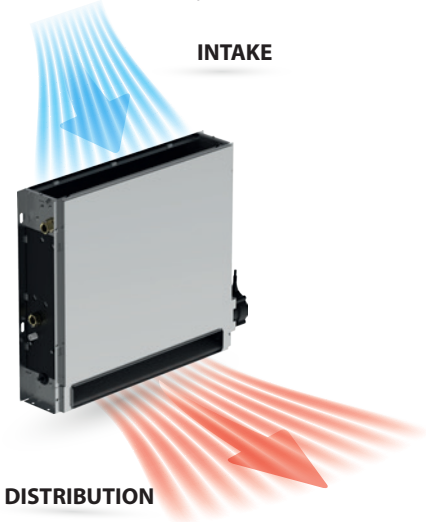
Omnia ULSI_P

Fan coils wall-mount installation

- **Low operating temperature**
- **Cooling, heating, and dehumidification**
- **Only vertical installation**

DESCRIPTION

The Omnia Slim P fan coils have been designed to meet the need to combine the typical features of a classic radiator - namely reduced depth and quiet operation - with the ability of a fan coil to air-condition rooms throughout the year.
Can be installed in 2-pipe systems and used in combination with any heat generator, even at low temperatures.



VERSIONS

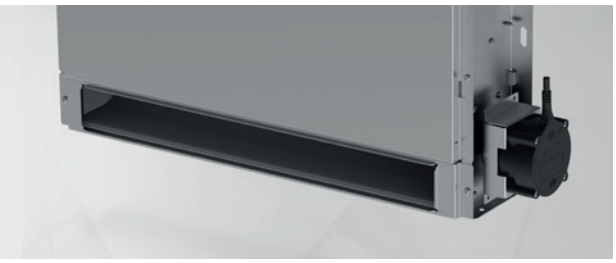
P Inverter for vertical installation
PR Inverter for vertical installation with right connections

FEATURES

Ventilation group

These fan coils have extremely silent ventilation by using special tangential fans, which guarantees maximum acoustic comfort.

The electric motor is a new generation Brushless with built-in driver and IP66 protection rating, continuously variable speed



Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections 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 heat exchanger is reversible during selection.

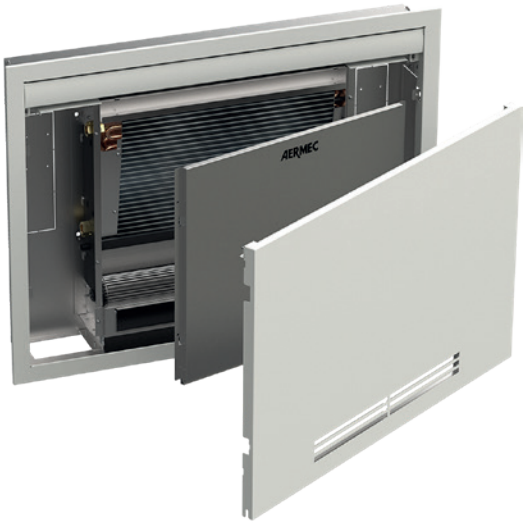
Control

Both versions are supplied without on-board control, however, various thermostats or control panels are available as accessories to be installed on the wall.

MANDATORY ACCESSORY - CHOOSE FROM THE FOLLOWING OPTIONS

Ventilcassaforma

Indoor unit available in 5 sizes.
ULS_CH: Galvanised and painted sheet metal kit, designed for integration of the fan coil inside a niche in the wall, allowing rational space management and a solution consistent with the requirements of contemporary interior architecture.



Delivery grille

Indoor unit available in 5 sizes.

ULS_G: Flow grille and side protection kit, mandatory accessory for wall installation of ULSI_P/PR units as an alternative to using the ULS_CH accessory

ACCESSORIES

Control panels and dedicated accessories

AER503IR: Recessed thermostat with backlit display, capacitive keyboard and infrared receiver, for controlling fan coils with both asynchronous and brushless motors. as it is also equipped with an infrared receiver it can in turn be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: Water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounted thermostat for controlling 2/4 pipe fan coils with both asynchronous and brushless motors.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.

VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

DI24CP: Complete flush-mounted interface plate with support for DI24, Vimar brand, Arké series, graphite gray color.

KITSVB: Installation support kit for the VMF-E19I thermostat, complete with wiring for the fan coil unit interface.

VMF-DSK: User interface with an easy-to-read light display that provides clear information on room temperature, programming settings and more. Thanks to the ergonomic ring nut switch, adjusting the desired temperature is very easy. The knob allows precise and immediate adjustments, offering a classic but highly effective control mode. Not only functional, but also aesthetically pleasing. Our interface features a modern, compact design that fits perfectly in any environment, adding a touch of style to your home or office. It is available in white (VMF-DSK) and black (VMF-DSKD).

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall-mounted user interface, also controllable via VMF-IR control.

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with AER503IR, VMF-E3 thermostat.

VMHI: The VMHI panel can be used as a user interface. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

BCSV: Condensate collection tray, for valve kit.

DSC7: Condensate drainage device.

VCS2: 2-way motorised valve kit without insulating shell. The kit is made up of a valve, actuator and relative hydraulic fittings.

VCS3: 3-way motorised valve kit without insulating shell for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings.

ACCESSORIES COMPATIBILITY

Mandatory accessory - choose from the following options

Ventilcassaforma

Ver	10	20	30	40	50
P, PR	ULS10CH	ULS20CH	ULS30CH	ULS40CH	ULS50CH

Supply air grille kit

Ver	10	20	30	40	50
P, PR	ULS10G	ULS20G	ULS30G	ULS40G	ULS50G

Accessories

2 way valve kit

Model	Ver	10	20	30	40	50
VCS2 (1)	P,PR	•	•	•	•	•

(1) Power supply 230V - Hydraulic connections Ø 1/2"

VMF system

Model	Ver	10	20	30	40	50
DI24	P,PR	•	•	•	•	•
DI24CP	P,PR	•	•	•	•	•
KITSVB	P,PR	•	•	•	•	•
VMF-DSK	P,PR	•	•	•	•	•
VMF-E19I (1)	P,PR	•	•	•	•	•
VMF-E3	P,PR	•	•	•	•	•
VMF-E4X	P,PR	•	•	•	•	•
VMF-IR	P,PR	•	•	•	•	•
VMHI	P,PR	•	•	•	•	•

(1) Mandatory accessory.

3 way valve kit

Model	Ver	10	20	30	40	50
VCS3 (1)	P,PR	•	•	•	•	•

(1) Power supply 230V - Hydraulic connections Ø 1/2"

Model	Ver	10	20	30	40	50
AER503IR (1)	P,PR	•	•	•	•	•
PRO503	P,PR	•	•	•	•	•
SA5 (2)	P,PR	•	•	•	•	•
SW5 (2)	P,PR	•	•	•	•	•
TX (3)	P,PR	•	•	•	•	•

(1) Wall-mount installation.
(2) Probe for AER503IR-TX thermostats, if fitted.
(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

Condensate drip

Model	Ver	10	20	30	40	50
BCSV	P,PR	•	•	•	•	•

Condensate drainage

Model	Ver	10	20	30	40	50
DSC7	P,PR	•	•	•	•	•

PERFORMANCE SPECIFICATIONS

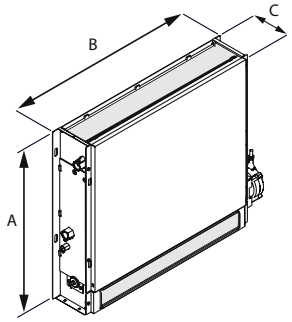
2-pipe

		ULSI10P			ULSI20P			ULSI30P			ULSI40P			ULSI50P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																
Heating capacity	kW	0,70	1,14	1,53	1,27	1,88	2,86	1,88	2,91	3,72	2,32	3,55	4,77	2,49	3,85	5,73
Water flow rate system side	l/h	61	100	134	111	165	251	165	254	326	203	311	418	218	337	501
Pressure drop system side	kPa	2	4	7	5	10	20	6	14	22	6	13	22	5	10	21
Heating performance 45 °C / 40 °C (2)																
Heating capacity	kW	0,35	0,57	0,76	0,63	0,94	1,43	0,94	1,45	1,85	1,15	1,77	2,38	1,24	1,92	2,85
Water flow rate system side	l/h	61	99	132	110	163	248	163	251	322	201	307	413	216	333	495
Pressure drop system side	kPa	2	4	7	5	9	20	6	14	22	6	13	22	5	10	21
Cooling performance 7 °C / 12 °C (3)																
Cooling capacity	kW	0,37	0,60	0,80	0,67	0,98	1,50	0,98	1,52	1,95	1,22	1,86	2,50	1,30	2,02	3,00
Sensible cooling capacity	kW	0,25	0,42	0,57	0,46	0,68	1,08	0,68	1,06	1,39	0,84	1,30	1,79	0,90	1,40	2,15
Water flow rate system side	l/h	63	103	137	114	169	257	169	261	335	209	319	429	224	346	515
Pressure drop system side	kPa	3	6	10	7	13	28	9	19	30	9	18	30	7	14	29
Fan																
Type	type	Tangential			Tangential			Tangential			Tangential			Tangential		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	1			1			1			2			2		
Air flow rate	m^3/h	46	82	134	78	128	241	109	188	301	126	218	370	127	225	427
Input power	W	5	8	10	6	9	15	7	12	17	7	14	20	7	13	21
Signal 0-10V	%	40	70	90	40	70	90	40	70	90	40	70	90	40	70	90
Fan coil sound data (4)																
Sound power level	dB(A)	39,0	47,0	51,0	39,0	47,0	51,0	40,0	48,0	53,0	41,0	49,0	54,0	42,0	52,0	56,0
Sound pressure level	dB(A)	31,0	39,0	43,0	31,0	39,0	43,0	32,0	40,0	45,0	33,0	41,0	46,0	34,0	44,0	48,0
Finned pack heat exchanger																
Water content main heat exchanger	l	0,5			0,9			1,2			1,5			1,8		
Diametre hydraulic fittings																
Main heat exchanger	Ø	1/2″			1/2″			1/2″			1/2″			1/2″		
Power supply																
Power supply	V/Ph/Hz	230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			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 (listing FCU AERMEC 2025)
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT (listing FCU AERMEC 2025)
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

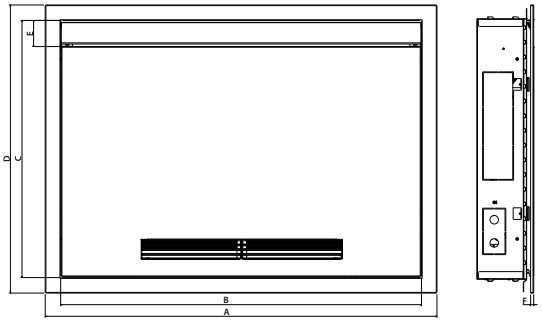
DIMENSIONS

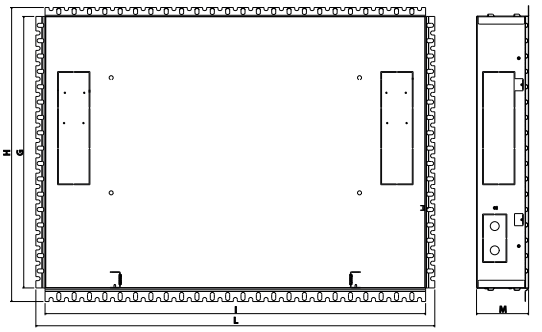
ULSI_P



Size			10	20	30	40	50
Dimensions and weights							
A	P,PR	mm	556	556	556	556	556
B	P,PR	mm	445	640	833	1028	1223
C	P,PR	mm	132	132	132	132	132
Net weight	P,PR	kg	9,0	11,0	13,0	15,0	17,0

ULS_CH





		ULS10CH	ULS20CH	ULS30CH	ULS40CH	ULS50CH
Dimensions and weights						
A	mm	818	1013	1206	1401	1596
B	mm	738	933	1126	1321	1516
C	mm	665	665	665	665	665
D	mm	745	745	745	745	745
E	mm	67	67	67	67	67
F	mm	8	8	8	8	8
G	mm	672	672	672	672	672
H	mm	740	740	740	740	740
I	mm	747	942	1135	1330	1525
L	mm	793	988	1181	1376	1571
M	mm	129	129	129	129	129
Net weight	kg	15,5	18,5	21,5	25,5	27,5

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.

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