| Minimum | dB(A) | 25,0 | 25,0 | 28,0 | 28,0 | 30,0 | 30,0 | 33,0 |
| Average | dB(A) | 28,0 | 28,0 | 31,0 | 31,0 | 33,0 | 33,0 | 35,0 |
| Maximum | dB(A) | 30,0 | 30,0 | 33,0 | 33,0 | 35,0 | 35,0 | 37,0 |
| Refrigeration pipework | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | 6,35 | (1/4") | | | 9,52 (3/8") | |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 | (3/8") | 12,7 | (1/2") | | 15,9 (5/8") | |
| Power supply | | | | | | | | |
| Indoor unit power supply | | | | | 220-240V ~ 50Hz | | | |
| Indoor unit | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_CS

| MVA_C3 | | | | | | | | | |
|--|-----------|-----------------|----------|----------|------------|-------------|-------------|----------|-------------|
| | | MVA151CS | MVA181CS | MVA221CS | MVA281CS | MVA361CS | MVA451CS | MVA501CS | MVA561CS |
| Nominal cooling performances | | | | | | | | | |
| Cooling capacity (1) | kW | 1,50 | 1,80 | 2,20 | 2,80 | 3,60 | 4,50 | 5,00 | 5,60 |
| Nominal heating performances | | | | | | | | | |
| Heating capacity (2) | kW | 1,80 | 2,20 | 2,50 | 3,20 | 4,00 | 5,00 | 5,60 | 6,30 |
| Electric data | | | | | | | | | |
| Rated power input (3) | W | 30 | 30 | 30 | 30 | 30 | 45 | 45 | 45 |
| Fan | | | | | | | | | |
| Туре | type | | | | Inverter c | entrifugal | | | |
| Air flow rate | | | | | | | | | |
| Minimum | m³/h | 370 | 370 | 370 | 420 | 480 | 560 | 560 | 560 |
| Average | m³/h | 420 | 420 | 460 | 480 | 550 | 650 | 650 | 650 |
| Maximum | m³/h | 460 | 460 | 500 | 570 | 620 | 730 | 730 | 730 |
| Sound power (4) | | | | | | | | | |
| Minimum | dB(A) | 39,0 | 39,0 | 39,0 | 42,0 | 45,0 | 53,0 | 43,0 | 53,0 |
| Average | dB(A) | 44,0 | 44,0 | 45,0 | 47,0 | 49,0 | 55,0 | 55,0 | 55,0 |
| Maximum | dB(A) | 47,0 | 47,0 | 50,0 | 50,0 | 52,0 | 57,0 | 57,0 | 57,0 |
| Sound pressure (5) | | | | | | | | | |
| Minimum | dB(A) | 25,0 | 25,0 | 25,0 | 28,0 | 31,0 | 39,0 | 39,0 | 39,0 |
| Average | dB(A) | 30,0 | 30,0 | 31,0 | 33,0 | 35,0 | 41,0 | 41,0 | 41,0 |
| Maximum | dB(A) | 33,0 | 33,0 | 36,0 | 36,0 | 38,0 | 43,0 | 43,0 | 43,0 |
| Refrigeration pipework | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 | (1/4") | | | 6,35 (1/4") | | | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 | (3/8") | 9,52 | (3/8") | | 12,7 (1/2") | | 15,9 (5/8") |
| Power supply | | | | | | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz | | | | | | | |
| Indoor unit | | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_C

| | | | MVA281C | MVA361C | MVA451C | MVA501C | MVA561C | MVA631C |
|--|-----------|------|---------|-------------|----------------------|---------|---------|---------|
| Nominal cooling performances | | | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,00 | 5,60 | 6,30 |
| Nominal heating performances | | | | | | | | |
| Heating capacity (2) | kW | 2,50 | 3,20 | 4,00 | 5,00 | 5,60 | 6,30 | 7,10 |
| Electric data | | | | | | | | |
| Rated power input (3) | W | 26 | 26 | 26 | 26 | 28 | 35 | 60 |
| Fan | | | | | | | | |
| Туре | type | | | | Inverter centrifugal | | | |
| Air flow rate | | | | | | | | |
| Minimum | m³/h | 600 | 600 | 600 | 600 | 700 | 750 | 850 |
| Average | m³/h | 700 | 700 | 700 | 700 | 800 | 850 | 950 |
| Maximum | m³/h | 800 | 800 | 800 | 800 | 900 | 950 | 1150 |
| Sound power (4) | | | | | | | | |
| Minimum | dB(A) | 42,0 | 42,0 | 42,0 | 42,0 | 43,0 | 44,0 | 45,0 |
| Average | dB(A) | 44,0 | 44,0 | 44,0 | 44,0 | 46,0 | 47,0 | 48,0 |
| Maximum | dB(A) | 47,0 | 47,0 | 47,0 | 48,0 | 49,0 | 51,0 | 51,0 |
| Sound pressure (5) | | | | | | | | |
| Minimum | dB(A) | 28,0 | 28,0 | 28,0 | 28,0 | 29,0 | 30,0 | 31,0 |
| Average | dB(A) | 30,0 | 30,0 | 30,0 | 30,0 | 32,0 | 33,0 | 34,0 |
| Maximum | dB(A) | 33,0 | 33,0 | 33,0 | 34,0 | 35,0 | 37,0 | 37,0 |
| Refrigeration pipework | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 (1/4") | | | 9,52 | (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 | (3/8") | | 12,7 (1/2") | | 15,9 | (5/8") |
| Power supply | | | | | | | | |
| Indoor unit power supply | | | | | 220-240V ~ 50Hz | | | |
| Indoor unit | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

| | | MVA711C | MVA801C | MVA901C | MVA1001C | MVA1121C | MVA1251C | MVA1401C |
|--|-----------|---------|---------|---------|----------------------|----------|----------|----------|
| Nominal cooling performances | | | | | | | | |
| Cooling capacity (1) | kW | 7,10 | 8,00 | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 |
| Nominal heating performances | | | | | | | | |
| Heating capacity (2) | kW | 8,00 | 9,00 | 10,00 | 11,20 | 12,50 | 14,00 | 16,00 |
| Electric data | | | | | | | | |
| Rated power input (3) | W | 60 | 85 | 85 | 85 | 115 | 115 | 115 |
| Fan | | | | | | | | |
| Туре | type | | | | Inverter centrifugal | | | |
| Air flow rate | | | | | | | | |
| Minimum | m³/h | 850 | 900 | 900 | 900 | 1100 | 1100 | 1100 |
| Average | m³/h | 950 | 1000 | 1000 | 1000 | 1300 | 1300 | 1300 |
| Maximum | m³/h | 1150 | 1250 | 1250 | 1250 | 1650 | 1650 | 1650 |
| Sound power (4) | | | | | | | | |
| Minimum | dB(A) | 45,0 | 48,0 | 48,0 | 48,0 | 53,0 | 53,0 | 53,0 |
| Average | dB(A) | 48,0 | 51,0 | 51,0 | 51,0 | 55,0 | 55,0 | 55,0 |
| Maximum | dB(A) | 51,0 | 53,0 | 53,0 | 53,0 | 57,0 | 57,0 | 57,0 |
| Sound pressure (5) | | | | | | | | |
| Minimum | dB(A) | 31,0 | 34,0 | 34,0 | 34,0 | 39,0 | 39,0 | 39,0 |
| Average | dB(A) | 34,0 | 37,0 | 37,0 | 37,0 | 41,0 | 41,0 | 41,0 |
| Maximum | dB(A) | 37,0 | 39,0 | 39,0 | 39,0 | 43,0 | 43,0 | 43,0 |
| Refrigeration pipework | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | | 9,52 (3/8") | | | |
| Diameter of refrigerant gas connections | mm (inch) | | | | 15,9 (5/8") | | | |
| Power supply | | | | | | | | |
| Indoor unit power supply | | | | | 220-240V ~ 50Hz | | | |
| Indoor unit | | | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |
| | | | | | | | | |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
- (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_CB

| | | MVA1600CB |
|--|-----------|----------------------|
| Nominal cooling performances | | |
| Cooling capacity (1) | kW | 16,00 |
| Nominal heating performances | | |
| Heating capacity (2) | kW | 17,50 |
| Electric data | | |
| Rated power input (3) | W | 130 |
| Fan | | |
| Туре | type | Inverter centrifugal |
| Air flow rate | | |
| Minimum | m³/h | 1400 |
| Average | m³/h | 1700 |
| Maximum | m³/h | 2100 |
| Sound power (4) | | |
| Minimum | dB(A) | 52,0 |
| Average | dB(A) | 54,0 |
| Maximum | dB(A) | 57,0 |
| Sound pressure (5) | | |
| Minimum | dB(A) | 42,0 |
| Average | dB(A) | 44,0 |
| Maximum | dB(A) | 47,0 |
| Refrigeration pipework | | |
| Diameter of liquid refrigerant connections | mm (inch) | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 19,05 (3/4") |
| Power supply | | |
| Indoor unit power supply | | 220-240V ~ 50Hz |
| Indoor unit | | |
| Condensate discharge diameter | mm | 25,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_C1

| | | MVA220C1 | MVA280C1 | MVA360C1 | MVA450C1 | MVA500C1 |
|--|-----------|----------|-----------|---------------------|-------------|----------|
| Nominal cooling performances | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,00 |
| Nominal heating performances | | | | | | |
| Heating capacity (2) | kW | 2,50 | 3,20 | 4,00 | 5,00 | 5,60 |
| Electric data | | | | | | |
| Rated power input (3) | W | 30 | 30 | 30 | 30 | 30 |
| Fan | | | | | | |
| Туре | type | | | Inverter tangential | | |
| Air flow rate | | | | | | |
| Minimum | m³/h | 450 | 450 | 450 | 500 | 500 |
| Average | m³/h | 500 | 500 | 500 | 600 | 600 |
| Maximum | m³/h | 600 | 600 | 600 | 830 | 830 |
| Sound power (4) | | | | | | |
| Minimum | dB(A) | 38,0 | 38,0 | 38,0 | 40,0 | 40,0 |
| Average | dB(A) | 42,0 | 42,0 | 42,0 | 45,0 | 45,0 |
| Maximum | dB(A) | 46,0 | 46,0 | 46,0 | 50,0 | 50,0 |
| Sound pressure (5) | | | | | | |
| Minimum | dB(A) | 28,0 | 28,0 | 28,0 | 30,0 | 30,0 |
| Average | dB(A) | 32,0 | 32,0 | 32,0 | 35,0 | 35,0 |
| Maximum | dB(A) | 36,0 | 36,0 | 36,0 | 40,0 | 40,0 |
| Refrigeration pipework | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 (1/4") | | |
| Diameter of refrigerant gas connections | mm (inch) | 9, | 52 (3/8") | | 12,7 (1/2") | |
| Power supply | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | | |
| Indoor unit | | | | | | |
| Condensate discharge diameter | mm | 25,0 | 25,0 | 25,0 | 25,0 | 25,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.

 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

| MVA_F | | | | | | | | | | | |
|--|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | MVA281F | MVA361F | MVA501F | MVA561F | MVA631F | MVA711F | MVA901F | MVA1121F | MVA1251F | MVA1401F |
| Nominal cooling performances | ; | | | | | | | | | | |
| Cooling capacity (1) | kW | 2,80 | 3,60 | 5,00 | 5,60 | 6,30 | 7,10 | 9,00 | 11,20 | 12,50 | 14,00 |
| Nominal heating performances | s | | | | | | | | | | |
| Heating capacity (2) | kW | 3,20 | 4,00 | 5,60 | 6,30 | 7,10 | 8,00 | 10,00 | 12,50 | 14,00 | 16,00 |
| Electric data | | | | | | | | | | | |
| Rated power input (3) | W | 35 | 35 | 55 | 55 | 80 | 80 | 120 | 120 | 120 | 150 |
| Fan | | | | | | | | | | | |
| Туре | type | Inverter centrifugal |
| Air flow rate | | | | | | | | | | | |
| Minimum | m³/h | 450 | 450 | 600 | 600 | 1050 | 1050 | 1250 | 1400 | 1400 | 1600 |
| Average | m³/h | 500 | 500 | 650 | 650 | 1200 | 1200 | 1400 | 1600 | 1600 | 1750 |
| Maximum | m³/h | 600 | 600 | 750 | 750 | 1350 | 1350 | 1550 | 1800 | 1800 | 2000 |
| Sound power (4) | | | | | | | | | | | |
| Minimum | dB(A) | 45,0 | 45,0 | 48,0 | 48,0 | 54,0 | 54,0 | 54,0 | 54,0 | 54,0 | 55,0 |
| Average | dB(A) | 48,0 | 48,0 | 51,0 | 51,0 | 57,0 | 57,0 | 56,0 | 56,0 | 56,0 | 57,0 |
| Maximum | dB(A) | 52,0 | 52,0 | 54,0 | 54,0 | 60,0 | 60,0 | 59,0 | 59,0 | 59,0 | 61,0 |
| Sound pressure (5) | | | | | | | | | | | |
| Minimum | dB(A) | 29,0 | 29,0 | 36,0 | 36,0 | 38,0 | 38,0 | 41,0 | 42,0 | 42,0 | 43,0 |
| Average | dB(A) | 32,0 | 32,0 | 39,0 | 39,0 | 41,0 | 41,0 | 44,0 | 44,0 | 44,0 | 45,0 |
| Maximum | dB(A) | 36,0 | 36,0 | 42,0 | 42,0 | 44,0 | 44,0 | 47,0 | 47,0 | 47,0 | 49,0 |
| Refrigeration pipework | | | | | | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| Power supply | | | | | | | | | | | |
| Indoor unit power supply | | 220-240V ~ 50Hz |
| Power supply 60Hz | | | | | | | | | | | |
| Indoor unit power supply | | 208-230V ~ 60Hz |
| Indoor unit | | | | | | | | | | | |
| Condensate discharge diameter | mm | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 | 17,0 |

| | | MVA1601F |
|--------------------------------|------------|----------------------|
| Nominal cooling performances | 5 | |
| Cooling capacity (1) | kW | 16,00 |
| Nominal heating performance | S | |
| Heating capacity (2) | kW | 18,00 |
| Electric data | | |
| Rated power input (3) | W | 175 |
| Fan | | |
| Туре | type | Inverter centrifugal |
| Air flow rate | | |
| Minimum | m³/h | 1650 |
| Average | m³/h | 1850 |
| Maximum | m³/h | 2150 |
| Sound power (4) | | |
| Minimum | dB(A) | 57,0 |
| Average | dB(A) | 60,0 |
| Maximum | dB(A) | 64,0 |
| Sound pressure (5) | | |
| Minimum | dB(A) | 45,0 |
| Average | dB(A) | 48,0 |
| Maximum | dB(A) | 52,0 |
| Refrigeration pipework | | |
| Diameter of liquid refrigerant | mm (inch) | 9,52 (3/8") |
| connections | min (inch) | 7/32 (310) |
| Diameter of refrigerant gas | mm (inch) | 19,05 (3/4") |
| connections | min (inci) | (+70) 60(11 |
| Power supply | | |
| Indoor unit power supply | | 220-240V ~ 50Hz |
| Power supply 60Hz | | |
| Indoor unit power supply | | 208-230V ~ 60Hz |
| Indoor unit | | |
| Condensate discharge diameter | mm | 17,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA FS

| | | MVA220FS | MVA280FS | MVA360FS | MVA450FS | MVA500FS |
|--|-----------|----------|-----------|----------------------|-------------|----------|
| Nominal cooling performances | | | | | | |
| Cooling capacity (1) | kW | 2,20 | 2,80 | 3,60 | 4,50 | 5,00 |
| Nominal heating performances | | | | | | |
| Heating capacity (2) | kW | 2,50 | 3,20 | 4,00 | 5,00 | 5,50 |
| Electric data | | | | | | |
| Rated power input (3) | W | 15 | 15 | 20 | 40 | 40 |
| Fan | | | | | | |
| Туре | type | | | Inverter centrifugal | | |
| Air flow rate | | | | | | |
| Minimum | m³/h | 270 | 270 | 310 | 500 | 500 |
| Average | m³/h | 320 | 320 | 400 | 600 | 600 |
| Maximum | m³/h | 400 | 400 | 480 | 680 | 680 |
| Sound power (4) | | | | | | |
| Minimum | dB(A) | 37,0 | 37,0 | 42,0 | 49,0 | 49,0 |
| Average | dB(A) | 43,0 | 43,0 | 47,0 | 53,0 | 53,0 |
| Maximum | dB(A) | 48,0 | 48,0 | 50,0 | 56,0 | 56,0 |
| Sound pressure (5) | | | | | | |
| Minimum | dB(A) | 27,0 | 27,0 | 32,0 | 39,0 | 39,0 |
| Average | dB(A) | 33,0 | 33,0 | 37,0 | 43,0 | 43,0 |
| Maximum | dB(A) | 38,0 | 38,0 | 40,0 | 46,0 | 46,0 |
| Refrigeration pipework | | | | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | | 6,35 (1/4") | | |
| Diameter of refrigerant gas connections | mm (inch) | 9, | 52 (3/8") | | 12,7 (1/2") | |
| Power supply | | | | | | |
| Indoor unit power supply | | | | 220-240V ~ 50Hz | · | |
| Indoor unit | | | | | | |
| Condensate discharge diameter | mm | 17,2 | 17,2 | 17,2 | 17,2 | 17,2 |

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
(5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA_V

| | | MVA1000V | MVA1400V |
|--|-----------|----------|----------------------|
| Nominal cooling performances | | | |
| Cooling capacity (1) | kW | 10,00 | 14,00 |
| Nominal heating performances | | | |
| Heating capacity (2) | kW | 11,00 | 15,00 |
| Electric data | | | |
| Rated power input (3) | W | 200 | 200 |
| <u>Fan</u> | | | |
| Туре | type | | Inverter centrifugal |
| Air flow rate | | | |
| Minimum | m³/h | 1400 | 1400 |
| Average | m³/h | 1600 | 1600 |
| Maximum | m³/h | 1850 | 1850 |
| Sound power (4) | | | |
| Minimum | dB(A) | 56,0 | 56,0 |
| Average | dB(A) | 58,0 | 58,0 |
| Maximum | dB(A) | 60,0 | 60,0 |
| Sound pressure (5) | | | |
| Minimum | dB(A) | 46,0 | 46,0 |
| Average | dB(A) | 48,0 | 48,0 |
| Maximum | dB(A) | 50,0 | 50,0 |
| Refrigeration pipework | | | |
| Diameter of liquid refrigerant connections | mm (inch) | | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | | 15,9 (5/8") |
| Power supply | | | |
| Indoor unit power supply | | | 220-240V ~ 50Hz |
| Indoor unit | | | |
| Condensate discharge diameter | mm | 31,0 | 31,0 |

- (1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
 (2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
 (3) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
 (4) Sound power calculated in free field, in accordance with UNI EN ISO 3744.
 (5) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

MVA ERV

| | | MVA500ERV | MVA800ERV | MVA1000ERV |
|--|-----------------------|--------------------|--------------------|--------------------|
| Nominal cooling performances | | | | |
| Cooling capacity (1) | kW | 8,50 | 12,00 | 14,50 |
| Cooling capacity of finned pack heat exchanger (2) | kW | 3,60 | 6,30 | 8,00 |
| Nominal heating performances | | | | |
| Heating capacity (3) | kW | 4,00 | 10,60 | 12,00 |
| Heating capacity of finned pack heat exchanger | kW | 2,00 | 8,04 | 8,40 |
| Heat recovery unit | | | | |
| Unit type | | UVNR | UVNR | UVNR |
| Thermal efficiency (4) | % | 73 | 74 | 73 |
| Fans | | | | |
| Commissioning | type | Speed variator | Speed variator | Speed variator |
| SFP int | W/(m ³ /s) | 1099,57 | 1118,00 | 1059,20 |
| Nominal external pressure Δp (5) | Pa | 150 | 150 | 150 |
| Type of fan | Туре | Centrifugal | Centrifugal | Centrifugal |
| Nominal air flow rate | m³/h | 500 | 800 | 1000 |
| Sound data | | | | |
| Sound power level | dB(A) | 55,0 | 59,0 | 62,0 |
| General data | | | | |
| Rated power input | W | 270 | 440 | 640 |
| Diameter of liquid refrigerant connections | mm (inch) | 6,35 (1/4") | 9,52 (3/8") | 9,52 (3/8") |
| Diameter of refrigerant gas connections | mm (inch) | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") |
| Condensate discharge diameter | mm | 26,0 | 26,0 | 26,0 |
| Heat recovery unit | | | | |
| Power supply | | 220-240V ~ 50/60Hz | 220-240V ~ 50/60Hz | 220-240V ~ 50/60Hz |

- (1) Cooling: room air temperature 27 °C d.b. / 19.5 °C w.b.; outside air temperature 35 °C; turbo speed; cooling line length 5 m; indoor and outdoor units at the same height.

 (2) Use the finned pack heat exchanger power (cooling) to make the calculation and select the unit.

 (3) Heating: room air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; cooling line length 5 m; indoor and outdoor units at the same height.

 (4) Thermal efficiency complying with European regulation EU 1253/2014.

 (5) Performances referring to clean filters.

 The air flow rate is calculated on the basis of the nominal high static pressure at high fan speed. It may vary according to the real installation conditions.

 The nominal static pressure is the effective pressure value declared for a standard unit when it leaves the factory. The use of other filters may alter the unit performance values.

2-PIPE SYSTEM OUTDOOR UNIT PERFORMANCE DATA

| | | MVAS 1201S | MVAS 1201T | MVAS 1401S | MVAS 1401T | MVAS 1601S | MVAS 1601T | MVAS 2242T | MVAS 2802T | MVAS 3351T |
|----------------------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Nominal cooling perf | ormances | | | | | | | | | |
| Cooling capacity (1) | kW | 12,10 | 12,10 | 14,00 | 14,00 | 16,00 | 16,00 | 22,40 | 28,00 | 33,50 |
| Cooling input | kW | 3,03 | 3,03 | 3,59 | 3,59 | 4,75 | 4,75 | 6,12 | 7,78 | 9,57 |

| | | MVAS 1201S | MVAS 1201T | MVAS 1401S | MVAS 1401T | MVAS 1601S | MVAS 1601T | MVAS 2242T | MVAS 2802T | MVAS 3351T |
|---------------------------------|----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|
| Cooling input current | A | - | - | - | - | - | - | 10,9 | 13,9 | 17,1 |
| EER (2) | W/W | 3,99 | 3,99 | 3,90 | 3,90 | 3,37 | 3,37 | 3,66 | 3,60 | 3,50 |
| Nominal heating perfo | ormances | | | | | | | | | |
| Heating capacity (3) | kW | 14,00 | 14,00 | 16,50 | 16,50 | 18,00 | 18,00 | 24,00 | 30,00 | 35,00 |
| Heating input power (3) | kW | 3,27 | 3,27 | 3,95 | 3,95 | 4,65 | 4,65 | 4,90 | 6,12 | 7,14 |
| Heating input current | A | - | - | - | - | - | - | 8,8 | 10,9 | 12,8 |
| COP (2) | W/W | 4,28 | 4,28 | 4,18 | 4,18 | 3,87 | 3,87 | 4,90 | 4,90 | 4,90 |
| Fan | | | | | | | | | | |
| Туре | type | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial | Inverter axial |
| Number | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | | | | | | | | | | |
| Nominal | m³/h | 6000 | 6000 | 6300 | 6300 | 6600 | 6600 | 8000 | 11000 | 11000 |
| Sound pressure (4) | | | | | | | | | | |
| Nominal | dB(A) | 57,0 | 57,0 | 58,0 | 58,0 | 58,0 | 58,0 | 63,0 | 65,0 | 65,0 |
| Compressor | | | | | | | | | | |
| Туре | type | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter | Scroll inverter |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Refrigerant charge | kg | 3,3 | 3,3 | 3,3 | 3,3 | 3,3 | 3,3 | 5,5 | 7,1 | 80,0 |
| Electric data | | | | | | | | | | |
| Rated power input (5) | kW | - | - | - | - | - | - | 9,6 | 12,5 | 13,7 |
| Rated current input (5) | А | 30,4 | 11,1 | 33,7 | 12,0 | 36,3 | 12,5 | 17,2 | 22,4 | 24,5 |
| Refrigeration pipewor | k | | | | | | | | | |
| Maximum refrigerant tube length | m | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Power supply | | | | | | | | | | |
| Outdoor unit power supply | | 230V~50Hz (6) | 400V~3N~50Hz (7) | 230V~50Hz (6) | 400V~3N~50Hz (7) | 230V~50Hz (6) | 400V~3N~50Hz (7) | 400V~3N~50Hz (7) | 400V~3N~50Hz (7) | 400V~3N~50Hz (7) |

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.

(2) EER/COP in accordance with the Standard (EN 14511), only declared for the purposes of the tax deductions in force at the time of this publication.

(3) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.

(4) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.

(5) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.

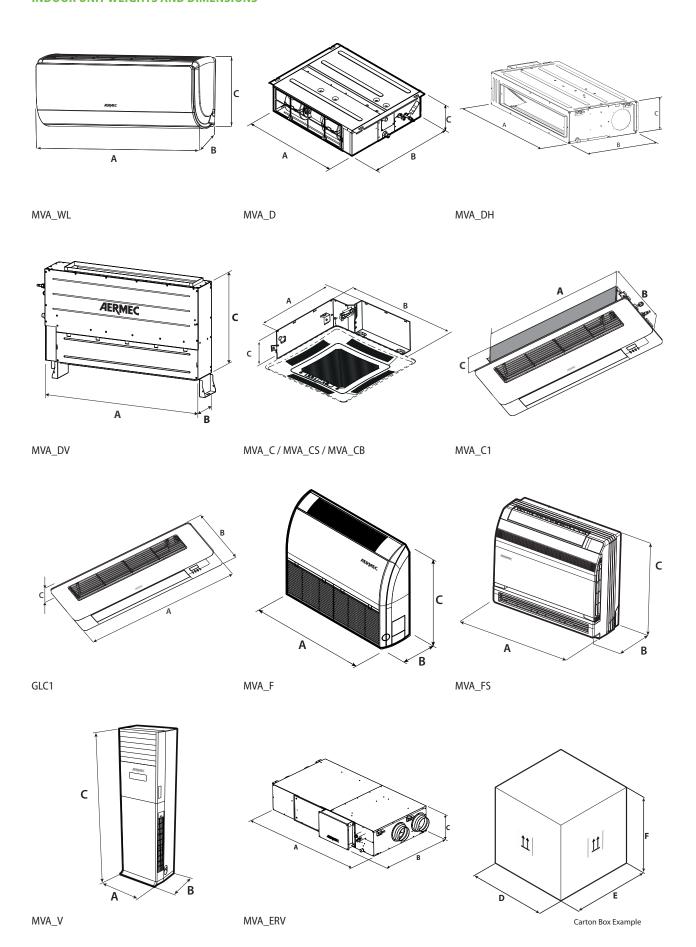
(6) 220-240V ~ 50Hz

(7) 380-415V ~ 3N ~ 50Hz

| | | MVBM 2240T | MVBM 2800T | MVBM 3350T | MVBM 4000T | MVBM 4500T | MVBM 5040T | MVBM 5600T | MVBM 6150T |
|---|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Nominal cooling performances | | | | | | | | | |
| Cooling capacity (1) | kW | 22,40 | 28,00 | 33,50 | 40,00 | 45,00 | 50,40 | 52,00 | 52,00 |
| Nominal heating performances | | | | | | | | | |
| Heating capacity (2) | kW | 22,40 | 28,00 | 33,50 | 40,00 | 45,00 | 50,40 | 56,00 | 56,00 |
| Fan | | | | | | | | | |
| Туре | type | Inverter axial |
| Number | no. | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Air flow rate | | | | | | | | | |
| Nominal | m³/h | 9750 | 10500 | 11100 | 13500 | 15400 | 16000 | 16500 | 16500 |
| Sound pressure (3) | | | | | | | | | |
| Nominal | dB(A) | 56,0 | 57,0 | 59,0 | 59,0 | 60,0 | 61,0 | 62,0 | 63,0 |
| Compressor | | | | | | | | | |
| Туре | type | Scroll inverter |
| Number | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Refrigerant | type | R410A |
| Refrigerant charge | kg | 5,5 | 5,5 | 7,5 | 7,5 | 7,5 | 8,3 | 8,3 | 8,3 |
| Electric data | | | | | | | | | |
| Rated power input (4) | kW | - | - | - | - | - | - | - | - |
| Rated current input (4) | Α | 23,0 | 23,5 | 24,1 | 37,5 | 39,3 | 47,0 | 48,0 | 49,0 |
| Refrigeration pipework | | | | | | | | | |
| Type refrigerant connections | Туре | To be soldered |
| Diameter of liquid refrigerant | mm (inch) | 9,52 (3/8") | 9,52 (3/8") | 12,7 (1/2") | 12,7 (1/2") | 12,7 (1/2") | 15,9 (5/8") | 15,9 (5/8") | 15,9 (5/8") |
| connections | IIIII (IIICII) | 7,32 (3/0) | 3,32 (3/0) | 12,7 (1/2) | 12,7 (1/2) | 12,7 (1/2) | (0/0) 4,01 | (0/0) 5,01 | (6/८) کردا |
| Diameter of refrigerant gas connections | mm (inch) | 19,05 (3/4") | 22,2 (7/8") | 25,4 (1") | 25,4 (1") | 28,6 (1"1/8) | 28,6 (1" 1/8) | 28,6 (1" 1/8) | 28,6 (1" 1/8) |
| Maximum refrigerant tube length | m | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Power supply | | | | | | | | | |
| Outdoor unit power supply | | 400V~3N~50Hz (5) |

(1) Cooling (EN 14511 and EN 14825) ambient air temperature 27 °C d.b. / 19 °C w.b.; outside air temperature 35 °C; turbo speed; length of refrigerant lines 5 m.
(2) Heating (EN 14511 and EN 14825) ambient air temperature 20 °C d.b.; outside air temperature 7 °C d.b. / 6 °C w.b.; turbo speed; length of refrigerant lines 5 m.
(3) Sound pressure measured in semi anechoic chamber at a distance of 1,5 m from the source.
(4) The rated power input (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN 60335-1 and EN 60335-2-40.
(5) 380-415V~3N~50Hz

INDOOR UNIT WEIGHTS AND DIMENSIONS



MVA_WL

| | | MVA220WL | MVA280WL | MVA360WL | MVA450WL | MVA500WL | MVA560WL | MVA630WL | MVA710WL |
|----------------------|----|----------|----------|----------|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 845 | 845 | 845 | 970 | 970 | 1078 | 1078 | 1078 |
| В | mm | 209 | 209 | 209 | 224 | 224 | 246 | 246 | 246 |
| C | mm | 289 | 289 | 289 | 300 | 300 | 325 | 325 | 325 |
| D | mm | 976 | 976 | 976 | 1096 | 1096 | 1203 | 1203 | 1203 |
| E | mm | 281 | 281 | 281 | 320 | 320 | 350 | 350 | 350 |
| F | mm | 379 | 379 | 379 | 383 | 383 | 413 | 413 | 413 |
| Net weight | kg | 11,00 | 11,00 | 11,00 | 13,00 | 13,00 | 16,00 | 16,00 | 16,00 |
| Weight for transport | kg | 13,00 | 13,00 | 13,00 | 16,00 | 16,00 | 19,00 | 19,00 | 19,00 |

MVA_D

| | | MVA221D | MVA251D | MVA281D | MVA321D | MVA361D | MVA401D | MVA451D | MVA501D | MVA561D |
|----------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Indoor unit | | | | | | | | | | |
| A | mm | 710 | 710 | 710 | 710 | 710 | 1010 | 1010 | 1010 | 1010 |
| В | mm | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 | 462 |
| С | mm | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| D | mm | 1008 | 1008 | 1008 | 1008 | 1008 | 1308 | 1308 | 1308 | 1308 |
| E | mm | 568 | 568 | 568 | 568 | 568 | 568 | 568 | 568 | 568 |
| F | mm | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 275 | 275 |
| Net weight | kg | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 | 25,00 | 25,00 | 25,00 | 25,00 |
| Weight for transport | kg | 24,00 | 24,00 | 24,00 | 24,00 | 24,00 | 31,00 | 31,00 | 31,00 | 31,00 |

| | | MVA631D | MVA711D | MVA801D | MVA901D | MVA1001D | MVA1121D | MVA1251D | MVA1401D |
|----------------------|----|---------|---------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | |
| A | mm | 1010 | 1310 | 1200 | 1340 | 1340 | 1340 | 1340 | 1340 |
| В | mm | 462 | 462 | 655 | 655 | 655 | 655 | 655 | 655 |
| C | mm | 200 | 200 | 260 | 260 | 260 | 260 | 260 | 260 |
| D | mm | 1308 | 1608 | 1448 | 1588 | 1588 | 1588 | 1588 | 1588 |
| E | mm | 568 | 568 | 858 | 858 | 858 | 858 | 858 | 858 |
| F | mm | 275 | 275 | 315 | 315 | 315 | 315 | 315 | 315 |
| Net weight | kg | 25,00 | 31,00 | 39,00 | 46,00 | 46,00 | 46,00 | 47,00 | 47,00 |
| Weight for transport | kg | 31,00 | 38,00 | 48,00 | 55,00 | 55,00 | 55,00 | 56,00 | 56,00 |

MVA_DH

| | | MVA221DH | MVA251DH | MVA281DH | MVA321DH | MVA361DH | MVA401DH |
|----------------------|----|----------|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | | |
| A | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| В | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| C | mm | 300 | 300 | 300 | 300 | 300 | 300 |
| D | mm | 897 | 897 | 897 | 897 | 897 | 897 |
| E | mm | 808 | 808 | 808 | 808 | 808 | 808 |
| F | mm | 362 | 362 | 362 | 362 | 362 | 362 |
| Net weight | kg | 32,00 | 32,00 | 32,00 | 32,00 | 32,00 | 34,00 |
| Weight for transport | kg | 38,00 | 38,00 | 38,00 | 38,00 | 38,00 | 40,00 |
| | 1 | MVA4E1DU | MVACA1DU | MVAC41DU | MVACOIDU | MVA711DU | MVA0A1DU |

| | | MVA451DH | MVA501DH | MVA561DH | MVA631DH | MVA711DH | MVA801DH |
|----------------------|----|----------|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | | |
| A | mm | 700 | 700 | 1000 | 1000 | 1000 | 1000 |
| В | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| C | mm | 300 | 300 | 300 | 300 | 300 | 300 |
| D | mm | 897 | 897 | 1205 | 1205 | 1205 | 1205 |
| E | mm | 808 | 808 | 813 | 813 | 813 | 813 |
| F | mm | 362 | 362 | 360 | 360 | 360 | 360 |
| Net weight | kg | 34,00 | 34,00 | 43,00 | 43,00 | 43,00 | 43,00 |
| Weight for transport | kg | 40,00 | 40,00 | 49,00 | 49,00 | 49,00 | 49,00 |

| | | MVA901DH | MVA1001DH | MVA1121DH | MVA1251DH | MVA1401DH | MVA1601DH |
|----------------------|----|----------|-----------|-----------|-----------|-----------|-----------|
| Indoor unit | | | | | | | |
| A | mm | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| В | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| C | mm | 300 | 300 | 300 | 300 | 300 | 300 |
| D | mm | 1601 | 1601 | 1601 | 1601 | 1678 | 1678 |
| E | mm | 813 | 813 | 813 | 813 | 808 | 808 |
| F | mm | 365 | 365 | 365 | 365 | 365 | 365 |
| Net weight | kg | 57,00 | 57,00 | 57,00 | 57,00 | 57,00 | 57,00 |
| Weight for transport | kg | 64,00 | 64,00 | 64,00 | 64,00 | 67,00 | 67,00 |

| | | MVA2240DH | MVA2800DH |
|----------------------|----|-----------|-----------|
| Indoor unit | | | |
| A | mm | 1483 | 1686 |
| В | mm | 791 | 870 |
| С | mm | 385 | 450 |
| D | mm | 1758 | 1788 |
| E | mm | 883 | 988 |
| F | mm | 470 | 580 |
| Net weight | kg | 82,00 | 105,00 |
| Weight for transport | kg | 104,00 | 140,00 |

MVA_DV

| | | MVA220DV | MVA280DV | MVA360DV | MVA450DV | MVA560DV | MVA630DV | MVA710DV |
|----------------------|----|----------|----------|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | |
| A | mm | 700 | 700 | 700 | 900 | 1100 | 1100 | 1100 |
| В | mm | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| C | mm | 615 | 615 | 615 | 615 | 615 | 615 | 615 |
| D | mm | 893 | 893 | 893 | 1123 | 1323 | 1323 | 1323 |
| E | mm | 305 | 305 | 305 | 305 | 305 | 305 | 305 |
| F | mm | 743 | 743 | 743 | 743 | 743 | 743 | 743 |
| Net weight | kg | 23,00 | 23,00 | 23,00 | 27,00 | 32,00 | 32,00 | 32,00 |
| Weight for transport | kg | 30,00 | 30,00 | 30,00 | 36,00 | 41,00 | 41,00 | 41,00 |

MVA_CS

| | | MVA151CS | MVA181CS | MVA221CS | MVA281CS | MVA361CS | MVA451CS | MVA501CS | MVA561CS |
|----------------------|----|----------|----------|----------|----------|----------|----------|----------|----------|
| Indoor unit | · | | | | | | | | |
| A | mm | 570 | 570 | 570 | 570 | 570 | 570 | 570 | 570 |
| В | mm | 570 | 570 | 570 | 570 | 570 | 570 | 570 | 570 |
| С | mm | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 |
| D | mm | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 |
| E | mm | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 |
| F | mm | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 |
| Net weight | kg | 18,00 | 18,00 | 18,00 | 18,00 | 18,00 | 18,00 | 18,00 | 18,00 |
| Weight for transport | kg | 23,00 | 23,00 | 23,00 | 23,00 | 23,00 | 23,00 | 23,00 | 23,00 |

MVA_C

| | | MVA221C | MVA281C | MVA361C | MVA451C | MVA501C | MVA561C | MVA631C |
|----------------------|----|---------|---------|---------|---------|---------|---------|---------|
| Indoor unit | | | | | | | | |
| A | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| В | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| C | mm | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| D | mm | 963 | 963 | 963 | 963 | 963 | 963 | 963 |
| E | mm | 963 | 963 | 963 | 963 | 963 | 963 | 963 |
| F | mm | 325 | 325 | 325 | 325 | 325 | 325 | 325 |
| Net weight | kg | 27,00 | 27,00 | 27,00 | 27,00 | 28,00 | 28,00 | 28,00 |
| Weight for transport | kg | 35,00 | 35,00 | 35,00 | 35,00 | 36,00 | 36,00 | 36,00 |

| | | MVA711C | MVA801C | MVA901C | MVA1001C | MVA1121C | MVA1251C | MVA1401C |
|----------------------|----|---------|---------|---------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | |
| A | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| В | mm | 840 | 840 | 840 | 840 | 840 | 840 | 840 |
| C | mm | 240 | 240 | 240 | 240 | 290 | 290 | 290 |
| D | mm | 963 | 963 | 963 | 963 | 963 | 963 | 963 |
| E | mm | 963 | 963 | 963 | 963 | 963 | 963 | 963 |
| F | mm | 325 | 325 | 325 | 325 | 375 | 375 | 375 |
| Net weight | kg | 28,00 | 29,00 | 29,00 | 29,00 | 33,00 | 33,00 | 33,00 |
| Weight for transport | kg | 36,00 | 37,00 | 37,00 | 37,00 | 42,00 | 42,00 | 42,00 |

MVA_CB

| | | MVA1600CB | |
|----------------------|----|-----------|--|
| Indoor unit | , | | |
| A | mm | 910 | |
| В | mm | 910 | |
| (| mm | 290 | |
| D | mm | 1023 | |
| E | mm | 993 | |
| F | mm | 375 | |
| Net weight | kg | 47,00 | |
| Weight for transport | kg | 57,00 | |

MVA_C1

| | | MVA220C1 | MVA280C1 | MVA360C1 | MVA450C1 | MVA500C1 |
|----------------------|----|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | |
| A | mm | 987 | 987 | 987 | 987 | 987 |
| В | mm | 385 | 385 | 385 | 385 | 385 |
| C | mm | 178 | 178 | 178 | 178 | 178 |
| D | mm | 1307 | 1307 | 1307 | 1307 | 1307 |
| E | mm | 501 | 501 | 501 | 501 | 501 |
| F | mm | 310 | 310 | 310 | 310 | 310 |
| Net weight | kg | 20,00 | 20,00 | 20,00 | 21,00 | 21,00 |
| Weight for transport | kg | 27,00 | 27,00 | 27,00 | 29,00 | 29,00 |

MVA_F

| | | MVA280F | MVA281F | MVA360F | MVA361F | MVA500F | MVA501F | MVA561F | MVA630F | MVA631F | MVA710F |
|----------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Indoor unit | | | | | | | | | | | |
| A | mm | 1220 | 870 | 1220 | 870 | 1220 | 870 | 870 | 1420 | 1200 | 1420 |
| В | mm | 225 | 235 | 225 | 235 | 225 | 235 | 235 | 245 | 235 | 245 |
| C | mm | 700 | 665 | 700 | 665 | 700 | 665 | 665 | 700 | 665 | 700 |
| D | mm | 1343 | 973 | 1343 | 973 | 1343 | 973 | 973 | 1548 | 1303 | 1548 |
| E | mm | 315 | 300 | 315 | 300 | 315 | 300 | 300 | 345 | 300 | 345 |
| F | mm | 823 | 770 | 823 | 770 | 823 | 770 | 770 | 828 | 770 | 828 |
| Net weight | kg | 40,00 | 24,00 | 40,00 | 24,00 | 40,00 | 25,00 | 25,00 | 50,00 | 32,00 | 50,00 |
| Weight for transport | kg | 49,00 | 29,00 | 49,00 | 29,00 | 49,00 | 30,00 | 30,00 | 58,00 | 38,00 | 58,00 |
| | | | | | | | | | | | |

| | MVA711F | MVA900F | MVA901F | MVA1120F | MVA1121F | MVA1250F | MVA1251F | MVA1400F | MVA1401F | MVA1601F |
|-------------------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | | | | | |
| A mm | 1200 | 1420 | 1200 | 1700 | 1570 | 1700 | 1570 | 1700 | 1570 | 1570 |
| B mm | 235 | 245 | 235 | 245 | 235 | 245 | 235 | 245 | 235 | 235 |
| C mm | 665 | 700 | 665 | 700 | 665 | 700 | 665 | 700 | 665 | 665 |
| D mm | 1303 | 1548 | 1303 | 1828 | 1669 | 1828 | 1669 | 1828 | 1669 | 1669 |
| E mm | 300 | 345 | 300 | 345 | 300 | 345 | 300 | 345 | 300 | 300 |
| F mm | 770 | 828 | 770 | 828 | 770 | 828 | 770 | 828 | 770 | 770 |
| Net weight kg | 32,00 | 50,00 | 33,00 | 60,00 | 41,00 | 60,00 | 41,00 | 60,00 | 43,00 | 43,00 |
| Weight for transport kg | 38,00 | 58,00 | 39,00 | 68,00 | 48,00 | 68,00 | 48,00 | 68,00 | 50,00 | 50,00 |

MVA_FS

| | | MVA220FS | MVA280FS | MVA360FS | MVA450FS | MVA500FS |
|----------------------|----|----------|----------|----------|----------|----------|
| Indoor unit | | | | | | |
| A | mm | 700 | 700 | 700 | 700 | 700 |
| В | mm | 215 | 215 | 215 | 215 | 215 |
| C | mm | 600 | 600 | 600 | 600 | 600 |
| D | mm | 780 | 780 | 780 | 780 | 780 |
| E | mm | 285 | 285 | 285 | 285 | 285 |
| F | mm | 682 | 682 | 682 | 682 | 682 |
| Net weight | kg | 16,00 | 16,00 | 16,00 | 16,00 | 16,00 |
| Weight for transport | kg | 19,00 | 19,00 | 19,00 | 19,00 | 19,00 |

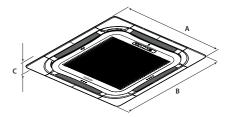
$\mathbf{MVA}_{-}\mathbf{V}$

| | | MVA1000V | MVA1400V |
|----------------------|----|----------|----------|
| Indoor unit | | | |
| A | mm | 580 | 580 |
| В | mm | 400 | 400 |
| C | mm | 1870 | 1870 |
| D | mm | 738 | 738 |
| E | mm | 545 | 545 |
| F | mm | 2083 | 2083 |
| Net weight | kg | 54,00 | 57,00 |
| Weight for transport | kg | 74,00 | 77,00 |

MVA_ERV

| | | MVA500ERV | MVA800ERV | MVA1000ERV |
|------------------------|----|-----------|-----------|------------|
| Dimensions and weights | | | | |
| A | mm | 1700 | 1800 | 1800 |
| В | mm | 880 | 1185 | 1185 |
| C | mm | 340 | 390 | 390 |
| D | mm | 1988 | 2110 | 2110 |
| E | mm | 1138 | 1440 | 1440 |
| F | mm | 535 | 567 | 567 |
| Net weight | kg | 120,00 | 158,00 | 158,00 |
| Weight for transport | kg | 175,00 | 225,00 | 225,00 |

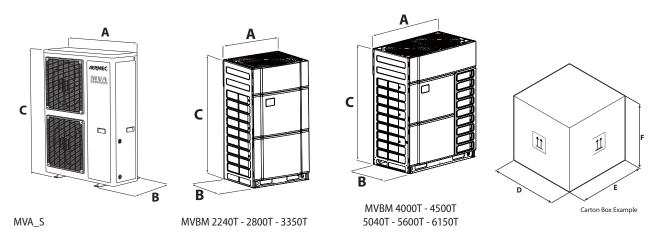
GLC1 / GL40B / GLG40S / GLG40



GLG40S / GLG40 / GL40B

| | | GLC1 | GLG40S | GLG40 | GL40B |
|----------------------|----|------|--------|-------|-------|
| Indoor unit | | | | | |
| A | mm | 1200 | 620 | 950 | 1040 |
| В | mm | 460 | 620 | 950 | 1040 |
| C | mm | 55 | 48 | 52 | 65 |
| D | mm | 1265 | 701 | 1033 | 1137 |
| E | mm | 536 | 701 | 1038 | 1137 |
| F | mm | 118 | 125 | 112 | 140 |
| Net weight | kg | 4,00 | 3,00 | 6,00 | 8,00 |
| Weight for transport | kg | 6,00 | 5,00 | 10,00 | 12,00 |

OUTDOOR UNIT WEIGHTS AND DIMENSIONS



MVA S

| | | MVAS 1201S | MVAS 1201T | MVAS 1401S | MVAS 1401T | MVAS 1601S | MVAS 1601T | MVAS 2242T | MVAS 2802T | MVAS 3351T |
|----------------------|----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Outdoor unit | | | | | | | | | | |
| A | mm | 900 | 900 | 900 | 900 | 900 | 900 | 940 | 940 | 940 |
| В | mm | 340 | 340 | 340 | 340 | 340 | 340 | 320 | 460 | 460 |
| C | mm | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1430 | 1615 | 1615 |
| D | mm | 1408 | 1048 | 1408 | 1048 | 1408 | 1048 | 1038 | 1038 | 1038 |
| E | mm | 458 | 458 | 458 | 458 | 458 | 458 | 438 | 578 | 578 |
| F | mm | 1507 | 1507 | 1507 | 1507 | 1507 | 1507 | 1580 | 1765 | 1765 |
| Net weight | kg | 110,00 | 120,00 | 110,00 | 120,00 | 110,00 | 120,00 | 133,00 | 166,00 | 177,00 |
| Weight for transport | kg | 123,00 | 133,00 | 123,00 | 133,00 | 123,00 | 133,00 | 144,00 | 183,00 | 194,00 |

MVB_M

| | | MVBM 2240T | MVBM 2800T | MVBM 3350T | MVBM 4000T | MVBM 4500T | MVBM 5040T | MVBM 5600T | MVBM 6150T |
|----------------------|----|------------|------------|------------|------------|------------|------------|------------|------------|
| Outdoor unit | | | | | | | | | |
| A | mm | 930 | 930 | 930 | 1340 | 1340 | 1340 | 1340 | 1340 |
| В | mm | 775 | 775 | 775 | 775 | 775 | 775 | 775 | 775 |
| C | mm | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 |
| D | mm | 1000 | 1000 | 1000 | 1400 | 1400 | 1400 | 1400 | 1400 |
| E | mm | 830 | 830 | 830 | 830 | 830 | 830 | 830 | 830 |
| F | mm | 1855 | 1855 | 1855 | 1855 | 1855 | 1855 | 1855 | 1855 |
| Net weight | kg | 220,00 | 220,00 | 240,00 | 300,00 | 300,00 | 350,00 | 350,00 | 355,00 |
| Weight for transport | kg | 230,00 | 230,00 | 250,00 | 315,00 | 315,00 | 365,00 | 365,00 | 370,00 |

Aermec si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto con eventuale modifica dei relativi dati tecnici.

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| ermec also offers | LEMEN [®] s a range of specific nstallation under pa | solutions that mee | t a whole host of a | uirements, as well as |
|-------------------|---|--------------------|---------------------|-----------------------|
| | | | | |
| | | | | |
| | | | | |

A th

| | COMPLEMENTA | ARY PRODUCTS | Air flow rate (m³/h) | Cool. Cap. (kW) | Heat. Cap. (kW) | Page |
|-----|-----------------------------|--|-------------------------|--------------------|--------------------|------|
| | Sistemi e kit solari A.C.S. | | | | | |
| new | GSA - KSA - CXS | DHW Systems and solar kits | | | | 930 |
| | Thermal Buffers tank | | | | | |
| | SAF | Thermal Buffer tank kit with instantaneous Domestic Hot Water production | | | | 934 |
| | SAP | Buffer tank with capacity from 75 to 3500 litres | | | | 936 |
| | Plug&Play hydronic kit | | | | | |
| | WST evo | Hydronic kit plug & play | | 80-1500 | | 939 |
| | Cooling towers | | | | | |
| | TRA | Cooling towers | | | | 942 |
| | Remote condensers - Dry | coolers | | | | |
| | CSE | Remote condensers | | 3-650 | | 944 |
| | CVR | Remote condensers | | 44-500 | | 946 |
| | CDR | Remote condensers | | 150-590 | | 948 |
| | CGA | Remote condensers | | 240-1500 | | 950 |
| | CMV | Remote condensers | | 140-1200 | | 952 |
| | WTE | Dry cooler | | 3-500 | | 954 |
| | WTR | Dry cooler | | 56-350 | | 956 |
| | WDR | Dry cooler | | 90-430 | | 958 |
| | WGA | Dry cooler | | 180-1100 | | 960 |
| | WMV | Dry cooler | | 100-950 | | 962 |
| | Water cooled condensing | unit | | | | |
| | MEC-W | Water-cooled packaged air conditioners | | 11-55 | | 964 |
| | FW-R | Water-cooled air conditioner | | 2,9-4,0 | 4,3-5,2 | 966 |
| | CWX-CWXM | Water motocondensing unit | | 2,7-7,1 | | 968 |
| | Dehumidifier | | | | | |
| | DML | Dehumidifier portable | | | | 972 |
| | DMH -DMV | Dehumidifier | | | | 975 |









DHW SYSTEMS AND SOLAR KITS



- Solar systems complete with storage tank for combination with a heat pump
- Solar kits without storage tank for combination with third-party storage tanks
- Ultra-high efficiency vacuum solar manifolds
- Optional anti-stagnation shading device

Thermal Buffer tank kit with instantaneous Domestic Hot Water production



DESCRIPTION

The Aermec GSA °-E series solar systems for domestic hot water are designed for easy interaction with heat pump systems and contain vacuum solar manifolds, a solar station equipped with a high efficiency electronic circulator, solar control unit and double coil storage tank.

The additional coil for the supplementary source is dimensioned with a larger exchange surface and is suitable for combination with heat pumps.

The Aermec GSA °-E series solar systems include ultra-high efficiency vacuum manifolds, which can be equipped with an optional anti-stagnation shading system. The solar manifolds are dimensioned based on the capacities of the storage tanks (300 litres or 500 litres) in order to guarantee a high share of renewable energy for the production of DHW and to optimise the system from an economic point of view.

Solar kits with the same dimensions of the complete systems but in a version without a storage tank are also available in order to combine them with third-party storage tanks (the suitability of the storage tanks must be checked by the designer in this case).

The complete systems and the kits without a storage tank must be completed with the necessary roof manifold clampings, which are available as accessories for the various types of roofs (pitched roof with shingles, with tiles, universal with screw connection and flat roof).

VERSIONS

The vacuum solar manifolds are also available individually, in two sizes with 15 pipes and 21 pipes. Each size is available in the standard $^\circ$ version and in the E version with the anti-stagnation shading device.

GSA complete solar system

The GSA °-E complete solar systems are available in two sizes - 300 litres combined with a 21-pipe solar manifold and 500 litres combined with two solar manifolds, each with 15 pipes. Each size is available in the ° version (standard) and in the E version (with the anti-stagnation shading system).

The system is shipped in two separate packages:

 Neck 1: manifold(s) + fittings + glycol tank + collector support rail(s), expansion vessel.

| Field | Description |
|-------|--|
| 1,2,3 | GSA |
| 4,5,6 | Size 300, 500 |
| 7 | Version |
| 0 | Vacuum solar manifolds |
| Е | Complete solar system with vacuum collector with anti-stagnation |

Neck 2: storage with control unit and integrated solar station

| Field | Description |
|-------|--------------------|
| 1,2,3 | GSA |
| 4,5,6 | Size 300,500 |
| 7 | Version |
| A | Storage tank (DHW) |

Solar kits without storage tank

The KSA solar kits are available in two sizes (size with a single 21-pipe manifold and size with two manifolds, each with 15 pipes). Each size is available in the standard ° version and in the E version with the anti-stagnation shading device.

"the system supply includes the necessary glycol mixture, which is supplied in canisters, to be filled by the installer"

| Juppii | supplied in cullisters, to be fined by the historici | | | | | |
|--------|--|--|--|--|--|--|
| Field | Description | | | | | |
| 1,2,3 | KSA | | | | | |
| 4,5 | Size 21, 30 | | | | | |
| 6 | Version | | | | | |
| 0 | Solar kit with vacuum collector | | | | | |
| E | Complete solar kit with vacuum collector with anti-stagnation darkening device | | | | | |

Vacuum solar manifolds

The vacuum solar manifolds are also available individually, in two sizes with 15 pipes and 21 pipes. Each size is available in the standard $^\circ$ version and in the E version with the anti-stagnation shading device.

| Field | Description |
|-------|---|
| 1,2,3 | CXS |
| 4,5 | Size 15, 21 |
| 6 | Version |
| 0 | Vacuum solar manifolds |
| E | Complete vacuum solar collector with anti-stagnation shading device |

ACCESSORIES

STT: Clamping for vacuum manifold (with or without Eclypse) on a pitched roof with shingles.

STC: Clamping for vacuum manifold (with or without Eclypse) on a pitched roof with tiles.

STV: Clamping for vacuum manifold (with or without Eclypse) on a pitched roof with screw connection.

STP: Clamping for vacuum manifold (with or without Eclypse) on a flat roof.

KSB-KSP-CSB-CSP: Basic set + cover.

MIX10 - MIX20: 20 liter tank of pre-mixed antifreeze solution for topping up and/or filling solar systems with vacuum collectors

ACCESSORIES COMPATIBILITY

Clampina for a pitched roof with shinales

| Accessory | GSA300° | GSA300E | GSA500° | GSA500E |
|-----------|---------|---------|---------|---------|
| STT (x1) | • | • | | |
| STT (x2) | | | • | • |
| Accessory | KSA21° | KSA21E | KSA30° | KSA30E |
| STT (x1) | • | • | | |
| STT (x2) | | | • | • |
| Accessory | CXS15° | CXS15E | CXS21° | CXS21E |
| STT (x1) | • | • | | |
| STT (x2) | | | • | • |

X _ indicates the quantity to buy

Clamping for a manifold on a pitched roof with tiles

| Ciamping for a mannor | a on a pitchea root with thes | | | |
|-----------------------|-------------------------------|---------|---------|---------|
| Accessory | GSA300° | GSA300E | GSA500° | GSA500E |
| STC (x1) | • | • | | |
| STC (x2) | | | • | • |
| Accessory | KSA21° | KSA21E | KSA30° | KSA30E |
| STC (x1) | • | • | | |
| STC (x2) | | | • | • |
| Accessory | CXS15° | CXS15E | CXS21° | CXS21E |
| STC (x1) | • | • | | |
| STC (x2) | | | • | • |

X _ indicates the quantity to buy

Clamping for a manifold on a pitched roof with screw connection

| Accessory | GSA300° | GSA300E | GSA500° | GSA500E |
|-----------|---------|---------|---------|---------|
| STV (x1) | • | • | | |
| STV (x2) | | | • | • |
| Accessory | KSA21° | KSA21E | KSA30° | KSA30E |
| STV (x1) | • | • | | |
| STV (x2) | | | • | • |
| Accessory | CXS15° | CXS15E | CXS21° | CXS21E |
| STV (x1) | • | • | | |
| STV (x2) | | | | • |

${\tt X_indicates}$ the quantity to buy

Clamping for a manifold on a flat roof

| Accessory | GSA300° | GSA300E | GSA500° | GSA500E |
|-----------|---------|---------|---------|---------|
| STP (x1) | • | • | | |
| STP (x2) | | | • | • |
| Accessory | KSA21° | KSA21E | KSA30° | KSA30E |
| STP (x1) | • | • | | |
| STP (x2) | | | • | • |
| Accessory | CXS15° | CXS15E | CXS21° | CXS21E |
| STP (x1) | • | • | | |
| STP (x2) | | | • | • |

X _ indicates the quantity to buy

Basic set (for panel string termination) and plus set (for the connection of two solar panels)

| busic see (101 puner serin | busic set (10) panel string termination, and plus set (10) the connection of the solar panels, | | | | | |
|----------------------------|--|--------|--------|--------|--|--|
| Accessory | CXS15° | CXS15E | CXS21° | CXS21E | | |
| CSB | • | • | • | • | | |
| CSP | • | • | • | • | | |
| KSB | • | • | • | • | | |
| KSP | • | • | • | • | | |

The accessories are compatible with the solar manifolds, but are not compatible with the GSA solar systems or with the KSA solar kits because they are already included.

Pre-mixed antifreeze solution canister

| Accessory | CXS15° | CXS15E | CXS21° | CXS21E |
|-----------|--------|--------|--------|--------|
| MIX10 | • | • | • | • |
| MIX20 | | | | • |

PERFORMANCE SPECIFICATIONS

GSA complete solar system

| | | GSA300° | GSA300E | GSA500° | GSA500E |
|---|----------------|------------|------------|------------|------------|
| Technical features | | | | | |
| Solar manifolds | no./type | 1 x CXS21° | 1 x CXS21E | 2 x CXS15° | 2 x CXS15E |
| Gross surface | m ² | 4,45 | 4,45 | 6,36 | 6,36 |
| Opening surface | m ² | 4,02 | 4,02 | 5,74 | 5,74 |
| Input current surface | m ² | 5,39 | 5,39 | 7,70 | 7,70 |
| Hydraulic components | | | | | |
| Storage tank (DHW) | I | 300 | 300 | 500 | 500 |
| Expansion vessel number | no. | 1 | 1 | 1 | 1 |
| Expansion vessel capacity | I | 24 | 24 | 40 | 40 |
| Recommended dimension based on the number of people | no. | 3-5 | 3-5 | 5-7 | 5-7 |

| | | GSA300A | GSA500A |
|---|-----|---------|---------|
| Hydraulic components | | | |
| Storage tank (DHW) | | 300 | 500 |
| Recommended dimension based on the number of people | no. | 3-5 | 5-7 |

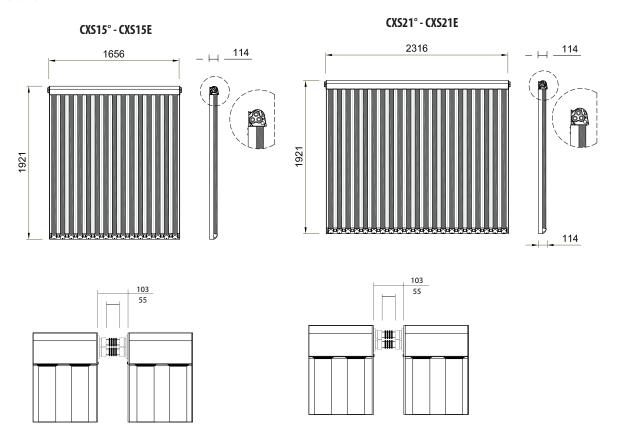
KSA solar system

| | | KSA21° | KSA21E | KSA30° | KSA30E |
|---------------------------|----------------|------------|------------|------------|------------|
| Technical features | | | | | |
| Solar manifolds | no./type | 1 x CXS21° | 1 x CXS21E | 2 x CXS15° | 2 x CXS15E |
| Gross surface | m ² | 4,45 | 4,45 | 6,36 | 6,36 |
| Opening surface | m ² | 4,02 | 4,02 | 5,74 | 5,74 |
| Input current surface | m ² | 5,39 | 5,39 | 7,70 | 7,70 |
| Hydraulic components | | | | | |
| Expansion vessel number | no. | 1 | 1 | 1 | 1 |
| Expansion vessel capacity | I | 24 | 24 | 40 | 40 |

Only the solar panel

| Only the solar panel | | CXS15° | CXS15E | CXS21° | CXS21E |
|--|--------------------|--------------|--------------|--------------|--------------|
| T. d. d. ald a to a to a | | CV212 | CASISE | CASZI | CASZIE |
| Technical features | | 45 | 45 | 24 | 24 |
| Vacuum pipes | no. | 15 | 15 | 21 | 21 |
| Maximum number of coil manifolds | no. | 6 | 6 | 6 | 6 |
| Connections | no. | 6 | 6 | 6 | 6 |
| Connection dimensions | Ø inch | 3/4″M | 3/4″M | 3/4″M | 3/4″M |
| Opening surface | m ² | 2,87 | 2,87 | 4,02 | 4,02 |
| Input current surface | m ² | 3,85 | 3,85 | 5,39 | 5,39 |
| Gross surface | m ² | 3,18 | 3,18 | 4,45 | 4,45 |
| Head insulation thickness, aluminised glass wool covering | mm | 47 | 47 | 30 | 30 |
| Diameter - Vacuum pipe length | mm | 58/47 - 1800 | 58/47 - 1800 | 58/47 - 1800 | 58/47 - 1800 |
| Recommended tilt | 0 | 15 - 75° | 15 - 75° | 15 - 75° | 15 - 75° |
| Conductor radiator fluid content | I | 3,28 | 3,28 | 3,75 | 3,75 |
| Performances | | | | | |
| η0 rendimento ottico (riferimento area lorda) | | 0,615 | 0,615 | 0,609 | 0,609 |
| K1 transmission coefficient (gross area reference) | W/m ² K | 0,850 | 0,850 | 0,690 | 0,690 |
| K2 transmission coefficient (gross area reference) | W/m ² K | 0,009 | 0,009 | 0,005 | 0,005 |
| Nominal Power | W | 1956 | 1956 | 2710 | 2710 |
| Angle of incidence correction factor | K50° | 1.14T/0.9L | 1.14T/0.9L | 1.14T/0.9L | 1.14T/0.9L |
| Heating capacity (opening ref.) | kJ/m²K | 50,9 | 50,9 | 34,0 | 34,0 |
| Energy produced annually ISO 9806:2013 — Wurzburg — Temperature 50°C | kWh | 2371 | 2371 | 2884 | 2884 |
| Energy produced annually ISO 9806:2013 — Wurzburg — Temperature 75°C | kWh | 1929 | 1929 | 2499 | 2499 |
| Test Report ISO 9806:2013 | | Kiwa | Kiwa | Kiwa | Kiwa |
| DIN CERTCO Registration number | | 16083 Rev.0 | 16083 Rev.0 | 16082 Rev.0 | 16082 Rev.0 |
| Flow Rate | l/h | 127 | 127 | 200 | 200 |
| Stagnation temperature | °C | 279 | 279 | 176 | 176 |
| Maximum pressure | bar | 10 | 10 | 10 | 10 |

DIMENSIONS



| | | CXS15E | CXS15° | CXS21E | CXS21° |
|------------------------|----|--------|--------|--------|--------|
| Dimensions and weights | | | | | |
| A | mm | 1656 | 1656 | 2316 | 2316 |
| В | mm | 1921 | 1921 | 1921 | 1921 |
| C | mm | 114 | 114 | 114 | 114 |
| Empty weight | kg | 72 | 72 | 80 | 80 |

COMPLEMENTS







SAF



- Various versions that make optimum use of the different energy sources
- · Ease of installation, even in confined
- · Installing the indoor unit





DESCRIPTION

SAF are the new thermo-buffer for the instantaneous production of domestic hot water (DHW). They integrate both the energy storage element and the heat exchanger, along with the control functions, into a single unit.

The hot water is taken from the water main and heated instantaneously by means of a plate heat exchanger in stainless steel: the separation between the drinking water circuit and the water contained in the accumulator ensures maximum hygiene.

In this way, the benefits of instant production are combined with those associated with buffer production.

These devices are specifically designed and manufactured to be combined with heat pumps but also with traditional or biomass boilers, solar thermal systems and other renewable sources.

VERSIONS

- ° Standard
- **S** With supplementary energy source management
- **T** Set up for use with supplementary energy source

In addition to these versions, an supplementary heater (accessory) is also provided to respond to increased heating requirements.

FEATURES

- The SAF system is available with a range of thermo-accumulators with different capacities, (200-300-500l), in order to meet a whole host of different DHW requirements;
- The high-efficiency insulation prevents energy losses, to the advantage of the heat exchanger, allowing for significant reductions in
- The compactness and the new elegant and attractive design mean that it can be installed in restricted spaces, in indoor environments.

RX: 500 W armoured resistance, with thermostat and inserted in a dedicated fitting, it can be installed only at the factory.

RXV: 3kW armoured resistance, with thermostat and inserted in a dedicated fitting, it can be installed only at the factory.

VT: Antivibration supports

Accessories compatibility

| Heat pump | Sizes | Version | Accessories mandatory | | | | | Recomn | Recommended | |
|-----------|----------|----------|-----------------------|-----|---------|-------------|--------|--------|-------------|--|
| | | | | SAF | MOD485K | MODU485-BL* | VMF-E5 | VTV160 | KRX-SAF | |
| ANL | 021-203 | H°-HP | | • | • | • | • | | • | |
| ANLI | 101 | H°-HP-HX | (1) | • | - | - | - | • | • | |
| ANK | 020-150 | H°-HP | | • | • | • | • | • | • | |
| NRK | 090-0150 | 00-P1-P3 | | • | • | • | • | • | • | |
| CL | 025-200 | H°-HP | | • | • | • | • | • | • | |
| ANKI | 020-080 | H°-HX | (1) | • | - | - | - | | • | |
| WRL | 026-161 | Н° | (1) | | - | - | - | • | | |

^{*} To be installed on board of the heat pump.

⁽¹⁾ Units designed for the management domestic hot water: MOD485K and VMF-E5 accessories not required. It is recommended not to combine the SAF with units with storage tank.

CONFIGURATOR

| Field | Description |
|-------|---|
| 1,2,3 | SAF |
| 4,5,6 | Size 200, 300, 500 |
| 7 | Version |
| 0 | Standard |
| S | With supplementary energy source management (1) |
| T | Set up for use with supplementary energy source (1) |
| 8 | Field for future development |
| 0 | |

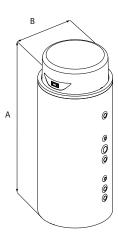
⁽¹⁾ Version "S-T" not available for size 200

PERFORMANCE SPECIFICATIONS

| | | SAF200 | SAF300 | SAF300T | SAF300S | SAF500 | SAF500T | SAF500S |
|-------------------------------|-------|--------|--------|---------|-----------|--------|---------|---------|
| Power supply | | | | | | | | |
| Power supply | | | | | 230V~50Hz | | | |
| Accumulation inertial | | | | | | | | |
| Storage tank capacity | I | 199 | 290 | 27 | 79 | 480 | 4 | 55 |
| Drinking water content | I | 0,85 | 0,85 | 0,85 | 0,85 | 0,85 | 0,85 | 0,85 |
| Coil water content | I | - | - | 10 | 10 | - | 13 | 13 |
| Maximum operating pressure | bar | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Losses through dispersion | W | 59 | | 68 | | | 80 | |
| Energy efficiency class (1) | type | | | | В | | | |
| DHW minimum flow rate | l/min | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| DHW maximum flow rate | l/min | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Maximum operating temperature | °C | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Electric data | | | | | | | | |
| Minimum input power | W | 25 | 25 | 25 | 27 | 25 | 25 | 27 |
| Maximum input power | W | 75 | 75 | 75 | 127 | 75 | 75 | 127 |
| Minimum input current | A | 0,14 | 0,14 | 0,14 | 0,18 | 0,14 | 0,14 | 0,18 |
| Maximum input current | A | 0,53 | 0,53 | 0,53 | 1,05 | 0,53 | 0,53 | 1,05 |

 $^{(1)\ \} In\ accordance\ with\ Standard\ UNI\ EN\ 16147:2011\ and\ in\ accordance\ with\ Delegated\ Regulation\ 812/2013\ and\ 814/2013$

DIMENSIONS



| | | SAF200 | SAF300 | SAF300T | SAF300S | SAF500 | SAF500T | SAF500S |
|-----------------------|---------|--------|--------|---------|---------|--------|---------|---------|
| Dimensions and v | weights | | | | | | | |
| A | mm | 1315 | 1690 | 1690 | 1690 | 1740 | 1740 | 1740 |
| В | mm | 710 | 710 | 710 | 710 | 850 | 850 | 850 |
| Empty weight | kg | 75 | 89 | 96 | 101 | 116 | 131 | 136 |
| Weight functioning | kg | 275 | 389 | 396 | 401 | 616 | 631 | 636 |

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SAP Storage tank



Accumulation unit from 75 to 3500 litres





DESCRIPTION

Accumulation unit - completely assembled pump to be used with a refrigerating unit with hydraulic connections to be made on site by the installer.

FEATURES

- The base the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.
- Pumps
- Pressure relief valve
- Completely insulated hydraulic circuit
- Pump magnet circuit-breaker protection

Pumps

SAP 0075 - 0150:

 $5\,$ pump models with water capacity up to 18000 l/h and with prevalence up to 140 kPa are available (max. 2 internally installed pumps).

SAP 0300 - 0500 - 0501 - 0750 - 1000:

8 pump models with water capacity up to 60000 l/h and with prevalence up to 200 kPa are available.

Pumping units with a reserve pump can also be included in these units. **SAP 1500 - 2000 - 3000**:

 $10\ pump$ models with water capacity up to 200000 l/h and with prevalence up to 300 kPa are available.

Pumping units with a reserve pump can also be included in these units.

ACCESSORIES

VT: Antivibration supports

RX - RXV: 500 W armoured resistance, with thermostat and inserted in a dedicated fitting, it can be installed only at the factory.

Accessories compatibility

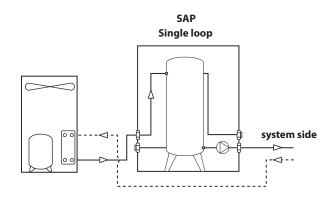
Antivibration

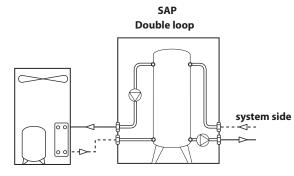
| Accessory | SAP0075 | SAP0150 | SAP0300 | SAP0500 | SAP0501 | SAP0750 | SAP1000 |
|-----------|---------|---------|---------|---------|---------|---------|---------|
| VT2 | | | • | • | • | • | • |
| VT8 | • | • | | | | | |

Resistance

| Accessory | SAP0075 | SAP0150 | SAP0300 | SAP0500 | SAP0501 | SAP0750 | SAP1000 | SAP1500 | SAP2500 | SAP3500 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| RX | • | • | • | • | • | • | • | | | |
| RXV | | | | | | | | • | • | • |

EXAMPLE OF A HYDRAULIC CONNECTION





TECHNICAL DATA

| | | SAP0075 | SAP0150 | SAP0300 | SAP0500 | SAP0501 | SAP0750 | SAP1000 | SAP1500 | SAP2500 | SAP3500 |
|---------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Accumulation inertial | | | | | | | | | | | |
| Storage tank capacity | I | 75 | 150 | 300 | 500 | 500 | 750 | 1000 | 1500 | 2500 | 3500 |
| Pressure relief valve | n°/bar | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 |
| Expansion vessel | | | | | | | | | | | |
| Expansion vessel capacity | I | 8 | 12 | 18 | 24 | 24 | 18 | 18 | 24 | 24 | 24 |
| Expansion vessel number | no. | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 |
| Hydraulic connections | | | | | | | | | | | |
| Connections (in/out) | Туре | F | F | F | F | F | F | F | - | - | - |
| Sizes (in/out) | Ø | 1" 1/4 | 1"1/2 | 2" | 2"1/2 | 2"1/2 | 3" | 3" | - | - | - |

SAP pumps flanges diameter 1500 - 2500 - 3500

| | | | | Pump | | | | | | | | | | |
|------|-------------|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| SAP | Flange | | R | T | U | V | X | γ | W | K | J | I | | |
| 1500 | PN16UNI2278 | Ø | 125 | 125 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | | |
| 2500 | PN16UNI2279 | Ø | 125 | 125 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | | |
| 3500 | PN16UNI2280 | Ø | 125 | 125 | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | | |

PUMP ELECTRIC DATA

| | | Pump | | | | | | | | | | | |
|----------------------|---|------|------|------|------|------|------|------|-------|-------|-------|-------|--|
| | | Α | В | (| E | F | G | Н | I | J | K | L | |
| Max absorbed power | W | 275 | 330 | 614 | 895 | 1070 | 1550 | 2050 | 22000 | 17500 | 14500 | 3100 | |
| Max absorbed current | A | 0,5 | 0,7 | 1,1 | 1,6 | 1,9 | 2,8 | 3,6 | 43,0 | 36,4 | 30,0 | 5,6 | |
| | | М | N | Р | Q | R | Ţ | U | ٧ | W | Х | Υ | |
| Max absorbed power | W | 4100 | 1470 | 2600 | 5200 | 4000 | 5200 | 5800 | 8000 | 11500 | 9000 | 11000 | |
| Max absorbed current | А | 7,2 | 2,6 | 4,4 | 8,8 | 8,5 | 11,5 | 15,5 | 15,5 | 22,5 | 22,5 | 22,5 | |

PUMP COMBINATIONS

| | | | | | | Pump con | nbinations | | | | | |
|---------|----|----|----|----|----|----------|------------|----|----|----|----|----|
| SAP0075 | AZ | AE | AF | AZ | BC | BE | BF | BZ | ZC | ZE | ZF | ZZ |
| SAP0150 | AC | AE | AF | AZ | BC | BE | BF | BZ | CC | EC | CF | CZ |
| SAPUISU | AE | EE | EF | EZ | BF | FE | FF | FZ | ZC | ZE | ZF | ZZ |
| SAP0300 | | | | | | CS | CZ | ES | EZ | FS | FZ | ZZ |
| SAP0500 | | | | FS | FZ | GS | GZ | HS | HZ | PS | PZ | ZZ |
| SAP0501 | | | | FS | FZ | GS | GZ | HS | HZ | PS | PZ | ZZ |
| CADOZEO | | | | FS | FZ | GS | GZ | HS | HZ | LS | LZ | MS |
| SAP0750 | | | | | MZ | NS | NZ | PS | PZ | QS | QZ | ZZ |
| SAP1000 | | | | LS | LZ | MS | MZ | NS | NZ | QS | QZ | ZZ |
| CADAFOO | | IS | ΙZ | JS | JZ | KS | KZ | RS | RZ | TS | TZ | US |
| SAP1500 | | | UZ | VS | VZ | WS | WZ | XS | XZ | YS | YZ | ZZ |
| CARREAG | | IS | ΙZ | JS | JZ | KS | KZ | RS | RZ | TS | TZ | US |
| SAP2500 | | | UZ | VS | VZ | WS | WZ | XS | XZ | YS | YZ | ZZ |
| CARREDO | | IS | ΙZ | JS | JZ | KS | KZ | RS | RZ | TS | TZ | US |
| SAP3500 | | | UZ | VS | VZ | WS | WZ | XS | XZ | YS | YZ | ZZ |

The indicated combinations are the only ones foreseen, many capacity/prevalence combinations are available, we invite you to refer to the technical documentation.

A - B: Multi-speed circulators.

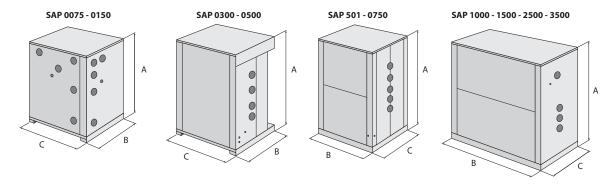
L - M - Q: Twin pumping unit.

S: Pumping unit with reserve pump.

Z: Pump not present.

The first letter of the combination indicates the pump on the primary circuit.

The second letter of the combination indicates the pump on the secondary circuit.



| | | SAP0075 | SAP0150 | SAP0300 | SAP0500 | SAP0501 | SAP0750 | SAP1000 | SAP1500 | SAP2500 | SAP3500 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Dimensions and | weights | | | | | | | | | | |
| A | mm | 1000 | 1000 | 1650 | 1650 | 1968 | 1968 | 2049 | 2049 | 2049 | 2049 |
| В | mm | 1000 | 1000 | 1100 | 1100 | 1550 | 1550 | 2200 | 2200 | 2200 | 2200 |
| C | mm | 700 | 700 | 1100 | 1100 | 1000 | 1000 | 1000 | 1750 | 2000 | 2300 |
| Empty weight | kg | 120 | 120 | 190 | 230 | 310 | 400 | 445 | 560 | 710 | 790 |

The weight of the unit without ZZ pumps.













WST evo

Plug & play hydronic kit

Cooling capacity 80 ÷ 1500 kW Water flow rate 17000 ÷ 260000 l/h



- Hydronic kit containing the main hydraulic components
- · Facilità di installazione
- ideal for industrial systems or data centres, where chilled water is required even during the winter
- · Partial and total free cooling operation



DESCRIPTION

Plug & play hydronic kit that includes the main hydronic and regulation components of a hydraulic system.

The WST are designed to facilitate installation in systems where chilled water production is required throughout the year, in combination with a water/water chiller and a dry cooler.

Thanks to Aermec's 20-year experience in critical processes and the special software purposely developed, these units can manage all the components that make up the system:

- The water-cooled chiller;
- The pumps (including the reserve ones, if installed) for both the system side and the source side;
- The speed of the dry cooler fans (in both mechanical operation and free cooling mode);
- The modulating valve for controlling the chiller condensation.

OPERATION

Air-water chiller

When the outside air temperature is higher than the temperature of the system return water, the cooling capacity is provided by the chiller. The WST manages the dry cooler by modulating its fans on the basis of the chiller condensation pressure.

Free-cooling

When the outside air temperature is lower on the other hand, the WST commands free cooling mode which can be mixed (chiller + free cooling) or free cooling only (switching off the chiller) to exploit the water from the dry cooler to cool the system water in the dedicated heat exchanger.

HYDRAULIC COMPONENTS OF THE DRY COOLER SIDE

- Water filter;
- Flow switches:
- Shut-off valve;
- Mixer valves;
- Bypass valve;Pumps;

- Butterfly valves (free cooling enabling);
- High-efficiency plate heat exchanger (free cooling);
- Water temperature probes.

HYDRAULIC COMPONENTS OF THE CHILLER SIDE

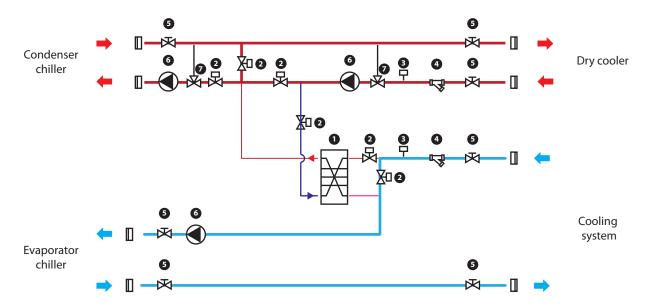
- Water filter:
- Flow switches;
- Shut-off valve;
- Pumps;
- Water temperature probes.

REGULATION

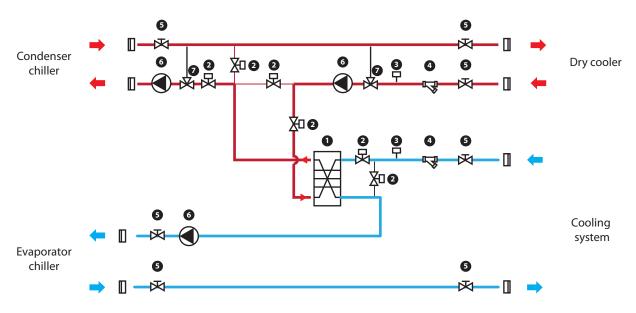
- Electronic microprocessor regulation with MODBUS protocol communication;
- The AER485P1 accessory is supplied as standard with the WST.
 This accessory must necessarily be fitted in the chiller, so the units can communicate with each other;
- Advanced electronics characterised by the continuous monitoring of various working and environmental parameters, so the operating mode (chiller/free cooling) can be switched as and when necessary.
 This limits the operating costs and ensures greater energy efficiency;
- Dry cooler fan management, to control the condensation pressure (chiller mode) or the recovered output (free cooling mode);
- Management of cold start-up via dry cooler fan modulation and the mixer valve;
- Structure and base in hot-dip galvanised sheet metal coated in epoxy powders RAL 9003.

OPERATING MODE

Mechanical operation (chiller)



Mixed operation (chiller + free cooling)

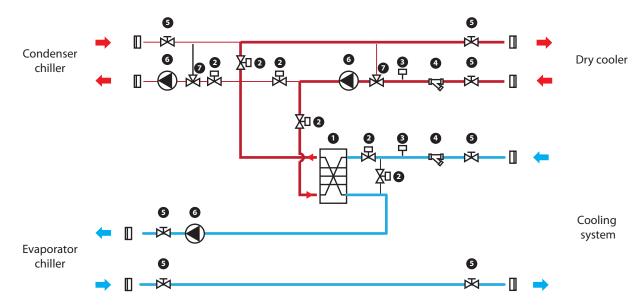


Key:

- 1 Plate heat exchanger
- 2 2-way butterfly valve
- 3 Flow switch

- 4 Water filter
- 5 Shut-off valve
- 6 Pump
- 7 Mixing valve

Operation in free-cooling only



Key:

- 1 Plate heat exchanger
- 2 2-way butterfly valve
- 3 Flow switch

- 4 Water filter
- 5 Shut-off valve
- 6 Pump
- 7 Mixing valve

COMPLEMENTS



TRA

Cooling towers

Capacities from 49.53 up to 1084.88 kW





FEATURES

- Available in 17 different sizes
- Entirely built of fibre-glass reinforced resin to avoid corrosion problems with surface treatment to withstand ultraviolet rays, heat changes and scuffing caused by bad weather
- Limited to the three largest sizes (TRA 850, 950 and 1100) the bearing structure is made of hot galvanised steel with 22mm thick fibreglass reinforced resin sandwich panels, with support foam material inside. In this way, as well achieving good mechanical strength the sound of the water flowing is muffled. Surface treatment to withstand ultraviolet rays, heat changes and scuffing caused by bad weather.
- Self-bearing structure
- Exchange pack and drip separator made of self-extinguishing PVC
- PVC water distribution pipes with polypropylene nozzles
- Hydrometer (when there is not water flow rate measuring device, this

instrument makes possible to have an approximate indication of the flow rate of the water in circulation based on the nozzle load drop)

- Plastic bleed cock
- Axial high efficiency fan with several blades
- Water drip pan, waterproof and water resistant made of fibreglass reinforced polyester resin with multi layer glass material
- Personal protection grill made of AISI 304 on the fan outlet

- TRA from 50 up to 750 silenced and Inspection window standard
- TRA from 850 up to 1100 standard, TRA from 850 up to 1100 silenced (L) All with inspection door to a crawl Series

ACCESSORIES

RT: Heater element with regulating thermostat.

| | Compatibility of accessories | | | | | | | | | | | | | | | | |
|----------------|------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| TRA | 50 | 70 | 90 | 110 | 130 | 170 | 200 | 240 | 300 | 400 | 500 | 550 | 600 | 750 | 850 | 950 | 1100 |
| RT 11 (1 kW) | • | • | | • | • | | | | | | | | | | | | |
| RT 12 (2 kW) | | | | | | | | • | • | | | | | | | | |
| RT 13 (3 kW) | | | | | | | | | | • | • | • | | | | | |
| RT 15 (5 kW) | | - | | | | | | | | | | | • | | • | | |
| RT 17 (7.5 kW) | | | | | | | | | | | | | | | | | • |

N.B. = In the case of RT accessories, the number between brackets indicates the capacity of the heater element. * = All the accessories and/or variants must in all cases be specified when the order is placed.

TECHNICAL DATA

| Mod. TRA | | 50 | 70 | 90 | 110 | 130 | 170 | 200 | 240 | 300 |
|-------------------------------|-------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Capacity | kW | 49,53 | 69,06 | 88,60 | 107,44 | 125,58 | 168,14 | 197,67 | 242,09 | 302,33 |
| Air flow rate | m ³ /h | 4500 | 4500 | 8100 | 8100 | 8100 | 12600 | 12600 | 18100 | 18100 |
| Water flow rate | l/h | 7100 | 9900 | 12700 | 15400 | 18000 | 24100 | 28330 | 34700 | 43300 |
| Pressure drops | kPa | 42 | 32 | 52 | 32 | 42 | 28 | 35 | 23 | 40 |
| Motor power | kW | 0,55 | 0,75 | 0,75 | 0,75 | 1,1 | 1,1 | 1,5 | 1,5 | 2,2 |
| Motor poles | n. | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| Motor poles (double polarity) | n. | 4/8 | 4/8 | 4/8 | 4/8 | 6/12 | 6/12 | 6/8 | 6/8 | 6/8 |
| Fans | n. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nozzles | n. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 |
| Sound pressure | dB (A) | 52 | 52 | 54 | 54 | 54 | 54 | 54 | 55 | 55 |

| Mod. TRA | | 400 | 500 | 550 | 600 | 750 | 850 | 950 | 1100 |
|-----------------------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|---------|
| Capacity | kW | 405,35 | 488,37 | 574,19 | 604,88 | 767,44 | 856,74 | 941,86 | 1084,88 |
| Air flow rate | m ³ /h | 28350 | 28350 | 36000 | 45350 | 45350 | 58000 | 58000 | 67000 |
| Water flow rate | l/h | 58100 | 70000 | 82300 | 86700 | 110000 | 122800 | 135000 | 155500 |
| Pressure drops | kPa | 28 | 40 | 55 | 30 | 48 | 49 | 25 | 32 |
| Motor power | kW | 2,2 | 4 | 5,5 | 4 | 5,5 | 5,5 | 5,5 | 7,5 |
| Motor poles | n. | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 |
| Motor poles (double polarity) | n. | 6/8 | 6/12 | 6/12 | 6/12 | 8/16 | 8/16 | 8/16 | 8/16 |
| Fans | n. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nozzles | n. | 4 | 4 | 4 | 9 | 9 | 16 | 16 | 16 |
| Sound pressure | dB (A) | 57 | 57 | 58 | 61 | 61 | 62 | 62 | 64 |
| Sound pressure (silenced version) | dB (A) | | | | | | 56 | 56 | 57 |

^{*=} Sizes from 50 to 750 are only muted. Power supply = $3 \sim 230V$ 50Hz; $3N \sim 400V$ 50Hz.

Performance values refer to the following conditions:

Sound pressure measured in free field conditions at distance of 10 m with direction factor = 2.

air inlet temperature 23.5 °C W.B.;

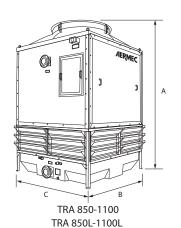
water inlet temperature 35 °C;

water outlet temperature 29 °C

DIMENSIONS (MM)



TRA 50-750



| Mod. TRA | | 50 | 70 | 90 | 110 | 130 | 170 | 200 | 240 | 300 | 400 |
|----------|----|------|------|------|------|------|------|------|------|------|-------|
| Height | Α | 2110 | 2110 | 2595 | 2595 | 2595 | 2800 | 2800 | 2860 | 2860 | 3140 |
| Width | В | 800 | 800 | 1000 | 1000 | 1000 | 1200 | 1200 | 1400 | 1400 | 1740 |
| Depth | С | 800 | 800 | 1000 | 1000 | 1000 | 1200 | 1200 | 1400 | 1400 | 1740 |
| Weight | kg | 75 | 75 | 85 | 95 | 95 | 170 | 170 | 210 | 210 | 410 |
| | | | | | | | | | | | |
| Mod. TRA | | 500 | 550 | 600 | 750 | 850 | 850L | 950 | 950L | 1100 | 1100L |
| Height | Α | 3140 | 3380 | 3450 | 3450 | 3650 | 3900 | 3650 | 3900 | 3650 | 3900 |
| Width | В | 1740 | 1900 | 2100 | 2100 | 2030 | 2030 | 2030 | 2030 | 2360 | 2360 |
| Depth | С | 1740 | 2100 | 2300 | 2300 | 2360 | 2360 | 2360 | 2360 | 2360 | 2360 |
| Weight | kg | 410 | 500 | 555 | 580 | 850 | 850 | 815 | 815 | 915 | 915 |

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COMPLEMENTS













CSE

Remote condenser

Cooling capacity 3 ÷ 650 kW



- · Simple to use and install
- Wide range of powers
- · Easy to handle and transport
- Can be installed both horizontally and vertically



GENERAL FEATURES

- Simple to use and install;
- Excellent value for money;
- Easy to handle and transport;
- Up to 3 units can be stacked depending on the model (to be requested at time of order);

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments:
- All coils are tested with Helium (He₂) which ensures the absence of
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits.

Fans

Latest generation axial fans all compliant with ErP regulation and IP54. All the machines are supplied with wired and tested fans, the following diameters of fans are available:

- Ø350 Single phase (EC);
- Ø500 single-phase or three-phase (AC with "Y" STAR or "D" TRIAN-GLE EC electrical connection);
- Ø800 three-phase (AC with "Y" STAR or "D" TRIANGLE EC electrical connection);
- Ø1000 three-phase (AC with "Y" STAR or "D" TRIANGLE EC electrical connection).

There are different noise levels, depending on the fan diameter:

- Standard (B);
- Silenced (S);

— Super silent (E).

CONTROL

The electrical panel with terminal board or with adjustment is always present.

For space reasons, the models with 350 mm diameter fans feature a junction box.

The regulators used are of high efficiency and low consumption, the types of adjustments available are:

- Phase cut for AC fans
- With electronic processor for EC versions

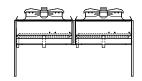
ACCESSORIES

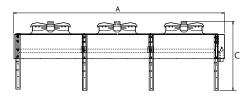
Several accessories are available:

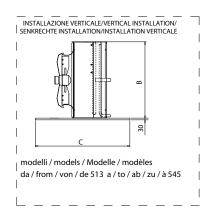
- Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature ≤ 20°C);
- 6. MODBUS kit (only on units with three-phase connection);
- 7. Axitop (only for 800 mm diameter fans).

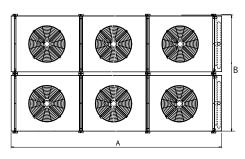
PERFORMANCE SPECIFICATIONS

■ For combinations with the evaporating units contact the headquarters.









CSE fans diameter Ø 350

| | | CSE 3023 | CSE 3024 | CSE 3033 | CSE 3034 |
|----------------|---------|----------|----------|----------|----------|
| Dimensions and | weights | | | | |
| A | mm | 1310 | 1310 | 1860 | 1860 |
| В | mm | 620 | 620 | 620 | 620 |
| C | mm | 840 | 840 | 840 | 840 |
| Weights | | | | | |
| Empty weight | kg | 35 | 39 | 48 | 54 |

CSE fans diameter Ø 500

| | | CSE 5013 | CSE 5014 | CSE 5022 | CSE 5023 | CSE 5033 | CSE 5034 | CSE 5043 | CSE 5044 | CSE 5063 | CSE 5064 | CSE 5083 | CSE 5084 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 1400 | 1400 | 2345 | 2345 | 3290 | 3290 | 4230 | 4230 | 3290 | 3290 | 4230 | 4230 |
| В | mm | 833 | 833 | 833 | 833 | 833 | 833 | 833 | 833 | 1666 | 1666 | 1666 | 1666 |
| С | mm | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 |
| Weights | | | | | | | | | | | | | |
| Empty weight | kg | 70 | 74 | 107 | 116 | 162 | 175 | 206 | 224 | 324 | 350 | 412 | 448 |

CSE fans diameter Ø 800

| | | CSE 8013 | CSE 8014 | CSE 8023 | CSE 8024 | CSE 8033 | CSE 8034 | CSE 8043 | CSE 8044 | CSE 8063 | CSE 8064 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | |
| A | mm | 1920 | 1920 | 3600 | 3600 | 5260 | 5260 | 3600 | 3600 | 5260 | 5260 |
| В | mm | 1240 | 1240 | 1240 | 1240 | 1240 | 1240 | 2390 | 2390 | 2390 | 2390 |
| C | mm | 1385 | 1385 | 1385 | 1385 | 1385 | 1385 | 1385 | 1385 | 1385 | 1385 |
| Weights | | | | | | | | | | | |
| Empty weight | kg | 169 | 179 | 331 | 356 | 487 | 525 | 642 | 692 | 954 | 1030 |

CSE fans diameter Ø 1000

| | | CSE 1013 | CSE 1014 | CSE 1023 | CSE 1024 | CSE 1033 | CSE 1034 | CSE 1043 | CSE 1044 | CSE 1063 | CSE 1064 | CSE 1083 | CSE 1084 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 2560 | 2560 | 4860 | 4860 | 7170 | 7170 | 9460 | 9460 | 7170 | 7170 | 9460 | 9460 |
| В | mm | 1260 | 1260 | 1260 | 1260 | 1260 | 1260 | 1260 | 1260 | 2430 | 2430 | 2430 | 2430 |
| C | mm | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Weights | | | | | | | | | | | | | |
| Empty weight | kg | 229 | 247 | 429 | 467 | 725 | 772 | 925 | 990 | 1508 | 1602 | 1930 | 2060 |

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945













CVR

Remote condenser

Cooling capacity 44 ÷ 500 kW



- V-Shape model with single row of fans
- Wide range of powers
- Maximum height clearance 1.6 mt



GENERAL FEATURES

- V-Shape model with single row of fans;
- Very compact and lowered structure;
- Maximum height clearance 1.6 mt;
- can be transported via container;
- Easy to handle and transport;

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested with Helium (He₂) which ensures the absence of leaks;
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits.
- The electrical panel with terminal board or adjustment is always supplied;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 mm;
- Fans with a diameter of ø 800 mm are all three-phase (T) and there can be from 2 to 7 per machine;
- Different sound levels: standard (B), silenced (S) or extra-silenced
 (F)
- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side.

The regulators used are of high efficiency and low consumption.

The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans.

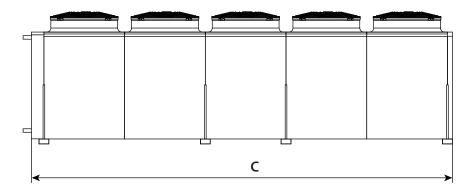
ACCESSORIES

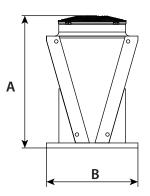
Several accessories are available:

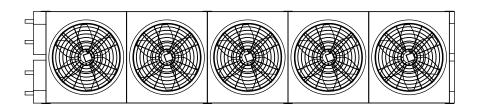
- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- **4.** Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature ≤ 20°C);
- **6.** UV lamp kit (only for adiabatic "Spray System" system);
- 7. Modbus kit.
- 8. Axitop

PERFORMANCE SPECIFICATIONS

For combinations with the evaporating units contact the headquarters.







| | | CVRX8023 | CVRX8024 | CVRX8033 | CVRX8034 | CVRX8043 | CVRX8044 | CVRX8053 | CVRX8054 | CVRX8063 | CVRX8064 | CVRX8073 | CVRX8074 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 |
| В | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| C | mm | 2150 | 2150 | 3120 | 3120 | 4090 | 4090 | 5060 | 5060 | 6030 | 6030 | 7000 | 7000 |
| Empty weight | kg | 356 | 396 | 523 | 583 | 690 | 770 | 856 | 956 | 1112 | 1261 | 1219 | 1369 |

COMPLEMENTS













CDR

Remote condenser

Cooling capacity 150 ÷ 590 kW



- · V-Shape model with double row of fans
- Ideal machine to manage two-circuit systems completely independently and precisely
- · Very solid and reliable structure
- · Maximum height clearance 2.2 mt



GENERAL FEATURES

- V-Shape model with double row of fans;
- Very solid and reliable structure;
- Maximum height clearance 2.2 mt;
- can be transported via container;

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested with Helium (He₂) which ensures the absence of
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits.
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

- Latest generation axial fans all compliant with ErP regulation and IP54:
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 mm;
- Fans with a diameter of ø 800 mm are all three-phase (T) and there can be from 2 to 7 per machine;

- Different sound levels: standard (B), silenced (S) or extra-silenced (F).
- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

- The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- The two banks can be managed separately with independent electric control board and adjustment (ideal solution for two-circuit systems)

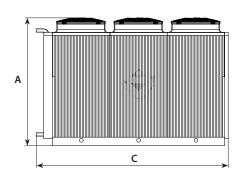
ACCESSORIES

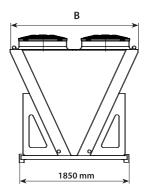
Several accessories are available:

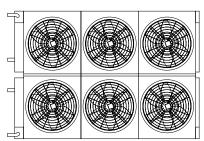
- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature $\leq -20^{\circ}$ C);
- 6. Modbus kit.
- 7. Axitop

PERFORMANCE SPECIFICATIONS

For combinations with the evaporating units contact the headquarters.







| | | CDRX8043 | CDRX8044 | CDRX8063 | CDRX8064 | CDRX8083 | CDRX8084 | CDRX8103 | CDRX8104 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | |
| A | mm | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 |
| В | mm | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 |
| C | mm | 2150 | 2150 | 3120 | 3120 | 4090 | 4090 | 5060 | 5060 |
| Empty weight | kg | 708 | 750 | 1064 | 1130 | 1394 | 1476 | 1736 | 1839 |













CGA

Remote condenser

Cooling capacity 240 ÷ 1500 kW



- · V-Shape model with double row of fans
- Ideal machine to manage two-circuit systems completely independently and precisely
- Very solid and reliable structure



GENERAL FEATURES

- V-Shape model with double row of fans;
- Very solid and reliable structure;
- Can be transported in specific containers;

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested with Helium (He₂) which ensures the absence of
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits.
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

950

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 e 1000 (990) mm;
- All fans with three-phase motors (T) there can be from 6 to 16 per machine:
- Different sound levels: standard (B), silenced (S) or extra-silenced (E):

- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

- The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- The two banks can be managed separately with independent electric control board and adjustment (ideal solution for two-circuit systems)

ACCESSORIES

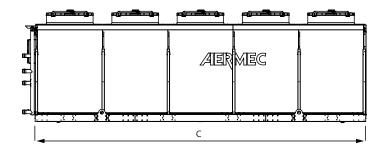
Several accessories are available:

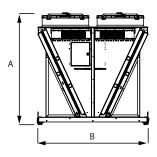
- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature \leq 20°C);
- 6. Modbus kit.
- 7. Axitop

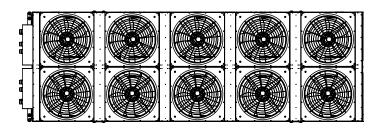
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PERFORMANCE SPECIFICATIONS

For combinations with the evaporating units contact the headquarters.







| | | CGAX8063 | CGAX8064 | CGAX8083 | CGAX8084 | CGAX8103 | CGAX8104 | CGAX8123 | CGAX8124 | CGAX8143 | CGAX8144 | CGAX8163 | CGAX8164 |
|-----------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 |
| В | mm | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 |
| C | mm | 4320 | 4320 | 5730 | 5730 | 7140 | 7140 | 8550 | 8550 | 9960 | 9960 | 11370 | 11370 |
| Empty weight | kg | 1600 | 1700 | 2000 | 2150 | 2500 | 2700 | 2850 | 3100 | 3650 | 4000 | 4200 | 4550 |

COMPLEMENTS













CMV

Remote condenser

Cooling capacity 140 ÷ 1200 kW



- Modular machine with base unit composed by 2 "V" modules in series
- The power range can be extended by installing more than 5 base units in parallel
- Very solid and reliable structure



GENERAL FEATURES

- Modular machine with base unit composed by 2 "V" modules in series:
- Very solid, compact and reliable structure;
- Maximum height clearance 2.0 mt;
- Can be transported via container (optimisation of transport costs);
- The power range can be extended by installing more than 5 base units in parallel.

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- High efficiency microchannel coil with low refrigerant content;
- All coils are tested with Helium (He₂) which ensures the absence of leaks:
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits;
- Different collector configurations are available in order to manage mono and two-circuit systems (include the "Double circuit kit" for machines with up to 8 motors)
- Each "V" module is composed by two coils and two identical fans which repeat from 2 to a maximum of 10 times.
- Each "V" module can be electrically and hydraulically disconnected from the rest of the machine for maintenance without having to stop the whole system;
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

952

- Latest generation axial fans all compliant with ErP regulation and IP54.
- All machines are supplied with wired and tested fans;

- Available fan diameters ø: 800 mm;
- All fans with three-phase motors (T) there can be from 4 to 20 per individual machine;
- Different sound levels: standard (B), silenced (S) or extra-silenced (E);
- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

- The electric control board or with complete adjustment is always supplied and can be installed on both short sides of the machine;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- Possibility to manage two-circuit systems with independent electrical board and adjustment (select the "Double circuit kit" for models up to 8 motors).

ACCESSORIES

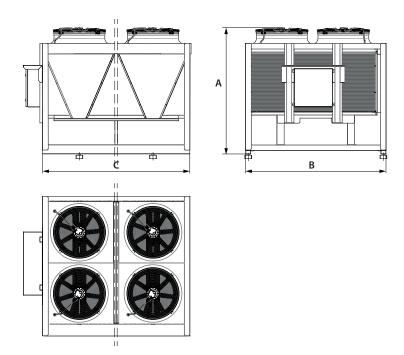
Several accessories are available:

- 1. Anti-vibration supports;
- 2. Double circuit kit;
- 3. Additional disconnectors for each motor;
- **4.** Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature \leq 20°C);
- 6. Modbus kit.
- 7. Axitop

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PERFORMANCE SPECIFICATIONS

For combinations with the evaporating units contact the headquarters.



| | | CMV 8041 | CMV 8081 | CMV 8121 | CMV 8161 | CMV 8201 |
|----------------|---------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | |
| A | mm | 2010 | 2010 | 2010 | 2010 | 2010 |
| В | mm | 2220 | 2220 | 2220 | 2220 | 2220 |
| C | mm | 2385 | 4765 | 7145 | 9525 | 11905 |
| Empty weight | kg | 900 | 1800 | 2700 | 3600 | 4500 |









WTE

Dry Cooler

Cooling capacity 3 ÷ 500 kW



- · Simple to use and install
- Wide range of powers
- · Easy to handle and transport
- Can be installed both horizontally and vertically



GENERAL FEATURES

- Simple to use and install;
- Excellent value for money;
- Easy to handle and transport;
- Up to 3 units can be stacked depending on the model (to be requested at time of order);
- Can be installed both horizontally and vertically (models with ø 500 mm and ø 630 mm fans available on request).

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested at a maximum pressure of 16 bar;
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with welded connections closed to prevent impurities and moisture from getting into the circuits.

Fans

Latest generation axial fans all compliant with ErP regulation and IP54. All the machines are supplied with wired and tested fans, the following diameters of fans are available ø: 350, 500, 630 (three-phase AC motors only), 800, 1000 (990) mm.

Different sound levels can be had for each fan diameter:

- Standard (B);
- Silenced (S);
- Super silent (E).

The motors can have AC or EC technology, for three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D)

CONTROL

The electrical panel with terminal board or with adjustment is always present.

For space reasons, the models with 350 mm diameter fans feature a junction box.

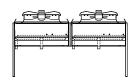
The regulators used are of high efficiency and low consumption, the types of adjustments available are:

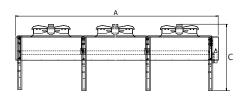
- Phase cut for AC fans
- With electronic processor for EC versions

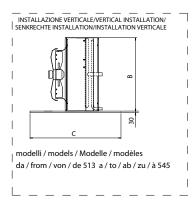
ACCESSORIES

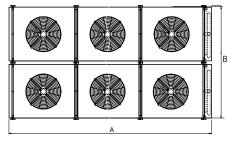
Several accessories are available:

- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Double circuit kit (only for single row machines)
- 4. Additional disconnectors for each motor;
- 5. Remote switch-on/switch-off management kit;
- **6.** Resistance kit (if temperature ≤ 20°C);
- 7. Modbus kit;
- 8. Axitop (only for 800 mm diameter fans).









WTE fans diameter Ø 500

| | | WTE°5013 | WTE°5023 | WTE°5033 | WTE°5043 | WTE°5063 | WTE°5083 |
|--------------------|--------|----------|----------|----------|----------|----------|----------|
| Horizontal instal | lation | | | | | | |
| A | mm | 1400 | 2345 | 3290 | 4230 | 3290 | 4230 |
| В | mm | 833 | 833 | 833 | 833 | 1666 | 1666 |
| С | mm | 1080 | 1080 | 1080 | 1080 | 1080 | 1080 |
| Empty weight | kg | 72 | 128 | 185 | 289 | 354 | 467 |
| Vertical installat | ion | | | | | | |
| A | mm | 1400 | 2345 | 3290 | 4230 | - | - |
| В | mm | 839 | 839 | 839 | 839 | - | - |
| С | mm | 870 | 870 | 870 | 870 | - | - |
| Empty weight | ka | 72 | 128 | 185 | 289 | - | _ |

WTE fans diameter Ø 800

| | | WTE°8013 | WTE°8023 | WTE°8033 | WTE°8043 | WTE°8063 |
|--------------------|--------|----------|----------|----------|----------|----------|
| Horizontal instal | lation | | | | | |
| A | mm | 1920 | 3600 | 5260 | 3600 | 5260 |
| В | mm | 1240 | 1240 | 1240 | 2390 | 2390 |
| C | mm | 1385 | 1385 | 1385 | 1385 | 1385 |
| Empty weight | kg | 169 | 331 | 487 | 642 | 954 |
| Vertical installat | ion | | | | | |
| A | mm | 1320 | 3590 | 5250 | 3600 | 5260 |
| В | mm | 1232 | 1232 | 1232 | 2390 | 2390 |
| C | mm | 1061 | 1061 | 1061 | 1560 | 1560 |
| Empty weight | kg | 169 | 331 | 487 | 642 | 954 |

WTE fans diameter Ø 1000

| | | WTE°1014 | WTE°1024 | WTE°1034 | WTE°1044 | WTE°1064 | WTE°1084 |
|--------------------|--------|----------|----------|----------|----------|----------|----------|
| Horizontal instal | lation | | | | | | |
| A | mm | 2560 | 4860 | 7170 | 9460 | 7170 | 9460 |
| В | mm | 1260 | 1260 | 1260 | 1260 | 2430 | 2430 |
| С | mm | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| Empty weight | kg | 247 | 467 | 772 | 990 | 1602 | 2060 |
| Vertical installat | ion | | | | | | |
| A | mm | 2560 | 4860 | 7170 | 9460 | 7170 | 9460 |
| В | mm | 1260 | 1260 | 1260 | 1260 | 2505 | 2505 |
| C | mm | 1075 | 1750 | 1750 | 1750 | 1560 | 1560 |
| Empty weight | kg | 247 | 467 | 772 | 990 | 1602 | 2060 |

 $\label{lem:continuous} Aermec \ reserves \ the \ right \ to \ make \ any \ modifications \ deemed \ necessary.$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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WTR

Dry Cooler

Cooling capacity 56 ÷ 350 kW



- V-Shape model with single row of fans
- Wide range of powers
- Maximum height clearance 1.6 mt



GENERAL FEATURES

- V-Shape model with single row of fans;
- Very compact and lowered structure;
- Maximum height clearance 1.6 mt;
- can be transported via container;
- Easy to handle and transport;

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested at a maximum pressure of 16 bar;
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with threaded brass connections or flanged on request, adequately protected for transport.
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 mm;
- Fans with a diameter of ø 800 mm are all three-phase (T) and there can be from 2 to 7 per machine;

- Different sound levels: standard (B), silenced (S) or extra-silenced (F).
- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side.

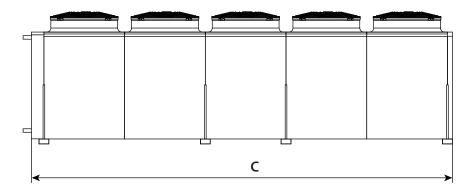
The regulators used are of high efficiency and low consumption.

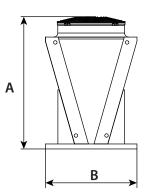
The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans.

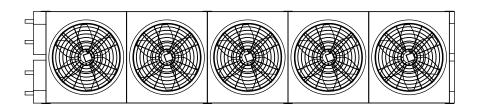
ACCESSORIES

Several accessories are available:

- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature $\leq -20^{\circ}$ C);
- 6. UV lamp kit (only for adiabatic "Spray System" system);
- 7. Modbus kit.
- 8. Axitop







| | | WTR°8023 | WTR°8024 | WTR°8033 | WTR°8034 | WTR°8043 | WTR°8044 | WTR°8053 | WTR°8054 | WTR°8063 | WTR°8064 | WTR°8073 | WTR°8074 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 | 1590 |
| В | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| C | mm | 2150 | 2150 | 3120 | 3120 | 4090 | 4090 | 5060 | 5060 | 6030 | 6030 | 7000 | 7000 |
| Empty weight | kg | 383 | 432 | 563 | 637 | 743 | 841 | 923 | 1046 | 1171 | 1341 | 1278 | 1448 |

COMPLEMENTS













WDR

Dry Cooler

Cooling capacity 90 ÷ 430 kW



- · V-Shape model with double row of fans
- Ideal machine to manage two-circuit systems completely independently and precisely
- · Very solid and reliable structure
- Maximum height clearance 2.2 mt



GENERAL FEATURES

- V-Shape model with double row of fans;
- Very solid and reliable structure;
- Maximum height clearance 2.2 mt;
- can be transported via container;

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested at a maximum pressure of 16 bar;
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with threaded brass connections or flanged on request, adequately protected for transport;
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 mm;
- All fans with three-phase motors (T) there can be from 4 to 10 per machine:
- Different sound levels: standard (B), silenced (S) or extra-silenced (E):

- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

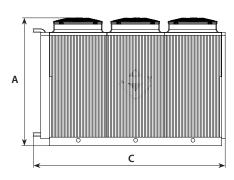
CONTROL

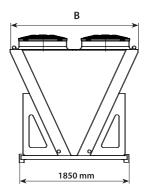
- The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- The two banks can be managed separately with independent electric control board and adjustment (ideal solution for two-circuit systems)

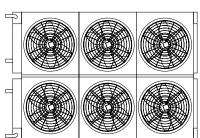
ACCESSORIES

Several accessories are available:

- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature ≤ 20°C);
- 6. UV lamp kit (only for adiabatic "Spray System" system).







| | | WDR°8043 | WDR°8044 | WDR°8063 | WDR°8064 | WDR°8083 | WDR°8084 | WDR°8103 | WDR°8104 |
|-----------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | |
| A | mm | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 |
| В | mm | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 | 2160 |
| C | mm | 2150 | 2150 | 3120 | 3120 | 4090 | 4090 | 5060 | 5060 |
| Empty weight | kg | 725 | 798 | 1098 | 1216 | 1425 | 1571 | 1776 | 1958 |











WGA

Dry Cooler

Cooling capacity 180 ÷ 1100 kW



- · V-Shape model with double row of fans
- Ideal machine to manage two-circuit systems completely independently and precisely
- · Very solid and reliable structure



GENERAL FEATURES

- V-Shape model with double row of fans;
- Very solid and reliable structure;
- Maximum height clearance 2.5 mt;
- Can be transported in specific containers.

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- Coils with compact staggered geometry, copper pipes and corrugated or mechanically expanded aluminium louvers;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested at a maximum pressure of 16 bar;
- The shoulders of the coils are integrated into the structure and designed to avoid any pipe breakage due to vibrations related to transport or functioning;
- Copper collectors with threaded brass connections or flanged on request, adequately protected for transport;
- Adiabatic "Spray System" systems with running water nozzles (cheaper but less efficient);
- Aluminium "Adiabatic Panels" system with closed water management and control system (very efficient system with a 10% maximum amount of evaporated water).

Fans

960

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Fans diameter ø: 800 e 1000 (990) mm;
- All fans with three-phase motors (T) there can be from 4 to 10 per machine:
- Different sound levels: standard (B), silenced (S) or extra-silenced (E):

- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

CONTROL

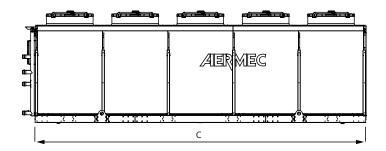
- The electrical panel with terminal board or adjustment is always present and can be installed on the collector side (standard) or on the opposite side;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- The two banks can be managed separately with independent electric control board and adjustment (ideal solution for two-circuit systems)

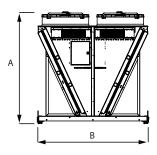
ACCESSORIES

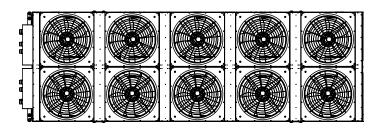
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Several accessories are available:

- 1. Anti-vibration supports;
- 2. Coil connection kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature ≤ 20°C);







| | | WGA°8063 | WGA°8064 | WGA°8083 | WGA°8084 | WGA°8103 | WGA°8104 | WGA°8123 | WGA°8124 | WGA°8143 | WGA°8144 | WGA°8163 | WGA°8164 |
|-----------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | | | |
| A | mm | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 | 2410 |
| В | mm | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 | 2448 |
| C | mm | 4320 | 4320 | 5730 | 5730 | 7140 | 7140 | 8550 | 8550 | 9960 | 9960 | 11370 | 11370 |
| Empty weight | kg | 1600 | 1700 | 2000 | 2150 | 2500 | 2700 | 2850 | 3100 | 3650 | 4000 | 4200 | 4550 |

COMPLEMENTS









WMV

Dry Cooler

Cooling capacity 100 ÷ 950 kW



- Modular machine with base unit composed by 2 "V" modules in series
- The power range can be extended by installing more than 5 base units in parallel
- · Very solid and reliable structure



GENERAL FEATURES

- Modular machine with base unit composed by 2 "V" modules in series:
- Very solid, compact and reliable structure;
- Maximum height clearance 2.0 mt;
- Can be transported via container (optimisation of transport costs);
- The power range can be extended by installing more than 5 base units in parallel.

FEATURES

Structure

- They are designed for outdoor installation and therefore manufactured with technologies and materials that guarantee resistance to atmospheric agents;
- The version with polyurethane resin pre-painted louvers is also available for greater resistance to corrosion in aggressive environments;
- All coils are tested at a maximum pressure of 16 bar;
- Copper collectors with grooved joint connections (Victaulic);
- Different collector configurations are available in order to manage mono and two-circuit systems (include the "Double circuit kit" for machines with up to 8 motors);
- Each "V" module is composed by two coils and two identical fans which repeat from 2 to a maximum of 10 times.
- Each "V" module can be electrically and hydraulically disconnected from the rest of the machine for maintenance without having to stop the whole system;

Fans

- Latest generation axial fans all compliant with ErP regulation and IP54;
- All machines are supplied with wired and tested fans;
- Available fan diameters ø: 800 mm;
- All fans with three-phase motors (T) there can be from 4 to 20 per individual machine;
- Different sound levels: standard (B), silenced (S) or extra-silenced (E):

- The motors can have AC or EC technology;
- For three-phase AC motors it is possible to choose the electrical type of connection: star (Y) or delta (D).

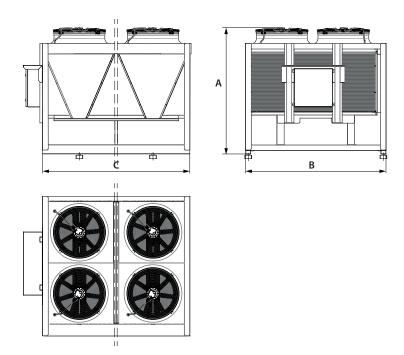
CONTROL

- The electric control board or with complete adjustment is always supplied and can be installed on both short sides of the machine;
- The regulators used are of high efficiency and low consumption;
- The types of available adjustments are: phase cut for AC fans and with electronic processor for EC fans;
- Possibility to manage two-circuit systems with independent electrical board and adjustment (select the "Double circuit kit" for models up to 8 motors).

ACCESSORIES

Several accessories are available:

- 1. Anti-vibration supports;
- 2. Double circuit kit;
- 3. Additional disconnectors for each motor;
- 4. Remote switch-on/switch-off management kit;
- **5.** Resistance kit (if temperature ≤ 20°C);
- 6. Modbus kit.
- 7. Axitop



| | | WMV°8043 | WMV°8044 | WMV°8083 | WMV°8084 | WMV°8123 | WMV°8124 | WMV°8163 | WMV°8164 | WMV°8203 | WMV°8204 |
|----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Dimensions and | weights | | | | | | | | | | |
| A | mm | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 |
| В | mm | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 | 2220 |
| C | mm | 2385 | 2385 | 4765 | 4765 | 7145 | 7145 | 9525 | 9525 | 11905 | 11905 |
| Empty weight | kg | 1080 | 1190 | 2160 | 2380 | 3240 | 3570 | 4320 | 4760 | 5400 | 5950 |









MEC-W



Water-cooled packaged air conditioners With radial fans

Capacities from 11 up to 55 kW

FEATURES

- Available in 5 different sizes
- All versions are supplied for use with R407C
- Metallic protective cabinet with rustproof polyester paint
- Double suction radial fans
- Electric motors with belt transmission
- Four row evaporator coil with copper tubes and aluminium fins
- Washable air filter
- Room thermostat with one or two contacts depending on the model
- Hermetic compressors
- Plate-type condenser
- Water flow control valve driven directly in relation to condensing pressure

ACCESSORIES

- BAS: Hot water coil with three rows of aluminium finned copper tubes
- PL: Air distribution plenum comprising delivery grille with two rows of adjustable slats and internal lining of sound insulating material.

COMPATIBILITY OF ACCESSORIES

| Mod. | 307 W | 507 W | 757 W | 1007 W | 1507 W |
|---------|-------|-------|-------|--------|--------|
| BAS 30 | • | | | | |
| BAS 50 | | • | | | |
| BAS 75 | | | • | | |
| BAS 100 | | | | • | |
| BAS 150 | | | | | • |
| BAS 200 | | | | | |
| BAS 300 | | | | | |
| PL 22 | • | | | | |
| PL 23 | | • | | | |
| PL 26 | | | • | | |
| PL 37 | | | | • | |
| PL 38 | | | | | • |
| PL 39 | | | | | |
| PL 300 | | | | | • |

TECHNICAL DATA

| Mod. MEC | | 307 W | 507 W | 757 W | 1007 W | 1507 W |
|----------------------------------|--------------------------|-------|-------|-------|--------|--------|
| Cooling capacity | kW | 11 | 18 | 29 | 35 | 55 |
| Input power | kW | 3,05 | 4,45 | 7,3 | 8,5 | 13,7 |
| Water flow rate at 30 °C | l/h | 2350 | 3740 | 5900 | 7270 | 11270 |
| Pressure drops | kPa | 38 | 65 | 56 | 65 | 53 |
| Water consumption at 16 °C* | l/h | 620 | 990 | 1550 | 1910 | 2970 |
| Pressure drops* | kPa | 3,5 | 6,7 | 5 | 5,3 | 5 |
| Heating capacity (accessory BAS) | kW | 25,28 | 46,61 | 58,01 | 78,59 | 113,68 |
| Pressure drops (accessory BAS) | kPa | 3,47 | 4,01 | 3,97 | 4,59 | 5,77 |
| Coil rows | n. | 4 | 4 | 4 | 4 | 4 |
| Nominal air flow rate | m ³ /h | 2040 | 3400 | 5100 | 6800 | 10200 |
| e Sound pressure | dB (A) | 63 | 65,5 | 72,5 | 69,5 | 73,5 |
| Motor power | kW | 0,375 | 0,75 | 1,125 | 1,5 | 1,125 |
| Cnood | g/m (min.) | 840 | 840 | 840 | 620 | 840 |
| Speed | g/m (max.) | 1120 | 1120 | 1120 | 810 | 1120 |
| Motor pulley diameter | mm (min.) | 79 | 79 | 79 | 79 | 79 |
| Motor pulley diameter | mm (max.) | 104 | 104 | 104 | 104 | 104 |
| Fan pulley diameter | mm | 130 | 130 | 130 | 180 | 130 |
| A: | m ³ /h (min.) | 1600 | 2750 | 4100 | 5500 | 8200 |
| Air flow rate | m ³ /h (max.) | 2400 | 4100 | 6000 | 8200 | 12000 |
| Innut current | A (230 V) | 12,2 | 15,4 | 24,2 | 30,8 | 46,6 |
| Input current | A (400 V) | 6 | 8,9 | 13,9 | 17,8 | 26,9 |
| Peak current | A (230 V) | 98 | 142 | 168 | 157 | 190 |
| reak Current | A (400 V) | 48 | 68 | 101 | 77 | 115 |
| · · | | | | | | |

Power supply: 3~ 230V 50Hz; 3N~ 400V 50Hz.

Cooling

room air temperature 27 °C D.B., 19 °C W.B.;

condensing temperature 40 °C;

condensing temperature 35 $^{\circ}\text{C}.$

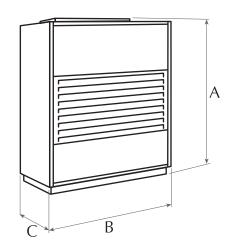
Heating

water inlet temperature 85 °C;

air intake temperature 15 °C;

Sound pressure measured in an 85 m3 semi-reverberant test chamber with reverberation time $\mbox{Tr}=0.5\mbox{s.}.$

DIMENSIONS (MM)



| Mod. | | 307 W | 507 W | 757 W | 1007 W | 1507 W |
|--------|----|-------|-------|-------|--------|--------|
| Height | А | 1290 | 1410 | 1680 | 1700 | 1745 |
| Width | В | 900 | 1040 | 1220 | 1450 | 1880 |
| Depth | С | 494 | 558 | 648 | 723 | 753 |
| Weight | kg | 147 | 184 | 273 | 335 | 484 |

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FW-R

Water-cooled air conditioners

Capacities from 2.9 up to 4.0 kW





TL3 Receiver board

TL3 wall-mounted receiver

DESCRIPTION

FW-R series integrated system air conditioners are independent appliances designed and built to create and maintain optimum room comfort conditions.

Discreetly and elegantly styled, these remarkably quiet units are ideal for installation in the home or commercial premises.

Equipped with a water-cooled condenser, FW-R appliances perform all typical cooling, dehumidification, ventilation and air filtration functions while offering particular benefits in terms of ease of application and installation.

Suitable also for winter operation when equipped with an electric heater or hot water coil; console air conditioners are able to provide different microclimates within the same room because each appliance can be adjusted independently; low running costs are assured by fast arrival at the required room temperature because of the low thermal inertia of the system; quiet operation and thermal efficiency are also promoted by the heat and sound insulation of the compressor bay.

All appliances are factory assembled and individually tested.

FEATURES

- High efficiency rotary compressor
- Compact size
- Quiet operation
- Automatic temperature adjustment
- Reduced water consumption
- Low electrical power consumption

ACCESSORIES

- TL3 : Mandatory accessory, remote controller, required for the operation of the unit
- BR: Armoured heating element with safety thermostat.
- BVR: Single row hot water coil.

| Compatibility of accessories | | | | | | | | | |
|------------------------------|--------|--------|--|--|--|--|--|--|--|
| | FW130R | FW160R | | | | | | | |
| TL 3 | • | • | | | | | | | |
| BR 26 | • | • | | | | | | | |
| BVR 1 | • | • | | | | | | | |

TECHNICAL DATA

| Mod. | FW | 130R | 160R |
|---|--------------------------|------------|------------|
| Cooling capacity | W (max.) | 2900 | 4000 |
| Energy Efficiency Class | | A | A |
| EER | | 4.08 | 4.65 |
| Humidity removed | l/h | 1.78 | 1.78 |
| Input power | W | 710 | 860 |
| Input current | A | 3.55 | 4.02 |
| Heating capacity with water coil (BVR1) | W | 4350 | 5200 |
| Water flow rate (BVR1) | l/h | 600 | 600 |
| Pressure drops (BVR1) | kPa | 12,6 | 12,6 |
| Heating capacity electric coil (BR26) | W | 1200 | 1200 |
| Fans | n. | 2 | 2 |
| | m ³ /h (max.) | 470 | 690 |
| Air flow rate | m ³ /h (med.) | 390 | 525 |
| | m ³ /h (min.) | 270 | 375 |
| | g/m (max.) | 800 | 1140 |
| Fans speed | g/m (med.) | 660 | 885 |
| | g/m (min.) | 500 | 665 |
| Sound pressure | dB (A) | 44 | 47,5 |
| Water consumption at 30-35°C | l/h | 586 | 804 |
| Condenser pressure drops | kPa | 22 | 40 |
| Refrigerant | Tipo / GWP | R410A / 20 | 088kgCO₂eq |
| Refrigerant charge | g | 750 | 830 |
| Input nominal power consumption * | W | 1120 | 1500 |
| Nominal imput current * | Α | 4.97 | 6.65 |
| Input current | Α | 18 | 32 |
| Water connections | Ø | 1/2″F | 1/2″F |

Power supply $=230\text{V}\sim50\text{Hz}.$ Sound pressure measured in an 85 m3 semi-reverberant test chamber with reverberation time Tr =0.5s * In accordance with UNI EN-60335 Data declared in accordance with EN-14511

Cooling

Room air temperature 27°C B.S.; 19°C B.U.

Entering water temperature 30°C

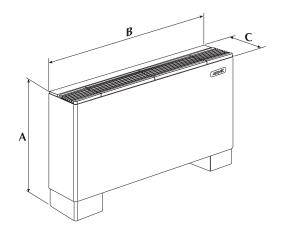
Leaving water temperature 35°C

Max speed

Heating (BVR1):
- Room air temperature 20°C
- Entering water temperature 70°C

Max speed

DIMENSIONS (MM)



| | | FW 130 R | FW 160 R |
|--------|----|----------|----------|
| Height | Α | 723 | 723 |
| Width | В | 1121 | 1121 |
| Depth | С | 242 | 242 |
| Weight | kg | 63 | 67 |

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CWX-CWXM

Water motocondensing unit functioning only in cooling mode Internal installation

Power from 2.7 to 7.1kW



CWX_W



EXC





CWXM



IR remote control CWX_W



TL 3 accessory



PF accessory

VERSIONS

CWX condensing unit for cooling only MONOSPLIT CWXM condensing unit cold only DUALSPLIT

FEATURES

CWX power module

- · Available in 4 versions with different potentiality
- The versions are realised using R410A refrigerant gas
- Only cold operation with water condensation
- Outdoor unit with rotary compressor
- Refrigerant lines with flared connections
- Refrigerant lines up to 15m

CWXM power module

- Available in 2 versions with different potentiality
- The versions are realised using R410A refrigerant gas
- Only cold operation with water condensation
- · Outdoor unit with rotary compressor
- Refrigerant lines with flared connections
- Refrigerant lines up to 10m

CWX_W indoor unit:

- Wall indoor unit for wall installation with infrared ray remote control supplied:
- Air flow louvers adjustable horizontally and motorised deflecting louvers, which can be activated by remote control to direct the outlet air flow vertically, with fixed (LV) or floating (SW) positions

- Extremely silent functioning
- Microprocessor control
- Programmable switch-on/off timer
- Air filter that can be easily removed and regenerated
- Night time well-being (SLEEP) function
- Functioning mode: cooling, dehumidification, ventilation only)
- Autorestart function after interruption of electricity
- Tangential fan with 3 directly selectable speeds
- Energy saving (ECONO) and fast cooling (TURBO) mode

EXC indoor unit:

- Indoor unit with 3-speed centrifugal fan with the possibility of varying the electric connection to increase the useful static pressure. PF (wired control panel) or TL3 (remote control) mandatory accessories, essential unit functioning
- Functioning mode: cooling, heating (with BV or RX accessories), dehumidification or automatic
- Programmable switch-on/off timer
- Cooling or fast heating (TURBO) mode
- · Autorestart function after interruption of electricity
- Wide range of accessories for EXC indoor unit
- Microprocessor control
- · Extremely silent functioning
- Air filter that can be easily removed and regenerated

TECHNICAL DATA

| Indoor units | | | | CWX250W | CWX350W | CWX500W | CWX700W | CWX350W+ CWX350W | CWX500W+ CWX500W |
|---|---------------------------------------|---------|-----------------|---------------------|--------------|-----------------|----------------------------|----------------------------|------------------|
| Power module | | | | CWX250 | CWX350 | CWX500 | CWX700 | CWXM520 | CWXM720 |
| Cooling capacity | | | W | 2750 | 3400 | 5200 | 6700 | 4826 | 7100 |
| Total input power | | | W | 637 | 778 | 1330 | 1860 | 1279 | 1780 |
| Total input current | | | A | 2,86 | 3,56 | 6,02 | 9,28 | 5,8 | 9,0 |
| EER | | | W/W | 4,32 | 4,37 | 3,91 | 3,60 | 3,77 | 3,99 |
| Water flow rate at (in/out) 3 | 30°C/35°C | | I/h | 572 | 705 | 1091 | 1446 | 1066 | 1510 |
| Water side pressure drops | 70 C/ 33 C | | kPa | 21 | 32 | 74 | 125 | 68 | 127 |
| Water flow rate at (in) 15°C | | | I/h | 102 | 122 | 225 | 308 | 190 | 255 |
| Refrigerant gas | | | Tipo/GWP | 102 | 122 | | A / 2087,5 kgC02e | | 233 |
| Refrigerant gas load | | | kg | 0,65 | 0,75 | 0,85 | 0,97 | 0,9 | 1,1 |
| Nominal input power | | (1) | W W | 1500 | 1500 | 2300 | 2650 | 2300 | 2650 |
| | | (1) | I/h | | | | | | |
| Humidity removed | | | | 1,08 | 1,18 | 1,96 | 2,38 | 1,0 | 1,3 |
| A: 0 | | max | m3/h | 445 | 537 | 882 | 1010 | 537 | 882 |
| Air flow rate | | average | m3/h | 428 | 501 | 828 | 935 | 501 | 828 |
| | | min | m3/h | 404 | 467 | 776 | 842 | 467 | 776 |
| | | max | dB(A) | 51 | 51 | 56 | 58 | 51,0 | 56,0 |
| Sound power (indoor unit) | | average | dB(A) | 50 | 50 | 55 | 56 | 50,0 | 55,0 |
| | | min | dB(A) | 49 | 48 | 53 | 54 | 48,0 | 53,0 |
| | | | | FVCaca | FVC400 | FVC400 | 56/0.40 | FV6400 FV6400 | FVC400 FVC400 |
| Indoor units | | | | EXC093 | EXC123 | EXC183 | ECX243 | EXC123+ EXC123 | EXC183 + EXC183 |
| Power module | | | | CWX250 | CWX350 | CWX500 | CWX700 | CWXM520 | CWXM720 |
| Cooling capacity | | | W | 2700 | 3500 | 5250 | 6700 | 5380 | 7100 |
| Total input power | | | W | 656 | 790 | 1422 | 1856 | 1314 | 1820 |
| Total input current | | | A | 2,95 | 3,65 | 6,44 | 9,29 | 6,0 | 9,1 |
| EER | 12.506 | | W/W | 4,12 | 4,43 | 3,69 | 3,61 | 4,09 | 3,90 |
| Water flow rate at (in/out) 30°C | /35°C | | l/h | 573 | 715 | 1140 | 1455 | 1172 | 1510 |
| Water side pressure drops | | | kPa | 21 | 33 | 81 | 126 | 82 | 68 |
| Water flow rate at (in) 15°C | | | I/h Tipo/GWP | 102 | 125 | 235 | 311 0A / 2087,5 kgCO2eq | 200 | 255 |
| Refrigerant gas Refrigerant gas load | | | lipo/GWP kg | 0,65 | 0,75 | 0,85 | 0,97 0,97 | 0,9 | 1,1 |
| Nominal input power | | (1) | W Kg | 1500 | 1500 | 2300 | 2650 | 2300 | 2650 |
| Humidity removed | | (1) | l/h | 1,02 | 1,31 | 2,16 | 2,45 | 1,0 | 1,3 |
| numunty removed | | max | m3/h | 480 | 520 | 950 | 960 | 520 | 950 |
| Air flow rate | | average | m3/h | 370 | 400 | 840 | 830 | 400 | 840 |
| All How rate | | min | m3/h | 280 | 310 | 650 | 610 | 310 | 650 |
| | | max | dB(A) | 46 | 47,5 | 60 | 56,5 | 47,5 | 60,0 |
| Sound power (indoor unit) | | average | dB(A) | 41 | 43 | 58,5 | 53,5 | 43,0 | 58,5 |
| Sound porter (masor unit) | | min | dB(A) | 37 | 37,5 | 55 | 49,5 | 37,5 | 55,0 |
| Heating capacity (water coil) | | (2) | W | 2640 | 3040 | 4670 | 5690 | 3040 | 4670 |
| Water flow rate (water coil) | | (2) | l/h | 231 | 266 | 409 | 497 | 266 | 409 |
| Pressure drops (water coil) | | (2) | kPa | 14,0 | 17,0 | 36,0 | 12,0 | 17,0 | 36,0 |
| Heating capacity (electric resista | ance) | (2) | W | 1300 | 1650 | 1950 | 2200 | 1650 | 1950 |
| Input current (electric resistance | 2) | (2) | А | 5,7 | 7,2 | 8,5 | 9,6 | 7,2 | 8,5 |
| | | | | | | | | | |
| Power module | | | 16.44 | CWX250 | CWX350 | CWX500 | CWX700 | CWXM520 | CWXM720 |
| Sound power | | | dB(A) | 52 Determ | 56 | 59 Detection | 59 Data | 59,0 | 59,0 |
| Compressor | Φ1::J | | type | Rotary 1/4" | Rotary | Rotary | Rotary | Rotary 1/4" | Rotary 1/4" |
| Refrigerant connections | Φ liquid Φ gas | | inch | | 1/4" 1/2" | 1/4" | 1/4" 5/8" | 1/4" | 1/4" |
| - | Φ gas | | inch | 3/8" 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | 6,35 (1/4") | | 6,35 (1/4") |
| | Φ liquid Φ gas | | mm (inch) | 9,52 (3/8") | 12,7 (1/2") | 12,7 (1/2") | | 6,35 (1/4") 12,7 (1/2") | 12,7 (1/2") |
| Refrigerant lines | Φ gas Max pipe Length | | mm (inch) m | 9,52 (3/8") | 12,7 (1/2") | 12,7 (1/2") | 15,9 (5/8") 15 | 10 + 10 | 12,7 (1/2") |
| nemyerdik ililes | Max pipe Length Max level difference | | m m | 7 | 7 | 7 | 7 | 5 | 5 |
| Hydraulic connections | iviax ievei uilleleiice | | m F | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Electric power supply | | | r V ~ Hz | 4 اد | 4/ر | | 220-240V ~ 50Hz | J/ 11 | J/4 |
| Liectric power suppry | | | v ~ ⊓Z | | | | 22U-24UV ~ JUNZ | | |

- (1) The nominal input power, is the maximum electric input power of the system, in accordance with the Standard EN-60335-1 and EN-60335-2-40
- (2) Ambient air 20°C d.b.; Water (in/out) 65°C/55°C; maximum speed

Nominal conditions (Cooling EN-14511):

- Room air temperature 27 °C D.B.; 19 °C W.B.
- Water temperature (in/out) $30^{\circ}C$ / 35 $^{\circ}C$
- maximum speed
- pipe length 5m

ACCESSORIES

PF or TL3 mandatory accessories are essential for func- delivered without. tioning of the EXC units:

PF: Control panel with electronic room thermostat for wall installation. It is a mandatory accessory as the EXC units are delivered without.

TL3: Infrared remote control with liquid crystal display es must be exceeded. to control all functions. Kit complete with recessed re- GA: Intake grid with fixed louvers. ceiver. It is a mandatory accessory as the EXC units are GAF: Intake grid with fixed louvers with filter.

AMP: Kit for wall/ceiling mounted installation.

BC: Auxiliary condensate drip tray.

BV: Hot water coil with 1 row.

DSC4: Condensate draining device when level differenc-

GM: Flow grid with adjustable louvers.

MA: Tall protective cabinet.

MU: Universal protective Cabinet.

PA: Galvanised sheet steel intake plenum equipped with plastic flow fittings for circular section ducts. PC: Steel sheet panel for closing the rear unit side.

PM: Galvanised sheet steel flow plenum, externally insulated, equipped with plastic flow fittings for ducts

COMPLEMENTS

and circular sections.

RD: Straight flow fitting for ducting.

RDA: Straight intake fitting for ducting.

RP: 90° flow fitting for ducting. RPA: 90° intake fitting for ducting.

RX: Armoured electrical coil with safety thermostat.

SE: External air damper with manual control.

SW3: Probe which enables operation of the unit only with temperature greater than 35 °C.

VCF: Kit composed of 3-way motorised valve and copper pipes and connections.

ZX: Feet for floor assembly for models with MA accessory, or recessed.

| | | | Accessory compatibility | | |
|---------------|--|--------|-------------------------|----------|--------|
| | Notes | EXCO93 | EXC123 | EXC183 | EXC243 |
| .3 : MP | (1) | • | • | • | • |
| | (1) | • | • | • | • |
| ИP | | • | • | • | • |
| | 4 (2) 5 (3) | • (4) | • (4) | • (4) | • (4) |
| BC . | 5 (3) | • | • | • | |
| | 6 (3) | | | | • |
| | 8 9 | • | • | • | |
| | 9 | | | | • |
| | 132 | • | | | |
| BV | 142 | | • | • | |
| | 162 | | | | • |
| SC4 | | • | • | • | • |
| | 32 | • | | | |
| A | 32 42 62 | | • | • | |
| • | 62 | | | | • |
| | 32 | • | | | |
| ١F | 12 | | • | • | |
| ** | 62 | | <u> </u> | <u> </u> | • |
| | 32 42 62 32 42 62 | • | | | |
| И | 17 | • | • | • | |
| VI | 62 | | • | • | _ |
| | 22 | | | | • |
| ٨ | 32 42 62 32 42 62 32 42 62 42 62 | • | | | |
| Α | 42 | | • | • | |
| | 02 | | | | • |
| | 32 | • | | | |
| MU | 42 | | • | • | |
| | 62 | | | | • |
| PA | 32 | • | | | |
| | 42 | | • | • | |
| | 62 | | | | • |
| | 32 | • | | | |
| | 32 33 42 43 62 | • | | | |
| PC | 42 | | • | • | |
| | 43 | | • | • | |
| | 62 | | | | • |
| | 32 | • | | | |
| M | 42 | • | • | • | |
| | 62 | | | | • |
| | 27 | • | | | |
| n | 12 | • | • | • | |
| RD | 42 | | | | • |
| | 22 | | | | • |
| DΛ | 32 42 62 32 42 62 32 42 62 42 62 | • | | | |
| DA | 42 | | • | • | |
| | 02 | | | | • |
| | 32 42 62 | • | | | |
| P | 42 | | • | • | |
| | 62 | | | | • |
| | 32 42 62 | • | | | |
| RPA | 42 | | • | • | |
| | 62 | | | | • |
| | 090 | • | | | |
| (| 120 | | • | | |
| ١. | 180 | | | • | |
| | 120 180 240 | | | | • |
| | 30X | • | | | |
| | 30X 40X | | • | • | |
| | 80X | | - | | • |
| V3 | OVA | • (5) | • (5) | • (5) | • (5) |
| | 11 | • (5) | • (5) | • (5) | • (5) |
| F | 44 45 | • | • | • | _ |
| | 4) r | | | | • |
| | 5 6 7 | • | • | • | |
| | 6 | | | | • |
| | | • | • | • | |
| | 8 | | | | • |
| | | | | | |

⁽¹⁾ it is a mandatory accessory as the LC C units are delivered without.

⁽²⁾ in combination with MA accessory;

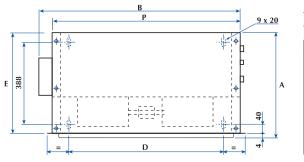
⁽³⁾ in combination with MU accessory;

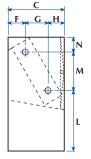
⁽⁴⁾ the VCF valve and the BC4 tray cannot be installed simultaneously on the same unit;

⁽⁵⁾ to be coupled with the BV hot water coil.

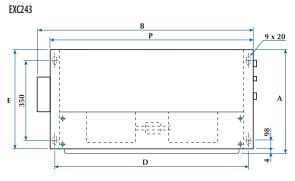
DIMENSIONAL DATA (MM)

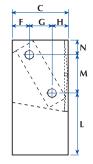
EXC093 - 123 - 183





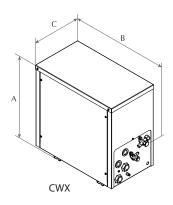
| EXC | 093 | 123 | 183 | 243 |
|-------------|-----|------|------|------|
| Α | 457 | 457 | 457 | 562 |
| В | 823 | 1043 | 1043 | 1182 |
| C | 216 | 216 | 216 | 216 |
| D | 671 | 891 | 891 | 1102 |
| E | 453 | 453 | 453 | 558 |
| F | 41 | 41 | 41 | 41 |
| G | 101 | 101 | 101 | 107 |
| Н | 74 | 74 | 74 | 68 |
| L | 260 | 260 | 260 | 273 |
| М | 144 | 144 | 144 | 253 |
| N | 49 | 49 | 49 | 32 |
| Р | 753 | 973 | 973 | 1122 |
| Weight (Kg) | 23 | 26 | 27 | 37 |

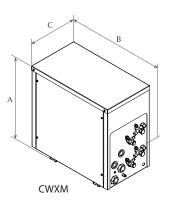




| AERMEC | A |
|--------|----------|
| B → | |
| CWX_W | |

| CWX_W | | 250 | 350 | 500 | 700 |
|--------|----|-----|-----|------|------|
| Height | Α | 298 | 305 | 360 | 360 |
| Width | В | 880 | 990 | 1172 | 1172 |
| Depth | C | 205 | 210 | 220 | 220 |
| Weight | kg | 11 | 12 | 18,5 | 20 |





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| CWX | | 250 | 350 | 500 | 700 |
|--------|----|-----|-----|-----|-----|
| Height | Α | 450 | 450 | 450 | 570 |
| Width | В | 470 | 470 | 470 | 470 |
| Depth | C | 260 | 260 | 260 | 260 |
| Weight | kg | 32 | 35 | 38 | 49 |

| CWXM | | 520 | 720 |
|--------|----|-----|-----|
| Height | Α | 585 | 585 |
| Width | В | 470 | 470 |
| Depth | C | 260 | 260 |
| Weight | kg | 41 | 52 |

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DML

Dehumidifier portable

Dehumidifying capacity 5,8 l/24h ÷ 19,9 l/24h



- New R290 natural refrigerant gas.
- Compact, manoeuvrable and silent.
- Modern design to blend with all furnishing styles.
- Removes up to 19,9 litres of humidity in 24 hours.
- Function for drying clothes quickly.





DESCRIPTION

The portable dehumidifiers of the DML range are ideal for dehumidifying domestic rooms, cellars, bathrooms and places where clothes are hung out to dry, reducing the humidity to optimum levels to avoid any risk of physical discomfort and damage to the building due to the formation of mould.

They fit in with any type of furnishings thanks to their compact, elegant design, and even have wheels so they can easily be moved from one room to another and installed where needed (plug & play).

Equipped with a specific tray for collecting the humidity removed from the room during operation.

The on-board control panel with led display and indicator lights, allows you to set the required temperature set-point easily and accurately.

FEATURES

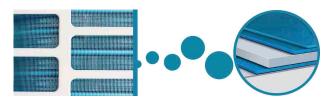
Operation

The dehumidifier takes in the excess humidity via the recovery grille and releases humidity-free air, thereby ensuring a healthier, more comfortable environment.

In addition, its functions enable easy control of the humidity level, keeping it constant over time.

Special blue fin coil

Unlike normal batteries, this special blue epoxy coating is able to protect the heat exchanger against rust and corrosion, in areas where the air has a high salt content.



- On-board control panel with led display and indicator lights.
- Visual display of the humidity setting and that read in the room.
- Relative humidity setting between 80% and 35%.
- Particularly quiet operation.
- Regenerable air filter easy to remove and clean.
- Alarm signal for filter cleaning.
- Alarm signal for condensate discharge tray full or badly positioned.
- Possibility to continuously drain off the condensate without using the tray supplied.
- Self-diagnosis function.
- Auto switch-off function: the unit stops operating when the condensate discharge tray is full or badly positioned, or when it has reached the defined work set-point.
- Auto-restart function.

DMI 200

- New R290 natural refrigerant gas.
- On-board control panel with led display and indicator lights.
- Visual display of the humidity setting and that read in the room.
- Relative humidity setting between 80% and 35%.
- Particularly quiet operation.
- $-\!\!\!-$ Regenerable air filter easy to remove and clean.
- Alarm signal for filter cleaning.
- Alarm signal for condensate discharge tray full or badly positioned.
- Possibility to continuously drain off the condensate without using the tray supplied.
- Self-diagnosis function.
- Auto switch-off function: the unit stops operating when the condensate discharge tray is full or badly positioned, or when it has reached the defined work set-point.
- Auto-restart function.
- Anti-freeze function.
- 3-speed fan, to meet every possible need.
- Timer for programming switch-off and switch-on.

DML 100 - 120

New R290 natural refrigerant gas.

ACCESSORIES AS STANDARD

DML100-120

— Wheels

— Cable fastener clamp

DML200

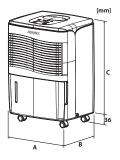
— Condensate discharge coupling

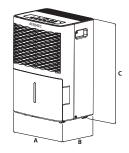
PERFORMANCE SPECIFICATIONS

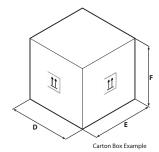
| | | DML100 | DML120 | DML200 |
|--------------------------------------|-----------|----------|-----------------|--------|
| Nominal performance (1) | | | | ' |
| Dehumidifying capacity | I/24h | 10,1 | 12,0 | 19,9 |
| Input power | W | 210 | 210 | 340 |
| Input current | A | 1,3 | 1,3 | 1,6 |
| Nominal performance (Standard EN 810 |) (2) | | | |
| Dehumidifying capacity | l/24h | 5,8 | 6,7 | 12,0 |
| Electric data | | | | |
| Rated power input (3) | W | 250 | 250 | 390 |
| Rated current input (3) | A | 1,5 | 1,5 | 2,6 |
| Hourly energy consumption | kWh/60min | 0,2 | 0,2 | 0,3 |
| Compressor | | | | |
| Туре | type | Recip | procating | Rotary |
| Refrigerant | type | | R290 | · |
| Refrigerant charge | g | 50 | 60 | 80 |
| Potential global heating | GWP | | 3 | |
| Equivalent CO ₂ | t | 0,15 | 0,18 | 0,24 |
| Fan | | | | |
| Туре | type | | Axial | |
| Air flow rate | | | | |
| Nominal | m³/h | 90 | 90 | = |
| Maximum | m³/h | - | - | 140 |
| Average | m³/h | - | - | 130 |
| Minimum | m³/h | - | - | 120 |
| Sound power | | | | |
| Nominal | dB(A) | 53,0 | 53,0 | - |
| Maximum | dB(A) | - | - | 52,0 |
| Average | dB(A) | - | - | 51,0 |
| Minimum | dB(A) | - | - | 49,0 |
| Sound pressure (4) | | | | |
| Nominal | dB(A) | 41,0 | 41,0 | - |
| Maximum | dB(A) | - | - | 42,0 |
| Average | dB(A) | - | - | 41,0 |
| Minimum | dB(A) | - | - | 39,0 |
| Condensate drainage basin | | <u> </u> | | |
| Capacity | l l | 1,5 | 1,5 | 3,2 |
| Power supply cable | | | | |
| Type of power supply cable | Туре | | Schuko | |
| Power supply | | | | |
| Power supply | | | 220-240V ~ 50Hz | |

⁽¹⁾ Indoor air temperature 30°C D.B. / 27°C W.B.
(2) Indoor air temperature 27°C b.s./21°C b.u. (Tested according to EN 810)
(3) Tested according to EN 60335.
(4) Sound pressure measured in semi anechoic chamber at a distance of 1 m from the source.

DIMENSIONS AND WEIGHTS







DML100-120

DML200

DML100 DML120 DML200 Dimensions and weights 310 340 310 mm mm 243 243 250 400 400 495 mm 345 345 421 mm 286 286 303 $\mathsf{m}\mathsf{m}$ 437 437 525 mm12,00 12,00 13,00 kg 13,00 13,00 Weight for transport 15,00 kg



DMH DMV

Dehumidifiers

Cooling Capacity 2,5kW ÷ 6,2kW Heating Capacity 2,8kW ÷ 6,2kW



DMH220 / DMH220C DMH360 / DMH360C



- Better performance compared to traditional dehumidifiers
- Reduced consumption
- Prevents condensation on the floor surface

Dehumidifiers are refrigerant cycle machines combined with radiant air-conditioning systems, from which they draw a certain water flow rate to increase the dehumidification efficiency and reduce electricity consumption.

The cooling systems employ chilled water at temperatures between 15°C and 20°C, which is enough to take the rooms to the desired temperature, but not suitable for dehumidification. To lower the latter, you would need water at 7°C, resulting in a reduction in the performance of the water chiller compared to when the water is produced at 15-20°C.

Water-cooled refrigerant cycle dehumidifiers are used to keep the air humidity at optimal values (55-65%) in rooms, with the following benefits compared to other systems:

- They employ the chilled water available in the radiant panel system;
- They are used to process the air without modifying its temperature and, therefore, without affecting the operation of the radiant panels and their adjustment system.

STRUCTURE: The galvanised sheet metal panels, lined on the inside with a soundproofing polyethylene covering.

FILTERING SECTION: Synthetic filtering baffle th. 12 mm made with a galvanised sheet metal frame, efficiency class G3, can be removed from the front.

COOLING CIRCUIT: consisting of a R134a alternative refrigerant compressor, freon filter, expansion capillary, evaporator and condenser with copper pipes and continuous louvered fin louvers, with hydrophilic treatment and aluminium frame (for "-C" cooling versions, water-freon condenser).

HYDRAULIC CIRCUIT: with pre-treatment and post-cooling coils featuring with copper pipes and continuous louvered fin louvers, with hydrophilic treatment and aluminium frame; for "-C" cooling versions, plate water condenser (no post-cooling); stainless steel condensate drip tray extended to the whole treatment.

FAN: double intake centrifugal fan with blades facing forwards, with multi-speed motor directly coupled; 3 different electrical connections available (H/M/L) for the functioning speed; the manufacturer's default setting is medium (M) speed.

ELECTRIC CONTROL BOARD: it includes the recessed electronic board to adjust and control the built-in control panel with a keyboard and LCD display.

ACCESSORIES

DMUM: ambient humidistat. Wall installation **DMWB**: outer casing for vertical model. Vertical installation

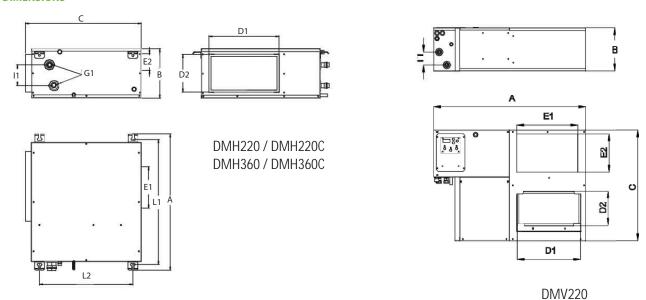
DMFP: front panel for outer casing. Vertical installation

TECHNICAL DATA

| MODEL | | DMH 220 | DMH 220C | DMH 360 | DMH 360C | DMV 220 |
|--|-------------------|---------|----------|--------------------------------|----------|---------|
| Condensed humidity | l/24h | 22 | 22 | 36 | 36 | 22 |
| Power at the evaporator | W | 1020 | 1020 | 1480 | 1480 | 1020 |
| Power dissipated with water | W | 870 | 1820 | 1540 | 2680 | 870 |
| Nominal water flow rate | m3/h | 0,34 | 0,39 | 0,46 | 0,55 | 0,34 |
| Water pressure drop | kPa | 3 | 3 | 10 | 10 | 3 |
| Available sensitive power | W | | 840 | | 1340 | |
| Electric power supply | V/ph/Hz | | | 230/1/50 | | |
| Total input power | W | 350 | 350 | 580 | 580 | 350 |
| Input current | Α | 2,0 | 2,0 | 3,2 | 3,2 | 2,0 |
| FAN | | | | | | |
| Туре | | | do | ouble intake centrifuç | gal | |
| Available fan speeds | | | | H/M/L | | |
| Nominal fan setting | | М | М | М | М | М |
| Air flow rate | m ³ /h | 220 | 220 | 360 | 360 | 220 |
| Useful static pressure | Pa | 20 | 20 | 20 | 20 | 0 |
| COMPRESSOR | | | | | , | |
| Туре | | | Re | ciprocating compres | sor | |
| Refrigerant | Tipo / GWP | | R′ | 134a / 1430kgCO ₂ 6 | eq | |
| Load amount | g | 340 | 340 | 400 | 400 | 340 |
| OPERATING LIMITS | | | | | | |
| Intake air temperature | °C | | | 15 ÷ 32 | | |
| Water inlet temperature (dehumidifying mode) | °C | | | 10 ÷ 21 | | |
| SOUND LEVEL | | | | | | |
| Sound pressure level at 1 m | dB(A) | 42 | 42 | 47 | 47 | 39 |

The performance refers to the nominal air flow rate under the following conditions: Ambient air: 26°C BS, UR 65%; Water inlet temperature 15°C .

DIMENSIONS



| MODEL | DIMENSIONS [mm] | | | | | | | | | | | |
|---------------------|-----------------|-----|-----|-----|-----|-----|-----|--------|-----|-----|--------|------|
| MODEL | Α | В | С | D1 | D2 | E1 | E2 | l1 | L1 | L2 | G1 | [kg] |
| DMH220 / DMH220C | 693 | 250 | 623 | 337 | 172 | 210 | 77 | 115 | 635 | 370 | 1/2" F | 35 |
| DMH360 / DMH360C | 793 | 270 | 623 | 437 | 192 | 250 | 95 | 115 | 735 | 370 | 1/2" F | 40 |
| DMV220 | 850 | 240 | 615 | 337 | 172 | 350 | 215 | 75 (*) | | | 1/2" F | 40 |

 $^{(*)\} pre-shearing\ for\ hydraulic\ and\ electrical\ connections\ on\ the\ side,\ rear\ and\ bottom\ panel$

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