













# **VED 030-340**

## Fan coil unit for ducted installations



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





#### **DESCRIPTION**

Ducted fan coil, for heating, cooling and dehumidifying.

Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

## **FEATURES**

#### Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

#### **Ventilation group**

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

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

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Fan housing in plastic material removable for easy and effective cleaning.

#### Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The hydraulic connections can be inverted during installation.

#### Air filter

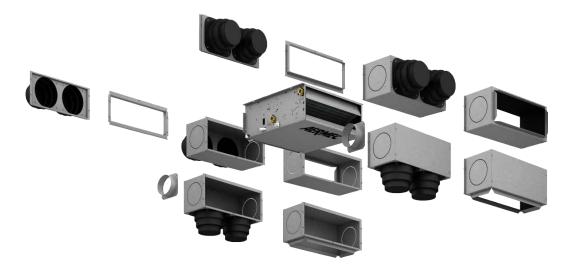
Coarse 25% Class air filter, easy to remove and clean.

#### **Controls and Accessoires**

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

The unit is supplied with the delivery connection supplied.

#### **ACCESSORIES**



#### **Control panels**

**AER503IR:** Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control. **PRO503:** Wall box for AER503IR and VMF-E4 thermostats.

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

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

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

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

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

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

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

 $\textbf{WMT16:} \ Electronic \ thermostat \ with \ thermostated \ ventilation.$ 

WMT16CV: Electronic thermostat with continuous ventilation.

#### **AerSuite**

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

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

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



### **VMF Components**

**D124:** Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, D124 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, D124 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, D124CP, is also available as a separate accessory in our catalog.

**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, with grids GLF\_N/M and GLL\_N, can be controlled with VMF-IR control.

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

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

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

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

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

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

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

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

#### Valves and additional water coil

**BV:** Hot water heat exchanger with 1 row.

VCF\_X: 3-way valve kit for fan coils with single heat exchanger and hydraulic connections on the left side, for installation in 4-pipe systems. The kit is composed by 2 insulated 3-way valves and 4 connections complete with electrothermal actuators, insulating shells for the valves and with hydraulic fittings. 230V power supply. Hydraulic connections: Valve body Ø G 3/4" Male; Valve side connection pipes Ø G 3/4" Female; Unit side connection pipes Ø G 3/4" Male.

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

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

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

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

#### Installation accessories

AMP: Wall mounting kit

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

#### **Accessories for intake**

**GA:** Intake grid with fixed louvers

GA\_Z: Intake grid with fixed louvers in RAL 9003 colour.

GAF: Intake grid with filter and fixed louvers

GAF\_Z: Intake grid with filter and fixed louvers in RAL 9003 colour.

**SE** X: External air shutter with manual control.

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

RDA\_C: Straight intake connection with circular flanges.

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

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

#### **Delivery accessories**

MZC: Plenum with motorised dampers.

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

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

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

GM\_Z: Outlet grid with fixed louvers in RAL 9003 colour.

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.

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

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

KFV: Circular flanges kit for plenum.

#### **ACCESSORIES COMPATIBILITY**

## **Control panels and dedicated accessories**

Model	Ver	030	040	130	140	230	240	330	340
AER503IR (1)		•	•	•	•	•	•	•	•
PR0503	•	•	•	•	•	•	•	•	•
SA5 (2)		•	•	•	•	•	•	•	•
SIT3 (3)		•	•	•	•	•	•	•	•
SIT5 (4)		•	•	•	•	•	•	•	•
SW3 (2)		•	•	•	•	•	•	•	•
SW5 (2)	•	•	•	•	•	•	•	•	•
TX (5)		•	•	•	•	•	•	•	•
WMT10 (5)		•	•	•	•	•	•	•	•
WMT16 (5)		•	•	•	•	•	•	•	
WMT16CV (5)	•	•	•	•	•		•	•	•

<sup>(1)</sup> Wall-mount installation.

- (2) Probe for AER503IR-TX thermostats, if fitted.
  (3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.
- (4) Probe for AERSO3IR-TX thermostats, if fitted.
  (5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

#### VMF system

VIVIE SYSTEIII									
Model	Ver	030	040	130	140	230	240	330	340
DI24		•	•	•	•	•	•	•	•
VMF-E19 (1)		•	•	•	•	•	•	•	•
VMF-E3		•	•	•	•	•	•	•	•
VMF-E4DX		•	•	•	•	•	•	•	•
VMF-E4X		•	•	•	•	•	•	•	•
VMF-IO		•	•	•	•	•	•	•	•
VMF-IR		•	•	•	•	•	•	•	•
VMF-SIT3V (2)								•	•
VMF-SW		•	•	•	•	•	•	•	•
VMF-SW1		•	•	•	•	•		•	
VMHI		•	•	•	•	•	•	•	•

<sup>(1)</sup> Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes. (2) For the selection, consult the documentation for the thermostat and the fan coil.

## (Heating only) additional coil

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

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

The accessory cannot be fitted on the configurations indicated with -

#### **Water valves**

## Valve Kit for 4 pipe systems with main coil

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

#### 3 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
3 way valve kit								
Main heat exchanger	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 heat exchanger	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD2-VCFD224	VCFD3-VCFD324	VCFD2-VCFD224	VCFD3-VCFD324	VCFD3-VCFD324
Additional coil "BV"	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-

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

## Combined adjustment and balancing valve cold side

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

## **Installation accessories**

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

## Condensate drip

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

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

#### Condensate recirculation device

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

#### **Accessories for intake**

## Intake grids

mitaile grias									_
Ver	030	040	130	140	230	240	330	340	
	GA22	GA22	GA32	GA32	GA42	GA42	GA62	GA62	Ī

## Intake grids

Model	Ver	030	040	130	140	230	240	330	340
GA100Z (1)		•							
GA200Z (1)			•						
GA300Z (1)				•	•				
GA400Z (1)						•	•		
GA600Z (1)								•	•

<sup>(1)</sup> In order to be used on the units, the following accessories require a connection (duct) to be made by the user depending on the distance between the position of the unit and the positioning of the intake/outlet grilles. The grilles cannot be directly coupled to the unit.

Ver		ers )30	040	130	140	230	240	330	340
		AF22	GAF22	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62
·			GRIZZ	0/11/52	G/II 32	G/II 12	GAI 12	G/II OZ	4/11/02
_	lter and fixed louv								
Ver		)30	040	130	140	230	240	330	340
In order to be used on t	'		GAF200Z (1)	GAF300Z (1)	GAF300Z (1)		GAF400Z (1)	GAF600Z (1)	GAF600Z (1
grilles cannot be directl	the units, the following accestly coupled to the unit.	ssories require a co	milection (duct) to	be made by the user de	benuing on th	e distance between the p	osition of the unit and	i the positioning of the fi	nake/outlet griii
xternal air shutte	er with manual cor	ntrol							
Ver		)30	040	130	140	230	240	330	340
	SE	20X	SE20X	SE30X	SE30X	SE40X	SE40X	SE80X	SE80X
ntake straight wi	th rectangular flar	nges							
Ver		)30	040	130	140	230	240	330	340
	RDA	V000V	RDA000V	RDA100V	RDA100V	RDA200V	RDA200V	RDA300V	RDA300V
ntake straight int	ternally insulated,	with circula	r flanges						
Ver		)30	040	130	140	230	240	330	340
	RDA	C000V	RDAC000V	RDAC100V	RDAC100V	RDAC200V	RDAC200V	RDAC300V	RDAC300V
ntaka mlamum udi	th voeton audou flou								
ntake pienum wi Ver	th rectangular flan	1 <b>ges</b> 130	040	130	140	230	240	330	340
. vei		\000V	RPA000V	RPA100V	RPA100V	RPA200V	RPA200V	RPA300V	RPA300V
	_								
	th circular flanges		046	424	440	22.2	840	22.5	
Ver		000V	<b>040</b> PA000V	130 PA100V	140 PA100V	230 PA200V	240 PA200V	9330 PA300V	340 PA300V
	PA	0001	INVUV	INIVVI	1 / 10/01	1 1/2000	INZUUV	1 NUUVI	VUUCHI
Delivery accesso	ories								
lenum with moto	or-driven dampers	3							
Ver		)30	040	130	140	230	240	330	340
	MZ	<u>7</u> C220	MZC220	MZC320	MZC320	MZC530	MZC530	MZC830	MZC830
Electrical system v	with relays								
Ver	030	040	130	140		230	240	330	340
	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)		MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)
•	MZCACV if the intake of the u	nit combined with	the MZC accessory	exceeds 0.7 Ampere.					
lectric plant									
Vor	030	040	120	1/0		220	240	330	3/10
Ver	030 MZCAC	<b>040</b> MZCAC	130 MZCAC	140 MZCAC		<b>230</b> M7CAC	240 MZCAC	330 M7CAC	<b>340</b> M7CAC
	MZCAC	<b>040</b> MZCAC	130 MZCAC	<b>140</b> MZCAC		230 MZCAC	<b>240</b> MZCAC	330 MZCAC	<b>340</b> MZCAC
low grid with adj	MZCAC justable louvers	MZCAC	MZCAC	MZCAC		MZCAC	MZCAC	MZCAC	MZCAC
low grid with adj	MZCAC justable louvers	MZCAC	MZCAC	MZCAC	140	MZCAC 230	MZCAC <b>240</b>	MZCAC 330	MZCAC 340
low grid with adj	MZCAC justable louvers	MZCAC	MZCAC	MZCAC	<b>140</b> GM32	MZCAC	MZCAC	MZCAC	MZCAC
low grid with adj Ver	MZCAC justable louvers (G	MZCAC	MZCAC	MZCAC		MZCAC 230	MZCAC <b>240</b>	MZCAC 330	MZCAC 340
low grid with adj Ver	MZCAC  justable louvers  G  Gi  justable louvers	MZCAC  030  M22	MZCAC  040  GM22	130 GM32	GM32 140	230 GM42	MZCAC  240  GM42  240	330 GM62	340 GM62
low grid with adj Ver low grid with adj Ver	MZCAC  justable louvers  G  justable louvers  G  G  G  G  G  G  G  G  G  G  G  G  G	MZCAC  130  M22  130  000 (1)	MZCAC  040  GM22  040  GM207  GM207  GM207  GM207  GM207  GM207  GM207	130 GM32 130 GM302 (1)	GM32 140 GM300Z (1)	230 GM42 230 GM42	240 GM42 240 GM402 (1)	330 GM62 330 GM62	340 GM62 340 GM600Z (1
Flow grid with adj Ver Flow grid with adj Ver	MZCAC  justable louvers  Gi  justable louvers  GM2  che units, the following acceit	MZCAC  130  M22  130  000 (1)	MZCAC  040  GM22  040  GM207  GM207  GM207  GM207  GM207  GM207  GM207	130 GM32 130 GM302 (1)	GM32 140 GM300Z (1)	230 GM42 230 GM42	240 GM42 240 GM402 (1)	330 GM62 330 GM62	340 GM62 340 GM600Z (1
Flow grid with adj  Ver  Flow grid with adj  Ver  1) In order to be used on t grilles cannot be directl	MZCAC  justable louvers  Gi  justable louvers  GMZ  the units, the following accestly coupled to the unit.	MZCAC  030  M22  030  002 (1)  ssories require a co	MZCAC  040  GM22  040  GM20Z (1)  onnection (duct) to	130 GM32 130 GM302 (1)	GM32 140 GM300Z (1)	230 GM42 230 GM42	240 GM42 240 GM402 (1)	330 GM62 330 GM62	340 GM62 340 GM600Z (1
Flow grid with adj  Ver  Flow grid with adj  Ver  1) In order to be used on t grilles cannot be directl  Delivery plenum i	MZCAC  justable louvers  Gi  justable louvers  GM2  the units, the following acces y coupled to the unit.	MZCAC  130  130  130  1002 (1)  1007 (1)  1007 (1)  1007 (1)  1007 (1)  1007 (1)  1007 (1)  1007 (1)	MZCAC  040 GM22  040 GM200Z (1) onnection (duct) to	130 GM32 130 GM302 (1) be made by the user de	GM32 140 GM300Z (1) pending on th	MZCAC  230  GM42  230  GM400Z (1)  se distance between the p	240 GM42  240 GM42  240 GM40Z (1) osition of the unit and	MZCAC  330 GM62  330 GM602  1 the positioning of the in	340 GM62 340 GM60Z (1
Flow grid with adj  Ver  Flow grid with adj  Ver  1) In order to be used on t	MZCAC  justable louvers  Gi  justable louvers  GM2  the units, the following acce: by coupled to the unit.  internally insulated	MZCAC  030  M22  030  002 (1)  ssories require a co	MZCAC  040  GM22  040  GM20Z (1)  onnection (duct) to	130 GM32 130 GM302 (1)	GM32 140 GM300Z (1)	230 GM42 230 GM42	240 GM42 240 GM402 (1)	330 GM62 330 GM62	340 GM62 340 GM600Z (1
Flow grid with adj Ver Flow grid with adj Ver  1) In order to be used on t grilles cannot be directl Delivery plenum i Ver	MZCAC  justable louvers  (gistable louvers  (GMZ)  the units, the following access by coupled to the unit.  internally insulates  (PM)	MZCAC  030  M22  030  002 (1)  ssories require a co  d, with circu  030  000V	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to clar flanges 040 PM000V	130 GM32  130 GM30Z (1) be made by the user department of the state of	GM32 140 GM300Z (1) pending on th	MZCAC  230 GM42  230 GM400Z (1)  se distance between the p	240 GM42  240 GM40Z (1) osition of the unit and	MZCAC  330 GM62  330 GM602(1) I the positioning of the in	340 GM62 340 GM60Z (1 otake/outlet grille
Flow grid with adj Ver Flow grid with adj Ver  I) In order to be used on t grilles cannot be directl Delivery plenum i Ver Delivery plenum i	ijustable louvers  (gistable louvers  (gistable louvers  (gM2) (she units, the following access by coupled to the unit. (internally insulated photosis in the couple of the unit.	MZCAC  030  M22  030  00Z (1)  ssories require a co d, with circu 030  000V	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to allar flanges 040 PM000V	130 GM32  130 GM30Z (1) be made by the user del  130 PM100V	GM32  140 GM300Z (1) bending on th  140 PM100V	MZCAC  230 GM42  230 GM40Z (1)  se distance between the p  230 PM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V	MZCAC  330 GM62  330 GM60Z (1) I the positioning of the in  330 PM300V	340 GM62 340 GM60Z (1 htake/outlet grille 340 PM300V
Flow grid with adj Ver Flow grid with adj Ver Flow grid with adj	ijustable louvers  (gistable louvers  (gistable louvers  (gM2  (gm2  (che units, the following access (y coupled to the unit.  (internally insulated  (maternally insulated  (maternally insulated  (maternally insulated	MZCAC  030  M22  030  00Z (1)  ssories require a co d, with circu 030  000V  d, with recta 030	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to allar flanges 040 PM000V angular flang 040	130 GM32  130 GM30Z (1) be made by the user del  130 PM100V	GM32  140 GM300Z (1) pending on th  140 PM100V	230 GM42  230 GM42  230 GM400Z (1) e distance between the p  230 PM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V	MZCAC  330 GM62  330 GM60Z (1) I the positioning of the in  330 PM300V	340 GM62 340 GM60Z (1 htake/outlet grille 340 PM300V
low grid with adj Ver  low grid with adj Ver  ) In order to be used on t grilles cannot be directl Pelivery plenum i Ver  Pelivery plenum i Ver	justable louvers  (gistable louvers  (gistable louvers  (GM2  the units, the following access by coupled to the unit.  (internally insulates  PM  internally insulates  (RPA	MZCAC  030  M22  030  002 (1)  002 (1)  0030  0000  d, with circulation of the circulatio	MZCAC  040 GM22  040 GM200Z (1)  connection (duct) to  llar flanges 040 PM000V  angular flang 040 RPM000V	130 GM32  130 GM30Z (1) be made by the user del  130 PM100V	GM32  140 GM300Z (1) bending on th  140 PM100V	MZCAC  230 GM42  230 GM40Z (1)  se distance between the p  230 PM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V	MZCAC  330 GM62  330 GM60Z (1) I the positioning of the in  330 PM300V	340 GM62 340 GM60Z (1 htake/outlet grille 340 PM300V
low grid with adj  Ver  low grid with adj  Ver  I) In order to be used on t grilles cannot be directl Delivery plenum i  Ver  Delivery plenum i  Ver	ijustable louvers  () () () () () () () () () () () () ()	MZCAC  130  M22  130  130  100Z (1)	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to color flanges 040 PM000V engular flange 040 RPM000V	130 GM32  130 GM30Z (1) be made by the user department of the service of the serv	GM32  140 GM300Z (1) bending on th  140 PM100V  140 RPM100V	230 GM42  230 GM42  230 GM400Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V	330 GM62  330 GM602 (1)  I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grille  340 PM300V  340 RPM300V
Flow grid with adj Ver	ijustable louvers  () () () () () () () () () () () () ()	MZCAC  030  M22  030  00Z (1)  ssories require a co  d, with circu  030  000V  d, with recta  030  0000V  d, with circu  030	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to color flanges 040 PM000V engular flange 040 RPM000V allar flanges 040	130 GM32  130 GM30Z (1) be made by the user deplay the user de	GM32  140 GM300Z (1) bending on th  140 PM100V  140 RPM100V	230 GM42  230 GM40Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V	330 GM62  330 GM602 (1)  I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grille  340 PM300V  340 RPM300V
low grid with adj  Ver  low grid with adj  Ver  ) In order to be used on t grilles cannot be directl  Delivery plenum i  Ver  Pelivery plenum i  Ver	ijustable louvers  () () () () () () () () () () () () ()	MZCAC  030  M22  030  00Z (1)  ssories require a co  d, with circu  030  000V  d, with recta  030  0000V  d, with circu  030	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to color flanges 040 PM000V engular flange 040 RPM000V	130 GM32  130 GM30Z (1) be made by the user department of the service of the serv	GM32  140 GM300Z (1) bending on th  140 PM100V  140 RPM100V	230 GM42  230 GM42  230 GM400Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V	330 GM62  330 GM602 (1)  I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grille  340 PM300V  340 RPM300V
low grid with adj  Ver  low grid with adj  Ver  i) In order to be used on t grilles cannot be directl  Pelivery plenum i  Ver  Delivery plenum i  Ver  Celivery straight i	internally insulated internal internally insulated	MZCAC  030  M22  030  00Z (1)  ssories require a co  d, with circu  030  000V  d, with recta  030  0000V  d, with circu  030	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to color flanges 040 PM000V engular flange 040 RPM000V allar flanges 040	130 GM32  130 GM30Z (1) be made by the user deplay the user de	GM32  140 GM300Z (1) bending on th  140 PM100V  140 RPM100V	230 GM42  230 GM40Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V	330 GM62  330 GM602 (1)  I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grille  340 PM300V  340 RPM300V
low grid with adj  Ver  low grid with adj  Ver  i) In order to be used on t grilles cannot be directl  Pelivery plenum i  Ver  Delivery plenum i  Ver  Celivery straight i	ijustable louvers  (gistable louvers (gistable l	MZCAC  030  M22  030  00Z (1)  ssories require a co  d, with circu  030  000V  d, with recta  030  0000V  d, with circu  030	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to color flanges 040 PM000V engular flange 040 RPM000V allar flanges 040	130 GM32  130 GM30Z (1) be made by the user deplay the user de	GM32  140 GM300Z (1) bending on th  140 PM100V  140 RPM100V	230 GM42  230 GM40Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V	330 GM62  330 GM602 (1)  I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grille  340 PM300V  340 RPM300V
low grid with adj  Ver  low grid with adj  Ver  I) In order to be used on t grilles cannot be directl Delivery plenum i  Ver  Delivery plenum i  Ver  Delivery straight i  Ver	internally insulated internall	MZCAC  030  M22  030  M22  030  00Z (1)  ssories require a co d, with circu 030  000V  d, with recta 030  0000V  d, with circu 030  0000V	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to clar flanges 040 PM000V Angular flang 040 RPM000V alar flanges 040 RPM000V	130 GM32  130 GM30Z (1) be made by the user deplay the user de	GM32  140 GM300Z (1) Deending on the 140 PM100V  140 RPM100V  140 RDMC100V	MZCAC  230 GM42  230 GM400Z (1) e distance between the p  230 PM200V  230 RPM200V	240 GM42  240 GM40Z (1) osition of the unit and PM200V  240 RPM200V  240 RPM200V	330 GM62  330 GM60Z (1) I the positioning of the in  330 PM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grills  340 PM300V  340 RPM300V  340 RDMC300V
Flow grid with adj Ver Flow grid with adj	ijustable louvers  () () () () () () () () () () () () ()	MZCAC  130  130  130  100Z (1)  130  130  130  1000V  130  14, with circus 130  14, with rectas 130  14, with circus 130	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to collar flanges 040 PM000V Angular flang 040 RPM000V alar flanges 040 RPM000V	130 GM32  130 GM32  130 GM300Z (1) be made by the user del  130 PM100V  ges 130 RPM100V	GM32  140 GM300Z (1) pending on th  140 PM100V  140 RPM100V  140 RDMC100V	230 GM42  230 GM400Z (1) e distance between the p  230 PM200V  230 RPM200V  230 RDMC200V	240 GM42  240 GM42  240 GM400Z (1) osition of the unit and PM200V  240 RPM200V  240 RDMC200V	330 GM62  330 GM62  330 GM600Z (1)  The positioning of the in  330 PM300V  330 RPM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grills  340 PM300V  340 RPM300V  340 RDMC300V
Flow grid with adj Ver	ijustable louvers  () () () () () () () () () () () () ()	MZCAC  130  130  130  100Z (1)  130  130  130  1000V  130  14, with circus 130  14, with rectas 130  14, with circus 130	MZCAC  040 GM22  040 GM200Z (1) connection (duct) to collar flanges 040 PM000V Angular flang 040 RPM000V alar flanges 040 RPM000V	130 GM32  130 GM32  130 GM300Z (1) be made by the user del  130 PM100V  ges 130 RPM100V	GM32  140 GM300Z (1) pending on th  140 PM100V  140 RPM100V  140 RDMC100V	230 GM42  230 GM400Z (1) e distance between the p  230 PM200V  230 RPM200V  230 RDMC200V	240 GM42  240 GM42  240 GM400Z (1) osition of the unit and PM200V  240 RPM200V  240 RDMC200V	330 GM62  330 GM62  330 GM600Z (1)  The positioning of the in  330 PM300V  330 RPM300V  330 RPM300V	340 GM62  340 GM60Z (1 atake/outlet grillet  340 PM300V  340 RPM300V  340 RDMC300V

#### **PERFORMANCE SPECIFICATIONS**

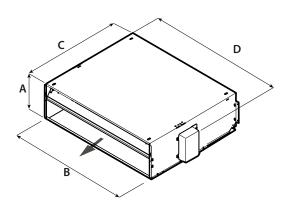
#### 2-pipe

		VED030		VED040		VED130			VED140			VED230			VED240			VED330			VED340				
		1	4	6	1	4	6	1	4	6	1	4	6	1	3	6	1	3	6	1	3	7	1	3	7
		L	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	10,9
Water flow rate system side	l/h	160	296	323	207	313	343	386	512	552	396	534	577	469	570	628	509	626	694	685	819	921	729	878	960
Pressure drop system side	kPa	3	7	9	4	10	12	13	22	26	9	16	18	27	30	37	18	26	32	9	13	16	22	28	32
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	0,90	1,67	1,83	1,18	1,77	1,94	2,18	2,90	3,12	2,24	3,02	3,27	2,66	3,23	3,56	2,88	3,55	3,93	3,88	4,64	5,22	3,98	4,98	5,44
Water flow rate system side	l/h	157	291	318	204	208	338	380	504	543	390	526	568	462	561	618	501	616	683	674	807	907	718	865	945
Pressure drop system side	kPa	3	8	9	5	11	13	15	24	28	10	16	19	26	29	36	18	27	32	10	14	17	13	20	23
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	0,97	1,41	1,56	1,10	1,68	1,84	2,05	2,74	2,91	2,24	3,00	3,22	2,55	3,07	3,33	2,86	3,57	3,93	3,62	4,35	4,90	3,92	4,72	5,26
Sensible cooling capacity	kW	0,73	1,07	1,18	0,79	1,19	1,29	1,41	1,89	2,01	1,58	2,14	2,30	1,96	2,38	2,61	2,16	2,65	2,92	2,74	3,26	3,63	2,89	3,50	3,89
Water flow rate system side	l/h	170	250	279	193	296	327	358	480	515	390	525	566	445	538	588	499	624	691	633	760	860	685	824	922
Pressure drop system side	kPa	3	7	9	5	12	14	15	27	31	11	20	23	25	36	44	16	31	37	10	14	18	16	21	26
Fan																									
Туре	type												Centr	fugal											
Fan motor	type												Asynch	ronous											
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		٧1	V4	٧6	V1	V4	V6	V1	V4	٧6	٧1	V4	V6	٧1	V3	V6	V1	V3	٧6	V1	V3	٧7	V1	V3	٧7
Duct type fan coil sound data (3)																									
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
Finned pack heat exchanger																									
Water content main heat exchanger			0,7			1,0			1,1			1,5			1,5			2,1			1,8			2,3	
Diametre hydraulic fittings																									
Main heat exchanger	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) 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**

6



		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
(	mm	560	560	560	560	560	560	560	560
D	mm	576	576	807	807	1027	1027	1148	1148

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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