

BLUEVOLUTION

Inverter Chillers & Heat Pumps

EWA(Y)T-CZ series





Why choose Daikin chiller & heat pump range?



Low environmental impact

The new R-32 Small Inverter Chiller provides the lowest direct and indirect CO2 emissions levels. That makes it an environmentally friendly series, also thanks to the use of R-32, which is known for being a low GWP and sustainable refrigerant.



Leadership in R-32 technology

Daikin can count on the highest number of R-32 installations around the world. This not only means being the most experienced, but also being the most knowledgeable and reliable brand producing R-32 technology.



Optimized system solutions

The management of multiple units in parallel as well as the advanced control logics for optimizing the heating and cooling production and fulfil domestic hot water needs provide to this new series a full set of key features.



Compact design

The new R-32 Small Inverter Chiller comes in three different layouts, all providing a very compact footprint despite the cooling/heating capacity they can deliver. The new series series represents a great solution for projects dealing with space issues.



Top class efficiency

This new series stands out for being able to provide the best efficiency levels in the market, both in cooling and heating mode, allowing substantial savings on energy bills.



Infinite application possibilities

The R-32 Small Inverter Chiller series has been designed to meet the needs of the widest possible range of applications, from process cooling applications, to residential, commercial and data centers applications. All that to provide customers with an extremely flexible solution to their needs.



Advanced connectivity

Complexity has been reduced by moving from hardware to software tools. Thanks to a newly designed Configuration App, it is possible to let the units of this series communicate with any external RMS



Widespread support network

Daikin customers, other than benefitting from the quality standards associated with the brand, they can benefit from Daikin's widespread network of installers and after sales support teams around the world.

Daikin technology at its best

Full Inverter Technology

- > Daikin design DC-Inverter scroll compressors
- Daikin design DC-Inverter fans
- Inverter pump kit both Low and High Lift

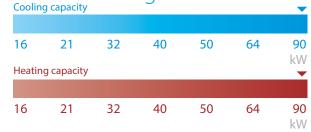
Low environmental impact

R-32 refrigerant



68% Lower GWP compared to R-410A

Extended range





Wide operating envelope



Hot water production

up to 60°C

for space heating or domestic hot water

down to -20°C

ambient temperature both in cooling and heating mode for the most critical applications

Chilled water production down to -15°C

for brine application

up to 52°C

ambient temperature operation suitable for the most extreme conditions

Achieving best performances



Top Full Load and Part Load

efficiencies for Comfort and Process applications both in Cooling and Heating modes

- > EER up to 3,22
- > SEER up to 5,76
- > SEPR up to 8,48
- > COP up to 3,46
- > SCOP AW35
 - up to 4,19 A⁺⁺
- > SCOP AW55
 - up to 3,02 A⁺

Multiple versions for different applications



- > Cooling Only or Heat pump versions
- > Naked, with low lift or high lift inverter pump kit as an option

Quiet operation



Down to

76 dB(A)

sound power, with the possibility of further reduction with quiet mode operation enabled

Enhanced Connectivity



- > User friendly control interface
- > Control by App (Next Step)
- > Daikin On Site
- > Modbus and Bacnet Communication*
- > Applications: radiators, fan coils, radiant floor, domestic hot water*
- *with an additional accessory

Fast delivery to site



Large stock availability allowing immediate satisfaction of customer's needs



Suitable for comfort & process applications



Working conditions

Heating guaranteed all year round and hot water production up to 60°C and cooling from -20°C up to 52°C in order to respond to all the different climatic areas installation needs.



Capacity range and layout











16-25 kW

32-50 kW

64-90 kW



Full inverter technology

SEER up to 5,76 | SCOP up to 4,19 | SEPR up to 8,48

The most advanced technology with highest efficiency and quality standards.

Unrivaled and proven reliability thanks to testing of chillers and components in different locations even at extreme working conditions.

Daikin's Scroll compressors can benefit from Inverter technology that increases series' efficiency performance, both at full load and part load, which is very advantageous, as chillers and heat pumps usually operate at part load conditions for most of their operating time.

Great energy efficiency levels are also granted by the Inverter Driven Fans, which, along with the Inverter Scroll Compressors, make this new R-32 Small Inverter Chiller a full Inverter series.

The **operating range** of the unit can be extended up to the standard operating limit of the unit thanks to the HIGH AMBIENT TEMPERATURE KIT and a specific electrical design for high ambient temperatures (up to 52°C).





Plant management & connectivity

Master/Slave or Modbus RTU are standard to ensure a perfect plant Connectivity.

Remote monitoring and system optimization with Daikin proprietary cloud platform Daikin on Site.

- > Predictive maintenance to prevent breakdowns
- > Visualize energy consumption to reduce energy costs
- > Monitor and control your building no matter where you are via the Daikin On Site
- Remote diagnostic support to increase your system lifetime
- > Manage Multiple sites



Dashboards



Diagnostics



Remote software upgrade



EWAT-CZ

- > Inverter controlled scroll compressor with refrigerant R-32
- > High efficiency with leader-of-class SEER.
- > Application range cooling air side -20°C to +52°C
- > Application range cooling water side -15°C to +25°C
- > Available with Inverter pump kit both low and high lift
- Optional advanced connectivity kit including: connectivity to any BMS, Daikin on Site and the Daikin App for fast commissioning



Unit size		EWAT-CZN/C	CZP/CZH	016	021	025	032	40- MONO	40- DUAL	050	064	090
EWAT-CZN (with	out pump)(1)		€	9.779,-	11.279,-	12.804,-	14.893,-	17.843,-	19.602,-	21.649,-	24.964,-	33.654,-
EWAT-CZP (with	low lift pump)(2)		€	10.960,-	12.828,-	14.303,-	16.807,-	19.755,-	21.471,-	23.734,-	27.367,-	36.035,-
EWAT-CZH (with	high lift pump) ⁽	3)	€	11.300,-	13.218,-	14.693,-	17.378,-	20.444,-	22.161,-	24.519,-	27.957,-	39.159,-
Cooling capacity	Nom.		kW	15,9 (1)/16,1 (2)/16,2 (3)				39,6 (1)/39,9 (2)/40,1 (3)		50,8 (1)/51,1 (2)/51,3 (3)	64 (1)/64,4 (2)/64,5 (3)	88,3 (1)/88,8 (2)/88,9 (3)
	Max.		kW	18,3 (1)/18,6 (2)/18,7 (3)			38,6 (1)/38,9 (2)/39,1 (3)	45,2 (1)/45,6 (2)/45,7 (3)	49,6 (1)/50 (2)/50,1 (3)	58,2 (1)/ 58,6(2)/58,7 (3)	72,7 (1)/ 73,3 (2)/73,4 (3)	98,3 (1)/ 98,8 (2)/98,9 (3)
Power input	Cooling	Nom.	kW	5,5 (1)/5,45 (2)/5,6 (3)	6,6 (1)/6,56 (2)/6,7 (3)	8,5 (1)/8,48 (2)/8,7 (3)		13,4 (1)/13,3 (2)/13,5 (3)		17 (1)/16,9 (2)/17 (3)	21,8 (1)/21,9 (2)/22 (3)	31 (1)/31,1 (2)/31,2 (3)
Capacity control	Method						Inv	erter control	led			
	Minimum capacity		%	18	14	12	19	15	14	12	15	14
EER				2,90 (1)/2,96	3,16 (1)/3,22	3,00 (1)/3,05	3,13 (1)/3,18	2,95 (1)/3,00	3,12 (1)/3,17	2,98 (1)/3,03	2,93 (1)/2,95	2,84 (1)/2,85
								(2)/2,97 (3)				
SEER								5,09 (1)/5,36				
				(2)/5,20 (3)				(2)/5,34 (3)				(2)/5,12 (3)
ηs,c			%	(2)/205 (3)	197 (1)/213 (2)/210 (3)	(2)/211 (3)		201 (1)/211 (2)/210 (3)			205 (1)/211 (2)/208 (3)	198 (1)/204 (2)/202 (3)
Dimensions	Unit	Height	mm					1.878				
		Width	mm		1.552		1.7	752	2.3	806	2.906	3.506
		Depth	mm			802				81	14	
Weight	Unit		kg	222 (1)/256 (2) (3)	245 (1)/2	278 (2) (3)	340 (1)/383 (2) (3)	339 (1)/382 (2) (3)	480 (1)/5	31 (2) (3)	574 (1)/630 (2) (3)	672 (1)/727 (2) (3)
Sound power level Cooling Nom. dBA		7	76 78 79				80 81 83 85					
Refrigerant	Circuits	Quantity		1 2								
Power supply	Power supply Phase/Frequency/Voltage Hz/V			3N~/50/400								

Options

Code	EWAT-CZN/CZ	016	021	025	032	40- MONO	40- DUAL	050	064	090	
191	Antifreeze protection electric heater(4)	€	722,-	722,-	722,-	722,-	722,-	722,-	722,-	722,-	722,-
192	High ambient temperature kit ⁽⁵⁾ €		236,-	236,-	236,-	236,-	236,-	236,-	236,-	236,-	236,-
218	Partial heat recovery(6)	€	910,-	914,-	914,-	1.027,-	1.027,-	1.494,-	1.494,-	1.635,-	1.748,-

Accessories

Code	de EWAT-CZN/CZP/CZH			021	025	032	40- MONO	40- DUAL	050	064	090
EKRSCTMS	Temperature sensor for master/slave configuration	€	95,-	95,-	95,-	95,-	95,-	95,-	95,-	95,-	95,-
EKRSCSM	Daikin on Site kit modem + antenna €		329,-	329,-	329,-	329,-	329,-	329,-	329,-	329,-	329,-
EKRSCBMS	BMS and connectivity kit (Modbus TCP-IP, Bacnet TCP-IP and MSTP/IP)	€	410,-	410,-	410,-	410,-	410,-	410,-	410,-	410,-	410,-
EKRSCIO	I/O extension module for VPF, setpoint reset, current limit, demand limit and DHW	€	298,-	298,-	298,-	298,-	298,-	298,-	298,-	298,-	298,-
EKRSCDP	Differential Pressure Transducer 0-5 bar for VPF applications (7)	€	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-

All the cooling performances (cooling capacity, unit power input in cooling and EER) are based on the following conditions: 12.0/7.0°C; ambient 35.0°C, unit at full load operation; operating fluid: water; fouling factor = 0. EN14511:2018. SEER is calculated in accordance with the regulation No. 2281/2016 and standard EN14825 for information only, unless the unit is a "cooling-only" type. Performances according to CSS software 10.29

⁽¹⁾ EWAT-CZN: version without pump. (2) EWAT-CZP: version with pump low lift. (3) EWAT-CZH: version with pump high lift.

⁽⁴⁾ Selecting option 191, material name changes as follow: EWA(Y)T-CZ / N - P- H / $\bf B$ / 1 - 2

⁽⁵⁾ Selecting option 192, material name changes as follow: EWA(Y)T-CZ / N - P- H / \boldsymbol{A} / 1 - 2

⁽⁶⁾ Partial heat recovery option is including the option 191. Selecting option 218, material name changes as follow: EWA(Y)T-CZ / N - P- H / C / 1 - 2

⁽⁷⁾ In case of Variable Primary Flow Control (VPF) two pieces are needed to be ordered

EWYT-CZ

- > Inverter controlled scroll compressor with refrigerant R-32
- > High efficiency with leader-of-class SEER and SCOP
- > Application range cooling air side -20°C to +52°C
- > Application range cooling water side -15°C to +25°C
- > Application range heating air side -20°C to +35°C
- > Application range heating water side +20°C to +60°C
- > Available with inverter pump kit both low and high lift
- > Optional advanced connectivity kit including: connectivity to any BMS, Daikin on Site and the Daikin App for fast commissioning



Unit size			EWYT-CZN/CZP/CZF	016	021	025	032	40 - MONO	40 - DUAL	050	064	090
EWYT-CZN (with	nout pump) ⁽¹⁾		€	11.055,-	12.928,-	14.676,-	17.152,-	20.491,-	22.553,-	24.718,-	28.892,-	36.633,-
EWYT-CZP (with	low lift pump)(2)	€	12.136,-	14.399,-	16.167,-	18.991,-	22.752,-	24.618,-	27.122,-	31.428,-	41.543,-
EWYT-CZH (witl	n high lift pump)	(3)	€	12.728,-	14.840,-	16.562,-	19.313,-	23.637,-	25.305,-	27.763,-	32.018,-	42.141,-
Cooling capacity	Nom.		kW	15,9 (1)/16,1 (2)/16,2 (3)	20,9 (1)/21,1 (2)/21,2 (3)	25,6 (1)/25,9 (2)/25,9 (3)	32,4 (1)/32,7 (2)/32,8 (3)	39,6 (1)/39,9 (2)/40,1 (3)	41,4 (1)/41,7 (2)/41,8 (3)	50,8 (1)/51,1 (2)/51,3 (3)	64 (1)/64,4 (2)/64,5 (3)	88,3 (1)/88,8 (2)/88,9 (3)
	Max.		kW	18,3 (1)/18,6 (2)/18,7 (3)		29,3 (1)/29,6 (2)/29,6 (3)		45,2 (1)/45,6 (2)/45,7 (3)	49,6 (1)/50 (2)/50,1 (3)	58,2 (1)/ 58,6(2)/58,7 (3)	72,7 (1)/ 73,3 (2)/73,4 (3)	98,3 (1)/ 98,8 (2)/98,9 (3)
Heating capacity	Nom.		kW	15,9 (1)/15,62 (2)/15,5 (3)	20,2 (1)/19,93 (2)/19,8 (3)	24,8 (1)/24,6 (2)/24,5 (3)	32,4 (1)/32,08 (2)/32 (3)	39,4 (1)/39 (2)/38,9 (3)	40,3 (1)/40,01 (2)/39,9 (3)	49,8 (1)/49,49 (2)/49,4 (3)	61,9 (1)/61,43 (2)/61,3 (3)	85,8 (1)/85,33 (2)/85,2 (3)
	Max.		kW	18,3 (1)/18 (2)/18 (3)	24,3 (1)/24 (2)/23,9 (3)	28,7 (1)/28,4 (2)/28,3 (3)	36,5 (1)/36,2 (2)/36,1 (3)	44,7 (1)/44,3 (2)/44,2 (3)	48,7 (1)/48,4 (2)/48,3 (3)	57,3 (1)/ 58,9 (2)/56,7 (3)	69,2 (1)/68,7 (2)/68,6 (3)	94,7 (1)/ 94,1 (2)/94 (3)
Power input	Cooling	Nom.	kW	5,5 (1)/5,45 (2)/5,6 (3)	6,6 (1)/6,56 (2)/6,7 (3)	8,5 (1)/8,48 (2)/8,7 (3)	10,3 (1)/10,3 (2)/10,4 (3)		13,2 (1)/13,2 (2)/13,3 (3)	17 (1)/16,9 (2)/17 (3)	21,8 (1)/21,9 (2)/22 (3)	31 (1)/31,1 (2)/31,2 (3)
	Heating	Nom.	kW	4,7 (1)/4,63 (2)/4,8 (3)	5,8 (1)/5,81 (2)/6 (3)	7,5 (1)/7,42 (2)/7,6 (3)	9,4 (1)/9,32 (2)/9,5 (3)		11,9 (1)/11,8 (2)/12 (3)	15,4 (1)/15,3 (2)/15,4 (3)		27,2 (1)/27,3 (2)/27,4 (3)
Capacity control	Method				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			verter controll			, , , , , , , , ,	, , , , ,
,	Minimum capacity		%	18	14	12	19	15	14	12	15	14
EER				2,9 (1)/2,96 (2)/2,89 (3)	3,16 (1)/3,22 (2)/3,15 (3)	3 (1)/3,05 (2)/2,98 (3)	3,13 (1)/3,18 (2)/3,14 (3)	2,95 (1)/3 (2)/2,97 (3)	3,12 (1)/3,17 (2)/3,15 (3)	2,98 (1)/3,03 (2)/3,02 (3)	2,93 (1)/2,95 (2)/2,93 (3)	2,84 (1)/2,85 (2)/2,85 (3)
COP				3,41 (1)/3,37 (2)/3,24 (3)	3,46 (1)/3,43 (2)/3,31 (3)	3,33 (1)/3,31 (2)/3,22 (3)	3,45 (1)/3,44 (2)/3,37 (3)	3,33 (1)/3,33 (2)/3,28 (3)	3,38 (1)/3,38 (2)/3,33 (3)	3,24 (1)/3,23 (2)/3,2 (3)	3,23 (1)/3,2 (2)/3,17 (3)	3,16 (1)/3,13 (2)/3,12 (3)
SEER				5 (1)/5,3 (2)/5,2 (3)	5 (1)/5,41 (2)/5,32 (3)	5,06 (1)/5,41 (2)/5,34 (3)	5,21 (1)/5,7 (2)/5,67 (3)	5,09 (1)/5,36 (2)/5,34 (3)	5,41 (1)/5,76 (2)/5,76 (3)	5,33 (1)/5,48 (2)/5,4 (3)	5,21 (1)/5,34 (2)/5,27 (3)	5,03 (1)/5,18 (2)/5,12 (3)
ηs,c			%	197 (1)/209 (2)/205 (3)	197 (1)/213 (2)/210 (3)	200 (1)/213 (2)/211 (3)	205 (1)/225 (2)/224 (3)	201 (1)/211 (2)/210 (3)	213 (1)/228 (2)/227 (3)	210 (1)/216 (2)/213 (3)	205 (1)/211 (2)/208 (3)	198 (1)/204 (2)/202 (3)
Space heating	Average climate water outlet 35°C	General	ns (Season- al space % heating efficiency)	153 (1)/158 (2)/152 (3)	157 (1)/165 (2)/159 (3)	160 (1)/165 (2)/160 (3)	159 (1)/164 (2)/161 (3)	160 (1)/164 (2)/162 (3)	158 (1)/165 (2)/163 (3)	157 (1)/162 (2)/161 (3)	156 (1)/157 (2)/155 (3)	157 (1)/159 (2)/157 (3)
			SCOP Low Temp.	3,89 (1)/4,03 (2)/3,88 (3)	4 (1)/4,19 (2)/4,06 (3)	4,07 (1)/4,19 (2)/4,08 (3)	4,06 (1)/4,18 (2)/4,11 (3)	4,07 (1)/4,18 (2)/4,13 (3)	4,02 (1)/4,19 (2)/4,14 (3)	4 (1)/4,12 (2)/4,09 (3)	3,98 (1)/4,01 (2)/3,94 (3)	4 (1)/4,04 (2)/4 (3)
			Seasonal space heating eff. Class	A++	A++	A++	A++	A++	A++	A++	A++	A++
Dimensions	Unit	Height	mm					1.878				
		Width	mm	1	1.552		1.7	752	2.3	306	2.906	3.506
		Depth	mm			802					14	
Weight	Unit		kg	227 (1)/261 (2) (3)	252 (1)/2	86 (2) (3)	350 (1)/393 (2) (3)	349 (1)/392 (2)(3)	494 (1)/5	46 (2) (3)	588 (1)/644 (2) (3)	693 (1)/749 (2) (3)
Sound power level	Cooling	Nom.	dBA	7	76	78	79	8	0	81	83	85
Refrigerant	Circuits	Quantity				1					2	
Power supply	Phase/Frequency/ Voltage		Hz/V					3N~/50/400				

Options

Code	EWYT-CZN/CZP/	016	021	025	032	40 - MONO	40 - DUAL	050	064	090	
191	Antifreeze protection electric heater ⁽⁴⁾	€	723,-	723,-	723,-	723,-	723,-	723,-	723,-	723,-	723,-
192	High ambient temperature kit(5)	€	237,-	237,-	237,-	237,-	237,-	237,-	237,-	237,-	237,-
218	Partial heat recovery ⁽⁶⁾ €		910,-	914,-	914,-	1.027,-	1.027,-	1.494,-	1.494,-	1.635,-	1.748,-

Accessories

Code	EWYT-CZN/CZP/CZH			021	025	032	40- MONO	40- DUAL	050	064	090
EKRSCTMS	Temperature sensor for master/slave configuration	€	95,-	95,-	95,-	95,-	95,-	95,-	95,-	95,-	95,-
EKRSCSM	aikin on Site kit modem + antenna €		329,-	329,-	329,-	329,-	329,-	329,-	329,-	329,-	329,-
EKRSCBMS	BMS and connectivity kit (Modbus TCP-IP, Bacnet TCP-IP and MSTP/IP)	€	410,-	410,-	410,-	410,-	410,-	410,-	410,-	410,-	410,-
EKRSCIO	I/O extension module for VPF, setpoint reset, current limit, demand limit and DHW	€	298,-	298,-	298,-	298,-	298,-	298,-	298,-	298,-	298,-
EKRSCDP	Differential Pressure Transducer 0-5 bar for VPF applications (7)	€	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-	1.987,-

⁽¹⁾ EWYT-CZN: version without pump. (2) EWYT-CZP: version with pump low lift. (3) EWYT-CZH: version with pump high lift.

All the cooling performances (cooling capacity, unit power input in cooling and EER) are based on the following conditions: 12.07.0°C; ambient 35.0°C, unit at full load operation; operating fluid: water; fouling factor = 0. ENI451:2018. All the heating performances (heating capacity, unit power input in heating and COP) are based on the following conditions: 40.0/45.0°C; ambient 7.0°C, unit at full load operation; operating fluid: water; fouling factor = 0. ENI451:2018. SEER is calculated in accordance with the regulation No. 2281/2016 and standard ENI4825 for information only, unless the unit is a "cooling-only" type. The values of Low Temperature SCOP and ns are calculated in accordance with the Ecodesign regulation No. 813/2013 and the standard EN 14825-2018.

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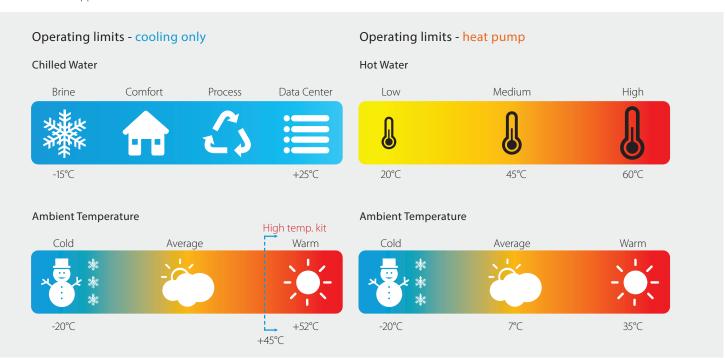


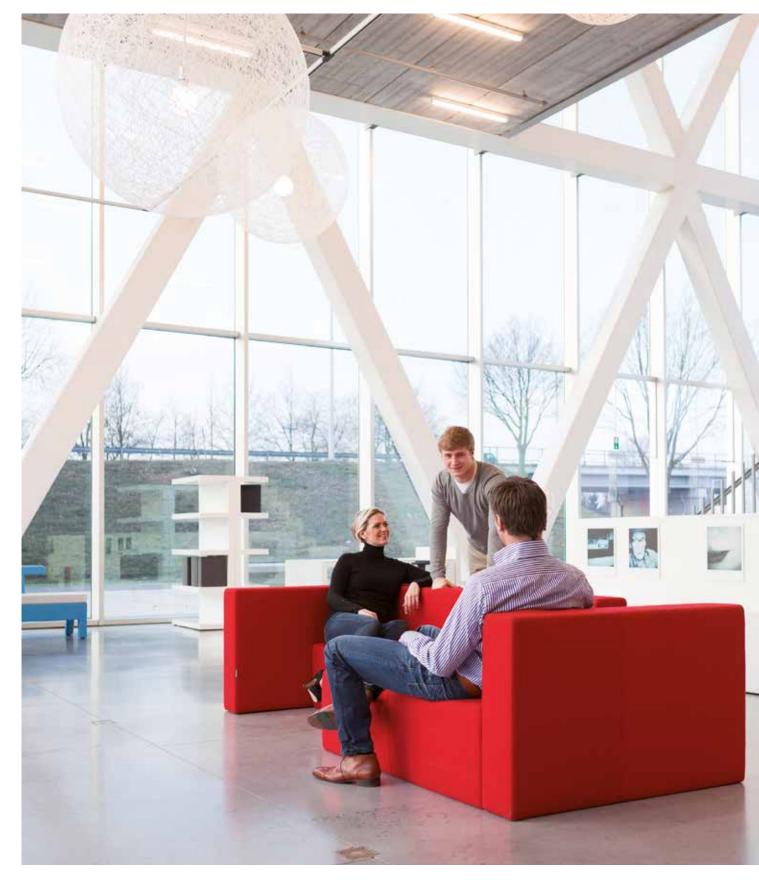


EWAT-CZ Air Cooled chiller & EWYT-CZ Heat Pump at a glance

- Top class efficiency: SEER up to 5,76, SEPR up to 8,48 and SCOP(AW35) up to 4,197
- > Cooling Only and Heat Pump availability
- > Extended capacity range: 16 90 kW
- > Environmentally friendly series with R-32 refrigerant: low GWP and low direct and indirect CO, emissions levels
- > Inverter scroll compressors for hot water production up to 60 ° C
- New series extremely flexible with a wide range of applications from process cooling, to residential, commercial and data centers applications

- > Condenser fan silent mode option
- > Inverter pump kit option with both low and high lift available
- > One or two independent refrigerant circuits with one or two inverter scroll compressors
- > Full compatibility with Daikin on Site
- Master/Slave option available as standard, allowing to connect up to 4 units working as single system
- > High temperature kit as option for operation up to + 52 $^{\circ}$ C Outside temperature





DAIKIN AIRCONDITIONING CENTRAL EUROPE HandelsgmbH

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