

Omnia HL

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



Plasmacluster

(only for Omnia HL PC and PCM)



Variable Multi Flow

VMF

GIUGIARO
DESIGN

White colour:

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

Grey colour:

- cover: FIAT 656
- top and supports: RAL 7031

Features

- HL (High Line) fan coils for both horizontal and vertical installation
- 4 sizes and 12 versions:
 - HL:** white body with switch
 - HL M:** metallic grey body with switch
 - HL N:** white body with electronic thermostat VMF
 - HL NM:** metallic grey body with electronic thermostat VMF
 - HL L:** white cabinet with Self-Closing Louver and electronic thermostat
 - HL LM:** grey cabinet with Self-Closing Louver and electronic thermostat
 - HL PC:** white body with electronic thermostat and Plasmacluster filter (factory-mounted only)
- HL PCM:** metallic grey body with electronic thermostat and Plasmacluster filter (factory-mounted only)
- HL S:** white body with no on-board controls VMF System compatible
- HL SM:** metallic grey body with no on-board controls. VMF System compatible
- 3-speed centrifugal fan
- Very quiet operation
- Aesthetically styled with soft flowing lines
- New 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
- Full compliance with safety regulations

Accessories

- AMP:** Kit for wall/ceiling mounting. Standard on S and SM 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.
- PCH - PCHM:** Back closing panel, white (PCHM) or gray (PCHM).
- 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 which 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 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.
- VCH:** Kit comprising motorized 3-way valve, unions and copper pipes.
- VCHD:** Kit comprising motorized 2-way valve, unions and copper pipes.
- ZH1:** White feet for floor-standing installations
- ZH1B:** White feet for floor-standing installations with skirting board.
- ZH1M:** Gray feet for floor-standing installations
- ZH1MB:** Gray feet for floor-standing installations with skirting board.
- Control panels and VMF system:** the characteristics of the control panels are described on the appropriate card.

Omnia HL	11	16	26	36	Versions
FMT10-FMT21	S-SM
PX2- PX2C6	S-SM
PXAE	S-SM
TPF	S-SM
WMT05- WMT10	S-SM
VMF-E4- VMF-E4D	S-SM
VMF-E2H	S-SM
VMF-E0- VMF-E	S-SM
AMP10	Alls but S, SM
BC10*	Alls
BC20*	Alls
DSC5*	Alls
PCH/PCHM	Alls
SIT3	S-SM
SIT5	S-SM
SW3	S-SM
SWA	S-SM
VCH	Alls but L, LM
VCHD	Alls but L, LM
ZH1/ZH1B	Alls
ZH1M/ZH1BM	Alls

Technical data

Omnia HL		11			16			26			36		
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L
Heating Performance													
2 pipe configuration													
Heating capacity (70°C)	(1) kW	2,01	1,46	1,06	2,91	2,12	1,54	4,62	3,83	2,89	5,94	4,87	3,53
Water flow rate	(1) l/h	176	128	93	255	186	135	405	336	254	521	427	310
Pressure drops	(1) kPa	2	1	1	4	2	1	11	8	5	7	5	3
Heating capacity (50°C)	(2) kW	1,15	0,87	0,65	1,70	1,25	0,93	2,75	2,24	1,67	3,54	2,86	2,08
Water flow rate	(2) l/h	145	117	94	206	153	122	349	289	220	487	394	286
Pressure drops	(2) kPa	2	1	1	4	2	2	10	7	4	16	11	6
Heating capacity (45°C)	(3) kW	1,00	0,73	0,53	1,45	1,05	0,77	2,30	1,91	1,44	2,96	2,42	1,76
Water flow rate	(3) l/h	174	126	92	251	183	133	399	331	249	513	420	305
Pressure drops	(3) kPa	2	1	0,5	4	2	1	11	8	5	7	5	3
Cooling Performance													
Total cooling capacity	(4) kW	0,84	0,68	0,54	1,20	0,89	0,71	2,03	1,68	1,28	2,83	2,29	1,66
Sensible cooling capacity	(4) kW	0,70	0,53	0,39	0,99	0,71	0,54	1,64	1,33	0,99	2,04	1,62	1,16
Water flow rate	(4) l/h	145	117	94	206	153	122	349	289	220	487	394	286
Pressure drops	(4) kPa	2	1	1	5	3	2	11	8	5	19	13	7
Water content	l	0,4			0,5			0,8			1,1		
Fans													
Fan	type/n°	centrifugal/1						centrifugal/2					
Air flow rate	m³/h	180	120	80	240	160	110	350	270	190	460	350	240
Sound data													
Sound power level	(5) dB(A)	46	37	31	48	43	34	48	43	35	50	43	34
Sound pressure level	dB(A)	38	29	23	40	35	26	40	35	27	40	33	26
Diameter connections													
Standard coil	Ø												
Electrical Features													
Absorbed power	W	18	12	8	32	25	23	35	27	24	42	35	30
Max. input current	A	0,09			0,15			0,18			0,22		
Electrical wiring		V3	V2	V1	V3	V2	V1	V3	V2	V1	V3	V2	V1
Power supply	V/ph/Hz	230V~50Hz											
Energy Efficiency classification (EUROVENT)													
FCEER		D			E			D			D		
FCCOP	(6)	D			D			D			D		

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

(1) Room air 20°C b.s.; 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) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)

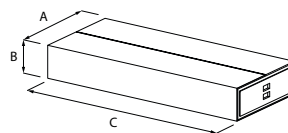
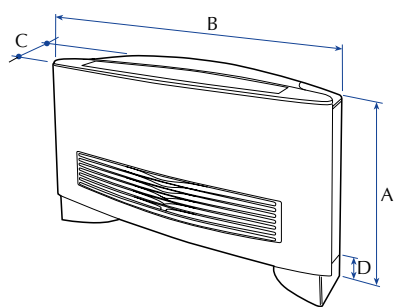
(4) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

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

(6) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode

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

Dimensions (mm)



PACKAGING design example

Mod Omnia		HL 11	HL 16	HL 26	HL 36
Height	A	600	605	615	623
Width	B	640	750	980	1200
Depth	C	187	189	191	198
Height feet	D	93	93	93	93
Weight ¹	kg	13,6	14,6	17,6	20,6
Packaging Dimensions					
A/B/C	mm	590/275/710	590/275/820	590/275/1050	590/275/1270

(1) Standard configuration without accessories

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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