

# Omnia ULI

## Fan coil for universal and floor installation



- **Electric saving equal to 50% compared to a fancoil with 3-speed motor.**
- **Fully silent functioning**
- **Ideal for residential or office solutions**



### DESCRIPTION

Fan coils with inverter technology for heating, cooling, and dehumidifying. Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, which allows for precise adaptation of the actual indoor ambient requirements without temperature oscillations, for increased comfort, also in terms of noise, and electrical savings.

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

- C** Vertical installation, intake at base, electronic thermostat
- PC** Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier
- S** Vertical and horizontal installation, intake at base, without commands

### FEATURES

#### Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

#### Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft. Brushless motor with continuous speed variation 0-100%. The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

#### Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger 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

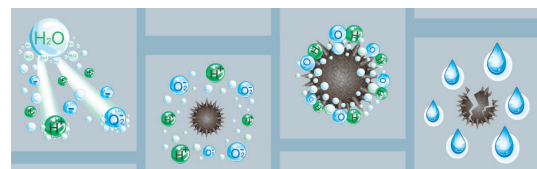
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

#### 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 guaranteeing pure breathable air to the whole family.

#### APC versions equipped with Coldplasma 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

### Control panels and dedicated accessories

**AER503IR:** Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being 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.

**SW3:** Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

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

**TX:** Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

### 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 system

**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.

**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-E2U:** User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory. It has 2 selector switches, one for temperature and the other for speed control.

**VMF-E3:** Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF\_N/M and GLL\_N, can be controlled with VMF-IR control.

**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-IR:** User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

**VMHI:** The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. 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

**AMP:** Wall mounting kit

**DSC:** Condensate drainage device.

**VCH:** 3-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.

**VCHD:** 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

**BC:** Condensate drip.

**GU:** Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

**PCU:** Sheet metal panel closing the rear of the unit.

**ZU1:** Pair of stylish and structural feet.

## ACCESSORIES COMPATIBILITY

Model	Ver	17	27	37
AERS03IR (1)	S	•	•	•
PRO503	S	•	•	•
SA5 (2)	S	•	•	•
SW3 (2)	C,PC,S	•	•	•
SW5 (2)	S	•	•	•
TX (3)	S	•	•	•

(1) Wall-mount installation.

(2) Probe for AERS03IR-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.

### VMF system

Model	Ver	17	27	37
DI24	S	•	•	•
DI24CP	S	•	•	•
VMF-E19I (1)	S	•	•	•
VMF-E2U	S	•	•	•
VMF-E3	S	•	•	•
VMF-E4DX	S	•	•	•
VMF-E4X	S	•	•	•
VMF-IR	S	•	•	•
VMHI	S	•	•	•

(1) Mandatory accessory.

### Condensate drip

Model	Ver	17	27	37
BC10 (1)	C,PC,S	•	•	•
BC20 (2)	C,PC,S	•	•	•

(1) For vertical installation.

(2) For horizontal installation.

### Condensate drainage

Model	Ver	17	27	37
DSC5 (1)	C,PC	•	•	•

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

### 3 way valve kit

Model	Ver	17	27	37
VCH	C,PC	•	•	•

### 2 way valve kit

Model	Ver	17	27	37
VCHD	C,PC	•	•	•

### Panel closing the rear of the unit

Model	Ver	17	27	37
PCU17	C,PC,S	•	•	•
PCU27	C,PC,S	•	•	•
PCU37	C,PC,S	•	•	•

### Intake grids

Model	Ver	17	27	37
GU17 (1)	C,PC,S	•	•	•
GU27 (1)	C,PC,S	•	•	•
GU37 (1)	C,PC,S	•	•	•

(1) The combination with a pair of stylish and structural feet is mandatory.

### Wall mounting kit

Model	Ver	17	27	37
AMP10	S	•	•	•

### Pair of stylish structural feet

Model	Ver	17	27	37
ZU1	C,PC,S	•	•	•

## PERFORMANCE SPECIFICATIONS

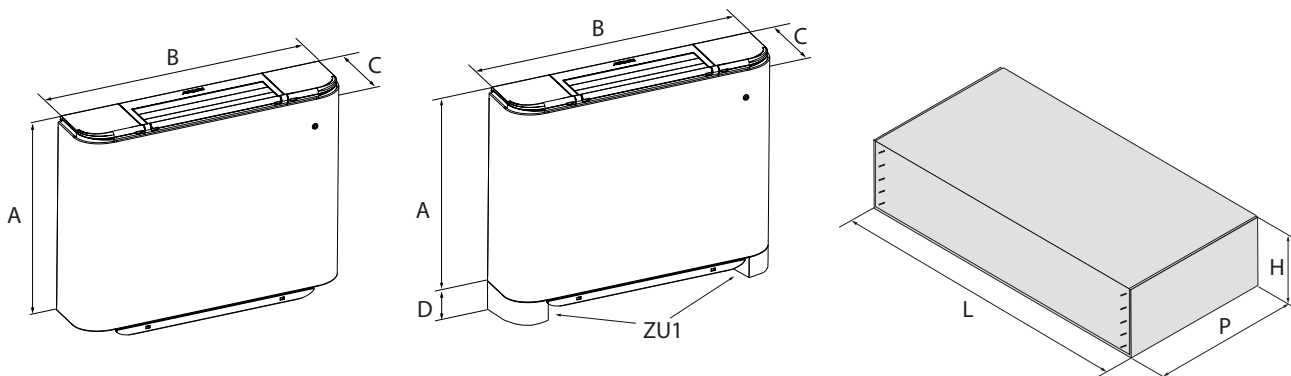
### 2-pipe

	ULI17			ULI27			ULI37			
	1	2	3	1	2	3	1	2	3	
	L	M	H	L	M	H	L	M	H	
Heating performance 70 °C / 60 °C (1)										
Heating capacity	kW	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	135	186	255	254	336	405	310	427	521
Pressure drop system side	kPa	1	2	4	5	8	11	3	5	7
Heating performance 45 °C / 40 °C (2)										
Heating capacity	kW	0,76	1,05	1,44	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	133	183	251	249	331	399	305	420	513
Pressure drop system side	kPa	2	2	2	5	8	11	7	12	18
Cooling performance 7 °C / 12 °C										
Cooling capacity	kW	0,69	0,87	1,17	1,26	1,65	1,99	1,63	2,26	2,79
Sensible cooling capacity	kW	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	122	153	206	220	289	349	286	394	487
Pressure drop system side	kPa	2	3	5	6	8	11	7	13	19
Fan										
Type	type				Centrifugal					
Fan motor	type				Inverter					
Number	no.	1			2			2		
Air flow rate	m <sup>3</sup> /h	110	160	240	190	270	350	240	350	460
Input power	W	23	25	32	24	27	35	30	35	42
Signal 0-10V	%	38	56	83	49	70	90	48	70	90
Sound power level	dB(A)	34,0	43,0	48,0	35,0	43,0	48,0	34,0	43,0	50,0
Sound pressure level (10 m)	dB(A)	26,0	35,0	40,0	27,0	35,0	40,0	26,0	33,0	42,0
Finned pack heat exchanger										
Water content	l	0,4			0,6			0,8		
Diameter hydraulic fittings										
Main heat exchanger	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

## DIMENSIONS



Size			17	27	37
<b>Dimensions and weights</b>					
A	C,PCS	mm	513	513	513
B	C,PCS	mm	750	980	1200
C	C,PCS	mm	173	173	173
D	C,PCS	mm	93	93	93
Empty weight	C,PC	kg	13	18	20
	S	kg	13	17	20
<b>Dimensions and weights for transport</b>					
H	C,PCS	mm	275	275	275
L	C,PCS	mm	820	1050	1270
P	C,PCS	mm	590	590	590
Weight for transport	C,PC	kg	15,0	19,5	23,0
	S	kg	14,5	19,0	22,5

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