

# VED 030-340

## Fan coil unit for ducted installations



- Horizontal and vertical installation
- Large range of available static pressure
- Inspectable ventilation group



### DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

### FEATURES

#### Case

Unit for internal installation. Internally insulated structure with class 1 fire resistance and IP20 protection.

#### Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise. Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with 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.*

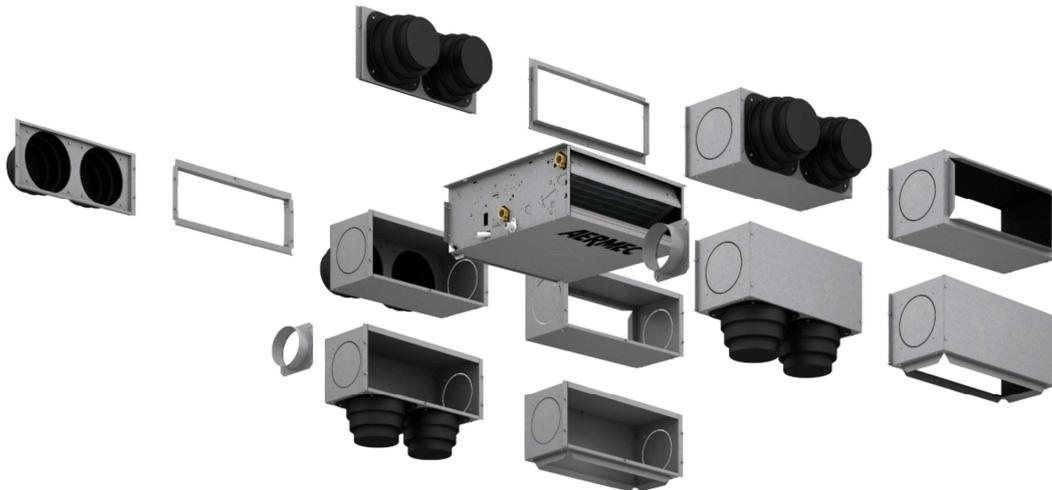
#### Air filter

Coarse 25% Class air filter, easy to remove and clean.

#### Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement. The unit is supplied with the delivery connection supplied.

## ACCESSORIES



### Control panels

**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.

**SIT3:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

**SIT5:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

**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).

**WMT05:** Electronic thermostat with thermostated ventilation.

**WMT06:** Electronic thermostat with continuous ventilation.

**WMT10:** Electronic thermostat, white, with thermostated or continuous ventilation.

### VMF Components

**VMF-E0X:** Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**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-E3:** Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X 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-IO:** Manage the unit exclusively from a centralized VMF control panel without area control panel.

**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.

**VMF-SIT3V:** Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

**VMF-SW:** Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

**VMF-SW1:** Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

### Valves and additional water coil

**BV:** Single row hot water heat exchanger.

**VCF\_X:** Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

**VCF41 - 42 - 43 - for main coil:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

**VCF44 - 45 - for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

**VCFD:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**VJP:** Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

## Installation accessories

**AMP:** Wall mounting kit

**BCZ:** Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

**DSC:** Condensate drainage device.

## Accessories for intake

**GA:** Intake grid with fixed louvers

**GAF:** Intake grid with filter and fixed louvers

**SE\_X:** External air shutter with manual control.

**RDA\_V:** Straight intake connection with rectangular flange.

**RDA\_C:** Straight intake connection with circular flanges.

**RPA\_V:** Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**PA\_V:** Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

## Delivery accessories

**MZC:** Plenum with motorised dampers.

**MZCAC:** Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

**MZCACV:** Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

**GM:** Flow grid with adjustable louvers.

**PM\_V:** Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

**RPM\_V:** Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**RDM\_C:** Straight discharge internally insulated, with circular flanges.

**RDM\_V:** Straight delivery coupling in galvanised sheet metal.

**KFV:** Circular flanges kit for plenum.

## ACCESSORIES COMPATIBILITY

### Control panels and dedicated accessories

Model	Ver	030	040	130	140	230	240	330	340
AER503IR (1)	.	.	.	.	.	.	.	.	.
PRO503	.	.	.	.	.	.	.	.	.
SAS (2)	.	.	.	.	.	.	.	.	.
SIT3 (3)	.	.	.	.	.	.	.	.	.
SIT5 (4)	.	.	.	.	.	.	.	.	.
SW3 (2)	.	.	.	.	.	.	.	.	.
SW5 (2)	.	.	.	.	.	.	.	.	.
TX (1)	.	.	.	.	.	.	.	.	.
WMT05 (1)	.	.	.	.	.	.	.	.	.
WMT06 (1)	.	.	.	.	.	.	.	.	.
WMT10 (1)	.	.	.	.	.	.	.	.	.

(1) 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.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

### VMF system

Model	Ver	030	040	130	140	230	240	330	340
VMF-E0X (1)	.	.	.	.	.	.	.	.	.
VMF-E19 (1)	.	.	.	.	.	.	.	.	.
VMF-E3	.	.	.	.	.	.	.	.	.
VMF-E4DX	.	.	.	.	.	.	.	.	.
VMF-E4X	.	.	.	.	.	.	.	.	.
VMF-I0	.	.	.	.	.	.	.	.	.
VMF-IR	.	.	.	.	.	.	.	.	.
VMF-SIT3V (2)	.	.	.	.	.	.	.	.	.
VMF-SW	.	.	.	.	.	.	.	.	.
VMF-SW1	.	.	.	.	.	.	.	.	.

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

(2) For the selection, consult the documentation for the thermostat and the fan coil.

### (Heating only) additional coil

Ver	030	040	130	140	230	240	330	340
.	BV030 (1)	-	BV130 (1)	-	BV230 (1)	-	BV162 (1)	-

(1) Not available for sizes with oversized main coil.

The accessory cannot be fitted on the configurations indicated with -

## Water valves

### Valve Kit for 4 pipe systems with main coil

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
VCF3X4L	.	.	.	.	.	.	.	.
VCF3X4LS	.	.	.	.	.	.	.	.
VCF3X4R	.	.	.	.	.	.	.	.
VCF3X4RS	.	.	.	.	.	.	.	.

### 3 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
<b>3 way valve kit</b>								
Main coil	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324S	VCF43-VCF4324	VCF43-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections Ø 3/4"

## 2 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
<b>2 way valve kit</b>								
Main coil	VCFD3-VCFD324							
Additional coil "BV"	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"  
VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

## Combined adjustment and balancing valve cold side

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
VJP060	*	*	*	*				
VJP060M	*	*	*	*				
VJP090					*	*	*	*
VJP090M					*	*	*	*
VJP150							*	*
VJP150M							*	*

## Installation accessories

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
AMP	*	*	*	*	*	*	*	*

## Condensate drip

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
BCZ4	*	*	*	*	*	*	*	*
BCZ6	*	*	*	*	*	*	*	*
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
BC9	*	*	*	*	*	*	*	*

BCZ4 For vertical installation.  
BCZ6 For horizontal installation.  
BC9 For horizontal installation.

## Condensate recirculation device

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
DSC4	*	*	*	*	*	*	*	*
DSCZ4	*	*	*	*	*	*	*	*

## Accessories for intake

### Intake grids

Ver	030	040	130	140	230	240	330	340
.	GA22	GA22	GA32	GA32	GA42	GA42	GA62	GA62

### Intake grid with filter and fixed louvers

Ver	030	040	130	140	230	240	330	340
.	GAF22	GAF22	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62

### External air shutter with manual control

Ver	030	040	130	140	230	240	330	340
.	SE20X	SE20X	SE30X	SE30X	SE40X	SE40X	SE80X	SE80X

### Intake straight with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RDA000V	RDA000V	RDA100V	RDA100V	RDA200V	RDA200V	RDA300V	RDA300V

### Intake straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	RDAC000V	RDAC000V	RDAC100V	RDAC100V	RDAC200V	RDAC200V	RDAC300V	RDAC300V

### Intake plenum with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RPA000V	RPA000V	RPA100V	RPA100V	RPA200V	RPA200V	RPA300V	RPA300V

### Intake plenum with circular flanges

Ver	030	040	130	140	230	240	330	340
.	PA000V	PA000V	PA100V	PA100V	PA200V	PA200V	PA300V	PA300V

## Delivery accessories

### Plenum with motor-driven dampers

Ver	030	040	130	140	230	240	330	340
.	MZC220	MZC220	MZC320	MZC320	MZC530	MZC530	MZC830	MZC830

### Electrical system with relays

Ver	030	040	130	140	230	240	330	340
.	MZCACV (1)							

(1) It is mandatory to use MZCACV if the intake of the unit combined with the MZC accessory exceeds 0.7 Ampere.

### Electric plant

Ver	030	040	130	140	230	240	330	340
.	MZCAC							

### Flow grid with adjustable louvers

Ver	030	040	130	140	230	240	330	340
.	GM22	GM22	GM32	GM32	GM42	GM42	GM62	GM62

### Delivery plenum internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	PM000V	PM000V	PM100V	PM100V	PM200V	PM200V	PM300V	PM300V

### Delivery plenum internally insulated, with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RPM000V	RPM000V	RPM100V	RPM100V	RPM200V	RPM200V	RPM300V	RPM300V

### Delivery straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	RDMC000V	RDMC000V	RDMC100V	RDMC100V	RDMC200V	RDMC200V	RDMC300V	RDMC300V

### Straight delivery coupling

Ver	030	040	130	140	230	240	330	340
.	RDM000V	RDM000V	RDM100V	RDM100V	RDM200V	RDM200V	RDM300V	RDM300V

### Circular flanges kit for plenum

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
KFV10	.	.	.	.	.	.	.	.

## PERFORMANCE SPECIFICATIONS

### 2-pipe

	VED030			VED040			VED130			VED140			VED230			VED240			VED330			VED340		
	1	4	6	1	4	6	1	4	6	1	4	6	1	3	6	1	3	6	1	3	7	1	3	7
	L	M	H	L	M	H	L	M	H	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	1,82	3,37	3,69	2,37	3,57	3,92	4,40	5,83	6,29	4,52	6,09	6,58	5,35	6,50	7,16	5,80	7,14	7,91	7,81	9,34	10,51	8,31	10,02	10,95
Water flow rate system side	l/h	160	296	323	207	313	343	386	512	552	396	534	577	469	570	628	509	626	694	685	819	921	729	878	960
Pressure drop system side	kPa	3	7	9	4	10	12	13	22	26	9	16	18	27	30	37	18	26	32	9	13	16	22	28	32

#### Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,90	1,67	1,83	1,18	1,77	1,94	2,18	2,90	3,12	2,24	3,02	3,27	2,66	3,23	3,56	2,88	3,55	3,93	3,88	4,64	5,22	3,98	4,98	5,44
Water flow rate system side	l/h	157	291	318	204	208	338	380	504	543	390	526	568	462	561	618	501	616	683	674	807	907	718	865	945
Pressure drop system side	kPa	3	8	9	5	11	13	15	24	28	10	16	19	26	29	36	18	27	32	10	14	17	13	20	23

#### Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	0,97	1,41	1,56	1,10	1,68	1,84	2,05	2,74	2,91	2,24	3,00	3,22	2,55	3,07	3,33	2,86	3,57	3,93	3,62	4,35	4,90	3,92	4,72	5,26
Sensible cooling capacity	kW	0,73	1,07	1,18	0,79	1,19	1,29	1,41	1,89	2,01	1,58	2,14	2,30	1,96	2,38	2,61	2,16	2,65	2,92	2,74	3,26	3,63	2,89	3,50	3,89
Water flow rate system side	l/h	170	250	279	193	296	327	358	480	515	390	525	566	445	538	588	499	624	691	633	760	860	685	824	922
Pressure drop system side	kPa	3	7	9	5	12	14	15	27	31	11	20	23	25	36	44	16	31	37	10	14	18	16	21	26

### Fan

Type	type	Centrifugal																							
Fan motor	type	Asynchronous																							
Number	no.	1			1			2			2			2			2			3			3		
Air flow rate	m <sup>3</sup> /h	161	256	285	160	249	277	287	397	433	280	386	420	417	524	590	406	509	570	572	704	805	563	685	775
High static pressure	Pa	21	50	61	21	50	61	26	50	60	26	50	60	32	50	64	32	50	63	33	50	66	34	50	64
Input power	W	23	38	59	23	38	58	34	53	76	34	52	75	43	57	93	43	57	92	63	75	104	63	74	107
Electrical wiring		V1	V4	V6	V1	V4	V6	V1	V4	V6	V1	V4	V6	V1	V3	V6	V1	V3	V6	V1	V3	V7	V1	V3	V7

#### Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	44,0	52,0	54,0	44,0	52,0	54,0	47,0	53,0	55,0	47,0	53,0	55,0	49,0	54,0	57,0	49,0	54,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0
Sound power level (outlet)	dB(A)	40,0	48,0	50,0	40,0	48,0	50,0	42,0	48,0	50,0	42,0	48,0	50,0	44,0	49,0	52,0	44,0	49,0	52,0	45,0	51,0	54,0	45,0	51,0	54,0

### Water coil

Water content main coil	l	0,7	1,0	1,1	1,5	1,5	2,1	1,8	2,3
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### Diameter hydraulic fittings

Main coil	∅	3/4"																							
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### Power supply

Power supply		230V~50Hz																							
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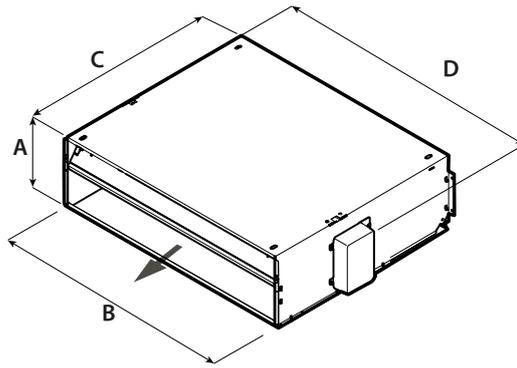
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(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



		VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
<b>Dimensions and weights</b>									
A	mm	217	217	217	217	217	217	217	217
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	560	560	560	560	560	560	560	560
D	mm	576	576	807	807	1027	1027	1148	1148

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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# VED 430-741

## Fan coil unit for ducted installations

- Horizontal and vertical installation
- Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group



### DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

### FEATURES

#### Case

Unit for internal installation. The casing is in aluminum with internal class 1 fire insulation and IP20 protection degree.

#### Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise. Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. Fan housing in plastic material removable for easy and effective cleaning.

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with 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.*

#### Air filter

Air filter Class G3, for easy removal and cleaning.

#### Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement. The unit is supplied with the delivery connection supplied.

## ACCESSORIES



### Control panels

**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.

**SIT3:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card.

**SIT5:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

**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. 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).

**WMT05:** Electronic thermostat with thermostated ventilation.

**WMT06:** Electronic thermostat with continuous ventilation.

**WMT10:** Electronic thermostat, white, with thermostated or continuous ventilation.

### VMF system

**VMF-E0X:** Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**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-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-IO:** Manage the unit exclusively from a centralized VMF control panel without area control panel.

**VMF-LON:** Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

**VMF-MOD:** Expansion board for the management of modulating valves.

**VMF-SIT3:** Interface card that permits connecting the VMF-E19 thermostats to a fan coil with a high power motor.

**VMF-SW1:** Extra water probe to be used for 4-pipe systems.

### Water valves

**VJP:** Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

**VCT:** These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

**VCT:** These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

**VCTK:** The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

**VCTKM:** The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

**VCF45C - 47C - for main coil:** Motorized 3-way valve kit for main coil. The kit consists of a 4-way 4-way valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF45H - 47H - for heating only coil:** Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF25C - for main coil:** 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF25H - for heating only coil:** 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

**BCV:** Condensate drip.

### Installation accessories

**MZC:** Plenum with motorised dampers.

**RDA\_V:** Straight intake connection with rectangular flange.

**RPA\_V:** Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**PA\_V:** Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

**PM\_V:** Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

**RPM\_V:** Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**KFV10:** Circular flanges kit for plenum.

### Configurator

Field	Description
1,2,3	<b>VED</b>
4	<b>Size</b> 4, 5, 6, 7
5	<b>Main coil</b>
3	3-row coil
4	4-row coil
6	<b>Secondary coil</b>
0	Without coil
1	1-row coil for heating only
2	2-row coil for heating only

## ACCESSORIES COMPATIBILITY

### Control panels and dedicated accessories

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
AER503IR (1)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PRO503	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SA5 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT3 (3)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT5 (4)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SWS (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TX (1)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT05	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT06	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT10	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Amperes.

(4) Probe for AER503IR-TX thermostats, if fitted.

### VMF system

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
VMF-E0X (1)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E19	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-I0	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-LON	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-MOD	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SIT3 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Also the accessory VMF-SIT3 is mandatory if the unit exceeds 0.7 Amperes.

(2) For the selection, consult the documentation for the thermostat and the fan coil.

### Water valves

#### 3 way valve kit

	VED430	VED440	VED530	VED540	VED630	VED640	VED730	VED740
<b>3 way valve kit</b>								
Main coil	VCF45C	VCF45C	VCF45C	VCF45C	VCF47C	VCF47C	VCF47C	VCF47C
	VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
<b>3 way valve kit</b>								
Main coil	VCF45C	VCF45C	VCF45C	VCF45C	VCF47C	VCF47C	VCF47C	VCF47C
Secondary coil x 4-pipe	VCF45H	VCF45H	VCF45H	VCF45H	VCF47H	VCF47H	VCF47H	VCF47H

230V power supply - Hydraulic connection Ø 3/4"

#### 2 way valve kit

	VED430	VED440	VED530	VED540	VED630	VED640	VED730	VED740
<b>2 way valve kit</b>								
Main coil	VCF25C							
	VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
<b>2 way valve kit</b>								
Main coil	VCF25C							
Secondary coil x 4-pipe	VCF25H							

230V power supply - Hydraulic connection Ø 3/4"

**2-way globe valves actuator excluded**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCT102	VCT202														

**3-way globe valves actuator excluded**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCT103	VCT203	VCT203	VCT203	VCT203	VCT203	VCT203	VCT403	VCT403							

**Actuator 230V**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCTK															

**Actuator 24V**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCTKM															

**Combined adjustment and balancing valve cold side**

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
VJP150 (1)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VJP150M (2)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VJP270M (2)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) 230V~50Hz  
(2) 24V

**VJP/VJP\_M the compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.**

**Accessories for intake**

**Intake straight with rectangular flanges**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RDA450V	RDA670V														

**Intake plenum with rectangular flanges**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RPA450V	RPA670V														

**Intake plenum with circular flanges**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	PA450V	PA670V														

**Delivery accessories**

**Plenum with motor-driven dampers**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	MZC5040	MZC7050														

**Delivery plenum internally insulated, with rectangular flanges**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RPM450V	RPM670V														

**Delivery plenum internally insulated, with circular flanges**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	PM450V	PM670V														

**Circular flanges kit for plenum**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	KFV10															

**Condensate drip**

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	BCV45	BCV67														

## PERFORMANCE SPECIFICATIONS

### 2-pipe

	VED430			VED440			VED530			VED540			VED630			VED640			VED730			VED740								
	1	3	5	1	3	5	2	4	5	2	4	5	1	3	5	1	3	5	1	3	5	1	3	5						
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H						
<b>Heating performance 70 °C / 60 °C (1)</b>																														
Heating capacity	kW			10,47	13,85	15,97	11,45	15,36	18,11	13,80	16,47	17,57	15,38	18,59	19,91	18,63	22,67	27,02	22,45	27,74	32,69	21,18	25,36	29,00	22,88	27,65	31,71			
Water flow rate system side	l/h			918	1214	1401	1004	1347	1588	1210	1444	1541	1349	1630	1746	1634	1988	2369	1969	2433	2867	1857	2224	2543	2007	2425	2781			
Pressure drop system side	kPa			9	14	19	11	18	24	13	18	21	18	25	29	30	43	58	19	29	38	38	55	67	26	36	46			
<b>Heating performance 45 °C / 40 °C (2)</b>																														
Heating capacity	kW			5,20	5,88	7,94	5,69	7,64	9,01	6,86	8,19	8,74	7,45	9,24	9,90	9,26	11,20	13,40	9,88	12,40	14,80	10,50	12,60	14,20	11,30	13,70	15,70			
Water flow rate system side	l/h			894	1183	1366	979	1314	1550	1180	1409	1503	1281	1589	1703	1593	1926	2305	1699	2133	2546	1806	2167	2442	1944	2356	2700			
Pressure drop system side	kPa			9	14	19	11	18	24	14	19	21	21	25	30	30	42	58	16	24	32	38	52	66	26	36	35			
<b>Cooling performance 7 °C / 12 °C (3)</b>																														
Cooling capacity	kW			4,54	5,98	6,72	5,21	6,88	7,79	5,99	7,16	7,49	7,26	8,31	8,70	8,67	10,43	12,19	10,20	12,50	14,80	10,17	11,92	13,48	11,73	13,95	13,71			
Sensible cooling capacity	kW			3,40	4,54	5,13	3,65	4,86	5,51	4,55	5,48	5,75	4,87	5,90	6,18	7,00	8,48	9,96	7,02	8,62	10,30	8,25	9,71	11,07	8,11	9,69	10,95			
Water flow rate system side	l/h			781	1029	1156	896	1183	1340	1030	1232	1288	1249	1429	1496	1491	1794	2097	1754	2150	2546	1749	2050	2319	2018	2399	2702			
Pressure drop system side	kPa			8	13	17	10	17	22	12	19	21	19	25	28	26	36	48	24	34	47	35	46	58	27	37	45			
<b>Fan</b>																														
Type	type			Centrifugal																										
Fan motor	type			Asynchronous																										
Number	no.			2			2			2			2			3			3			3			3					
Air flow rate	m <sup>3</sup> /h			790	1130	1350	780	1100	1340	1120	1400	1520	1100	1380	1500	1380	1800	2210	1567	2004	2440	1640	2040	2410	1600	2000	2350			
High static pressure	Pa			24	50	72	-	50	63	32	50	70	32	50	56	30	50	75	30	50	75	32	50	69	32	50	64			
Input power	W			137	175	228	135	178	222	175	232	270	172	230	267	220	271	340	220	293	340	234	285	371	234	285	371			
Electrical wiring				V1	V3	V5	V1	V3	V5	V2	V4	V5	V2	V4	V5	V1	V3	V5	V1	V3	V5	V1	V3	V5	V1	V3	V5	V1	V3	V5
<b>Duct type fan coil sound data (4)</b>																														
Sound power level (inlet + radiated)	dB(A)			51,0	57,0	61,0	51,0	57,0	61,0	53,0	59,0	62,0	53,0	59,0	62,0	61,0	64,0	68,0	61,0	64,0	68,0	62,0	66,0	68,0	62,0	66,0	68,0			
Sound power level (outlet)	dB(A)			47,0	53,0	57,0	47,0	53,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0	57,0	60,0	64,0	57,0	60,0	64,0	58,0	62,0	64,0	58,0	62,0	64,0			
<b>Diameter hydraulic fittings</b>																														
Type	type			-																										
Main coil	Ø			3/4"																										
<b>Water coil</b>																														
Water content main coil	l			2,9			3,9			2,9			3,9			4,7			6,3			4,7			6,3					
<b>Power supply</b>																														
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) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(4) Aermecc determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

### 4-pipe

	VED441			VED541			VED641			VED741					
	1	3	5	2	4	5	1	3	5	1	3	5			
	L	M	H	L	M	H	L	M	H	L	M	H			
<b>Heating performance 65 °C / 55 °C (1)</b>															
Heating capacity	kW			5,53	6,68	7,30	6,70	7,62	7,89	9,65	11,00	12,30	10,50	11,80	12,90
Water flow rate system side	l/h			475	574	627	576	655	678	829	946	1057	903	1014	1109
Pressure drop system side	kPa			14	20	23	20	25	26	15	19	24	18	22	25
<b>Cooling performance 7 °C / 12 °C (2)</b>															
Cooling capacity	kW			5,35	7,05	8,00	7,46	8,56	8,94	10,40	12,70	15,20	11,90	14,20	16,10
Sensible cooling capacity	kW			3,79	5,03	5,74	5,07	6,14	6,42	7,26	8,92	10,70	8,37	9,96	11,30
Water flow rate system side	l/h			920	1212	1376	1283	1472	1537	1788	2184	2614	2046	2442	2769
Pressure drop system side	kPa			12	19	24	21	27	29	24	35	48	27	37	46
<b>Fan</b>															
Type	type			Centrifugal											
Fan motor	type			Asynchronous											
Number	no.			2			2			3			3		
Air flow rate	m <sup>3</sup> /h			750	1060	1253	1060	1360	1453	1340	1730	2120	1600	2000	2358
High static pressure	Pa			25	50	70	32	50	57	30	50	75	32	50	69
Input power	W			121	175	215	170	229	265	224	264	341	224	288	373
Electrical wiring				V1	V3	V5	V2	V4	V5	V1	V3	V5	V1	V3	V5
<b>Duct type fan coil sound data (3)</b>															
Sound power level (inlet + radiated)	dB(A)			51,0	57,0	61,0	53,0	59,0	62,0	61,0	64,0	68,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)			47,0	53,0	57,0	49,0	55,0	58,0	57,0	60,0	64,0	58,0	62,0	64,0
<b>Diameter hydraulic fittings</b>															
Type	type			-											
Main coil	Ø			3/4"											
Secondary coil	Ø			1/2"											
<b>Water coil</b>															
Water content main coil	l			3,9			3,9			6,3			6,3		
Water content the secondary coil	l			1,0			1,0			1,6			1,6		
<b>Power supply</b>															

	<b>VED441</b>	<b>VED541</b>	<b>VED641</b>	<b>VED741</b>
Power supply	230V~50Hz			

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

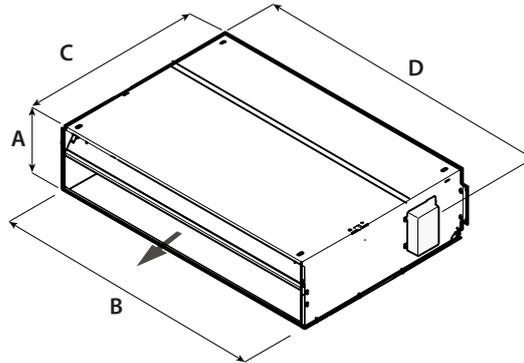
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

<b>VED</b>	<b>From VED 430 to 741</b>				
Fan speed	V1	V2	V3	V4	V5
Motor connection	L5	L4	L3	L2	L1

The speed of associates may differ from the standard factory configuration.

For more information refer to the selection program and to the dedicated documentation.

## DIMENSIONS



		VED430	VED440	VED530	VED540	VED630	VED640	VED730	VED740
<b>Dimensions and weights</b>									
A	mm	300	300	300	300	351	351	351	351
B	mm	1133	1133	1133	1133	1533	1533	1533	1533
C	mm	737	737	737	737	789	789	789	789
D	mm	1158	1158	1158	1158	1558	1558	1558	1558
Net weight	kg	41	43	42	47	57	60	58	61

		VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
<b>Dimensions and weights</b>									
A	mm	300	300	300	300	351	351	351	351
B	mm	1133	1133	1133	1133	1533	1533	1533	1533
C	mm	737	737	737	737	789	789	789	789
D	mm	1158	1158	1158	1158	1558	1558	1558	1558
Net weight	kg	46	46	47	47	60	60	61	64

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.

**Aermec S.p.A.**

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# VED 030I-340I

## Fan coil unit for ducted installations

- Horizontal and vertical installation
- Large range of available static pressure
- Inspectable ventilation group
- Total comfort: reduced temperature and humidity oscillations
- Electricity savings of 50% compared with a fan coil with multi-speed motor



### DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

### FEATURES

#### Case

Unit for internal installation. Internally insulated structure with class 1 fire resistance and IP20 protection.

#### Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise. Brushless motor with continuous speed variation 0-100%. Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room. The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with 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.*

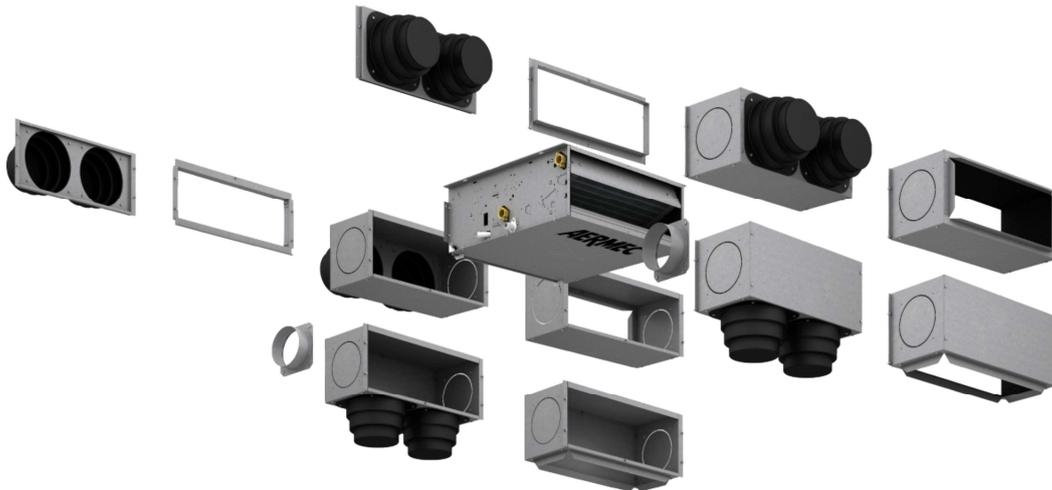
#### Air filter

Air filter Class G3, for easy removal and cleaning.

#### Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement. The unit is supplied with the delivery connection supplied.

## ACCESSORIES



### Control panels

**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.

**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.

**SWA1:** External air or water temperature probe.

**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).

**WMT21:** Electronic thermostat for inverter fancoils.

### VMF Components

**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, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X 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-IO:** Manage the unit exclusively from a centralized VMF control panel without area control panel.

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

**VMF-SW:** Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

**VMF-SW1:** Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

### Valves and additional water coil

**BV:** Single row hot water heat exchanger.

**VCF\_X:** Kit of 3-way valves for fan coils with a single coil and the water connections on the left, for installation in 4-pipe systems. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. 230V power supply. Water connections: Valve body Ø G 3/4" male; Valve side connection tubes Ø G 3/4" female; Unit side connection tubes Ø G 3/4" male.

**VCF41 - 42 - 43 - for main coil:** 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

**VCF44 - 45 - for the secondary coil:** The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

**VCFD:** Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

**VJP:** Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

### Installation accessories

**AMP:** Wall mounting kit

**BC:** Condensate drip.

**DSC:** Condensate drainage device.

### Accessories for intake

**GA:** Intake grid with fixed louvers

**GAF:** Intake grid with filter and fixed louvers

**SE\_X:** External air shutter with manual control.

**RDA\_V:** Straight intake connection with rectangular flange.

**RDA\_C:** Straight intake connection with circular flanges.

**RPA\_V:** Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**PA\_V:** Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

### Delivery accessories

**GM:** Flow grid with adjustable louvers.

**MZC:** Plenum with motorised dampers.

**PM\_V:** Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

**RPM\_V:** Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**RDM\_C:** Straight discharge internally insulated, with circular flanges.

**KFV:** Circular flanges kit for plenum.

## ACCESSORIES COMPATIBILITY

### Control panels and dedicated accessories

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
AER503IR	*	*	*	*	*	*	*	*
PRO503	*	*	*	*	*	*	*	*
SA5	*	*	*	*	*	*	*	*
SW3	*	*	*	*	*	*	*	*
SW5	*	*	*	*	*	*	*	*
SWAI	*	*	*	*	*	*	*	*
TX	*	*	*	*	*	*	*	*
WMT21	*	*	*	*	*	*	*	*

### VMF system

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
VMF-E19I	*	*	*	*	*	*	*	*
VMF-E3	*	*	*	*	*	*	*	*
VMF-E4DX	*	*	*	*	*	*	*	*
VMF-E4X	*	*	*	*	*	*	*	*
VMF-I0	*	*	*	*	*	*	*	*
VMF-IR	*	*	*	*	*	*	*	*
VMF-LON	*	*	*	*	*	*	*	*
VMF-SW	*	*	*	*	*	*	*	*
VMF-SW1	*	*	*	*	*	*	*	*

### (Heating only) additional coil

Accessory	VED030I	VED130I	VED230I	VED330I
BV030	*			
BV130		*		
BV162				*
BV230			*	

### Water valves

#### Valve Kit for 4 pipe systems with main coil

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
VCF3X4L	*	*	*	*	*	*	*	*
VCF3X4LS				*		*		
VCF3X4R	*	*	*	*	*	*	*	*
VCF3X4RS				*		*		

#### 3 way valve kit

	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
<b>3 way valve kit</b>								
Main coil	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections Ø 3/4"

#### 2 way valve kit

	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
<b>2 way valve kit</b>								
Main coil	VCFD3-VCFD324							
Additional coil "BV"	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"

VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

#### Combined adjustment and balancing valve cold side

Model	Ver	030	040	130	140	230	240	330	340
VJP060 (1)	I	*	*	*	*				
VJP060M (2)	I	*	*	*	*				
VJP090 (1)	I					*	*	*	*
VJP090M (2)	I					*	*	*	*
VJP150 (1)	I							*	*
VJP150M (2)	I							*	*

(1) 230V ~ 50Hz

(2) 24V

VJP060 - 090 - 150 (230V ~ 50Hz); VJP060M-090M-150M (24V)

### Installation accessories

#### Wall mounting accessories

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED340I
AMP	*	*	*	*	*	*	*

### Condensate drip

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
BC24	*	*	*	*	*	*	*	*
BC26	*	*	*	*	*	*	*	*
Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
BC9	*	*	*	*	*	*	*	*

BC24 For vertical installation.  
BC26 For horizontal installation.  
BC9 For horizontal installation.

### Condensate drainage

Ver	030	040	130	140	230	240	330	340
I	DSC4							

### Accessories for intake

#### Intake grids

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
GA22	*	*						
GA32			*	*				
GA42					*	*		
GA62							*	*

#### Intake grid with filter and fixed louvers

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
GAF22	*	*						
GAF32			*	*				
GAF42					*	*		
GAF62							*	*

#### External air shutter with manual control

Ver	030	040	130	140	230	240	330	340
I	SE20X (1)	SE20X (1)	SE30X (1)	SE30X (1)	SE40X (1)	SE40X (1)	SE80X (1)	SE80X (1)

(1) The SE accessories must be combined with the design and structural feet.

#### Intake straight with rectangular flanges

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RDA000V	*	*						
RDA100V			*	*				
RDA200V					*	*		
RDA300V							*	*

#### Intake straight internally insulated, with circular flanges

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RDAC000V	*	*						
RDAC100V			*	*				
RDAC200V					*	*		
RDAC300V							*	*

#### Intake plenum with rectangular flanges

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RPA000V	*	*						
RPA100V			*	*				
RPA200V					*	*		
RPA300V							*	*

#### Intake plenum with circular flanges

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
PA000V	*	*						
PA100V			*	*				
PA200V					*	*		
PA300V							*	*

### Delivery accessories

#### Outlet grille with adjustable louvers

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
GM22	*	*						
GM32			*	*				
GM42					*	*		
GM62							*	*

**Plenum with motor-driven dampers**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
MZC220	.	.						
MZC320			.	.				
MZC530					.	.		
MZC830							.	.

**Delivery plenum internally insulated, with circular flanges**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
PM000V	.	.						
PM100V			.	.				
PM200V					.	.		
PM300V							.	.

**Delivery plenum internally insulated, with rectangular flanges**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RPM000V	.	.						
RPM100V			.	.				
RPM200V					.	.		
RPM300V	.						.	.

**Delivery straight internally insulated, with circular flanges**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RDMC000V	.	.						
RDMC100V			.	.				
RDMC200V					.	.		
RDMC300V							.	.

**Straight delivery coupling**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
RDM000V	.	.						
RDM100V			.	.				
RDM200V					.	.		
RDM300V							.	.

**Circular flanges kit for plenum**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
KFV10	.	.	.	.	.	.	.	.

## PERFORMANCE SPECIFICATIONS

### 2-pipe

		VED030I			VED040I			VED130I			VED140I			VED230I			VED240I			VED330I			VED340I		
		1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
<b>Heating performance 70 °C / 60 °C (1)</b>																									
Heating capacity	kW	1,82	3,37	3,69	2,37	3,57	3,92	4,40	5,83	6,29	4,52	6,09	6,58	5,35	6,50	7,16	5,80	7,14	7,91	7,81	9,34	10,51	8,31	10,08	10,95
Water flow rate system side	l/h	160	296	323	207	313	343	386	512	552	396	534	577	469	570	628	509	626	694	685	819	921	729	878	960
Pressure drop system side	kPa	3	7	9	4	10	12	13	22	26	9	16	18	27	30	37	18	26	32	9	13	16	22	28	32
<b>Heating performance 45 °C / 40 °C (2)</b>																									
Heating capacity	kW	0,90	1,67	1,83	1,17	1,77	1,94	2,18	2,90	3,12	2,24	3,02	3,27	2,66	3,23	3,56	2,88	3,55	3,93	3,88	4,64	5,22	3,98	4,98	5,44
Water flow rate system side	l/h	157	291	318	204	308	338	380	504	543	390	526	568	462	561	618	501	616	683	674	807	907	718	865	945
Pressure drop system side	kPa	3	8	9	5	11	13	15	24	28	10	16	19	26	29	36	18	27	32	10	14	17	13	20	23
<b>Cooling performance 7 °C / 12 °C (3)</b>																									
Cooling capacity	kW	0,98	1,42	1,58	1,11	1,69	1,86	2,06	2,76	2,95	2,25	3,02	3,25	2,57	3,09	3,37	2,88	3,59	3,97	3,62	4,36	4,91	3,95	4,72	5,27
Sensible cooling capacity	kW	0,74	1,08	1,20	0,80	1,20	1,31	1,42	1,91	2,05	1,59	2,16	2,32	1,98	2,40	2,65	2,18	2,67	2,96	2,77	3,27	3,64	2,92	3,51	3,90
Water flow rate system side	l/h	170	250	279	193	296	327	358	480	515	390	525	566	445	538	588	499	624	691	633	760	860	563	824	922
Pressure drop system side	kPa	3	7	9	5	12	14	15	27	41	11	20	23	25	36	44	16	31	37	10	14	18	34	21	26
<b>Fan</b>																									
Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1			1			2			2			2			2			3			3		
Air flow rate	m <sup>3</sup> /h	161	256	285	160	249	277	287	397	434	280	386	420	417	524	590	406	509	570	572	704	805	563	685	775
High static pressure	Pa	21	50	61	21	50	61	26	50	60	26	50	60	32	50	64	32	50	63	33	50	66	34	50	64
Input power	W	12	29	36	12	29	36	17	33	45	17	33	45	24	40	53	24	40	53	35	60	86	35	60	86
Signal 0-10V	%	54	80	90	54	80	90	58	82	90	58	82	90	66	80	90	62	80	90	62	78	90	66	84	90
<b>Duct type fan coil sound data (4)</b>																									
Sound power level (inlet + radiated)	dB(A)	44,0	52,0	54,0	44,0	52,0	54,0	47,0	53,0	55,0	47,0	53,0	55,0	49,0	54,0	57,0	49,0	54,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0
Sound power level (outlet)	dB(A)	40,0	48,0	50,0	40,0	48,0	50,0	42,0	48,0	50,0	42,0	48,0	50,0	44,0	49,0	52,0	44,0	49,0	52,0	45,0	51,0	54,0	45,0	51,0	54,0
<b>Diameter hydraulic fittings</b>																									
Type	type	Gas - F																							
Main coil	∅	3/4"																							
<b>Power supply</b>																									
Power supply		230V~50Hz																							

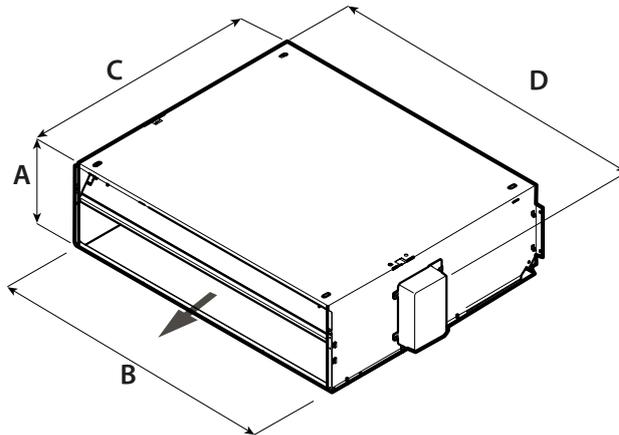
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(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



		VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
<b>Dimensions and weights</b>									
A	mm	217	217	217	217	217	217	217	217
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	584	584	584	584	584	584	584	584
D	mm	576	576	807	807	1027	1027	1148	1148

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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## VED 530I-741I

## Fan coil unit for ducted installations



- Horizontal and vertical installation
- Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group



### DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

### FEATURES

#### Case

Unit for internal installation. The casing is in aluminum with internal class 1 fire insulation and IP20 protection degree.

#### Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise. Brushless motor with continuous speed variation 0-100%. Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

#### Heat exchanger coil

With copper pipes and aluminium louvers, the main coil has female gas hydraulic connections and is fitted with 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.*

#### Air filter

Air filter Class G3, for easy removal and cleaning.

#### Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

## ACCESSORIES



**AER503:** Wall-mounted panel.

**SA5:** Air temperature probe.

**SW5:** Water temperature probe.

**SWAI:** External air or water temperature probe.

**WMT21:** Electronic thermostat for inverter fancoils.

**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-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-IO:** Expansion board that extends the availability of digital inputs and outputs (configured via the dip switches).

**VMF-LON:** Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

**VMF-SW:** Water temperature probe.

**VMF-SW1:** Extra water probe to be used for 4-pipe systems.

**VJP:** Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

**VCF45C - 47C - for main coil:** Motorized 3-way valve kit for main coil. The kit consists of a 4-way 4-way valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF45H - 47H - for heating only coil:** Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF25C - for main coil:** 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

**VCF25H - for heating only coil:** 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

**MZC:** Plenum with motorised dampers.

**RDA\_V:** Straight intake connection with rectangular flange.

**RPA\_V:** Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**PA\_V:** Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

**PM\_V:** Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

**RPM\_V:** Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

**KFV10:** Circular flanges kit for plenum.

### Configurator

Field	Description
1,2,3	VED
4	Size 5, 7
5	Main coil
3	3-row coil
4	4-row coil
6	Secondary coil
0	Without coil
1	1-row coil for heating only
2	2-row coil for heating only

## ACCESSORIES COMPATIBILITY

### Control panels and dedicated accessories

Model	Ver	530	532	540	541	730	732	740	741
AER503	.	.	.	.	.	.	.	.	.
SA5	.	.	.	.	.	.	.	.	.
SW5	.	.	.	.	.	.	.	.	.
SWAI (1)	.	.	.	.	.	.	.	.	.
WMT21	.	.	.	.	.	.	.	.	.

(1) Probe for thermostat WMT21.

### VMF system

Model	Ver	530	532	540	541	730	732	740	741
VMF-E19I	.	.	.	.	.	.	.	.	.
VMF-E4DX	.	.	.	.	.	.	.	.	.
VMF-E4X	.	.	.	.	.	.	.	.	.
VMF-IO	.	.	.	.	.	.	.	.	.
VMF-LON	.	.	.	.	.	.	.	.	.
VMF-SW	.	.	.	.	.	.	.	.	.
VMF-SW1	.	.	.	.	.	.	.	.	.

### Water valves

#### 3 way valve kit

Ver	530	532	540	541	730	732	740	741
.	VCF45C (1)	VCF45C (1)	VCF45C (1)	VCF45C (1)	VCF47C (1)	VCF47C (1)	VCF47C (1)	VCF47C (1)

(1) 230V power supply - Hydraulic connection Ø 3/4"

#### 3-way valve kit for heating only coil

Ver	530	532	540	541	730	732	740	741
.	-	VCF45H (1)	-	VCF45H (1)	-	VCF47H (1)	-	VCF47H (1)

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

The accessory cannot be fitted on the configurations indicated with -

#### 2 way valve kit

Model	Ver	530	532	540	541	730	732	740	741
VCF25C (1)	.	.	.	.	.	.	.	.	.

(1) 230V power supply - Hydraulic connection Ø 3/4"

#### 2-way valve for heating only coil

Model	Ver	530	532	540	541	730	732	740	741
VCF25H (1)	.	.	.	.	.	.	.	.	.

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

#### 2-way globe valves actuator excluded

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCT102	VCT202														

#### Actuator 230V

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCTA230															

#### Actuator 24V

Ver	030	040	130	140	230	240	330	340
.	GAF22	GAF22	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62

#### Combined adjustment and balancing valve cold side

Model	Ver	530	532	540	541	730	732	740	741
VJP150 (1)	.	.	.	.	.	.	.	.	.
VJP150M (2)	.	.	.	.	.	.	.	.	.
VJP270M (2)	.	.	.	.	.	.	.	.	.

(1) 230V~50Hz

(2) 24V

**VJP/VJP\_M the compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.**

### Accessories for intake

#### Intake straight with rectangular flanges

Ver	530	532	540	541	730	732	740	741
.	RDA450V	RDA450V	RDA450V	RDA450V	RDA670V	RDA670V	RDA670V	RDA670V

Intake plenum with rectangular flanges

Ver	530	532	540	541	730	732	740	741
.	RPA450V	RPA450V	RPA450V	RPA450V	RPA670V	RPA670V	RPA670V	RPA670V

Intake plenum with circular flanges

Ver	530	532	540	541	730	732	740	741
.	PA450V	PA450V	PA450V	PA450V	PA670V	PA670V	PA670V	PA670V

Delivery accessories

Plenum with motor-driven dampers

Ver	530	532	540	541	730	732	740	741
.	MZC5040	MZC5040	MZC5040	MZC5040	MZC7050	MZC7050	MZC7050	MZC7050

Delivery plenum internally insulated, with rectangular flanges

Ver	530	532	540	541	730	732	740	741
.	RPM450V	RPM450V	RPM450V	RPM450V	RPM670V	RPM670V	RPM670V	RPM670V

Delivery plenum internally insulated, with circular flanges

Ver	530	532	540	541	730	732	740	741
.	-	-	-	-	PM670V	PM670V	PM670V	PM670V

The accessory cannot be fitted on the configurations indicated with -

Circular flanges kit for plenum

Ver	530	532	540	541	730	732	740	741
.	KFV10							

PERFORMANCE SPECIFICATIONS

2-pipe

	VED530I			VED540I			VED730I			VED740I		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	13,80	16,47	17,57	15,38	18,59	19,91	21,18	25,36	29,00	22,88	27,65	31,71
Water flow rate system side	l/h	1210	1444	1541	1349	1630	1746	1857	2224	2543	2007	2425	2781
Pressure drop system side	kPa	13	18	21	18	25	29	38	55	67	26	36	46

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	6,86	8,19	8,74	7,65	9,24	9,90	10,53	12,61	14,22	11,34	27,65	15,81
Water flow rate system side	l/h	1180	1409	1503	1316	1589	1703	1811	2169	2446	1950	2425	2719
Pressure drop system side	kPa	14	19	21	21	25	30	38	52	66	26	36	46

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	6,05	7,25	7,39	7,31	8,40	8,70	10,25	11,96	13,48	11,81	13,99	15,71
Sensible cooling capacity	kW	4,61	5,57	6,02	4,93	5,99	6,18	8,33	9,75	11,07	8,19	9,73	10,95
Water flow rate system side	l/h	1041	1247	1271	1257	1445	1496	1763	2057	2319	2031	2406	2702
Pressure drop system side	kPa	12	19	21	19	25	28	35	46	58	27	37	45

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	2			2			3			3		
Air flow rate	m <sup>3</sup> /h	1120	1400	1520	1100	1380	1500	1640	2040	2410	1600	2000	2358
High static pressure	Pa	32	50	58	32	50	56	32	50	69	32	50	69
Input power	W	115	160	205	115	160	205	147	241	370	147	241	370
Signal 0-10V	%	66	76	62	62	76	90	62	76	90	62	76	90

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	53,0	59,0	62,0	53,0	59,0	62,0	62,0	66,0	68,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	49,0	55,0	58,0	49,0	55,0	58,0	58,0	62,0	64,0	58,0	62,0	64,0

Diameter hydraulic fittings

Main coil	∅	3/4"										
Secondary coil	∅	-										

Power supply

Power supply	230V~50Hz												
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(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) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(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.

#### 4-pipe

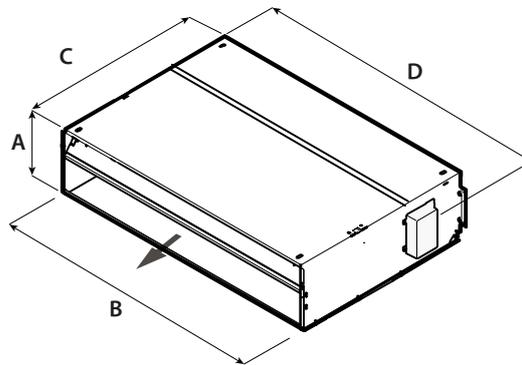
		VED541I			VED741I		
		1	2	3	1	2	3
		L	M	H	L	M	H
<b>Heating performance 65 °C/55 °C (1)</b>							
Heating capacity	kW	6,70	7,62	7,90	10,57	11,88	12,96
Water flow rate system side	l/h	584	666	692	925	1040	1133
Pressure drop system side	kPa	19	24	26	17	21	25
<b>Cooling performance 7 °C/12 °C (2)</b>							
Cooling capacity	kW	7,43	8,54	8,97	11,96	14,23	16,08
Sensible cooling capacity	kW	5,04	6,13	6,45	8,34	9,97	11,32
Water flow rate system side	l/h	1278	1469	1543	2057	2448	2766
Pressure drop system side	kPa	21	27	29	27	37	46
<b>Fan</b>							
Type	type	Centrifugal					
Fan motor	type	Inverter					
Number	no.	2			3		
Air flow rate	m <sup>3</sup> /h	1060	1360	1460	1600	2000	2350
High static pressure	Pa	32	50	56	32	50	69
Input power	W	106	163	185	138	240	363
Signal 0-10V	%	66	84	90	64	78	90
<b>Duct type fan coil sound data (3)</b>							
Sound power level (inlet + radiated)	dB(A)	53,0	59,0	62,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	49,0	55,0	58,0	58,0	62,0	64,0
<b>Diameter hydraulic fittings</b>							
Secondary coil	∅	1/2"					
Main coil	∅	3/4"					
<b>Power supply</b>							
Power supply		230V~50Hz					

(1) Room air temperature 20 °C d.b.; Water (in/out) 65 °C/55 °C;

(2) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °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



		VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
<b>Dimensions and weights</b>									
A	mm	300	300	300	300	351	351	351	351
B	mm	1133	1133	1133	1133	1533	1533	1533	1533
C	mm	737	737	737	737	789	789	789	789
D	mm	1158	1158	1158	1158	1558	1558	1558	1558
Net weight	kg	42	47	47	47	58	58	61	61

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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