

## OMNIA SLIM ULS



Extremely silent with thickness 130mm fan coils for wall-mounting or free standing installations

КЛИЕНТСКИ ЦЕНИ В ЛВ. БЕЗ ДДС

UNIT		Vers.	10	20	30	40	50
ULS	version with cabinet and no board controller	ULS	533 лв.	576 лв.	653 лв.	704 лв.	796 лв.
	version with cabinet and with electronic thermostat on-board	ULS_C	629 лв.	672 лв.	749 лв.	789 лв.	879 лв.
CONTROL PANELS and ACCESSORIES							
AER503	LCD Wall-mounted thermostat	ULS	128 лв.	128 лв.	128 лв.	128 лв.	128 лв.
PRO503	Wall box for AER503IR and VMF-E4 thermostats	ULS	59 лв.	59 лв.	59 лв.	59 лв.	59 лв.
SA5	Air probe L=15m with probe-locking cable grommet	ULS	89 лв.	89 лв.	89 лв.	89 лв.	89 лв.
SW3	Water probe (L = 2.5 m) for electronic thermostats fitted	ULS	38 лв.	38 лв.	38 лв.	38 лв.	38 лв.
SW5	Water probe kit (L = 15m) with probe-holder connection point	ULS	89 лв.	89 лв.	89 лв.	89 лв.	89 лв.
T-TOUCH-S	Touch control installation on-board the fan coil	ULS	273 лв.	273 лв.	273 лв.	273 лв.	273 лв.
TX	Wall-mounting thermostat	ULS	108 лв.	108 лв.	108 лв.	108 лв.	108 лв.
TXBS	Thermostat installation on the fan coil	ULS	172 лв.	172 лв.	172 лв.	172 лв.	172 лв.
VMF SYSTEM							
DI24	2.4" touch screen display to be comb.VMF-E19(I). Wi-Fi with AerSuite APP	ULS	273 лв.	273 лв.	273 лв.	273 лв.	273 лв.
KITSV	kit for VMF-E19(I)	ULS	28 лв.	28 лв.	28 лв.	28 лв.	28 лв.
VMF-E19	Thermostat for VMF system build in side of fan coil	ULS	182 лв.	182 лв.	182 лв.	182 лв.	182 лв.
VMF-E2S	Interface on the fan coil, with two selectors - for temperature and for speed control	ULS	72 лв.	72 лв.	72 лв.	72 лв.	72 лв.
VMF-E3	Wall mounted user interface	ULS	112 лв.	112 лв.	112 лв.	112 лв.	112 лв.
VMF-E4DX	Wall interface for VMF	ULS	112 лв.	112 лв.	112 лв.	112 лв.	112 лв.
VMF-E4X	Wall interface for VMF	ULS	112 лв.	112 лв.	112 лв.	112 лв.	112 лв.
VMF-IR	User interface for AER503IR	ULS	52 лв.	52 лв.	52 лв.	52 лв.	52 лв.
VMHI	The VMHI panel can be used as a user interface for VMF-E19(I) thermostats	ULS	110 лв.	110 лв.	110 лв.	110 лв.	110 лв.
BCSV	Condensate drip	ALL	22 лв.	22 лв.	22 лв.	22 лв.	22 лв.
DSC7	Condensate drainage device	ALL	273 лв.	273 лв.	273 лв.	273 лв.	273 лв.
VCS2	2-way valve kit	ALL	132 лв.	132 лв.	132 лв.	132 лв.	132 лв.
VCS3	3-way valve kit	ALL	204 лв.	204 лв.	204 лв.	204 лв.	204 лв.
ZXS	Feets	ALL	39 лв.	39 лв.	39 лв.	39 лв.	39 лв.

# Omnia ULS

## Vertical wall-mounting or free-standing installation

- Compact dimensions, thickness 130 mm
- Low operating temperature
- Cooling, heating, and dehumidification



### DESCRIPTION

The Omnia Slim 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.

They can be installed on any system with a 2-pipe system and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

### VERSIONS

**ULS** Standard without control board

**ULS\_C** With on-board thermostat

### FEATURES

#### Case

Structure in sheet metal, 12/10 and 8/10 mm.

Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.

#### Ventilation group

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

The electric motor is a 3-speed single-phase motor with a permanently inserted condenser.

#### 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.*

#### Control

With thermostatic adjustment and manual or no-adjustment switching, for combination with any wall panel or with the AERMEC VMF system.

### 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.

**T-TOUCH-S:** Touch control installation on-board the fan coil.

**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).

**TXBS:** Thermostat installation on the fan coil.

### 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. It is supplied with a graphite grey plate; however, to allow the interface to be customised so that it fits in perfectly with the style of any home, DI24 is compatible with

plates of the major brands available on the market, for more information please refer to our documentation.

**KITSV:** Kit for installing the VMF-E19/19I.

**VMF-E19:** Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**VMF-E2S:** User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E19 or VMF-E19I accessory is required.

**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

**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.

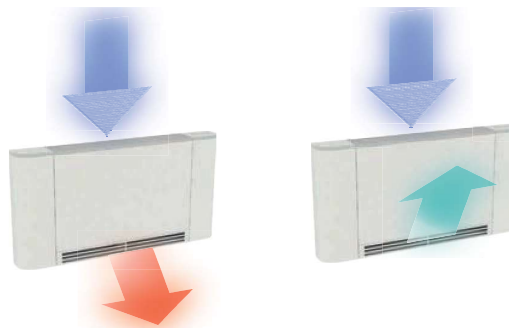
**ZXS:** Pair of stylish and structural feet.

### MAIN FEATURES



- 1 Air/water exchange coils with aluminium louvers and copper piping, arranged across 2 rows.
- 2 Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.
- 3 Plastic recovery grille with air filter.
- 4 Tangential fan driven by a 3-speed motor.
- 5 Aluminium recovery grille and sheet metal delivery grille, with a special design conceived to create a homogeneous flow of air, both in summer and winter operation.

### Flow rates



## ACCESSORIES COMPATIBILITY

Model	Ver	10	20	30	40	50
AERS03IR (1)	ULS	*	*	*	*	*
PRO503	ULS	*	*	*	*	*
SAS (2)	ULS	*	*	*	*	*
SW3 (2)	ULS	*	*	*	*	*
SW5 (2)	ULS	*	*	*	*	*
T-TOUCH-S (3)	ULS	*	*	*	*	*
TX (4)	ULS	*	*	*	*	*
TXBS (3)	ULS	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Installation on the fan coil.

(4) 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	10	20	30	40	50
DI24	ULS	*	*	*	*	*
KITSV (1)	ULS	*	*	*	*	*
VMF-E19 (2)	ULS	*	*	*	*	*
VMF-E25 (3)	ULS	*	*	*	*	*
VMF-E3	ULS	*	*	*	*	*
VMF-E4DX	ULS	*	*	*	*	*
VMF-E4X	ULS	*	*	*	*	*
VMF-IR	ULS	*	*	*	*	*
VMHI	ULS	*	*	*	*	*

(1) Mandatory when the VMF-E19/19I thermostat is required.

(2) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

(3) Installation on the fan coil.

### 3 way valve kit

Model	Ver	10	20	30	40	50
VCS3 (1)	ULS,ULS_C	*	*	*	*	*

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

### 2 way valve kit

Model	Ver	10	20	30	40	50
VCS2 (1)	ULS,ULS_C	*	*	*	*	*

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

### Condensate drip

Model	Ver	10	20	30	40	50
BCSV	ULS,ULS_C	*	*	*	*	*

### Condensate drainage

Model	Ver	10	20	30	40	50
DSC7	ULS,ULS_C	*	*	*	*	*

### Pair of stylish structural feet

Model	Ver	10	20	30	40	50
ZXS	ULS,ULS_C	*	*	*	*	*

## PERFORMANCE SPECIFICATIONS

## 2-pipe

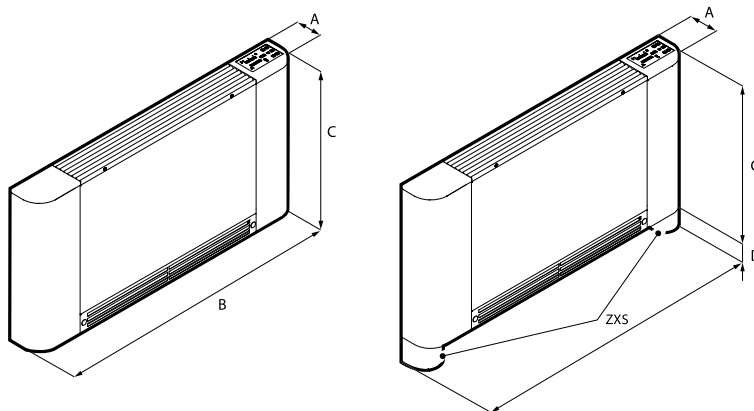
		ULS10			ULS20			ULS30			ULS40			ULS50		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																
Heating capacity	kW	0,61	1,16	1,64	1,14	2,18	3,08	1,48	2,84	4,00	1,89	3,64	5,13	2,27	4,37	6,15
Water flow rate system side	l/h	53	102	144	99	191	269	129	248	350	166	318	448	199	382	538
Pressure drop system side	kPa	1	4	7	4	11	21	3	8	15	4	13	25	3	9	16
Heating performance 45 °C / 40 °C (2)																
Heating capacity	kW	0,30	0,58	0,82	0,56	1,09	1,53	0,73	1,41	1,99	0,94	1,81	2,55	1,13	2,17	3,06
Water flow rate system side	l/h	52	101	142	98	189	266	128	245	346	164	315	443	196	378	532
Pressure drop system side	kPa	1	4	7	4	12	22	3	9	16	4	14	26	3	9	17
Cooling performance 7 °C / 12 °C																
Cooling capacity	kW	0,30	0,57	0,80	0,55	1,07	1,50	0,72	1,38	1,95	0,92	1,78	2,50	1,11	2,13	3,00
Sensible cooling capacity	kW	0,22	0,43	0,62	0,42	0,81	1,17	0,54	1,05	1,52	0,69	1,35	1,95	0,83	1,62	2,34
Water flow rate system side	l/h	51	97	137	95	183	257	124	238	335	158	305	429	190	366	515
Pressure drop system side	kPa	1	4	8	4	13	25	3	10	18	5	16	29	3	10	19
Fan																
Type	type	Tangential														
Fan motor	type	Asynchronous														
Number	no.	1			1			1			2			2		
Air flow rate	m³/h	36	75	134	62	141	241	76	164	301	91	204	370	103	243	427
Input power	W	8	15	21	15	21	32	17	32	42	21	39	53	18	26	56
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Fan coil sound data (3)																
Sound power level	dB(A)	42,0	49,0	52,0	42,0	49,0	52,0	43,0	50,0	53,0	44,0	51,0	54,0	45,0	52,0	55,0
Sound pressure	dB(A)	34,0	41,0	44,0	34,0	41,0	44,0	35,0	42,0	45,0	36,0	43,0	46,0	39,0	44,0	47,0
Finned pack heat exchanger																
Water content main heat exchanger	l	0,5			0,9			1,2			1,5			1,8		
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

(3) 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



Size			10	20	30	40	50
<b>Dimensions and weights</b>							
A	ULS,ULS_C	mm	130	130	130	130	130
B	ULS,ULS_C	mm	745	940	1134	1328	1524
C	ULS,ULS_C	mm	580	580	580	580	580
D	ULS,ULS_C	mm	80	80	80	80	80
Empty weight	ULS,ULS_C	kg	11	13	15	17	19

Aermec reserves the right to make any modifications deemed necessary.  
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responsibility or liability for errors or omissions.

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