

Omnia UL

Fan coils
Universal installations for residential applications



Aermec participate in the EUROVENT program: FCH the products are present on the site www.eurovent-certification.com



Variable Multi Flow[®]
VMF



Plasmacluster
(only for Omnia UL PC)

White colour:

- ☐ cover: RAL 9002
- ☐ top and supports: RAL 7044

Features

- UL (Universal Line) fan coils for both horizontal and vertical installation
- **Versions:**
 - UL-S: version without switch, with cabinet. Compatible with VMF System
 - UL: version with switch and cabinet
 - UL-C: version with electronic thermostat and with cabinet
 - UL-PC: version with electronic thermostat and Plasmacluster filter (factory-mounted only) and cabinet
- **Versions compatible with VMF System.**
- **Fan cleaning:** Omnia fan coils allow fan blades to be easily cleaned. It is now possible to remove the fan volute (it contains the fan blades) and clean it periodically.
- **Condensate drip tray cleaning:** Thanks to a new drip tray fitting, it is now easier to clean it with Omnia fan coils. This important solution avoids, in the long run, bacteria, germs and mould to grow up, in the drip tray

because of the air humidity.

- **Precharged electrostatic filter:** Omnia fan coils have, as standard, precharged electrostatic filters. These filters, thanks to their special execution, attracts and retains all suspended dust particles, thus guaranteeing pure breathable air to the whole family.
- **PLASMACLUSTER ionising filter:** Plasmacluster is capable of reducing the level of pollutants, by decomposing the molecules that form them. Using a series of electric shocks, "Plasmacluster" causes the water molecules present in the air to separate into positive and negative ions. These ions neutralise the gas pollutant molecules, forming products that are normally present in clean air. The result is in the air: you can finally breathe clean, odour-free ionised air.
- **Silent operation:** Thanks to the use of special centrifugal fans, Omnia fan coils operation is extremely silent and offers the maximum

acoustic comfort.

- 3-speed centrifugal fan
- Very quiet operation
- Aesthetically styled with soft flowing lines
- Adjustable air delivery louver
- Automatic power-off function with closure of the air delivery louver
- Slim dimensions
- Electronic temperature control, automatic fan speed change, automatic season changeover and automatic on - off (with electronic thermostat)
- Water connections reversibility during installation
- Low pressure drop across heat exchanger
- Motors with permanently connected condensers
- Easy installation and maintenance
- Air filter easy to remove and to clean
- Full compliance with safety regulations

Accessories

- **AMP:** Kit for wall/ceiling mounting. Standard on P and S versions.
- **BC:** Auxiliary condensate drip tray.
BC 10 for vertical installation
BC 20 for horizontal installation
- **DSC5:** Condensate drainage device for use when natural run-off is not possible. DSC5 is not compatible BC10 - BC20 accessories.
- **GU:** Aspiration grille, covers the front space between the stands, does not interfere with the air filter. **Use with ZU stands compulsory.**
- **PCU:** Rear cover panel.
- **SIT 3-5:** Thermostat interface cards. They allow to set up a fancoils network (max. 10) commanded by a centralised panel (switch or thermostat).

SIT3: commands the three speeds of the fan and must be installed on each fancoil of the network; it receives the commands from the switch or from the SIT5 card.

SIT5: commands the 3 fan speeds and up to two valves (four-pipe systems); it sends the thermostat commands to the fancoils network.

- **SW:** Water probe wich enables automatic season change-over thanks to the specific electronic thermostats.
- **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 automati-

cally 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.

- **VCH:** Kit comprising motorized 3-way valve, unions and copper pipes.
- **VCHD:** Kit comprising motorized 2-way valve, unions and copper pipes.
- **ZU:** Feet for floor-standing solutions.
- **Control panels and VMF System:** The control panels are described in a separate document.

Omnia UL S C PC	vers.	11	16	26	36
FMT21	S	•	•	•	•
PX2 o PX2C6	(1) S	•	•	•	•
PXAE	S	•	•	•	•
PXLM	S	•	•	•	•
TPF	S	•	•	•	•
WMT05	S	•	•	•	•
WMT10	S	•	•	•	•
VMF-E4 o E4D	S	•	•	•	•
VMF-E0 o E1	S	•	•	•	•
AMP10	UL-C-PC	•	•	•	•
BC10	all	•	•	•	•
BC20	all	•	•	•	•
DSC5	(2) all	•	•	•	•
SIT3	S	•	•	•	•
SIT5	S	•	•	•	•
SW3	all	•	•	•	•
SWA	S	•	•	•	•
VCH	all	•	•	•	•
VCHD	all	•	•	•	•
ZU	UL-S-C-PC	•	•	•	•

(1) PX2C6, PX2 panel in multiple 6-piece pack.

(2) The DSC5 accessory is not compatible BC10 - BC20 accessories.

Technical data

Mod.	Vel.	UL11	UL16	UL26	UL36
HEATING PERFORMANCE (2 PIPE CONFIGURATION)					
Heating capacity (70°C)	(1) W	H	2010	2910	4620
	(1) W	M	1460	2120	3830
	(1) W	L	1060	1540	2890
Water flow rate	(1) l/h	H	176	255	405
	(1) l/h	M	128	186	336
	(1) l/h	L	93	135	253
Pressure drop	(1) kPa	H	2	4	11
	(1) kPa	M	1	2	8
	(1) kPa	L	1	1	5
Heating capacity (50°C)	(2) W	H	1150	1700	2750
	(2) W	M	870	1250	2240
	(2) W	L	650	930	1670
Water flow rate	(2) l/h	H	144	206	349
	(2) l/h	M	117	153	289
	(2) l/h	L	93	122	220
Pressure drop	(2) kPa	H	2	4	10
	(2) kPa	M	1	2	7
	(2) kPa	L	1	2	4
COOLING PERFORMANCE					
Total cooling capacity	(3) W	H	840	1200	2030
	(3) W	M	680	890	1680
	(3) W	L	540	710	1280
Sensible cooling capacity	(3) W	H	700	990	1640
	(3) W	M	530	710	1330
	(3) W	L	390	540	990
Water flow rate	(3) l/h	H	144	206	349
	(3) l/h	M	117	153	289
	(3) l/h	L	93	122	220
Pressure drop	(3) kPa	H	1,9	4,8	11
	(3) kPa	M	1	3	9
	(3) kPa	L	1	2	5
Air flow rate	m ³ /h	H	180	240	350
	m ³ /h	M	120	160	270
	m ³ /h	L	80	110	190
Fans	type		Centrifugal		
	n°		1	1	2
Absorbed power	W	H	18	32	35
	W	M	12	25	27
	W	L	8	23	24
Max. input current	(A)		0,09	0,15	0,18
Sound power level	(4) dB(A)	H	46	48	48
	(4) dB(A)	M	37	43	43
	(4) dB(A)	L	31	34	35
Sound pressure level	(5) dB(A)	H	37,5	39,5	39,5
	(5) dB(A)	M	28,5	34,5	34,5
	(5) dB(A)	L	22,5	25,5	26,5
Water content	l		0,4	0,5	0,8
Coil connections	ø		1/2"	1/2"	1/2"
Speed connected		H	V3	V3	V3
		M	V2	V2	V2
		L	V1	V1	V1
Power supply			230V/1/50Hz		

H max. speed; **M** med. speed; **L** min. speed

Heating mode

2 pipes system configuration

(1) Room air temperature 20°C b.s.; Inlet water temperature 70°C; ΔT water 10°C

2 pipes system configuration (EUROVENT)

(2) Room air temperature 20°C b.s.; Inlet water temperature 50°C; Water flow rate as in cooling mode

Cooling mode (EUROVENT)

(3) Room air temperature 27°C b.s./19°C b.u.; Inlet water temperature 7°C; ΔT water 5°C

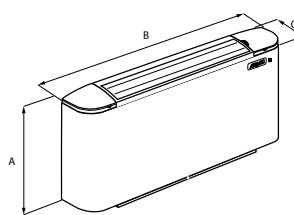
(4) **Sound power level** on the basis of measurements made in compliance with Eurovent 8/2

(5) **Sound pressure level** (A-weighted) measured in the room with volume V=85m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

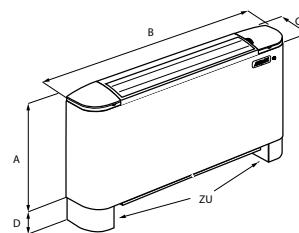
Note: For more information, please refer to the program selection and the technical documentation available on the website www.aermec.com

Dimensions (mm)

Mod Omnia		UL 11	UL 16	UL 26	UL 36
Height	A	513	513	513	513
Width	B	640	750	980	1200
Depth	C	173	173	173	173
Height with feet	D	93	93	93	93
Weight	kg	12,5	13,5	16,5	19,5



Wall installation



Floor installation

Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

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