















## **VED 030-340**

#### Fan coil unit for ducted installations



- 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

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.

**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.

**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 Components**

**SIT3Z:** Interface card that permits connecting the VMF-E19 thermostats to a fan coil with a high power motor.

**VMF-EOX:** 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 PAN-TONE COOL GRAY 1C.

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

VMF-SW: Water temperature probe.

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

#### 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 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.

**VCF44 - 45 - for the secondary coil:** The 3-way motorised valve kit for the secondary coil or an optional heat only coil. 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

**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.

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

#### **ACCESSORIES COMPATIBILITY**

#### **Control panels and dedicated accessories**

Model	Ver	030	040	130	140	230	240	330	340
AER503IR (1)			•	•	•	•	•	•	•
PR0503		•	•	•	•	•	•	•	•
SA5 (2)			•	•	•	•	•		•
SIT3 (3)		•	•	•	•	•	•	•	•
SIT5 (4)			•	•	•	•	•		•
SW5 (2)		•	•	•	•	•	•	•	•
TX (1)		•	•	•	•	•	•	•	•
WMT05			•	•	•	•	•		•
WMT06		•	•	•	•	•	•	•	•
WMT10					•	•	•	•	•

- (1) Wall-mount installation.(2) Probe for AER503IR-TX thermostats, if fitted.
- (2) Trobe for ACR503IR-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
SIT3Z								•	•
VMF-E0X (1)		•	•	•	•	•	•	•	•
VMF-E19		•	•	•	•	•	•	•	•
VMF-E3		•	•	•	•	•	•	•	•
VMF-E4DX				•			•	•	•
VMF-E4X		•	•	•	•	•	•	•	•
VMF-IR		•	•	•	•	•	•	•	•
VMF-SIT3 (2)								•	
VMF-SW		•	•	•	•	•	•	•	•
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.

#### (Heating only) additional coil

Accessory	VED030	VED130	VED230	VED330
BV030	•			
BV130		•		
BV162				•
BV230			•	

#### **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
3 way valve kit	,							
Main coil	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VFC4524	-	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
2 way valve kit	'							
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.

Accessory	and balancing valve VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
cessory P060	VEDU30 •	VEDU40 •			VENZOU	VEDZ40	νευσού	VED340
			•	•				
P060M	•	•	•	•				
IP090					•	•	•	•
JP090M					•	•	•	•
'JP150							•	•
/JP150M							•	•
nstallation accessori	es							
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
AMP	•	•	•	•	•	•	•	•
Condensate drip								
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
accessory BCZ4								
	•	•	•	•	•	•	•	•
3CZ6	•	•	•	•	•	•	•	•
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
309	•	•	•	•	•	•	•	•
BCZ4 For vertical installation. BCZ6 For horizontal installation. BC9 For horizontal installation.								
Accessories for intake	2							
ntake grids								
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
GA22	•	•						
5A32			•	•				
GA42					•	•		
5A62							•	•
ntake grid with filter a	nd fixed louvers							
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
GAF22	•	•						
SAF32			•	•				
			•	•	•	•		
GAF42			•	•	•	•	•	•
GAF32 GAF42 GAF62	h manual control		•	•	•	•	•	•
5AF42 SAF62 E <b>xternal air shutter wit</b>		VFD040						
GAF42 GAF62 External air shutter wit Accessory	VED030	VED040	VED130	VED140	VED230	VED240	• VED330	VED340
GAF42 GAF62 External air shutter wit Accessory 5E20X		VED040	VED130	VED140				
GAF42 GAF62 <b>External air shutter wit</b> <b>Accessory</b> 5E20X SE30X	VED030				VED230	VED240		
GAF42 GAF62 <b>External air shutter wit</b> <b>Accessory</b> GE20X SE30X SE40X	VED030		VED130	VED140			VED330	VED340
GAF42 GAF62 External air shutter wit Accessory GE20X GE30X GE40X	VED030		VED130	VED140	VED230	VED240		
iaF42 iaF62 External air shutter wit Accessory IE20X IE30X IE40X IE80X	VED030		VED130	VED140	VED230	VED240	VED330	VED340
GAF42 GAF62 <b>External air shutter wit</b> <b>Accessory</b> 5E20X SE30X	VED030		VED130	VED140	VED230	VED240	VED330	VED340
GAF42 GAF62 External air shutter wit Accessory SE20X SE30X SE40X SE80X	VED030 • • • • • • • • • • • • • • • • • •	•	VED130	VED140	VED230	VED240	VED330	VED340
GAF42 GAF62 External air shutter wit Accessory GE20X GE30X GE40X GE80X Untake straight with rec	VED030 • stangular flanges VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reco	VED030 • stangular flanges VED030	VED040	VED130  • VED130	VED140  • VED140	VED230	VED240	VED330	VED340
iaF42 iaF62 External air shutter wit Accessory IE20X IE30X IE40X IE80X Intake straight with reco	VED030 • stangular flanges VED030	VED040	VED130  • VED130	VED140  • VED140	VED230  • VED230	VED240  • VED240	VED330	VED340
iAF42 iAF62 External air shutter wit Iccessory E20X E30X E40X E80X Intake straight with rec Iccessory IDA000V IDA100V IDA300V IDA300V	VED030  •  **tangular flanges  VED030  •	VED040	VED130  • VED130	VED140  • VED140	VED230  • VED230	VED240  • VED240	VED330  • VED330	VED340
iaF42 iaF62 External air shutter with Accessory E20X E30X E40X E60X Intake straight with reco	VED030 .  tangular flanges VED030 .	VED040 • rcular flanges	VED130  • VED130  •	VED140  • VED140  •	VED230  • VED230  •	VED240  • VED240  •	VED330  • VED330	VED340  • VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reconcessory RDA100V RDA200V RDA300V RDA300V Intake straight internal Accessory	VED030  •  **tangular flanges  VED030  •  **Ily insulated, with circles	VED040 • rcular flanges VED040	VED130  • VED130	VED140  • VED140	VED230  • VED230	VED240  • VED240	VED330  • VED330	VED340
GAF42 GAF62 External air shutter wit Accessory GE20X GE30X GE40X GE80X Intake straight with rec Accessory RDA100V RDA200V RDA300V Intake straight internal Accessory RDA6000V RDA300V Intake straight internal Accessory RDA6000V	VED030 .  tangular flanges VED030 .	VED040 • rcular flanges	VED130  VED130  VED130	VED140  VED140  VED140  VED140	VED230  • VED230  •	VED240  • VED240  •	VED330  • VED330	VED340  • VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reconcessory RDA100V RDA200V RDA300V Intake straight internal Accessory RDA6000V	VED030  •  **tangular flanges  VED030  •  **Ily insulated, with circles	VED040 • rcular flanges VED040	VED130  • VED130  •	VED140  • VED140  •	VED230  VED230  VED230	VED240  VED240  VED240	VED330  • VED330	VED340  • VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reconcessory RDA100V RDA200V RDA300V RDA400V RDA500V RDA600V	VED030  •  **tangular flanges  VED030  •  **Ily insulated, with circles	VED040 • rcular flanges VED040	VED130  VED130  VED130	VED140  VED140  VED140  VED140	VED230  • VED230  •	VED240  • VED240  •	VED330  VED330  VED330	VED340  VED340  VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reconcessory RDA100V RDA200V RDA300V RDA400V RDA500V RDA600V	VED030  •  **tangular flanges  VED030  •  **Ily insulated, with circles	VED040 • rcular flanges VED040	VED130  VED130  VED130	VED140  VED140  VED140  VED140	VED230  VED230  VED230	VED240  VED240  VED240	VED330  • VED330	VED340  • VED340
GAF42 GAF62 GAF62 GAF62 GAF62 GAF62 GAF62 GAF62 GAF63	VED030 . stangular flanges VED030 . Uly insulated, with circles VED030 . tangular flanges	VED040  •  rcular flanges  VED040  •	VED130  •  VED130  •  VED130  •	VED140  •  VED140  •  VED140  •	VED230  VED230  VED230	VED240  •  VED240  •  VED240	VED330  VED330  VED330	VED340  VED340  VED340
External air shutter with accessory EEQUX EEAUX	VED030 .  ctangular flanges VED030 .  VED030 .  VED030 .	VED040 • rcular flanges VED040	VED130  VED130  VED130	VED140  VED140  VED140  VED140	VED230  VED230  VED230	VED240  VED240  VED240	VED330  VED330  VED330	VED340  VED340  VED340
iaF42 iaF62	VED030 . stangular flanges VED030 . Uly insulated, with circles VED030 . tangular flanges	VED040  •  rcular flanges  VED040  •	VED130  •  VED130  •  VED130  •	VED140  •  VED140  •  VED140  •	VED230  VED230  VED230	VED240  •  VED240  •  VED240	VED330  VED330  VED330	VED340  VED340  VED340
AF42 AF62 External air shutter wit Excessory E20X E30X E40X E80X  Intake straight with rec E20X E20X E20X E20X E20X E20X E20X E20X	VED030 .  Itangular flanges VED030 .  Ily insulated, with circle VED030 .  tangular flanges VED030	VED040 •  rcular flanges  VED040 •  VED040	VED130  •  VED130  •  VED130  •	VED140  •  VED140  •  VED140  •	VED230  VED230  VED230	VED240  •  VED240  •  VED240	VED330  VED330  VED330	VED340  VED340  VED340
iaF42 iaF62 iaF630 iaF6300 iaF6	VED030 .  Itangular flanges VED030 .  Ily insulated, with circle VED030 .  tangular flanges VED030	VED040 •  rcular flanges  VED040 •  VED040	VED130  •  VED130  •  VED130  •  VED130	VED140  •  VED140  •  VED140  •  VED140	VED230  VED230  VED230	VED240  •  VED240  •  VED240	VED330  VED330  VED330	VED340  VED340  VED340
External air shutter with Accessory EEXTERNAL AIR SHARE STAIGHT WITH AIR SHARE	VED030 .  Itangular flanges VED030 .  Ily insulated, with circle VED030 .  tangular flanges VED030	VED040 •  rcular flanges  VED040 •  VED040	VED130  •  VED130  •  VED130  •  VED130	VED140  •  VED140  •  VED140  •  VED140	VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240	VED330  VED330  VED330	VED340  VED340  VED340
iaF42 iaF62	VED030  .  stangular flanges VED030  .  Illy insulated, with circum vertical vertica	VED040 •  rcular flanges  VED040 •  VED040	VED130  •  VED130  •  VED130  •  VED130	VED140  •  VED140  •  VED140  •  VED140	VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340
External air shutter with Accessory EE20X EE30X EE30X EE40X EE60X Intake straight with reconcessory RDA1000V RDA200V RDA300V RDA500V RDA600V R	VED030 .  ctangular flanges VED030 .  lly insulated, with circular flanges VED030 .  tangular flanges VED030 .	VED040  •  rcular flanges  VED040  •	VED130  •  VED130  •  VED130  •  VED130  •	VED140  .  VED140  .  VED140  .  VED140  .	VED230  VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240  •	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340
iaF42 iaF62 iaF630 iaF6300 iaF6	VED030  .  .  .  .  .  .  .  .  .  .  .  .  .	VED040  •  rcular flanges  VED040  •  VED040  •	VED130  •  VED130  •  VED130  •  VED130	VED140  •  VED140  •  VED140  •  VED140	VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340
External air shutter with Accessory EE20X EE30X EE30X EE40X EE60X Intake straight with reconcessory RDA000V RDA200V RDA300V RDA200V RDAC200V	VED030 .  ctangular flanges VED030 .  lly insulated, with circular flanges VED030 .  tangular flanges VED030 .	VED040  •  rcular flanges  VED040  •	VED130  .  VED130  .  VED130  .  VED130  .	VED140  .  VED140  .  VED140  .  VED140  .  VED140	VED230  VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240  •	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340
iaF42 iaF62	VED030  .  .  .  .  .  .  .  .  .  .  .  .  .	VED040  •  rcular flanges  VED040  •  VED040  •	VED130  •  VED130  •  VED130  •  VED130  •	VED140  .  VED140  .  VED140  .  VED140  .	VED230  VED230  VED230  VED230  VED230	VED240  . VED240  . VED240  . VED240  . VED240	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340
GAF42 GAF62 External air shutter with Accessory GE20X GE30X GE40X GE80X Intake straight with reconcessory RDA100V RDA200V RDA300V RDA300V Intake straight internal Accessory	VED030  .  .  .  .  .  .  .  .  .  .  .  .  .	VED040  •  rcular flanges  VED040  •  VED040  •	VED130  •  VED130  •  VED130  •  VED130  •  VED130	VED140  .  VED140  .  VED140  .  VED140  .  VED140	VED230  VED230  VED230  VED230  VED230	VED240  •  VED240  •  VED240  •  VED240  •	VED330  VED330  VED330  VED330	VED340  VED340  VED340  VED340

#### **Delivery accessories**

#### Flow grid with adjustable louvers

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
M22	•	•						
M32			•	•				
GM42					•	•		
GM62							•	
Plenum with motor-o	drivan damnars							
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
MZC220			1					
MZC320			•	•				
MZC530					•	•		
MZC830			-				•	
	ernally insulated, with			VFD140	VEDAGO	VED240	VED220	VEDAM
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
PM000V PM100V	•	•						
			•	•				
PM200V PM300V					•	•	•	•
PM200V PM300V	ernally insulated, with	rectangular fl	anges		•	•	•	•
PM200V PM300V <b>Delivery plenum inte</b>	ernally insulated, with	<b>rectangular fl</b> o	anges VED130	VED140	VED230	VED240	VED330	VED340
PM200V PM300V <b>Delivery plenum inte</b> Accessory	<u> </u>			VED140				
PM200V PM300V <b>Delivery plenum inte</b> <b>Accessory</b> RPM000V	VED030	VED040		VED140				
PM200V PM300V	VED030	VED040	VED130					
PM200V PM300V <b>Delivery plenum inte</b> <b>Accessory</b> RPM000V RPM100V	VED030	VED040	VED130		VED230	VED240		
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V	VED030	VED040	VED130 •		VED230	VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V	VED030	VED040	VED130 •		VED230	VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V  RPM300V  Delivery straight inte Accessory	VED030 · ernally insulated, with	VED040 ·	VED130	·	VED230	VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V  RPM300V  Delivery straight inte Accessory RDMC000V	VED030 .  ernally insulated, with  VED030	VED040 . circular flange VED040	VED130	·	VED230	VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V  Delivery straight inte Accessory RDMC000V RDMC000V	VED030 .  ernally insulated, with  VED030	VED040 . circular flange VED040	VED130  •  VED130	VED140	VED230	VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V  Delivery straight inte Accessory RDMC000V RDMC100V RDMC100V	VED030 .  ernally insulated, with  VED030	VED040 . circular flange VED040	VED130  •  VED130	VED140	ved230	VED240  • VED240	VED330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM300V  RPM300V  Delivery straight inte Accessory RDMC000V RDMC100V RDMC200V RDMC300V	VED030 .  Pernally insulated, with  VED030 .	VED040 . circular flange VED040	VED130  •  VED130	VED140	ved230	VED240  • VED240	ved330	VED340
PM200V PM300V  Delivery plenum inte Accessory RPM000V RPM100V RPM200V RPM300V RPM300V Delivery straight inte	VED030 .  Pernally insulated, with  VED030 .	VED040 . circular flange VED040	VED130  •  VED130	VED140	ved230	VED240  • VED240	ved330	VED340

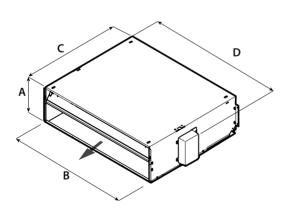
#### **PERFORMANCE SPECIFICATIONS**

#### 2-pipe

			VED03	0	1	VED04	0		VED13	0		VED14	0	1	VED23	0	١	/ED24	0	1	VED330	0	1	VED340	<del>,                                    </del>
		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	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н
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	I/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	I/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	I/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																									
Туре	type												Centr	ifugal											
Fan motor	type												Asynch	ronous	5										
Number	no.		1			1			2			2			2			2			3			3	
Air flow rate	m³/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	۷6	V1	V4	V6	٧1	٧4	V6	V1	V4	۷6	V1	V3	V6	V1	V3	V6	٧1	V3	٧7	V1	V3	٧7
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	1		0,7			1,0			1,1			1,5			1,5			2,1			1,8			2,3	
Diametre hydraulic ÿ ttings																									
Main coil	Ø												3/	/4"											
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) 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
Dimensions and weights	'								
A	mm	217	217	217	217	217	217	217	217
В	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

 $\label{lem:continuous} \mbox{Aermec reserves the right to make any modifications deemed necessary.}$ All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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## **VED 030I-340I**

#### Fan coil unit for ducted installations



- 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.

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 1-10 V 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**



**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.

**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).

**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 PAN-TONE 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-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.

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

**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

**VCF41 - 42 - 43 - for main coil:** 3-way motorised valve kit for the main coil. 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.

**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.

AMP: Wall mounting kit

**DSC:** Condensate drainage device.

BC: Condensate drip.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

**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.

**VCF44 - 45 - for the secondary coil:** The 3-way motorised valve kit for the secondary coil or an optional heat only coil. 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.

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.

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

**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.

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

KFV10: Circular flanges kit for plenum.

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

#### **ACCESSORIES COMPATIBILITY**

#### **Control panels and dedicated accessories**

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
AER503IR	•	•	•	•	•	•	•	•
PR0503	•		•	•	•	•	•	•
SA5	•	•	•	•	•	•	•	•
SW3	•	•	•	•	•	•	•	•
SW5			•	•	•			•
TX	•	•	•	•	•	•	•	•

#### **VMF** system

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
VMF-E19I	•	•	•	•	•	•	•	•
VMF-E3	•	•	•	•	•	•	•	•
VMF-E4DX	•	•	•	•	•	•	•	•
VMF-E4X	•	•	•	•	•	•	•	•
VMF-IO	•	•	•	•	•	•	•	•
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
3 way valve kit	,							_
Main coil	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VFC4524	-	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
2 way valve kit								
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)		•	•	•	•				
VJP060M (2)	1	•	•	•	•				
VJP090 (1)						•	•		
VJP090M (2)	I					•	•		
VJP150 (1)	1							•	
VJP150M (2)	1							•	

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

#### **Installation accessories**

#### Wall mounting accessories

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

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ondensate drip								
ccessory 724	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
z4 Z6	•	•	•	•	•	•	•	•
	VEDOZOL					VEDAMI		
ccessory 79	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
CZ4 For vertical installation. CZ6 For horizontal installation. C9 For horizontal installation.								
ondensate drainage								
Ver	030	040	130	140	230	240	330	340
1	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4
Accessories for intake ntake grids								
ccessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
A22	•	•			2001	2 101	5501	. 255 101
A32			•	•				
A42					•	•		
A62							•	•
ntake grid with filter and t		VEDOVO	VED 43.51	VEDA 401	MEDARA	VED 2 401	NED2261	UEDO (-
ccessory AF22	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
AF32	•	•	•	•				
AF42			-	-	•	•		
AF62							•	•
xternal air shutter with m	anual control							
Ver	030	040	130	140	230	240	330	340
ntake straight with rectan ccessory DA000V DA100V	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340
DA200V			•	•	•	•		
DA300V	1						•	•
ntake straight internally i								
ccessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED3401
DACOOOV	•	•						
DAC100V DAC200V			•	•	•	•		
DAC300V						•	•	
ntake plenum with rectan	gular flanges							
ccessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
PA000V	•	•						
PA100V PA200V			•	•	•	•		
PA300V					<u> </u>	<u> </u>	•	•
ntake plenum with circula	r flanges							
ccessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340
V000V	•	•						
			•	•				
					•	•		
A200V							_	-
A200V A300V							•	•
A200V A300V Delivery accessories	dampers						•	•
A200V A300V Delivery accessories Plenum with motor-driven	dampers VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	
PA100V PA200V PA300V  Delivery accessories  Plenum with motor-driven Accessory  MACC220		VED040I	VED130I	VED140I	VED230I	VED240I		VED340I

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MZC320 MZC530 MZC830

SVED-030-340-I\_Y\_UN50\_04

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

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

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

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

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

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

#### Circular flanges kit for plenum

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED340I
KFV10	•	•	•	•	•	•	•

#### Outlet grille with adjustable fins

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

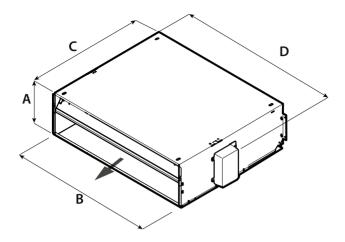
#### **PERFORMANCE SPECIFICATIONS**

#### 2-pipe

		١	/ED03	Ol	١	/ED040	DI	1	/ED130	Ol	١	/ED14	)I	١	/ED23	)l	V	ED240	)I	١	/ED33(	)I	١	ED340	)I
		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	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	Ш	М	Н	L	М	Н	L	М	Н
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	10,08	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
Heating performance 45 °C / 40 °C (2)																									
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
Cooling performance 7 °C / 12 °C (3)																									
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
Fan																									
Туре	type												Centr	ifugal											
Fan motor	type												Inve	erter											
Number	no.		1			1			2			2			2			2			3			3	
Air flow rate	m³/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
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
Diametre hydraulic ÿ ttings																									
Туре	type												Gas	5 - F											
Main coil	Ø												3/	4"											
Power supply																									
Power supply													230V	~50Hz											

<sup>(1)</sup> 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
Dimensions and weights									
A	mm	217	217	217	217	217	217	217	217
В	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

















## **VED 430-741**

#### Fan coil unit for ducted installations



- 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).

 $\textbf{WMT05:} \ Electronic \ thermostat \ with \ thermostated \ ventilation.$ 

WMT06: Electronic thermostat with continuous ventilation.

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

#### **VMF** system

**VMF-EOX:** 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 PAN-TONE 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

**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  $\emptyset$  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  $\emptyset$  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.

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#### **Installation accessories**

**MZC:** Plenum with motorised dampers.

 $\textbf{RDA\_V:} \ Straight\ intake\ connection\ with\ rectangular\ flange.$ 

**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  $\emptyset$  150mm that can be removed. **KFV10:** Circular flanges kit for plenum.

#### Configurator

Field	Description
1,2,3	VED
4	<b>Size</b> 4, 5, 6, 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	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
AER503IR (1)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PR0503		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
SA5 (2)		•	•			•	•	•	•	•	•	•		•	•	•	•
SIT3 (3)		•	•	•		•	•	•				•				•	•
SIT5 (4)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SW3 (2)		•	•	•	•		•	•	•	•			•			•	•
SW5 (2)			•	•	•			•	•	•	•	•	•	•	•	•	•
TX (1)		•		•	•	•		•	•	•		•	•	•			•
WMT05		•				•								•			
WMT06		•	•	•	•	•		•	•	•	•	•	•	•	•		•
WMT10		•				•	•		•	•	•			•	•		•

- (1) Wall-mount installation.(2) Probe for AER503IR-TX thermostats, if fitted.
- (3) Cards for AERSO3IR-TX thermostats, if firesent, to be installed if the unit absorption exceeds 0,7 Ampere.
   (4) Probe for AERSO3IR-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-IO		•	•				•	•	•			•	•				•
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
3 way valve kit								
Main coil	VCF45C	VCF45C	VCF45C	VCF45C	VCF47C	VCF47C	VCF47C	VCF47C
	VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
3 way valve kit								
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
2 way valve kit								
Main coil	VCF25C							
	VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
2 way valve kit								
Main coil	VCF25C							
Secondary coil x 4-pipe	VCF25H							

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

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT202	VCT202	VCT202	VCT202	VCT202	VCT202	VCT202	VCT20
-way globe valves actua	itor exclud	led														
Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT203	VCT203	VCT203	VCT203	VCT203	VCT203	VCT403	VCT40
Actuator 230V																
Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK
Actuator 24V																
Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTK
Combined adjustment an	nd balancii	ng valv	e cold s	ide												
Model	V	/er	430	432	440	141 53			541	630	632	640	641 73	30 732	740	74
/JP150 (1) /JP150M (2)		•	•	•	·	•		· ·	· ·							
/JP150M (2) /JP270M (2)			•	•	•	•	•	•	•							
1) 230V~50Hz																
<sup>2)  24V</sup> /JP/VJP_M the compatil	hility of th	e hot v	vater v	alves w	ith the	de-										
signed air flow in a four-						uc										
Accessories for intake	p.p.c															
ntake straight with recta	ıngular fla	inges														
Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	
Ver	<b>430</b> RDA450V		<b>440</b> RDA450V	<b>441</b> RDA450V	<b>530</b> RDA450V		<b>540</b> RDA450V	<b>541</b> RDA450V	<b>630</b> RDA670V	<b>632</b> RDA670V	<b>640</b> RDA670V		<b>730</b> RDA670V		<b>740</b> RDA670V	
	RDA450V	RDA450V														
ntake plenum with recta	RDA450V Ingular fla	RDA450V nges	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA67
	RDA450V	RDA450V														RDA67
ntake plenum with recta Ver	RDA450V Ingular fla 430 RPA450V	RDA450V nges 432 RPA450V	RDA450V 440	RDA450V 441	RDA450V	RDA450V	RDA450V <b>540</b>	RDA450V <b>541</b>	RDA670V 630	RDA670V 632	RDA670V 640	RDA670V	RDA670V 730	RDA670V 732	RDA670V <b>740</b>	741 RDA670 741 RPA670
Intake plenum with recta Ver Intake plenum with circu	RDA450V  Ingular fla  430  RPA450V  Iar flanges	RDA450V nges 432 RPA450V	440 RPA450V	RDA450V 441 RPA450V	530 RPA450V	532 RPA450V	<b>540</b> RPA450V	RDA450V <b>541</b> RPA450V	630 RPA670V	632 RPA670V	RDA670V 640 RPA670V	RDA670V 641 RPA670V	730 RPA670V	732 RPA670V	740 RPA670V	741 RPA670
ntake plenum with recta Ver	RDA450V Ingular fla 430 RPA450V	RDA450V nges 432 RPA450V	RDA450V 440	RDA450V 441	RDA450V	RDA450V	RDA450V <b>540</b>	RDA450V <b>541</b>	RDA670V 630	RDA670V 632	RDA670V 640	RDA670V	RDA670V 730	RDA670V 732	RDA670V <b>740</b>	RDA67
Intake plenum with recta Ver Intake plenum with circu Ver	RDA450V Ingular flat 430 RPA450V Idar flanges 430	RDA450V  nges 432 RPA450V	### RDA450V  ### 440  RPA450V  ### 440	### RPA450V	530 RPA450V	532 RPA450V	540 RPA450V	541 RPA450V	630 RPA670V	632 RPA670V	640 RPA670V	641 RPA670V	730 RPA670V	732 RPA670V	740 RPA670V	741 RPA67
Intake plenum with recta Ver  Intake plenum with circul Ver  Delivery accessories	RDA450V RINGULAR FLAT 430 RPA450V RPA450V	RDA450V nges 432 RPA450V 3 432 PA450V	### RDA450V  ### 440  RPA450V  ### 440	### RPA450V	530 RPA450V	532 RPA450V	540 RPA450V	541 RPA450V	630 RPA670V	632 RPA670V	640 RPA670V	641 RPA670V	730 RPA670V	732 RPA670V	740 RPA670V	741 RPA670
Intake plenum with recta Ver  Intake plenum with circul Ver  Delivery accessories	RDA450V RINGULAR FLAT 430 RPA450V RPA450V	RDA450V nges 432 RPA450V 3 432 PA450V	### RDA450V  ### 440  RPA450V  ### 440	### RPA450V	530 RPA450V	532 RPA450V	540 RPA450V	541 RPA450V	630 RPA670V	632 RPA670V	640 RPA670V	641 RPA670V	730 RPA670V	732 RPA670V	740 RPA670V	741 RPA67
Intake plenum with recta Ver  Intake plenum with circul Ver  Delivery accessories	RDA450V RINGULAR FLAT 430 RPA450V RPA450V	RDA450V nges 432 RPA450V 3 432 PA450V	### RDA450V  ### 440  RPA450V  ### 440	### RPA450V	530 RPA450V	532 RPA450V 532 PA450V	540 RPA450V 540 PA450V 540	541 RPA450V 541 PA450V	630 RPA670V 630 PA670V	632 RPA670V	640 RPA670V	641 RPA670V 641 PA670V	730 RPA670V 730 PA670V	732 RPA670V	740 RPA670V	741 RPA670
Intake plenum with recta Ver Intake plenum with circul Ver Delivery accessories Plenum with motor-drive	RDA450V  Ingular flat 430 RPA450V  Ilar flanges 430 PA450V	RDA450V  nges 432 RPA450V  432 PA450V	### RDA450V  ### 440  ### RPA450V  ### 440  ### 440  ### 440	### RPA450V  ### 441  PA450V	530 RPA450V 530 PA450V	532 RPA450V 532 PA450V	<b>540</b> RPA450V <b>540</b> RPA450V <b>540</b> PA450V	<b>541</b> RPA450V <b>541</b> PA450V	630 RPA670V 630 PA670V	632 RPA670V 632 PA670V	640 RPA670V 640 PA670V	641 RPA670V 641 PA670V	730 RPA670V 730 PA670V	732 RPA670V 732 PA670V	740 RPA670V 740 PA670V	741 RPA670 741 PA670
Intake plenum with recta Ver Intake plenum with circu Ver Delivery accessories Plenum with motor-drive	RDA450V  Ingular flat  430  RPA450V  Idar flanges  430  PA450V  In damper:  430  MZC5040	RDA450V  nges 432 RPA450V  432 PA450V  s 432 MZC5040	### RDA450V  ### 440  RPA450V  ### 440  PA450V  ### 440  MZC5040	### RPA450V  ### ### ############################	530 RPA450V 530 PA450V 530 MZC5040	532 RPA450V 532 PA450V	540 RPA450V 540 PA450V 540	541 RPA450V 541 PA450V	630 RPA670V 630 PA670V	632 RPA670V 632 PA670V	640 RPA670V 640 PA670V	641 RPA670V 641 PA670V	730 RPA670V 730 PA670V	732 RPA670V 732 PA670V	740 RPA670V 740 PA670V	741 RPA67 741 PA670
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Ver  Ver	RDA450V  Ingular flat  430  RPA450V  Idar flanges  430  PA450V  In damper:  430  MZC5040	RDA450V  nges 432 RPA450V  432 PA450V  s 432 MZC5040	### RDA450V  ### 440  RPA450V  ### 440  PA450V  ### 440  MZC5040	### RPA450V  ### ### ############################	530 RPA450V 530 PA450V 530 MZC5040	532 RPA450V 532 PA450V	540 RPA450V 540 PA450V 540	541 RPA450V 541 PA450V	630 RPA670V 630 PA670V	632 RPA670V 632 PA670V	640 RPA670V 640 PA670V	641 RPA670V 641 PA670V	730 RPA670V 730 PA670V	732 RPA670V 732 PA670V	740 RPA670V 740 PA670V	741 RPA67 741 PA67C
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver   Delivery plenum internal	RDA450V Ingular flat 430 RPA450V Idar flanges 430 PA450V Indumper 430 MZC5040 Illy insulate 430	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 ed, with 432	### RDA450V  ### 440  ### PA450V  ### 440  ### MZC5040  ### ### ### ### ### ### ### #### ##	### RDA450V  ### 441  PA450V  ### 441  MZC5040  ### 441	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  anges 530	532 RPA450V 532 PA450V 532 PA450V	540 RPA450V 540 RPA450V 540 PA450V 540 MZC5040	541 RPA450V 541 PA450V 541 MZC5040	630 RPA670V 630 PA670V 630 MZC7050	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V 640 PA670V 640 MZC7050	641 RPA670V 641 PA670V 641 MZC7050	730 RPA670V 730 PA670V 730 MZC7050	732 RPA670V 732 PA670V 732 MZC7050	740 RPA670V  740 PA670V  740 PA670V  740 MZC7050	741 RPA67 741 PA67C
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver   Delivery plenum internal	RDA450V  Ingular flat  430  RPA450V  Ilar flanges  430  PA450V  In damper:  430  MZC5040  Ily insulate  430  RPM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V	### RDA450V  ### 440  ### PA450V  ### 440  ### MZC5040  ### 740  ### RPM450V	### A41  ### A450V  ### A41  ### A450V  ### A41  ### MZC5040  ### B41  ### RPM450V	530 RPA450V 530 PA450V 530 MZC5040 MZC5040 Anges 530 RPM450V	532 RPA450V 532 PA450V 532 MZC5040	540 RPA450V 540 RPA450V 540 PA450V 540 MZC5040	541 RPA450V 541 PA450V 541 MZC5040	630 RPA670V 630 PA670V 630 MZC7050	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V 640 PA670V 640 MZC7050	641 RPA670V 641 PA670V 641 MZC7050	730 RPA670V 730 PA670V 730 MZC7050	732 RPA670V 732 PA670V 732 MZC7050	740 RPA670V  740 PA670V  740 PA670V  740 MZC7050	741 RPA67 741 PA670 741 MZC70
ntake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver  Delivery plenum internal	RDA450V Ingular flat 430 RPA450V Idar flanges 430 PA450V Idar flanges 430 MZC5040 Illy insulate 430 RPM450V	RDA450V nges 432 RPA450V 3 432 PA450V s 432 MZC5040 432 RPM450V	### RDA450V  ### 440  ### PA450V  ### 440  ### MZC5040  ### 440  ### RPM450V  ### circula	441 RPA450V  441 PA450V  441 MZC5040  441 RPM450V  r flange	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V	532 RPA450V 532 PA450V 532 MZC5040 532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  RPM450V	541 PA450V  541 PA450V  541 MZC5040  541 RPM450V	630 RPA670V 630 PA670V 630 MZC7050	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V 640 PA670V 640 MZC7050	641 RPA670V 641 PA670V 641 MZC7050 641 RPM670V	730 RPA670V  730 PA670V  730 PA670V  730 MZC7050  730 RPM670V	732 RPA670V 732 PA670V 732 MZC7050	740 RPA670V  740 PA670V  740 MZC7050  740 RPM670V	741 PA67C 741 RPM67
ntake plenum with recta  Ver  Intake plenum with circul  Ver  Pelivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver	RDA450V  Ingular flat  430  RPA450V  Ilar flanges  430  PA450V  In damper:  430  MZC5040  Ily insulate  430  RPM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V	### RDA450V  ### 440  ### PA450V  ### 440  ### MZC5040  ### 740  ### RPM450V	### A41  ### A450V  ### A41  ### A450V  ### A41  ### MZC5040  ### B41  ### RPM450V	530 RPA450V 530 PA450V 530 MZC5040 MZC5040 Anges 530 RPM450V	532 RPA450V 532 PA450V 532 MZC5040	540 RPA450V 540 RPA450V 540 PA450V 540 MZC5040	541 RPA450V 541 PA450V 541 MZC5040	630 RPA670V 630 PA670V 630 MZC7050	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V 640 PA670V 640 MZC7050	641 RPA670V 641 PA670V 641 MZC7050	730 RPA670V 730 PA670V 730 MZC7050	732 RPA670V 732 PA670V 732 MZC7050	740 RPA670V  740 PA670V  740 PA670V  740 MZC7050	741 PA670 741 RPM67
ntake plenum with recta  Ver  ntake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver  Delivery plenum internal  Ver  Delivery plenum internal  Ver  Delivery plenum internal  Ver	RDA450V Ingular flat 430 RPA450V Ilar flanges 430 PA450V Ingular flanges 430 RPA450V Ily insulate 430 RPM450V Ily insulate 430 PM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V ed, with 432 ed, with 432	### A40  ###################################	### A41  ### A450V  ### A41  ### A450V  ### A41	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V	532 RPA450V 532 PA450V 532 MZC5040 532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  S40 RPM450V	541 RPA450V  541 PA450V  541 MZC5040  541 RPM450V	630 RPA670V 630 PA670V 630 MZC7050 630 RPM670V	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V  640 PA670V  640 MZC7050  640 RPM670V	641 RPA670V 641 PA670V 641 MZC7050 641 RPM670V	730 RPA670V  730 PA670V  730 MZC7050  730 RPM670V	732 RPA670V 732 PA670V 732 MZC7050 732 RPM670V	740 RPA670V  740 PA670V  740 MZC7050  740 RPM670V	741 RPA670 741 PA670 741 RPM67
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver  Delivery plenum internal	RDA450V Ingular flat 430 RPA450V Ilar flanges 430 PA450V Ingular flanges 430 RPA450V Ily insulate 430 RPM450V Ily insulate 430 PM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V ed, with 432 ed, with 432	### A40  ###################################	### A41  ### A450V  ### A41  ### A450V  ### A41  ### A41	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V	532 RPA450V  532 PA450V  532 MZC5040  532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  S40 RPM450V	541 PA450V  541 PA450V  541 MZC5040  541 RPM450V	630 RPA670V 630 PA670V 630 MZC7050 630 RPM670V	632 RPA670V 632 PA670V 632 MZC7050 632 RPM670V	640 RPA670V  640 PA670V  640 MZC7050  640 RPM670V	641 RPA670V  641 PA670V  641 MZC7050  641 RPM670V	730 RPA670V  730 PA670V  730 MZC7050  730 RPM670V	732 RPA670V 732 PA670V 732 MZC7050 732 RPM670V	740 RPA670V  740 PA670V  740 MZC7050  740 RPM670V	741 RPA67 741 PA67C
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver  Circular flanges kit for ple	RDA450V Ingular flat 430 RPA450V Ilar flanges 430 PA450V Ingular flanges 430 MZC5040 Ily insulate 430 RPM450V Ily insulate 430 PM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V ed, with 432 PM450V	### A40  #### A40  ###################################	### A41  ### A450V  ### A41  ### A450V  ### A41	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V  25 530 PM450V	532 RPA450V 532 PA450V 532 MZC5040 532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  S40 RPM450V  540 RPM450V	541 RPA450V  541 PA450V  541 MZC5040  541 RPM450V	630 RPA670V  630 PA670V  630 MZC7050  630 RPM670V	632 RPA670V 632 PA670V 632 MZC7050	640 RPA670V  640 PA670V  640 MZC7050  640 RPM670V	641 RPA670V 641 PA670V 641 MZC7050 641 RPM670V	730 RPA670V  730 PA670V  730 MZC7050  730 RPM670V  730 RPM670V	732 RPA670V  732 PA670V  732 MZC7050  732 RPM670V  732 RPM670V	740 RPA670V  740 PA670V  740 MZC7050  740 RPM670V	741 PA670 741 RPM67
ntake plenum with recta  Ver   ntake plenum with circul  Ver   Delivery accessories  Plenum with motor-drive  Ver   Delivery plenum internal  Ver   Circular flanges kit for plen  Ver	RDA450V Ingular flat 430 RPA450V Ilar flanges 430 PA450V In damper: 430 MZC5040 Ily insulate 430 RPM450V Ily insulate 430 PM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V ed, with 432 PM450V	### Add  ###	### A41	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V  25 530 PM450V	532 RPA450V  532 PA450V  532 MZC5040  532 RPM450V  532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  S40 RPM450V  540 RPM450V	541 PA450V  541 PA450V  541 MZC5040  541 RPM450V  541 PM450V	630 RPA670V 630 PA670V 630 MZC7050 630 RPM670V 630 RPM670V	632 RPA670V 632 PA670V 632 MZC7050 632 RPM670V	640 RPA670V  640 PA670V  640 MZC7050  640 RPM670V  640 PM670V	641 RPA670V  641 PA670V  641 RPM670V  641 RPM670V	730 RPA670V  730 PA670V  730 MZC7050  730 RPM670V  730 RPM670V	732 RPA670V  732 PA670V  732 PA670V  732 MZC7050  732 RPM670V  732 PM670V	740 PA670V  740 PA670V  740 PA670V  740 MZC7050  740 RPM670V  740 PM670V	741 PA670 741 PA670 741 PA670 741 PM67
Intake plenum with recta  Ver  Intake plenum with circul  Ver  Delivery accessories  Plenum with motor-drive  Ver  Delivery plenum internal  Ver  Circular flanges kit for ple	RDA450V Ingular flat 430 RPA450V Ilar flanges 430 PA450V In damper: 430 MZC5040 Ily insulate 430 RPM450V Ily insulate 430 PM450V	RDA450V nges 432 RPA450V s 432 PA450V s 432 MZC5040 432 RPM450V ed, with 432 PM450V	### Add ###############################	### A41	530 RPA450V  530 RPA450V  530 PA450V  530 MZC5040  MZC5040  Anges 530 RPM450V  25 530 PM450V	532 RPA450V  532 PA450V  532 MZC5040  532 RPM450V  532 RPM450V	540 RPA450V  540 PA450V  540 MZC5040  S40 RPM450V  540 RPM450V	541 PA450V  541 PA450V  541 MZC5040  541 RPM450V  541 PM450V	630 RPA670V 630 PA670V 630 MZC7050 630 RPM670V 630 RPM670V	632 RPA670V 632 PA670V 632 MZC7050 632 RPM670V	640 RPA670V  640 PA670V  640 MZC7050  640 RPM670V  640 PM670V	641 RPA670V  641 PA670V  641 RPM670V  641 RPM670V	730 RPA670V  730 PA670V  730 MZC7050  730 RPM670V  730 RPM670V	732 RPA670V  732 PA670V  732 PA670V  732 MZC7050  732 RPM670V  732 RPM670V	740 PA670V  740 PA670V  740 PA670V  740 MZC7050  740 RPM670V  740 PM670V	741 PA670 741 PA670 741 PA670 741 PM67

#### **PERFORMANCE SPECIFICATIONS**

#### 2-pipe

		1	/ED43	0		/ED44	0	1	/ED53	0	1	/ED54	0	1	VED63	)	- 1	/ED64	0	1	/ED73	0	1	VED74	0
		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	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н
Heating performance 70 °C / 60 °C (1)																									
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	158	21	18	25	29	30	43	58	19	29	38	38	55	67	26	36	46
Heating performance 45 °C / 40 °C (2)																									
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
Cooling performance 7 °C / 12 °C (3)																									
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
Fan																									
Туре	type												Centr	ifugal											
Fan motor	type												Asynch	ronou	5										
Number	no.		2			2			2			2			3			3			3			3	
Air flow rate	m³/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		٧1	V3	V5	V1	V3	V5	V2	V4	V5	V2	V4	٧5	V1	V3	V5	٧1	٧3	V5	٧1	V3	V5	٧1	V3	V5
Duct type fan coil sound data (4)																									
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
Diametre hydraulic ÿ ttings																									
Туре	type													-											
Main coil	Ø												3,	/4"											
Water coil																									
Water content main coil	1		2,9			3,9			2,9			3,9			4,7			6,3			4,7			6,3	
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) 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

			VED441			VED541			VED641			VED741	
		1	3	5	2	4	5	1	3	5	1	3	5
		L	М	Н	L	М	Н	L	М	Н	L	М	Н
Heating performance 65 °C / 55 °C (1)					•								
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
Cooling performance 7 °C / 12 °C (2)													
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
Fan													
Туре	type				_		Centr	ifugal					
Fan motor	type						Asynch	ironous					
Number	no.		2			2			3			3	
Air flow rate	m³/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
Duct type fan coil sound data (3)													
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
Diametre hydraulic ÿttings													
Туре	type							-					
Main coil	Ø						3/	4"					
Secondary coil	Ø						1/	2"					
Water coil													
Water content main coil	1		3,9			3,9			6,3			6,3	
Water content the secondary coil	1		1,0			1,0			1,6			1,6	
Power supply													

	VED441	VED541	VED641	VED741
Power supply	'	230V-	~50Hz	

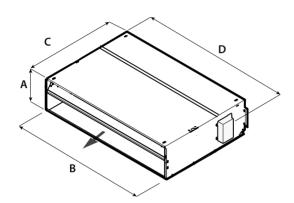
- (1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT
  (2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
  (3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

VED			From VED 4	30 to 741	
Fan speed	V1	V2	V3	V4	V5
Motor connection	15	14	13	12	I1

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

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

#### **DIMENSIONS**



		VED430	VED440	VED530	VED540	VED630	VED640	VED730	VED740
Dimensions and weights	'								
A	mm	300	300	300	300	351	351	351	351
В	mm	1133	1133	1133	1133	1533	1533	1533	1533
С	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
Dimensions and weights	,								
A	mm	300	300	300	300	351	351	351	351
В	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
V	mm	1130	1130	1130	1130	1330	1330	1330	1330



















## **VED 530I-741I**

#### Fan coil unit for ducted installations



- 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 1-10 V 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**



**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.

**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).

**VMF-E191:** 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 PAN-TONE 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-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**

Accessory	VED530I	VED540I	VED730I	VED740I
AER503IR	•	•	•	•
PR0503	•	•	•	•
SA5	•	•	•	•
SIT3	•	•	•	•
SIT5	•	•	•	•
SW5	•	•	•	•
TX	•	•	•	•
Accessory	VED532I	VED541I	VED732I	VED741I
necessory	VEDOSZI	VED3411	VEU/3ZI	VED/411
AER503IR	•	•	• VED/32I	VEU/411 •
	• •	VED3411 •	•	• •
AER503IR PR0503	•	•	•	VEU/411  • •
AER503IR	•	•	•	•
AER503IR PR0503 SA5	•	•	•	veu/411
AER503IR PR0503 SAS SIT3	•	•	•	VED/411  • • • • • • • •

#### VMF system

VMF system				
Accessory	VED530I	VED540I	VED730I	VED740I
VMF-E19I	•	•	•	•
VMF-E3	•	•	•	•
VMF-E4DX	•	•	•	•
VMF-E4X	•	•	•	•
VMF-IO	•	•	•	•
VMF-IR	•	•	•	•
VMF-LON	•	•	•	•
VMF-SW	•	•	•	•
VMF-SW1	•	•	•	•
Accessory	VED532I	VED541I	VED732I	VED741I
VMF-E19I	•	•	•	•
VMF-E3	•	•	•	•
VMF-E4DX	•	•	•	•
VMF-E4X	•	•	•	•
VMF-IO	•	•	•	•
VMF-IR	•	•	•	•

#### **Water valves**

VMF-LON VMF-SW VMF-SW1

#### 3 way valve kit

	VED530I	VED540I	VED730I	VED740I
3 way valve kit				
Main coil	VCF45C	VCF45C	VCF47C	VCF47C
Secondary coil x 4-pipe	<del>-</del>	-	-	-
	VED532I	VED541I	VED732I	VED741I
3 way valve kit				
Main coil	VCF45C	VCF45C	VCF47C	VCF47C
Secondary coil x 4-pipe	VCF45H	VCF45H	VCF47H	VCF47H

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

#### 2 way valve kit

	VED530I	VED540I	VED730I	VED740I
2 way valve kit				
Main coil	VCF25C	VCF25C	VCF25C	VCF25C
Secondary coil x 4-pipe		-	-	-
	VED532I	VED541I	VED732I	VED741I
	VEDJOZI	VEDJ <del>4</del> II	VLD/321	VED/411
2 way valve kit	VEDJJZI	VEDJ411	VLD/321	VED/411
2 way valve kit Main coil	VCF25C	VCF25C	VCF25C	VCF25C

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

#### 2-way globe valves actuator excluded

z way globe varves acta	ator extraueu			
Accessory	VED530I	VED540I	VED730I	VED740I
VCT102	•	•		
VCT202			•	•

1	MEDESSI	VEDEATI	VEDZOOL	VED7411
Accessory /CT102	VED532I	VED541I	VED732I	VED741I
CT202	i	i	•	•
ctuator 230V				
cessory	VED540I	VED	7301	VED740I
TK	•		•	•
cessory	VED532I	VED541I	VED732I	VED741I
TK	•	• VED3411	•	VED/411
ctuator 24V				
ccessory	VED540I	VED	7301	VED740I
TKM	•		•	•
cessory	VED532I	VED541I	VED732I	VED741I
TKM	•	•	•	VLD/411
				,
	balancing valve cold side	VEDE 401	VEDZZOI	VEDTADI
rcessory P150	VED530I	VED540I	VED730I	VED740I
P150M	•	•		
P270M			•	•
cessory	VED532I	VED541I	VED732I	VED741I
P150	•	• •	1LU/J2/	1 LV/ TII
P150M	•	•		
P270M			•	•
accessories for intake Intake straight with rectan	gular flanges			
	VED530I	VED540I	VED730I	VED740I
)A450V	VED530I	VED540I •		
)A450V )A670V	·	•	•	•
0.4450V 0.4670V ccessory	• VED532I	• VED541I		
DA450V DA670V ccessory DA450V	·	•	•	•
DA450V DA670V CCCESSORY DA450V DA670V	veds321	• VED541I	ved732l	• VED741I
DA450V DA670V CCESSORY DA450V DA670V Intake plenum with rectand	veds321	• VED541I	ved732l	• VED741I
DA450V DA670V CCESSORY DA450V DA670V DA670V DA680V	VED532I • gular flanges	• VED541I •	• VED732I •	• VED741I •
DA450V DA670V CCESSORY DA450V DA670V  CTACKER PLENUM WITH RECTANG CCESSORY PA450V	VED532I • gular flanges VED530I	VED541I  •  VED540I	• VED732I •	• VED741I •
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DA450V DA670V CCESSORY DA450V DA670V  CATAKE Plenum with rectange CCESSORY PA450V PA670V CCESSORY	VED532I • gular flanges VED530I	VED541I  •  VED540I	• VED732I • VED730I	• VED741I • VED740I
DA450V DA670V CCESSORY DA450V DA670V  CCESSORY DA670V  CCESSORY DA670V CCESSORY DA670V CCESSORY DA670V CCESSORY	VED532I  •  gular flanges  VED530I  •  VED532I	VED5411  VED5401  VED5411	• VED732I • VED730I	VED741I  VED740I
DA450V DA670V CCCESSORY DA450V DA670V  CCCESSORY DA450V DA670V CCCESSORY DA450V DA670V CCCESSORY DA450V DA670V CCCESSORY DA450V DA670V	VED532I  •  gular flanges  VED530I  •  VED532I  •	VED5411  VED5401  VED5411	• VED732I • VED730I • VED732I • VED732I	• VED7411 • VED7401 • VED7411
DA450V DA670V CCESSORY DA450V DA670V  DA670V  DA670V  DA670V DA670V DA670V CCESSORY DA670V DA	VED532I  •  gular flanges  VED530I  •  VED532I  •	VED5411  VED5401  VED5411	• VED732I • VED730I • VED732I	• VED7411 • VED7401 • VED7411
DA450V DA670V CCCESSORY DA450V DA670V  CCCESSORY PA450V PA670V PA670V PA670V	VED532I  •  gular flanges  VED530I  •  VED532I  •	VED5411  •  VED5401  •  VED5411	• VED732I • VED730I • VED732I • VED732I	VED7411  VED7401  VED7411  VED7401
DA450V DA670V CCESSORY DA450V DA670V  CCESSORY DA670V  CCESSORY DA450V DA670V CCESSORY DA450V DA670V CCESSORY DA450V DA670V CCESSORY DA670V	VED532I  ·  gular flanges  VED530I  ·  VED532I  ·  r flanges  VED530I  ·	VED5411  VED5401  VED5401  VED5401	• VED732I • VED730I • VED730I • VED730I	VED741I  VED740I  VED741I  VED741I  VED740I
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DA450V DA670V CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	VED532I  VED530I  VED532I  VED532I  VED532I  VED532I  VED5330I  VED5330I  VED5330I  VED5330I  VED5330I  VED5330I	VED5411  VED5401  VED5401  VED5401  VED5401  VED5401	• VED732I • VED730I • VED732I • VED732I • VED732I	VED7411  VED7401  VED7411  VED7401  VED7411  VED7411
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DA450V DA670V CCCESSORY DA670V  TAKE Plenum with rectange ccessory PA450V PA670V  CCCESSORY PA450V PA670V CCCESSORY PA450V PA670V CCCESSORY PA670V  CCCESSOR	VED532I  .  gular flanges  VED530I  .  VED532I  .  r flanges  VED530I  .  VED530I  .  dampers  VED530I  .	VED5401  VED5401  VED5401  VED5401  VED5401  VED5401  VED5401  VED5401	• VED732I • VED730I • VED732I • VED732I • VED732I • VED732I • VED732I • VED732I	VED7401  VED7401  VED7401  VED7401  VED7401  VED7401  VED7401  VED7401  VED7401
DA450V DA670V CCCCSSORY DA670V  CCCCSSORY DA670V  CCCCSSORY CCCCSORY CCCCSSORY CCCCSSORY CCCCSSORY CCCCSSORY CCCCSORY CCCCSSORY CCCCSORY CCCCCSORY CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	VED5321  VED5301  VED5321	VED5401  VED5401  VED5401  VED5401  VED5411  VED5411  VED5411  VED5411	• VED732I • VED730I • VED732I • VED732I • VED732I • VED732I • VED732I	VED7401  VED7401  VED7401  VED7401  VED7401  VED7411  VED7411  VED7411
DA450V DA670V DA	VED532I  PUB S32I  VED530I  VED532I  VED532I	VED5401  VED5401  VED5401  VED5401  VED5411  VED5411  VED5411  VED5411  VED5411  VED5411  VED5411	. VED732I  . VED730I  . VED732I  . VED732I  . VED732I  . VED732I  . VED732I  .	VED7401  VED7401  VED7401  VED7401  VED7411  VED7411  VED7411  VED7411  VED7411  VED7411
DA450V DA670V CCCESSORY DA670V  TAKE Plenum with rectange CCCESSORY PA450V PA670V  CCCESSORY PA450V PA670V  CCCESSORY PA450V PA670V  CCCESSORY PA450V  CCCESSORY PA450V  CCCESSORY PA670V	VED5321  VED5301  VED5321	VED5401  VED5401  VED5401  VED5401  VED5411  VED5411  VED5411  VED5411	• VED732I • VED730I • VED732I • VED732I • VED732I • VED732I • VED732I	VED7401  VED7401  VED7401  VED7401  VED7401  VED7411  VED7411  VED7411

Accessory	VED532I	VED541I	VED732I	VED741I
RPM450V	•	•		
RPM670V			•	•
Delivery plenum intern	ally insulated, with circular flange	? <b>S</b>		
Accessory	VED530I	VED540I	VED730I	VED740I
PM450V	•	•		
PM670V			•	•
Accessory	VED532I	VED541I	VED732I	VED741I
PM450V	•	•		
PM670V			•	•
Circular flanges kit for	plenum			
Accessory	VED530I	VED540I	VED730I	VED740I
KFV10	•	•	•	•
Accessory	VED532I	VED541I	VED732I	VED741I
KFV10	•	•	•	•

#### 2-pipe

		VED530	)I		VED540I			VED730I			VED740I	
	1	2	3	1	2	3	1	2	3	1	2	3
	L	М	Н	L	М	Н	L	М	Н	L	М	Н
Heating performance 70 °C / 60 °C (1)												
Heating capacity k	N 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	h 12	10 1444	1541	1349	1630	1746	1857	2224	2543	2007	2425	2781
Pressure drop system side k	Pa 1:	3 18	21	18	25	29	38	55	67	26	36	46
Heating performance 45 °C / 40 °C (2)												
Heating capacity k	N 6,8	6 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	h 11	30 1409	1503	1316	1589	1703	1811	2169	2446	1950	2425	2719
Pressure drop system side k	Pa 14	1 19	21	21	25	30	38	52	66	26	36	46
Cooling performance 7 °C / 12 °C (3)												
Cooling capacity k	N 6,0	5 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 k	N 4,6	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	h 10-	11 1247	1271	1257	1445	1496	1763	2057	2319	2031	2406	2702
Pressure drop system side k	Pa 1.	2 19	21	19	25	28	35	46	58	27	37	45
Fan												
Type ty	pe					Centr	ifugal					
	pe					Inve	erter					
Number n	_	2			2			3			3	
Air flow rate m	/h 11.	20 1400	1520	1100	1380	1500	1640	2040	2410	1600	2000	2358
High static pressure F	a 3:	2 50	58	32	50	56	32	50	69	32	50	69
Input power	V 11	5 160	205	115	160	205	147	241	370	147	241	370
Signal 0-10V	6 6	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
Diametre hydraulic ÿttings												
Main coil	5					3/	/4"					
Power supply												
Power supply						230V	~50Hz					

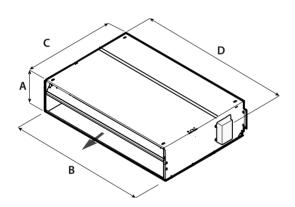
<sup>(1)</sup> Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

#### 4-pipe

			VED541I			VED741I	
		1	2	3	1	2	3
		L	М	Н	L	М	Н
Heating performance 65 °C / 55 °C (1)							
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
Cooling performance 7 °C / 12 °C (2)							
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
Fan							
Туре	type			Centri	ifugal		
Fan motor	type			Inve	rter		
Number	no.		2			3	
Air flow rate	m³/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
Duct type fan coil sound data (3)							
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
Diametre hydraulic ÿttings							
Main coil	Ø			3/	4"		
Secondary coil	Ø			1/	2"		
Power supply							
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.

#### **DIMENSIONS**



		VED530I	VED540I	VED730I	VED740I
Dimensions and weights					
A	mm	300	300	351	351
В	mm	1133	1133	1533	1533
(	mm	737	737	789	789
D	mm	1158	1158	1558	1558
Net weight	kg	42	47	58	61
	1	VED532I	VED541I	VED732I	VED741I
Dimensions and weights					
A	mm	300	300	351	351
В	mm	1133	1133	1533	1533
C	mm	737	737	789	789
D	mm	1158	1158	1558	1558
Net weight	kg	47	47	58	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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## VES 030-340

#### Fan coil unit for ducted installations



- Large range of available static pressure
- Heat eschanger developed to optimize the performance sensitive





#### **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 heat eschanger, reversible during installation, is designed to ensure high heat transfer, ideal for applications in a sensitive environment.
- The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

#### Air filte

Air filter Class COARSE 25%, 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.

**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 Components**

**SIT3Z:** Interface card that permits connecting the VMF-E19 thermostats to a fan coil with a high power motor.

**VMF-EOX:** 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 PAN-TONE COOL GRAY 1C.

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

VMF-SW: Water temperature probe.

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

#### 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 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.

**VCF44** - **45** - **for the secondary coil**: The 3-way motorised valve kit for the secondary coil or an optional heat only coil. 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.

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

#### **ACCESSORIES COMPATIBILITY**

#### **Control panels and dedicated accessories**

Model	Ver	030	040	130	140	230	240	330	340
AER503IR (1)		•	•	•	•	•	•	•	•
FMT10		•	•	•	•	•	•	•	•
PX2		•	•	•	•	•	•	•	•
SA5 (2)		•	•	•	•	•	•	•	•
SIT3 (3)		•	•	•	•	•	•	•	•
SIT5 (4)		•	•	•	•	•	•	•	•
SW5 (2)		•	•	•	•	•	•	•	•
SWA		•	•	•	•	•	•	•	•
TX (1)		•	•	•	•	•	•	•	•
WMT05		•	•	•	•	•	•	•	•
WMT06		•	•		•	•	•	•	•
WMT10		•	•	•	•	•	•	•	•

Wall-mount installation.
 Probe for AER503IR-TX thermostats, if fitted.
 Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
 Probe for AER503IR-TX thermostats, if fitted.

#### **VMF** system

Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
VMF-E0X	•	•	•	•	•	•	•	•
VMF-E19	•	•	•	•	•	•	•	•
VMF-E4DX	•	•	•	•	•	•	•	•
VMF-E4X	•	•	•	•	•	•	•	•
VMF-SW	•	•	•	•	•	•	•	•
VMF-SW1	•	•	•			•		•

#### (Heating only) additional coil

Accessory	VES030	VES130	VES230	VES330
BV030	•			
BV130		•		
BV162				•
BV230			•	

#### **Water valves**

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

Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
VCF3X4L	•	•	•					
VCF3X4LS				•	•	•	•	•
VCF3X4R	•	•	•					
VCF3X4RS					•	•		•

#### 3 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
3 way valve kit								
Main coil	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VFC4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-

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

#### 2 way valve kit

	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
2 way valve kit								
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	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
VJP060	•	•	•	•				
VJP060M	•	•	•	•				
VJP090					•	•	•	•
VJP090M					•	•	•	•
VJP150							•	•
VJP150M							•	•

	VESO30	VESO40	VES130	VES140	VES230	VES240	VES330	VES340
<b>ccessory</b> MP	•	•	•	•	•	•	•	•
ondensate drip								
ccessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
CZ4	•	•	•	•	•	•	•	•
SCZ6	•	•	•	•	•	•	•	•
Accessory	VES030	VESO40	VES130	VES140	VES230	VES240	VES330	VES340
309	•	•	•	•	•	•	•	•
CZ4 For vertical installation. CZ6 For horizontal installation. C9 For horizontal installation.								
Accessories for intake								
ntake grids								
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
5A22	•	•						
GA32			•	•				
5A42 5A62					•	•	•	
								<u>·</u>
ntake grid with filter an								
Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
GAF22 GAF32	•	•	•	•				
5AF42			•	•	•	•		
5AF62					<del></del>	· · · · · · · · · · · · · · · · · · ·	•	
External air shutter with		VPC:	1/50	1/50:	1/50	1/50	1/20	,,,,,,
Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
SE20X SE30X	•	•	•	•				
5E40X			•	<b>.</b>	•	•		
SE80X							•	•
Intake straight with rect	angular flanges							
Accessory	VESO30	VESO40	VES130	VES140	VES230	VES240	VES330	VES340
RDA000V	•	•	725.50	125110	725250	7252.10		1233.10
RDA100V			•	•				
NDA 200V								
							•	•
RDA300V	y insulated, with ci	rcular flanges			•		•	•
RDA300V Intake straight internall Accessory	<b>y insulated, with ci</b> ll VESO30	rcular flanges VES040	VES130	VES140	VES230	VES240	vES330	VES340
RDA300V Intake straight internall Accessory RDAC000V								
RDA300V Intake straight internall Accessory RDAC000V RDAC100V	VES030	VES040	VES130 •	VES140	VES230	VES240		
RDA200V RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC200V RDAC300V	VES030	VES040					VES330	VES340
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC200V RDAC300V	VES030	VES040			VES230	VES240		
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC200V RDAC300V	VES030 •	VES040			VES230	VES240	VES330	VES340
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC200V RDAC300V VES Intake plenum with rect	VES030 • angular flanges	VESO40	•	•	VES230 •	VES240	VES330	VES340
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC200V RDAC300V VES Intake plenum with rector	VES030 • angular flanges VES030	VES040 • VES040			VES230	VES240	VES330	VES340
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC300V VES Intake plenum with rector Accessory RPA000V	VES030 • angular flanges	VESO40	• VES130	VES140	VES230 •	VES240	VES330	VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  VES Intake plenum with rector Accessory RPA000V RPA100V	VES030 • angular flanges VES030	VES040 • VES040	•	•	VES230 •	VES240	VES330	VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  I/ES Intake plenum with rector Accessory RPA000V RPA100V RPA100V RPA200V	VES030 • angular flanges VES030	VES040 • VES040	• VES130	VES140	VES230  • VES230	VES240 • VES240	VES330	VES340
RDA300V  Intake straight internall Accessory RDAC000V RDAC100V RDAC300V  VES Intake plenum with rect Accessory RPA000V RPA100V RPA100V RPA100V RPA300V	VES030 . angular flanges VES030 .	VES040 • VES040	• VES130	VES140	VES230  • VES230	VES240 • VES240	VES330  • VES330	VES340 • VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  I/ES Intake plenum with rector Accessory RPA000V RPA100V RPA200V RPA300V  IRRA300V  IRRA300V	VES030 . angular flanges VES030 .	VES040 • VES040	• VES130	VES140	VES230  • VES230	VES240 • VES240	VES330  • VES330	VES340 • VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC200V RDAC300V  I/ES Intake plenum with recta Accessory RPA000V RPA100V RPA300V RPA300V Intake plenum with circulations Accessory PA000V RPA300V	VES030  • angular flanges  VES030 • ular flanges	VES040  VES040  •	• VES130	VES140	VES230  • VES230  •	VES240  • VES240	VES330  • VES330	VES340  • VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC200V RDAC300V  I/ES Intake plenum with recta Accessory RPA000V RPA300V RPA300V Intake plenum with circulations Accessory RPA000V RPA300V RPA300V RPA300V RPA300V RPA300V RPA300V	VES030  • angular flanges  VES030 • ular flanges	VES040  VES040  VES040	• VES130	VES140	VES230  • VES230  •	VES240  • VES240	VES330  • VES330	VES340  • VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  I/ES Intake plenum with rector Accessory RPA100V RPA200V RPA300V  Intake plenum with circum Accessory RPA100V RPA300V RPA300V  Intake plenum with circum Accessory RA0000V RPA100V RPA300V	VES030  • angular flanges  VES030 • ular flanges	VES040  VES040  VES040	VES130  • VES130	VES140  • VES140	VES230  • VES230  •	VES240  • VES240	VES330  VES330  VES330	VES340  VES340  VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  INTES Intake plenum with rector Accessory RPA000V RPA100V RPA300V  Intake plenum with circum Accessory PA000V RPA100V RPA100V RPA100V RPA100V PA100V PA100V PA100V PA100V PA100V PA100V	VES030  • angular flanges  VES030 • ular flanges	VES040  VES040  VES040	VES130  • VES130	VES140  • VES140	VES230  VES230  VES230	VES240  VES240  VES240	VES330  • VES330	VES340  •  VES340
RDA300V Intake straight internall Accessory RDAC000V RDAC100V RDAC300V VES Intake plenum with rector Accessory RPA000V	VES030  • angular flanges  VES030 • ular flanges	VES040  VES040  VES040	VES130  • VES130	VES140  • VES140	VES230  VES230  VES230	VES240  VES240  VES240	VES330  VES330  VES330	VES340  VES340  VES340
RDA300V  Intake straight internally Rocessory RDAC000V RDAC100V RDAC200V RDAC300V  I/ES Intake plenum with rector RCCessory RPA000V RPA100V RPA200V RPA300V  Intake plenum with circulates RCCessory RPA000V RPA300V  Intake plenum with circulates RCCESSORY RACOOV RPA300V  Delivery accessories	VES030 . angular flanges VES030 . ular flanges VES030 .	VES040  VES040  VES040	VES130  • VES130	VES140  • VES140	VES230  VES230  VES230	VES240  VES240  VES240	VES330  VES330  VES330	VES340  VES340  VES340
RDA300V  Intake straight internally Rocessory RDAC000V RDAC100V RDAC200V RDAC300V  INTERNATION RPA100V RPA100V RPA100V RPA300V Intake plenum with circulates ple	VES030 . angular flanges VES030 . ular flanges VES030 .	VES040  VES040  VES040	VES130  • VES130	VES140  • VES140	VES230  VES230  VES230	VES240  VES240  VES240	VES330  VES330  VES330	VES340  VES340  VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  VES  Intake plenum with rector Accessory RPA000V RPA100V RPA300V  Intake plenum with circulates plenum with c	VES030 . angular flanges VES030 . ular flanges VES030 .	VES040  VES040  VES040  VES040	VES130  •  VES130  •	VES140  •  VES140  •	VES230  VES230  VES230	VES240  •  VES240  •	VES330  VES330  VES330	VES340  VES340  VES340
RDA300V  Intake straight internally Accessory RDAC000V RDAC100V RDAC300V  VES  Intake plenum with rector Accessory RPA100V RPA200V RPA300V  Intake plenum with circulates plenum with c	VES030 . angular flanges VES030 . ular flanges VES030 . t	VES040  VES040  VES040  VES040	VES130  •  VES130  •	VES140  •  VES140  •	VES230  VES230  VES230	VES240  •  VES240  •	VES330  VES330  VES330	VES340  VES340  VES340

	Planum	with	motor-driven	damners
٠	rienum	WILII	motor-ariven	aambers

Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
NZC220	•	•						
NZC320			•	•				
MZC530					•	•		
MZC830							•	•
/ES								
Delivery plenum into	ernally insulated, with	circular flange	es					
Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
PM000V	•	•						
PM100V				•				
PM200V					•	•		
PM300V							•	
	ernally insulated, with							
Jenverv niennim inti	ernaliv inslilatea, with	rectanalliar ti	anaes					
	VESO30	VESO40	VES130	VES140	VES230	VES240	VES330	VES340
Accessory				VES140	VES230	VES240	VES330	VES340
Accessory RPM000V	VES030	VES040		VES140	VES230	VES240	VES330	VES340
Accessory RPM000V RPM100V	VES030	VES040	VES130		VES230	VES240	VES330	VES340
Derivery pienum into Accessory RPM100V RPM200V RPM300V	VES030	VES040	VES130				VES330	VES340
Accessory RPM000V RPM100V RPM200V RPM300V	VES030	VES040 •	VES130					
Accessory RPM000V RPM100V RPM200V RPM300V  RPM300V  Delivery straight int	VES030	VES040 •	VES130					
Accessory RPM000V RPM100V RPM200V RPM300V  RPM300V  Delivery straight int Accessory	VES030 · ernally insulated, with	VES040 · circular flang	VE5130 •	•	·		·	•
Accessory RPM000V RPM100V RPM200V RPM300V  PPM300V  Pelivery straight int Accessory RDMC000V	VES030  ernally insulated, with  VES030	VESO40 . circular flang VESO40	VE5130 •	•	·		·	
Accessory RPM000V RPM100V RPM300V RPM300V  Pelivery straight int Accessory RDMC000V RDMC100V	VES030  ernally insulated, with  VES030	VESO40 . circular flang VESO40	VES130  •  VES130  VES130	• VES140	·		·	•
Accessory RPM000V RPM100V RPM300V RPM300V  Pelivery straight int Accessory RDMC000V RDMC100V	VES030  ernally insulated, with  VES030	VESO40 . circular flang VESO40	VES130  •  VES130  VES130	• VES140	• VES230	• VES240	·	•
Accessory RPM000V RPM100V RPM200V RPM300V	VESO30  •  vernally insulated, with  VESO30  •	VESO40 . circular flang VESO40	VES130  •  VES130  VES130	• VES140	• VES230	• VES240	VES330	VES340
Accessory RPM000V RPM100V RPM300V  RPM300V  Delivery straight int Accessory RDMC000V RDMC100V RDMC300V	VESO30  •  vernally insulated, with  VESO30  •	VESO40 . circular flang VESO40	VES130  •  VES130  VES130	• VES140	• VES230	• VES240	VES330	VES340

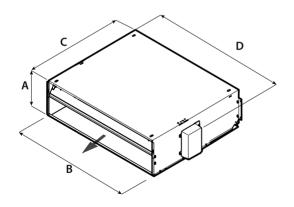
#### **PERFORMANCE SPECIFICATIONS**

#### 2-pipe

			VES03	0	·	VES04	0		VES13	)		VES14	0	,	VES230	)	1	/ES24	0	1	VES330		VES3		0
		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	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н	L	М	Н
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	I/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 50 °C / 45 °C (2)																									
Heating capacity	kW	1,09	2,03	2,22	1,42	2,15	2,36	2,65	3,52	3,79	2,72	3,67	3,96	3,22	3,92	4,31	3,49	4,30	4,77	4,71	5,63	6,33	5,01	6,04	6,60
Water flow rate system side	I/h	189	350	383	245	370	406	461	612	660	469	632	682	555	674	743	602	741	820	810	969	1090	862	1039	1136
Pressure drop system side	kPa	4	10	13	4	14	17	20	34	39	13	22	25	39	44	54	26	38	48	13	18	22	32	39	45
Cooling performance 7 °C / 12 °C (3)																									
Cooling capacity	kW	1,25	1,75	1,91	1,30	1,89	2,75	2,20	2,87	3,11	2,43	3,08	3,30	2,85	3,57	3,95	3,40	3,76	4,08	4,00	4,82	5,36	4,46	5,12	5,71
Sensible cooling capacity	kW	0,88	1,24	1,36	0,86	1,32	1,46	1,59	2,17	2,34	1,68	2,21	2,38	2,13	2,62	2,90	2,35	2,73	3,01	2,85	3,44	3,85	3,18	3,66	4,09
Water flow rate system side	I/h	215	302	330	224	325	360	379	496	535	419	530	569	491	614	679	584	646	702	689	829	922	768	880	982
Pressure drop system side	kPa	11	21	24	15	30	36	30	49	56	17	25	29	57	85	101	40	48	56	18	25	30	32	41	50
Cooling performance 13 °C / 18 °C																									
Cooling capacity	kW	0,57	0,80	0,88	0,33	0,51	0,78	1,00	1,32	1,42	1,11	1,40	1,52	1,30	1,64	1,93	1,57	1,74	1,93	2,03	2,30	2,58	2,05	2,41	2,68
Sensible cooling capacity	kW	0,57	0,80	0,88	0,33	0,51	0,78	1,00	1,32	1,42	1,11	1,40	1,52	1,30	1,64	1,93	1,57	1,74	1,93	2,03	2,30	2,58	2,05	2,41	2,68
Water flow rate system side	I/h	98	138	151	57	88	136	173	228	244	192	242	262	225	283	333	270	300	333	349	397	445	354	416	461
Pressure drop system side	kPa	2	4	4	1	2	5	5	9	10	3	4	5	10	15	9	6	7	9	3	4	6	5	6	8
Fan																									
Туре	type	C	entrifu	gal	C	entrifug	jal	(	entrifug	jal	(	entrifu	gal	C	entrifug	ıal	Ce	entrifuç	gal	C	entrifug	jal	(	entrifug	gal
Air flow rate	m³/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
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	38,0	55,0	58,0	38,0	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	34,0	51,0	54,0
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	103
Electrical wiring		٧1	٧4	V6	V1	٧4	V6	٧1	٧4	V6	٧1	V4	V6	V1	V3	V6	V1	٧3	V6	V1	V3	٧7	V1	V3	٧7
Diametre hydraulic ÿ ttings																									
Main coil	Ø		3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"	
Secondary coil	Ø		-			-			-			-			-			-			-			-	
Fan																									
Input current	А		0,4			0,4			0,4			0,4			0,6			0,6			0,7			0,7	
Power supply																									
Power supply		23	0V~50	OHz	23	0V~50	Hz	23	30V~50	Hz	23	30V~50	OHz	23	0V~50	Hz	23	0V~50	OHz	23	30V~50	)Hz	2	30V~50	θHz

- (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) 50 °C/45 °C (3) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

#### **DIMENSIONS**



		VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
Dimensions and weights									
A	mm	217	217	217	217	217	217	217	217
В	mm	550	550	781	781	1001	1001	1122	1122
С	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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## **VES-030I-340I**

## Fan coil unit with Inverter brushless motor for ducted installations

Cooling capacity 1,25 ÷ 5,70 kW Heating capacity 1,8 ÷ 10,9 kW



- Horizontal or vertical installation
- Heat eschanger developed to optimize the performance sensitive
- Versions for 2/4 pipe systems
- Large range of available static pressure





#### **DESCRIPTION**

Ducted fan coil with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment.

Equipped with inverter Brushless motor for an high effciency and a continuos air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation based on the real indoor environement requirements without swinging temperature.

The fan unit at available working pressures, trought internal insulation, ensure excellent acoustic comfort levels.

The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications.

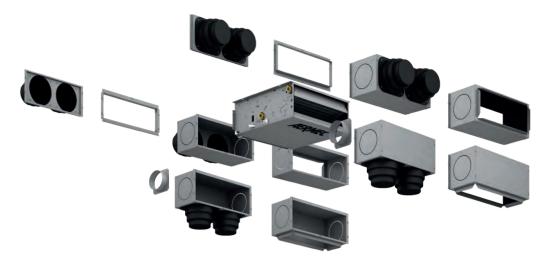
The main coil, reversible during installation, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

#### **FEATURES**

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system

- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

#### **ACCESSORIES**



#### **Control panel**

A range of dedicated controllers, wall-mounted or on the machine, is available but it is essential to choose between these panels for simple and complete tuning, for more details please refer to the dedicated sheet

#### **Probes and accessories for control panels**

**WMT21:** Electronic thermostat with LCD display (wall installation). **SWAI:** Water temperature probe for WMT21 control panels. Cable length I=2m.

#### **VMF** system

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

**VMF-E4DX:** Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

**VMF-E191:** Thermostat accessory for inverter units to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

**VMF-IO:** Expansion board that expands the availability of Digital Inputs and Outputs.

**VMF-LON:** Expansion that allows interfacing with a thermostat with BMS systems using the LON protocol.

**VMF-SW:** water probe to be used, if necessary, to replace the one supplied as standard with VMF-E0X, VMF-E19 and VMF-E19I thermostats, for installation upstream of the valve

**VMF-SW1:** extra water probe to be used for 4-pipe systems with VMF-E19 and VMF-E19I thermostats for overall control in the cold range

#### Hot water coil

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

#### Valve ki

VCZ\_X4: Valve kits for single coil units, installed in 4 pipe systems with totally separated "Cooling" and "Heating" circuits. The kit consists of 2 valves with 3-way 4 port connection complete with electro-thermal actuators, insulating shells for the valves and associated hydraulic piping. Version\_X4L valve kit allows left side connection. Version\_X4R valve kit allows right side connection. Power supply 230V ~ 50Hz

**VCF: kit containing a motorised 3-way valve** with insulating shell plus coupling and pipes in insulated copper. Applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.

**VCFD: Kit consisting of powered 2-way valve**, copper couplings and pipes applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.

VJP/VJP\_M: 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, is available with 230V and 24V~50Hz power supply.

**The VJP is controlled by on-off** logic with compatible control panels (accessories)

**The VJP\_M is controlled by modulating** logic with panels not supplied by Aermec

The design water flow rate is crucial to refine the selection of the valve shown in the compatibility table.

#### **Accessory for Installation**

AMP: kit for the wall mounting installation.

BC: Auxiliary condensate drip tray.

**DSC4:** Condensate drainage device for use when natural run-off is not pos-

SE: External air shutter with manual control

#### **Ducting Accessories:**

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

**RDAC\_V:** Straight intake connection with circular flanges.

**RPA\_V:** Intake plenum with rectangular flange.

**RDMC\_V:** Straight discharge with circular flanges. Internally insulated.

**PA\_V:** Intake plenum with circular flanges. Flanges in plastic material.

**RPM\_V:** Discharge plenum with rectangular flange. Internally insulated.

**PM\_V:** Discharge plenum with circular flanges. Internally insulated. Flanges in plastic material.

KFV10: Circular flanges kit for intake/discharge plenum.

#### Grid

**GA:** Intake grid with fixed louvers.

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

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

For more details on the control panels and VMF system refer to the dedicated sheet

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#### **ACCESSORIES COMPATIBILITY**

Size	,	030	040	130	140	230	240	330	340
Probes and accessories for control panels					1				
TX		•		•	•	•	•	•	•
WMT21									
SWAI					In combinatio	n with WMT21			
VMF System									
VMF-E4X									
VMF-E4DX		•		•	•		•	•	•
VMF-E19I									
VMF-IO			•	•			•	•	
VMF-LON				•		•	•		•
VMF-SW									
VMF-SW1		•	•	•		•	•	•	•
Additional coil (heating only)									
BV030		•							
BV130									
BV230						•			
BV162								•	
Water valves									
Valve Kit for 4 pipe systems with Main coil									
VCF3X4L-R		•	•	•	•	•	•	•	•
3 way valve kit									
VCF43/4324	(1)	•	•	•	•	•	•	•	•
2 way valve kit									
VCFD3/324	(1)	•	•	•	•	•	•	•	•
3 way valve kit for heating coil only									
VCF45/4524	(1)	•		•		•		•	
2 way valve kit for heating coil only									
VCFD4/424	(1)	•		•		•		•	
Combined adjustment and balancing valve indepe	endent of pressure								
VJP060/060M		•		•	•				
VJP090/090M						•	•		
VJP150/150M								•	•
Accessories for installation									
AMP		•	•	•	•	•	•	•	•
DSC4	(2)	•		•					
ZX7				•	•	•	•		
ZX8								•	
Auxiliary condensate drip tray									
BC4		•	•	•	•	•	•	•	
BC6		•		•	•	•	•	•	•
BC9				•	•	•	•	•	•

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

(1) The VCF / VCFD valve kits and the BC4 tray cannot be installed at the same time on the same fancoil.

(2) DSC4 It's not available with AMP and BC4 - BC6 - BC9 and VMF-System

VCF4324-VCFD324-VCF4524-VCZD424-VJP060M-VJP090M-VJP150M are 24V

Size		030	040	130	140	230	240	330	340
Grid									
GA22									
GA32				•				,	
GA42					-	•	•		
GA62					,			•	
GAF22		•	•					-	
GAF32				•	•				
GAF42							•		
GAF62					-	•		•	•
GM22		•	•					•	
GM32		•	•						
GM42				•	•				
						•	•		
GM62	(2)							•	•
SE20X	(3)	•	•						
SE30X	(3)			•	•				
SE40X	(3)					•	•		
SE80X	(3)							•	•
Plenum for duct installation									
RDA000V		•	•		,				
RDA100V				•	•				
RDA200V						•	•		
RDA300V								•	•
RPA000V	(4)	•	•						
RPA100V	(4)			•	•				
RPA200V	(4)					•	•		
RPA300V	(4)							•	•
RDAC000V			•						
RDAC100V				•					
RDAC200V						•			
RDAC300V									
PA000V	(4)	•	•						
PA100V	(4)								
PA200V	(4)								
PA300V	(4)							•	
PM000V	(4)	•	•			-			
PM100V	(4)			•	•				
PM200V	(4)					•	•		
PM300V	(4)				-	•	•	•	•
RPM000V	(4)		•					•	
RPM100V	(4)	•	•					,	
RPM200V				•	•				
	(4)					•	•		
RPM300V	(4)							•	•
RDMC000V		•	•						
RDMC100V				•	•				
RDMC200V						•	•		
RDMC300V					-		-	•	•
KFV10		•	•	•	•	•	•	•	•

(3) The accessory SE require pairing with ZX
(4) All the Plenums (RPA\_V; PA\_V; RPM\_V) have a circular push-outs (Ø=150mm) on both sides, which can be removed, All the can have intake/discharge either straight or downwards (straight or downwards with reference to horizontal installation).

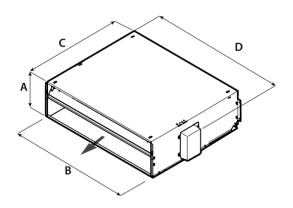
#### **TECHNICAL DATA**

Size				030			040			130			140			230			240			330			340	
Fan speed			Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L
Heating Performance																										
2 pipe conÿguration																										
Heating capacity (70°C)	(1)	kW	3,69	3,37	1,82	3,92	3,57	2,37	6,29	5,83	4,40	6,58	6,09	4,52	7,16	6,50	5,35	7,91	7,14	5,80	10,51	9,34	7,81	10,95	10,02	8,31
Water flow rate	(1)	I/h	323	296	160	343	313	207	552	512	386	577	534	396	628	570	469	694	626	509	921	819	685	960	878	729
Pressure drops	(1)	kPa	9,0	7,0	3,0	12,0	10,0	4,0	26,0	22,0	13,0	18,0	16,0	9,0	37,0	30,0	27,0	32,0	26,0	18,0	16,0	13,0	9,0	32,0	28,0	22,0
Heating capacity (50°C)	(2)	kW	1,83	1,67	0,92	1,94	1,78	1,18	3,14	2,90	2,19	3,30	3,02	2,25	5,56	3,23	2,65	3,93	3,55	2,88	5,22	4,64	3,88	5,45	4,98	4,13
Water flow rate	(2)	I/h	383	350	189	406	370	245	660	612	461	682	632	469	743	674	555	820	741	602	1090	969	810	1136	1039	862
Pressure drops	(2)	kPa	9,0	7,5	2,5	12,5	10,5	5,0	27,5	24,0	14,5	18,5	16,0	10,0	39,0	32,5	23,0	32,0	26,5	18,5	16,5	13,5	10,0	30,3	19,5	18,5
Cooling Performance																										
Total cooling capacity	(3)	kW	1,91	1,75	1,26	2,00	1,89	1,30	3,12	2,87	2,20	3,31	3,10	2,43	3,95	3,56	2,84	4,10	3,37	3,39	5,24	4,81	3,99	5,71	5,12	4,46
Sensible cooling capacity	(3)	kW	1,35	1,24	0,89	1,45	1,32	0,86	2,34	2,17	1,59	2,38	2,20	1,68	2,89	2,61	2,12	3,02	2,73	2,34	3,86	3,44	2,84	4,09	3,66	3,18
Latent cooling capacity	(3)	kW	0,56	0,51	0,37	0,55	0,57	0,44	0,78	0,70	0,61	0,93	0,90	0,75	1,06	0,95	0,72	1,08	0,64	1,05	1,38	1,37	1,15	1,62	1,46	1,28
Water flow rate	(3)	l/h	151	138	98	136	88	57	244	228	173	262	242	192	309	283	225	333	300	270	445	397	349	461	416	354
Pressure drops	(3)	kPa	24,5	21,0	11,5	35,5	30,5	16,0	56,5	49,0	30,0	29,0	23,0	16,5	102,0	84,5	56,0	57,0	48,5	40,5	30,5	25,0	18,0	50,0	41,0	32,0
Total cooling capacity	(4)	kW	0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Sensible cooling capacity	(4)	kW	0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Water flow rate	(4)	l/h	151	138	98	136	88	57	244	228	173	262	242	192	309	283	225	333	300	270	445	397	349	461	416	354
Pressure drops	(4)	kPa	4	4	2	5	2	1	10	9	5	5	4	3	18	15	10	9	7	6	6	4	3	8	6	5
Fans																										
Fans - Centrifugal		n°		1			1			2			2			2			2			3			3	
Air flow rate		m³/h	285	256	161	277	249	160	434	397	287	420	386	280	590	524	417	570	509	406	805	704	572	775	685	563
High static pressure		Pa	61	50	21	61	50	21	60	50	26	60	50	26,4	64	50	32	63	50	32	66	50	33	64	50	34
Sound data																										
Sound power level (inle+radiator)	(5)	dB(A)	54	52	44	54	52	44	55	53	47	55	53	47	57	54	49	57	54	49	58	55	49	58	55	49
Sound power level (outlet)		dB(A)	50	48	40	50	48	40	50	48	42	50	48	42	52	49	44	52	49	44	54	51	45	54	51	45
Diameter connections																										
Standard coil		Ø		3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"	
Additional coil		Ø		-			-			-			-			-			-			-			-	
Electrical Features																										
Absorbed power		W	36	29	12	36	29	12	45	33	17	45	33	17	53	40	24	53	40	24	86	60	35	86	60	35
Signal 0-10V		%	90	80	54	90	80	54	90	82	58	90	82	58	90	78	66	90	80	62	90	78	62	90	78	66
Power supply														230V~	~50Hz											

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

- (1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;
- (2) Room air 20°C b.s.; Water (in/out) 50°C/45°C; (3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)
- (4) Room air 27°C b.s./19°C b.u.; Water (in/out) 13°C/18°C
- (5) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

#### **DIMENSIONS**



Size		030	040	130	140	230	240	330	340
Dimensions and weight									
A	mm	217	217	217	217	217	217	217	217
В	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
Weight	Kg	20	21	23	24	29	32	32	34

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## VES-5300I-7400I

# Fan coil unit equipped with inverter Brushless motor for ducted installations

Cooling capacity 4,44 ÷ 11,81 kW Heating capacity 9,91 ÷ 25,37 kW



- Horizontal or vertical installation
- Versions for 2/4 pipe systems
- Large range of available static pressure
- Height 217mm (slim line)





#### **DESCRIPTION**

Ducted fan coil with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment.

Equipped with inverter Brushless motor for an high effciency and a continuos air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation based on the real indoor environement requirements without swinging temperature.

The fan unit at available working pressures, trought internal insulation, ensure excellent acoustic comfort levels.

The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications.

The main coil, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

#### **FEATURES**

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system

- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

#### **CONFIGURATOR**

Field	Description	
1,2,3	VES	
4	Size	
	5-7	
5	Main coil	
3	Standard	
4	Increased coil	

Field	ł	Description
6,7		Coil only hot
	00	Without coil
	05	Coil only heating power limited
	10	Coil only heating
8		Inverter motor
	T	Inverter

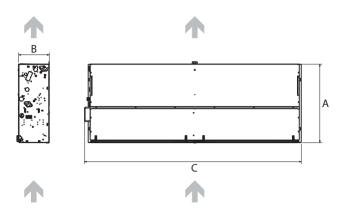
#### **TECHNICAL DATA**

Size				5300			5400			7300			7400	
Fan speed			Н	М	L	Н	М	L	Н	М	L	Н	М	L
Heating Performance														
2 pipe conÿguration				-	-									
Heating capacity (70°C)	(1)	kW	12,18	11,27	9,91	12,98	11,92	10,29	23,50	21,67	16,78	25,37	23,30	17,88
Water flow rate	(1)	l/h	1069	989	869	1139	1046	902	2061	1901	1472	2225	2044	1569
Pressure drops	(1)	kPa	32,0	26,0	22,0	16,0	14,0	11,0	47,0	40,0	23,0	33,0	28,0	18,0
Heating capacity (50°C)	(2)	kW	6,06	5,60	4,93	6,45	5,92	5,11	11,60	10,70	8,34	12,60	11,50	7,80
Water flow rate	(2)	l/h	1042	963	848	1109	1018	879	1995	1840	1434	2167	1978	1342
Pressure drops	(2)	kPa	32,0	28,0	22,0	16,0	13,5	10,0	46,0	40,0	25,0	33,0	28,0	13,8
Cooling Performance														
Total cooling capacity	(3)	kW	5,62	5,18	4,44	5,85	5,35	4,56	10,63	9,94	8,17	11,80	10,80	8,00
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,91	3,59	3,12	7,29	6,75	5,35	7,90	7,26	5,48
Cooling capacity (latent)	(3)	kW	1,80	1,67	1,42	1,94	1,76	1,44	3,34	3,19	2,82	3,90	3,54	2,52
Water flow rate	(3)	I/h	967	891	764	1006	920	784	1828	1710	1405	2030	1858	1376
Pressure drops	(3)	kPa	36,0	31,0	23,0	19,0	16,5	12,1	50,0	44,0	31,0	39,0	33,5	19,5
Fans			,	,	,	,	,	,	,	,	,	,	,	,
Fans - Centrifugal		n°		4			4			6			6	
Air flow rate		m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138
High static pressure		Pa	60	50	37	60	50	36	60	50	29	60	50	29
Sound data			<del>-</del>	···		· · · · ·			<del>-</del>	<del>-</del>		<del>-</del>	<del>-</del>	
Sound power level (inle+radiated)	(4)	dB(A)	58	56	52	58	56	52	62	60	40	62	60	40
Sound power level (outlet)	(-)	dB(A)	54	52	48	54	52	48	58	56	36	58	56	36
Diameter connections		(-)												
Standard coil		Ø		3/4"			3/4"			3/4"			3/4"	
Additional coil		Ø		-			-			-			-	
Electrical Features														
Absorbed power		W	72	53	38	72	53	38	153	120	59	153	120	59
Signal 0-10V		%	90	82	70	90	82	70	90	82	62	90	82	62
Power supply		,,,	,,,	- 02	7.0		- 02		~50Hz	- 02	- 02		- 02	- 02
топст зарргу								2501	JOHE					
Size				5305			5310			7305			7310	
Fan speed			Н	М	L	Н	М	L	Н	M	L	Н	М	L
Heating Performance														
4 pipe conÿ guration														
Heating capacity (70°C)	(1)	kW	4,15	3,91	3,55	7,07	6,64	5,95	5,24	4,94	4,06	9,56	9,01	7,54
Water flow rate	(1)	I/h	364	343	311	621	582	522	460	434	356	838	790	662
Pressure drops	(1)	kPa	9,0	8,0	6,0	7,0	6,0	5,0	10,0	9,0	6,0	17,0	14,0	11,0
Cooling Performance	(-)													
Total cooling capacity	(3)	kW	5,63	5,18	4,44	5,63	5,18	4,44	10,37	9,94	8,17	10,37	9,94	8,17
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,82	3,51	3,02	7,29	6,76	5,36	7,29	6,76	5,36
Cooling capacity (latent)	(3)	kW	1,81	1,67	1,42	1,81	1,67	1,42	3,08	3,18	2,81	3,08	3,18	2,81
Water flow rate	(3)	I/h	968	891	763	968	891	763	1830	1709	1406	1830	1709	1406
Pressure drops	(3)	kPa	36,0	31,0	23,0	36,0	31,0	23,0	49,0	44,0	31,0	49,0	44,0	31,0
Fans							-							
Fans - Centrifugal		n° .		4			4			6			6	
Air flow rate		m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138
High static pressure		Pa	60	50	37	60	50	37	60	50	29	60	50	29
Sound data														
Sound power level (inle+radiator)	(4)	dB(A)	58	56	52	58	56	52	62	60	40	62	60	40
Sound power level (outlet)		dB(A)	50	48	44	50	48	44	54	52	32	54	52	32
Diameter connections														
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"		
Additional coil		Ø	1/2"			1/2"			1/2"			1/2"		
Electrical Features				-										
Absorbed power		W	72	53	38	72	53	38	153	120	66	153	120	66
Signal 0-10V		%	90	84	66	90	84	66	90	76	62	90	78	64
Power supply							,	230V	~50Hz					

H max. speed; M med.speed; L min.speed
(1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;
(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;
(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)
(4) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

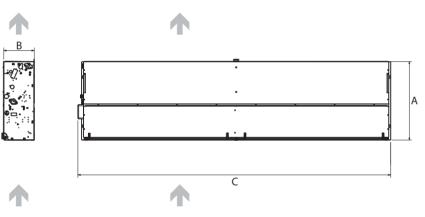
#### **DIMENSIONS**

#### VES: 5300I - 5305I - 5310I - 5400I



Size		5300	5305	5310	5400
Dimensions and weights					
A	mm	558	558	558	558
В	mm	217	217	217	217
(	mm	1539	1539	1539	1539
Weights	kg	46	47	47	47

#### VES: 7300I - 7305I - 7310I - 7400I



Size		7300	7305	7310	7400
Dimensions and weights					
A	mm	558	558	558	558
В	mm	217	217	217	217
C	mm	2222	2222	2222	2222
Weights	kg	65	68	68	68

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# Plenum with motor-driven dampers for channelling fan coils



- Multi-zone plenum for controlling air capacity
- Available for CHANNELLED On/off and inverter fan coils

#### DESCRIPTION

The plenum with motor-driven dampers is designed for residential and tertiary applications. It combines optimal ambient comfort with assured energy savings. Modern plant increasingly require overall air conditioning using channelled systems. Thanks to the electronic control of the dampers, the MZC accessory regulates the room's comfort by adjusting the air flow to meet the actual requirements. MZC is designed for use in combination with all fan coils with asynchronous or brushless motors and is pre-set to distribute exchange air.

#### **FEATURES**

#### Structure

- Galvanized sheet metal structure, insulated with self-extinguishing material.
- From 2 to 6 delivery outlet blocks depending on the model. Each outlet
  is fitted with a motor-driven damper, with the possibility whenever
  the system so requires of adding an accessory MZCSM outlet (possibility not available for all models see the accessory compatibility table).
- Fresh air injection flange, supplied as standard, for connecting the MZC plenum to a heat recovery unit.
- Pre-setting for the installation of an additional Air Probe (accessory MZCSA) to control the Modulating or Pressure Independent Valves.
- Possibility of installing the plenum even on the fan coil intake using a flange (accessory MZCA)
- Reversible electrical box (right/left)

#### **Adjustment**

- MCZ is equipped with a zone thermostat MZCUI to select the required temperature set
- The status of the dampers (open/closed) is adjusted on reaching the temperature set in each room.
- Management of up to 6 motorized dampers
- Flow control for each damper (the damper's maximum and minimum aperture can be set for each outlet).
- Possibility of associating the control of multiple dampers with the same

- zone thermostat, even wireless (MZCUI or WT10).
- For installations in which the dampers and room thermostats are uniquely associated, the dampers can be modulated in relation to the room thermostats' requirements.
- Enabling the "Suction Plenum" function
- MZC is able to control any valves installed on the fan coil associated with it (On/Off, modulating or Pressure Independent types) for systems with 2 or 4 pipes
- Possibility of setting control unit parameters through the supervision serial port

#### **ACCESSORIES**

- MZCAC: Compulsory electrical plant for connecting the MZC plenum with a fan coil fitted with an asynchronous motor
- MZCBC: Compulsory electrical plant for connecting the MZC plenum with a fan coil fitted with a brushless motor
- MZCSM: single module with motorized damper for all models except MZC220
- MZCUI: zone thermostat in addition to the one supplied as standard whenever the plant installation so requires.
- MZCA: Adapter flange for installing the Plenum even under fan coil suction.
- WT10: Wireless thermostat.
- WR10: Two-channel wireless receiver for WT10.
- MZCSA: Air Probe for controlling Modulating or Pressure Independent
  Valves
- VMF-VOC: Air quality detection accessory.
- MZCACV: Relay Interface board. Mandatory accessory on VED 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).

#### **COMPATIBILITY OF ACCESSORIES**

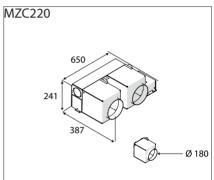
Model	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
MZCSM	-	•	•	•	•	•
MZCUI	•	•	•	•	•	•
MZCAC	•	•	•	•	•	•
MZCBC	•	•	•	•	•	•
WT10	•	•	•	•	•	•
WR10	•	•	•	•	•	•
MZCA	2	3	5	8	-	-
MZCSA	•	•	•	•	•	•
VMF-VOC	•	•	•	•	•	•
MZCACV	-	-	-	-	-	•

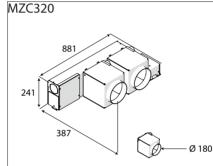
#### **COMPATIBILITY OF MZC PLENUMS WITH AERMEC FAN COILS**

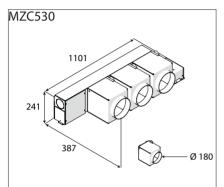
For performance data, refer to the product data cards for each MZC compatible unit. All these data cards are available on the site www.aermec.com

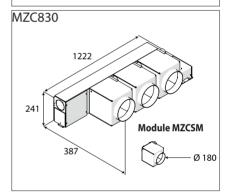
Models	N°Dampers	FCX_PO	FCXI_P	FCZ_P0	FCZI_P	VED	VED_I	
MZC220	2	22-24	20-24	200-201-202-250	200-201-202-250	030-040	030-040	
MZC320	2*	32-34-36	30-34-36	300-301-302-350	300-301-302-350	130-140	130-140	
M7CE20	3 *	42-44	40-44	400 -401-402-450	400 -401-402-450	230-240	220.240	
MZC530	3 "	50-54-56	50-54-56	500-501-502-550	500-501-502-550	230-240	230-240	
					600-601-602-650			
MZC830	3*	62-64	80-84	700-701-702-750	700-701-702-750	330-340	330-340	
IVIZCOSU	3	82-84	00-04	800-801-802-850	900-901-950	330-340	330-340	
				900-901-950				
MZC5040	4*		_	_		430-432-440-441	530-532-540-541	
MZC3040	40 4* -	-		<u>-</u>	<u>-</u>	530-532-540-541	330-332-340-341	
MZCZOEO	5 *					630-632640-641	730-732-740-741	
MZC7050 5 *	5^ -		-	-	730-732-740-741	/30-/32-/40-/41		

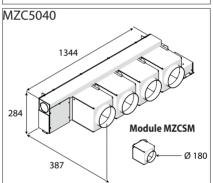
<sup>\*</sup>Whenever the plant installation so requires, it is even possible to add later on a single delivery module MZCSM (accessory), refer to the figures

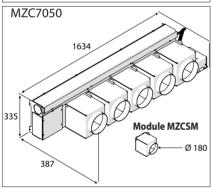






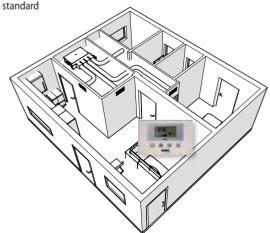




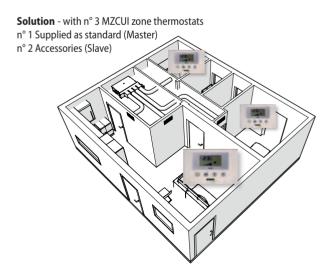


#### **PLANT SOLUTIONS**

**Solution** - with n° 1 MZCUI zone thermostat Supplied as standard



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