Omnia HL

Fan coil for universal and floor installation

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

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

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
LM Grey cabinet with self-closing louver and electronic thermostat
M Metallic grey cabinet with switch
N White cabinet with electronic thermostat VMF
NM Grey cabinet with electronic thermostat VMF
PC White cabinet with electronic thermostat and Cold Plasma purifier
PCM Grey cabinet with electronic thermostat and Cold Plasma purifier
S Metallic withe cabinet without control board
SM Metallic grey cabinet without control board

FEATURES

Case

Top design metal protection cabinet with rounded design and painted with anti-corrosion polyester powders:
Color White
— Cover RAL 9003
— Top and supports RAL 7044.
Color Grey
— Cover FIAT 656
— Top and supports RAL 7031.
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 fins, 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.
In the PC and PCM versions, air purification is guaranteed by the Cold Plasma 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.
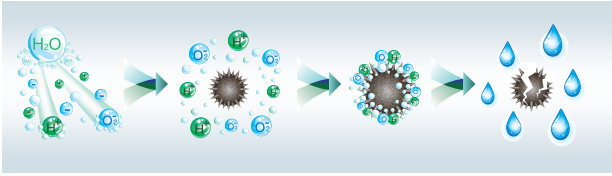
ACCESSORIES

AER503: Wall-mounted panel.
FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems.
PX2: Commutator switch.
PX2C6: Commutator switch. Kit to 6 pz.
SA5: Air temperature probe.
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.
SIT5: 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 up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.
SW3: Water temperature probe. Allows automatic season change on electronic controllers supplied with water-side change over.
SW5: Water temperature probe.
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.
TPFW: Electronic thermostat, white, with thermostated or continuous ventilation.
TX: Electronic control panel.
WMT05: Electronic thermostat with thermostated ventilation.
WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.
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-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).
VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.
VMF-IO: Expansion board that expands the availability of Digital Inputs and Outputs, configurable via dip switches.
VMF-LON: Expansion that allows interfacing with a thermostat with BMS systems using the LON protocol.
VMF-SIT3: Interface card that permits connecting the VMF-E19 thermostats to a fan coil with a high power motor.
AMP: Wall mounting kit
DSC: Condensate drainage device.
ZXZ: Pair of stylish and structural gray feet with skirting board.
VCH: 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.
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.
BC: Condensate drip.
PCH: Back closing panel gray

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

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	11	16	26	36
AER503	S,SM	•	•	•	•
FMT10	S,SM	•	•	•	•
PX2	S,SM	•	•	•	•
PX2C6 (1)	S,SM	•	•	•	•
SA5	S,SM	•	•	•	•
SIT3 (2)	S,SM	•	•	•	•
SIT5 (2)	S,SM	•	•	•	•
SW3 (3)	S,SM	•	•	•	•
SW5	S,SM	•	•	•	•
SWA	S,SM	•	•	•	•
TPF	S,SM	•	•	•	•
TPFW	S,SM	•	•	•	•
TX	S,SM	•	•	•	•
WMT05	S,SM	•	•	•	•
WMT10	S,SM	•	•	•	•

(1) Only wall-mount installation
(2) Cards for PXAE-PXAR-AER503-TX thermostats if present.
(3) Cards for PXAE-PXAR-AER503-TX thermostats if present.

VMF system

Model	Ver	11	16	26	36
VMF-E19	S,SM	•	•	•	•
VMF-E2H	S,SM	•	•	•	•
VMF-E4DX	S,SM	•	•	•	•
VMF-E4X	S,SM	•	•	•	•
VMF-I0	S,SM	•	•	•	•
VMF-LON	S,SM	•	•	•	•
VMF-SIT3 (1)	S,SM	•	•	•	•

(1) For the selection, consult the documentation for the thermostat and the fan coil.

Condensate drip

Ver	11	16	26	36
HL,L,LM,M,N,NM,PC,PCM,S,SM	BC10 (1), BC20 (2)	BC10 (1), BC20 (2)	BC10 (1), BC20 (2)	BC10 (1), BC20 (2)

(1) For vertical installation.
(2) For horizontal installation.

Condensate drainage

Model	Ver	11	16	26	36
DSC5 (1)	HL,L,LM,M,N,NM,PC,PCM,S,SM	•	•	•	•

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

Wall mounting kit

Ver	11	16	26	36
HL,L,LM,M,N,NM,PC,PCM	AMP10	AMP10	AMP10	AMP10

3 way valve kit

Ver	11	16	26	36
HL,M,N,NM,PC,PCM,S,SM	VCH	VCH	VCH	VCH

2 way valve kit

Ver	11	16	26	36
HL,M,N,NM,PC,PCM,S,SM	VCHD	VCHD	VCHD	VCHD

Pair of stylish structural feet

Model	Ver	11	16	26	36
ZH1	HL,L,N,PC,S	•	•	•	•
ZH1B	HL,L,N,PC,S	•	•	•	•
ZH1M	LM,M,NM,PCM,SM	•	•	•	•
ZH1MB	LM,M,NM,PCM,SM	•	•	•	•

PERFORMANCE SPECIFICATIONS

2-pipe

|		HL11			HL16			HL26			HL36		
		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	3,53	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	0,73	1,05	1,90	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	92	126	174	126	183	331	249	331	399	305	420	513
Pressure drop system side	kPa	1	1	2	1	3	8	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													
Type	type					Centrifugal							
Fan motor	type					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
Sound data fan coils (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
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 sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

DIMENSIONS
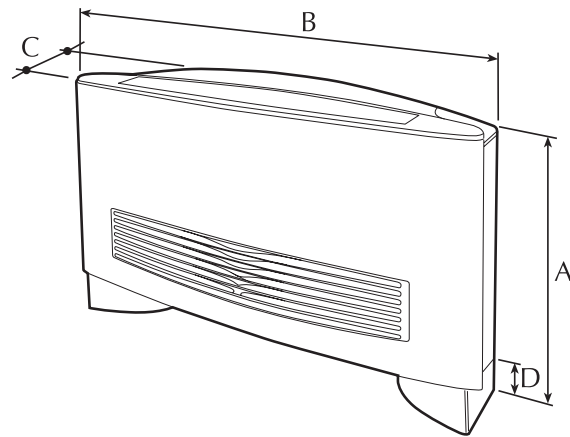
Size		11	16	26	36
Dimensions and weights					
A	mm	600	605	615	623
B	mm	640	750	980	1200
C	mm	187	189	191	198
D	mm	93	93	93	93
Weight empty	kg	14	15	18	21

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.