















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

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.



AER503: Wall-mounted panel.

FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems. **FMT21:** Electronic thermostat for fan coil in to 2/4 pipe systems.

PX2: Commutator switch.

PX2C6: Commutator switch. Kit to 6 pz.

PXAE: Electronic thermostat with thermostated or continuous ventilation.

PXAR: Electronic thermostat with thermostated or continuous ventilation.

SA5: Air temperature probe.

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 (selector or thermostat). 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 temperature probe. Allows automatic season change on electronic controllers supplied with water-side change over.

SW5: Water temperature probe.

SWA: External probe accessory SWA (length L=6m). It detects the temperature of the room air if connected to the connector (A) of the FMT21 panel. The room air temperature probe, incorporated in the panel, is automatically disabled. It detects the temperature of the water in the system for ventilation consent if connected to the connector (W) of the FMT21 panel. Two SWA probes can be connected simultaneously to the FMT21 panel.

TPF: Electronic thermostat, black, with thermostated or continuous ventilation.

TPFW: Electronic thermostat, white, with thermostated or continuous

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

WMT06: Electronic thermostat with continuous ventilation.

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

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-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.

ZXZ: Pair of stylish and structural gray feet with skirting board.

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 right, 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.

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.

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

Model	Ver	030	040	130	140	230	240	330	340
AER503		•	•	•	•	•	•	ē	•
FMT10		•	•	•	•	•	•	•	•
FMT21		•	•	•	•	•	•	•	•
PX2		•	•	•	•	•	•	•	•
PX2C6 (1)		•	•	•	•	•	•	•	•
PXAE		•	•	•	•		•	•	•
PXAR		•	•	•	•	•	•	•	•
SA5		•	•	•	•		•	•	•
SIT3 (2)		•	•	•	•	•	•	•	
SIT5 (2)		•	•	•	•	•	•	•	•
SW3 (3)		•	•	•	•	•	•	•	•
SW5		•	•	•	•	•	•	•	•
SWA		•	•	•	•	•	•	•	•
TPF		•	•	•	•	•	•	•	•
TPFW		•	•	•	•	•	•	•	•
WMT05		•	•	•	•	•	•	•	•
WMT06		•	•	•	•	•	•	•	•
WMT10		•	•	•	•	•	•	•	

VMF system

Model	Ver	030	040	130	140	230	240	330	340
VMF-E0X	•	•	•	•	•	•	•	•	•
VMF-E19	•	•	•	•	•	•	•	•	•
VMF-E4DX		•	•	•	•	•	•	•	•
VMF-E4X	•	•	•	•	•	•	•	•	•
VMF-SW		•	•	•	•	•	•	•	•
VMF-SW1		•	•	•	•	•	•	•	•

(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

Model	Ver	030	040	130	140	230	240	330	340
VCF3X4L (1)		•	•	•					
VCF3X4LS (1)					•		•		•
VCF3X4R (1)		•	•	•					
VCF3X4RS (1)					•		•		•

 $^{(1) \}quad \text{For more information about hydraulic connections, refer to the the chical documentation.}$

3 way valve kit

Ver	030	040	130	140	230	240	330	340
	VCF43 (1)	VCF43 (1)	VCF43 (1)	VCF4324S (2)	VCF43 (1)	VCF4324S (2)	VCF43 (1)	VCF43 (1)

 ^{(1) 230}V power supply - Hydraulic connection Ø 3/4"
 (2) 24V power supply - Ø 3/4" hydraulic connections

2 way valve kit

Model	Ver	030	040	130	140	230	240	330	340
VCFD3 (1)		•	•	•	•	•	•	•	•
VCFD324 (2)	•	•	•	•	•	•	•	•	•
VCFD424 (2)		•		•		•		•	
VFCD4 (1)		•				•			

 ^{(1) 230}V power supply - Hydraulic connection Ø 3/4"
 (2) 24V power supply - Ø 3/4" hydraulic connections

⁽¹⁾ Only wall-mount installation (2) Cards for PXAE-PXAR-AER503-TX thermostats if present. (3) Cards for PXAE-PXAR-AER503-TX thermostats if present.

Combined adjustment and balancing valve cold side

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

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

Installation accessories

Installation accessories

Ver	030	040	130	140	230	240	330	340
	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP
Ver	030	040	130	140	230	240	330	340
	DSC4 (1)	DSC4 (1)	DSC4 (1)	DSC4 (1)	DSC4 (1)	DSC4 (1)	DSC4 (1)	DSC4 (1)
1) The accesso	ory cannot be mounted if	the AMPZ accessory and / c	or the VCZ1-2-3-4 X4L / R v	alve is also provided.	. ,	3.7		
Ver	030	040	130	140	230	240	330	340
	ZX7	ZX7	ZX7	ZX7	ZX7	ZX7	ZX8	ZX8
Condensate	e drin							
Ver	030	040	130	140	230	240	330	340
	ZX7	ZX7	ZX7	ZX7	ZX7	ZX7	ZX8	ZX8
ntake grids Ver	s for intake	040	130	140	220	240	220	240
ver	GA22	040 GA22	GA32	140 GA32	230 GA42	240 GA42	330 GA62	340 GA62
Huke gilu								
ntake grid Ver	030 GAF22	040 GAF22	130 GAF32	140 GAF32	230 GAF42	240 GAF42	330 GAF62	340 GAF62
Ver External air	030 GAF22 r shutter with man	GAF22 nual control	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62
Ver	030 GAF22 r shutter with mar 030	GAF22 nual control 040	GAF32 130	GAF32 140	GAF42 230	GAF42 240	GAF62 330	GAF62 340
Ver External air Ver	030 GAF22 r shutter with man	GAF22 nual control 040 SE20X	GAF32	GAF32	GAF42	GAF42 240 SE40X	GAF62	GAF62
Ver external air	030 GAF22 r shutter with man 030 SE20X right with rectange	GAF22 nual control 040 SE20X ular flanges 040	GAF32 130 SE30X	GAF32 140 SE30X 140	GAF42 230 SE40X 230	GAF42 240 SE40X 240	GAF62 330 SE80X 330	GAF62 340 SE80X
Ver External air Ver Intake strai	030 GAF22 r shutter with man 030 SE20X ight with rectangu	GAF22 nual control 040 SE20X ular flanges	GAF32 130 SE30X	GAF32 140 SE30X	GAF42 230 SE40X	GAF42 240 SE40X	GAF62 330 SE80X	GAF62 340 SE80X
Ver External air Ver Intake strai	030 GAF22 r shutter with man 030 SE20X right with rectange 030 RDA000V	GAF22 nual control 040 SE20X ular flanges 040	GAF32 130 SE30X 130 RDA100V	GAF32 140 SE30X 140	GAF42 230 SE40X 230	GAF42 240 SE40X 240	GAF62 330 SE80X 330	GAF62 340 SE80X
Ver External air Ver Intake strai	030 GAF22 r shutter with man 030 SE20X right with rectange 030 RDA000V	GAF22 nual control 040 SE20X ular flanges 040 RDA000V	GAF32 130 SE30X 130 RDA100V	GAF32 140 SE30X 140	GAF42 230 SE40X 230	GAF42 240 SE40X 240	GAF62 330 SE80X 330	GAF62 340 SE80X
Ver . External air Ver . ntake straig Ver . ntake straig	GAF22 r shutter with man GAF20 separate with rectange GAF21 GAF22 SE20X SE20X SE20X SE30X SE40X SE40X SE40X SE40X SE40X SE50X SE50X	GAF22 nual control 040 SE20X ular flanges 040 RDA000V	130 SE30X 130 RDA100V	GAF32 140 SE30X 140 RDA100V	230 SE40X 230 RDA200V	240 SE40X 240 RDA200V	330 SE80X 330 RDA300V	340 SE80X 340 RDA300V
Ver . External air Ver . ntake straig Ver . ntake straig Ver .	O30 GAF22 r shutter with man O30 SE20X ght with rectange O30 RDA000V ght internally inse	GAF22 nual control 040 SE20X ular flanges 040 RDA000V ulated, with circula 040 RDAC000V	130 SE30X 130 RDA100V ar flanges	140 SE30X 140 RDA100V	230 SE40X 230 RDA200V	240 SE40X 240 RDA200V	330 SE80X 330 RDA300V	340 SE80X 340 RDA300\
Ver External air Ver Intake straig Ver Intake straig Ver Intake straig	030 GAF22 r shutter with man 030 SE20X ight with rectangu 030 RDA000V	GAF22 nual control 040 SE20X ular flanges 040 RDA000V ulated, with circula 040 RDAC000V	130 SE30X 130 RDA100V ar flanges	140 SE30X 140 RDA100V	230 SE40X 230 RDA200V	240 SE40X 240 RDA200V	330 SE80X 330 RDA300V	340 SE80X 340 RDA300\

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

Delivery straight internally insulated, with circular flanges

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

Delivery plenum internally insulated, with rectangular flanges

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

Delivery plenum internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
	PM000V	PM000V	PM100V	PM100V	PM200V	PM200V	PM300V	PM300V
ircular flar	naes kit for plenur	n						
	nges kit for plenur							
Circular flar Ver	nges kit for plenur 030	<i>n</i> 040	130	140	230	240	330	340

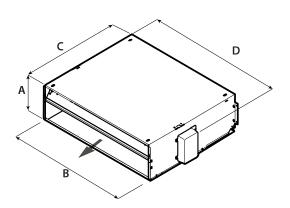
PERFORMANCE SPECIFICATIONS

2-pipe

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	M	Н	L	M	Н	L	М	Н	L	М	Н	L	M	H	L	М	Н	L	_M_	<u>H</u>
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												0n	-Off											
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
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 fittings																									
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	584	584	584	584	584	584	584	584
D	mm	576	576	807	807	1027	1027	1148	1148
							-		

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