OMNIA

FAN COIL FOR RESIDENTIAL APPLICATIONS
EXCLUSIVE DESIGN, NUMEROUS VERSIONS

Floor & ceiling installation
Applicable with VMF management system


40 anni
con la testa
per l'aria
NEW SHOPS 6


FERMEC

OMNIA HL - UL

THE RIGHT CLIMATE, WHENEVER AND WHEREVER YOU WANT IT

The extremely low heat inertia that is characteristic of the fan coil gives rapid warmth (or coolness) only when and where it is needed, without pointlessly wasting energy.
A fan coil system can be compared to a lighting system: just as a light is switched on and off only when and where it serves a purpose, the fan coil provides warmth (or coolness) only when and where it is necessary.

WARM AND COOL IN A SINGLE SYSTEM

The OMNIA HL-UL fan coil is an essential element in modern residential heating: it replaces and supersedes outdated radiators, improving air quality and giving substantial energy savings.
In summer, when it get very hot, OMNIA HL-UL becomes an unbeatable air conditioning unit. There's no longer any need to waste space fitting specific units for hot and cold weather. A single fan coil system saves space and creates comfort all year long.

INSTANT COMFORT AND INEXPENSIVE

One click is all that is needed and in a few minutes the required room temperature is reached.
This rapid response is at the roots of enormous energy savings that make the fan coil the most economical and ecological integrated system.

SIMPLIFIED MAINTENANCE

A few simple operations are all that's needed to access the internal parts of the fan coil. This facilitates cleaning the filter, the fan and the condensate drain tray. Fan coil maintenance has never been so simple!

Plasmacluster is an exclusive system that does not just deodorise and clean the air but it eliminates viruses, mould, dust mites, pollens and dust, as well.
The Plasmacluster purifier re-establishes the right balance of positive and negative ions in closed spaces as well as refreshing the air and guaranteeing ideal conditions for a healthy life. The result is air that is always fresh, deodorised, really purified and extremely healthy that makes for relaxation and recouping ones energies exactly like being in a wood, near a waterfall.
Asthma, dermatitis and other problems of the airways are often caused by pollution, dust mites, pollens and pet hair.
Plasmacluster ensures first class air sanitisation in closed spaces making it a valid aid against the spread of allergens.

FAN COILS

CLEAN HEALTHY AIR

OMNIA HL-UL heats rooms using hot water at a low temperature (50°C as against the 70°C typical of radiators). This avoids house dust being toasted and the unpleasant occurrence of so-called "bearded walls" : dust burnt by radiators stains the walls and, much worse, our lungs.
A special electrostatic filter keeps household air clean and salubrious. Its filtration efficiency (even for micro-particles) is up to 10 times greater than that of a normal filter.

SILENCE NEVER HEARD BEFORE

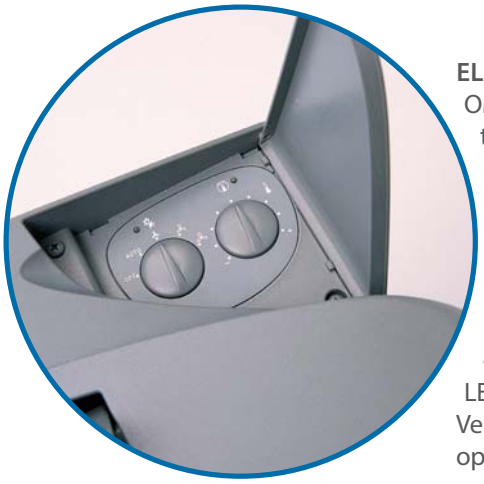
We all know that you should enter a house on tiptoe. That's why the OMNIA HL-UL fan coil has been designed to guarantee silent operation.
Studies on air flow inside the ventilation system have allowed us to achieve a noise level that is totally imperceptible.
The fan-motor assembly is anchored to the frame: the mechanical system is well balanced and vibration is reduced to a minimum.

EASY INSTALLATION

OMNIA HL-UL makes the installer's job quick and easy.
The practical assembly template, machined directly on the fan coil packaging allows easy installation without any errors.
The plumbing connections can be positioned either on the right or the left, for extraordinary flexibility of assembly.

The air purification mechanism used by the Plasmacluster can be put briefly like this: by decomposing a number of molecules contained in the room's humidity with electric discharges, a generator creates a flow of hydrogen and oxygen ions (plasma). Clusters of ions gather around the polluting agent (e.g. virus). At this point, positive and negative ions join to form the hydroxyl radical oh that robs the surrounded virus of the oxygen necessary for its survival.
From the acquisition of the oxygen by the oh hydroxyl, water is generated that is sent back into the room and, at the same time, the virus damaged by the reaction is weake-ned.
The Plasmacluster purification process is completed. This technology simulates a natural process that has always purified the air in the terrestrial atmosphere, that is why the Plasmacluster technology is absolutely harmless for people and pets.

OMNIA HL



ELECTRONIC THERMOSTAT

OMNIA HL is also available in the version with a multi-function electronic thermostat.

Through the control panel you can:

- Set the required temperature;
- Select one of three fan speeds;
- Activate the AUTO function which automatically varies the speed of the fan according to the difference between the set temperature and the room temperature;
- View the operating mode (heating or cooling) thanks to different coloured LED lights.

Version Omnia HL equipped with Plasmacluster has cleaning control operating . When the fan start, Plasmacluster start up automatically.

The exclusive, soft, flowing design means the control panel is fully integrated into the cabinet, where it is protected by a strong, practical door.

WIDE CHOICE OF VERSIONS

OMNIA HL meets any installation need. The following versions are available:

- With cabinet for floor-standing installation - available with Plasmacluster filter (factory-mounted only);
- With cabinet for wall-mounting installation available with Plasmacluster filter (factory-mounted only);
- With cabinet for wall/ceiling-mounting installation;
- Without cabinet, for installation in false ceilings and walls.

The versions with cabinet are available in two colours:

- White housing;
- Grey housing.

Variable Multi Flow

VMF is the brand new system for managing and controlling the entire heating-air conditioning system and domestic hot water production.

- The system allows the various elements of the system to interact: fan coils and possible integrated heating systems (solar, boiler, etc.)

The VMF hydronic system provides maximum comfort and maximum energy saving thanks to the CONTINUOUS VARIATION:

- of the refrigerant delivery inside the chiller/inverter heat pump
- of the treated air flow rate from the fan coil with brushless motor;
- of the water flow rate (controlling the inverter hydraulic pumps).

Furthermore, by using the ECONOMY mode, the VMF system adapts the function of each system element (chiller, fan coils, etc.) to obtain maximum energy efficiency.

OMNIA UL

WIDE CHOICE OF VERSIONS

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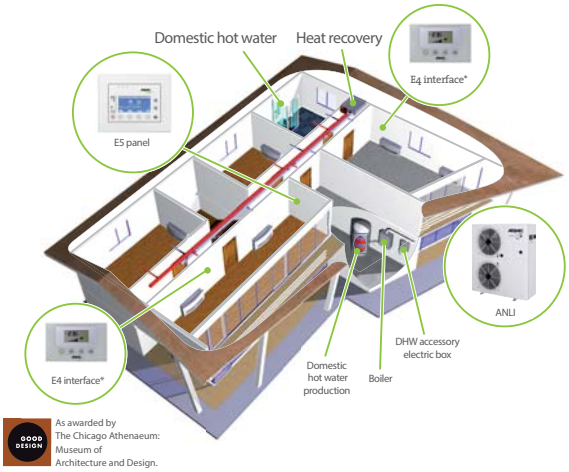
Omnia UL, in the version cabinet, can be inserted into the ventilcassaforma accessory, completely hiding it from view and occupying zero space.
The ventilcassaforma "hosts" the fan coil unit, and is ideal for this type of installation; in fact, it is an accessory that satisfies the requirement for rationalising space that is an integral part of modern interior design.

The ventilcassaforma has two parts: an outer frame, a recessed box and a closing panel complete with deflector. To find out which model is right for the recessed box, just match the size of the ventilcassaforma with the right size of fan coil unit.

The table below shows the correct combinations, but for more information see the venticassaforma brochure.

Ventilcassaforma	CHU 12 L	CHU 17 L	CHU 27 L	CHU 37 L
Fan coil	Omnia UL 11 P	Omnia UL 16 P	Omnia UL 26 P	Omnia UL 36 P



As awarded by The Chicago Athenaeum: Museum of Architecture and Design.
* Winner for the International design Award "Good Design 2010" for the "Electronics"

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Mod.			Vel.	HL 11	HL 16	HL 26	HL 36	UL11	UL16	UL26	UL36
HEATING MODE - 2 PIPES SYSTEM CONFIGURATION											
Heating capacity (50°C)	(1)	W	H	1150	1700	2750	3540	1150	1700	2750	3540
	(1)	W	M	870	1250	2240	2860	870	1250	2240	2860
	(1)	W	L	650	930	1670	2080	650	930	1670	2080
Water flow rate	(1)	l/h	H	144	206	349	487	144	206	349	487
	(1)	l/h	M	117	153	289	394	117	153	289	394
	(1)	l/h	L	93	122	220	286	93	122	220	286
Pressure drop	(1)	kPa	H	2	4	10	16	2	4	10	16
	(1)	kPa	M	1	2	7	11	1	2	7	11
	(1)	kPa	L	1	2	4	6	1	2	4	6
COOLING MODE											
Total cooling capacity	(2)	W	H	840	1200	2030	2830	840	1200	2030	2830
	(2)	W	M	680	890	1680	2290	680	890	1680	2290
	(2)	W	L	540	710	1280	1660	540	710	1280	1660
Sensible cooling capacity	(2)	W	H	700	990	1640	2040	700	990	1640	2040
	(2)	W	M	530	710	1330	1620	530	710	1330	1620
	(2)	W	L	390	540	990	1160	390	540	990	1160
Water flow rate	(2)	l/h	H	144	206	349	487	144	206	349	487
	(2)	l/h	M	117	153	289	394	117	153	289	394
	(2)	l/h	L	93	122	220	286	93	122	220	286
Pressure drop	(2)	kPa	H	1,9	4,8	11	18,9	1,9	4,8	11	18,9
	(2)	kPa	M	1	3	9	12	1	3	9	12
	(2)	kPa	L	1	2	5	7	1	2	5	7
Air flow rate		m^3/h	H	180	240	350	460	180	240	350	460
		m^3/h	M	120	160	270	350	120	160	270	350
		m^3/h	L	80	110	190	240	80	110	190	240
Fans		type		Centrifugal							
		n°		1	1	2	2	1	1	2	2
Power input		W	H	18	32	35	42	18	32	35	42
		W	M	12	25	27	35	12	25	27	35
		W	L	8	23	24	30	8	23	24	30
Max. input current		(A)		0,09	0,15	0,18	0,22	0,09	0,15	0,18	0,22
Sound power level	(3)	dB(A)	H	46	48	48	50	46	48	48	50
	(3)	dB(A)	M	37	43	43	43	37	43	43	43
	(3)	dB(A)	L	31	34	35	34	31	34	35	34
Sound pressure level	(4)	dB(A)	H	37,5	39,5	39,5	39,5	37,5	39,5	39,5	39,5
	(4)	dB(A)	M	28,5	34,5	34,5	32,5	28,5	34,5	34,5	32,5
	(4)	dB(A)	L	22,5	25,5	26,5	25,5	22,5	25,5	26,5	25,5
Coil connections		ø		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Power supply				230V/1/50Hz							

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

1.Heating mode
2 pipes system configuration (EUROVENT)
Room air temperature 20°C b.s.
Inlet water temperare 50°C;
Water flow rate as in cooling mode

2. Cooling mode (EUROVENT)
Room air temperature 27°C b.s./19°C b.u.;
Inlet water temperare 7°C;
ΔT water 5°C

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

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

For more information, please refer to the program selection and the technical documentation available on the website www.aermec.com
Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

Dimensions

OMNIA		HL 11	HL 16	HL 26	HL 36	UL 11	UL 16	UL 26	UL 36
Height	(mm)	600	605	615	623	513	513	513	513
Width	(mm)	640	750	980	1200	640	750	980	1200
Depth	(mm)	187	189	191	198	173	173	173	173
Height with feet	(mm)	93	93	93	93	93	93	93	93
Weight	kg	13,6	14,6	17,6	20,6	12,5	13,5	16,5	19,5

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