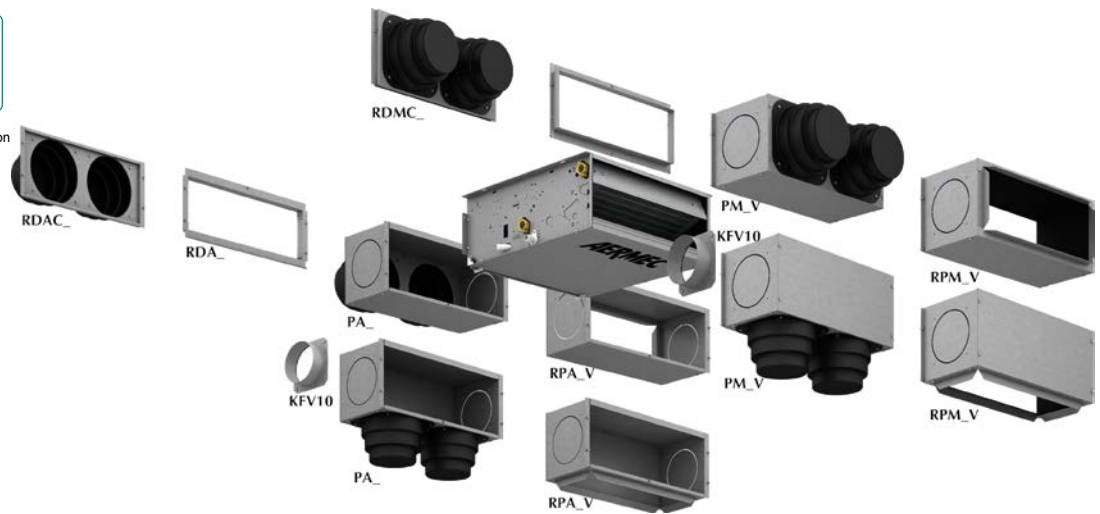


VED Fan coil unit For ducted installations with cooling capacity from 0.99 to 5.82kW



Aermec participates in the EUROVENT Certification Programme FCP. The products of interest can be found on the site: www.eurovent-certification.com



- **HORIZONTAL OR VERTICAL INSTALLATION**
- **VERSIONS FOR 2/4 PIPE SYSTEMS**
- **1 ROW HEATING ONLY COIL (ACCESSORY BV)**
- **LARGE RANGE OF AVAILABLE STATIC PRESSURE**
- **ACCESSIBLE FAN ASSEMBLY**
- **AIR FILTER CLASS G3**
- **REVERSIBLE COIL**

Unit selection

By choosing the appropriate options it is possible to select the model to suit the specific system requirements.

Configuration fields:

1 2 3	4	5	6
Code	Size	Main Coil	0

Example:

1 2 3	4	5	6
VED	0	3	0

(VED030 = unit Size 0, with 3 Row Main Coil)

Characteristics

- Ducted air conditioning terminal unit
- Horizontal and vertical installation
- Internal installation
- Available in 8 sizes
- 3 or 4 row coils for 2-pipe systems
- 3 row main coil and heating only coil accessory for 4-pipe systems
- Reversing of hydraulic connections side on site
- Low pressure drop heat exchanger
- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- 6 and 7 speed fan assembly (3 selectable)
- Large range of available static pressure
- Centrifugal fans in anti-static plastic material. Their characteristics permit energy savings compared to conventional fans
- Fans with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Compatible with many accessories already available on the FCX range
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in Class 1 fire retardant material
- Protective rating IP20
- Fan housing in plastic material removable for easy and effective cleaning
- Ease 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 accessory for control panels

- **SW3:** water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over
- **SWA:** external probe accessory (length = 6m). The probe detects the temperature of the ambient air if connected to the connector (A) on panel FMT21; the ambient air temperature probe incorporated in the panel is automatically deactivated. 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 simultaneously connected to the panel FMT21.
- **SIT 3 - 5:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat).
SIT3: 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: commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

VMF system

- **VMF-E0:** Thermostat accessory to be mounted on the side of the fancoil, equipped with air and water sensors as standard; controls 2 pipe, 4 pipe, 2 pipe + Plasmacluster, 2 pipe + UV lamps, 2 pipe + electrical heater systems. Equipped with external contact to be used as low voltage remote ON-OFF. This thermostat can create a single fancoil zone through 2-wire serial communication (1 master +

maximum 5 slaves). The thermostat is fuse protected.

- **VMF-E4:** Wall mounted user interface allowing control via a capacitive touch keyboard.
- **VMF-E5:** Wall recessed panel allowing control of a complete hydronic system via a capacitive touch keyboard.
- **VMF-E1:** Thermostat for serial communication.
- **VMF-SW:** Water sensor replacing that supplied with VMF-E1 thermostats for installation upstream of the valve.
- **VMF-SW1:** Additional water sensor for 4-pipe systems with E1 thermostats offering maximum control in the cooling range.

Hot water coil

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

Valve kit

- **VCF_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. The VCF1X4L valve kit allows left side connection.
- **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 possible.

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

VED	030	040	130	140	230	240	330	340
Probes and accessories for control panels								
KTLP	•	•	•	•	•	•	•	•
PX-PX2-PX2C6 (1)	•	•	•	•	•	•	•	•
PXAE	•	•	•	•	•	•	•	•
PXAR	•	•	•	•	•	•	•	•
TPF	•	•	•	•	•	•	•	•
WMT05-06-10	•	•	•	•	•	•	•	•
FMT10	•	•	•	•	•	•	•	•
FMT21	•	•	•	•	•	•	•	•
SWA	In combination with FMT21							
SW3	In combination with PXAE or PXAR							
SIT3	In combination with FMT21 or PXAE or PXAR or PX2 or PX or PX2C6 WMT05*-06-10							
SIT5	In combination with FMT21 or PXAE or PXAR							
VMF System								
VMF-E0	•	•	•	•	•	•	•	•
VMF-E1	•	•	•	•	•	•	•	•
VMF-E4	•	•	•	•	•	•	•	•
VMF-E5	•	•	•	•	•	•	•	•
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 (2)	•	•	•	•	•	•	•	•
VCF43S/4324S (2)				•		•		
2 way valve kit								
VCFD3/324 (2)	•	•	•	•	•	•	•	•
3 way valve kit for heating coil only								
VCF45/4524	•		•		•		•	

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

*WMT05 is not available with additional coil (heating only) BV

(1) Only for wall installation; (PX2C6 panel PX2 in multiple 6 pz.)

(2) VCF4324-VCFD324-VCF4524-VCZD424-VJP060M are 24V

Accessories

VED		030	040	130	140	230	240	330	340
2 way valve kit for heating coil only									
VCFD4/424		•		•		•		•	
Combined adjustment and balancing valve independent of pressure*									
VJP060/060M	(2)	•	•	•	•				
VJP090/090M	(2)					•	•	•	•
VJP150/150M	(2)							•	•
Accessories for installation									
AMP		•	•	•	•	•	•	•	•
DSC4	(3)	•	•	•	•	•	•	•	•
ZX7		•	•	•	•	•	•		
ZX8								•	•
Auxiliary condensate drip tray									
BC4	(4)	•	•	•	•	•	•	•	•
BC6		•	•	•	•	•	•	•	•
BC9		•	•	•	•	•	•	•	•
Grille									
GA22		•	•						
GA32				•	•				
GA42						•	•		
GA62								•	•
GAF22		•	•						
GAF32				•	•				
GAF42						•	•		
GAF62								•	•
GM22		•	•						
GM32				•	•				
GM42						•	•		
GM62								•	•
SE20X	(5)	•	•						
SE30X	(5)			•	•				
SE40X	(5)					•	•		
SE80X	(5)							•	•
Plenum for duct installation									
MZC220		•	•						
MZC320				•	•				
MZC530						•	•		
MZC830								•	•
RDA000V		•	•						
RDA100V				•	•				
RDA200V						•	•		
RDA300V								•	•
RPA000V	(6)	•	•						
RPA100V	(6)			•	•				
RPA200V	(6)					•	•		
RPA300V	(6)							•	•
RDAC000V		•	•						
RDAC100V				•	•				
RDAC200V						•	•		
RDAC300V								•	•
PA000V	(6)	•	•						
PA100V	(6)			•	•				
PA200V	(6)					•	•		
PA300V	(6)							•	•
PM000V	(6)	•	•						
PM100V	(6)			•	•				
PM200V	(6)					•	•		
PM300V	(6)							•	•
RPM000V	(6)	•	•						
RPM100V	(6)			•	•				
RPM200V	(6)					•	•		
RPM300V	(6)							•	•
RDMC000V		•	•						
RDMC100V				•	•				
RDMC200V						•	•		
RDMC300V								•	•
KFV10		•	•	•	•	•	•	•	•

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

(2) VCF4324-VCFD324-VCF4524-VCZD424-VJP060M-VJP090M are 24V

(3) DSC4 It's not available with AMP - BC -VMF system

(4) BC4 is not available with valve VCZ-VCZD / VCF-VCFD

(5) The accessory SE require pairing with ZX

(6) All the Plenums (RPA_V; PA_V; RPM_V; PM_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

VED	30			40			130			140			230			240			330			340				
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Heating Performance																										
2 pipe configuration																										
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)	l/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	7	3	12	10	4	26	22	13	18	16	9	37	30	27	32	26	18	16	13	9	32	28	22
Heating capacity (45°C)	(2)	kW	1,83	1,68	0,91	1,95	1,78	1,18	3,13	2,90	2,19	3,27	3,03	2,25	3,56	3,23	2,66	3,93	3,55	2,89	5,23	4,65	3,89	5,45	4,98	4,14
Water flow rate	(2)	l/h	318	291	157	338	308	204	543	504	380	568	526	390	618	561	462	683	616	501	907	807	674	945	865	718
Pressure drops	(2)	kPa	9	7	3	12	10	4	25	21	13	17	16	9	36	29	26	31	25	17	16	13	9	31	27	21
Cooling Performance																										
Total cooling capacity	(3)	kW	1,62	1,45	0,99	1,90	1,72	1,12	3,00	2,79	2,08	3,29	3,05	2,27	3,42	3,13	2,59	4,02	3,63	2,90	5,00	4,42	3,68	5,36	4,79	3,98
Sensible cooling capacity	(3)	kW	1,24	1,12	0,75	1,35	1,23	0,81	2,09	1,94	1,44	2,37	2,19	1,61	2,70	2,44	2,00	3,02	2,72	2,20	3,74	3,34	2,80	3,99	3,57	2,95
Water flow rate	(3)	l/h	279	250	170	327	296	193	515	480	358	566	525	390	588	538	445	691	624	499	860	760	633	922	824	685
Pressure drops	(3)	kPa	9	7	3	14	12	5	31	27	15	23	20	11	44	36	25	37	31	16	18	14	10	26	21	16
Water content		l	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Fans																										
Fan - 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 (inlet+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		58	38	23	56	38	23	75	52	34	75	52	34	92	74	49	92	64	43	104	74	59	103	81	58
Max. input current	A		0,37			0,37			0,41			0,41			0,58			0,58			0,66			0,66		
Electrical wiring			V6	V4	V1	V6	V4	V1	V6	V4	V1	V6	V4	V1	V6	V3	V1	V6	V3	V1	V7	V3	V1	V7	V3	V1
Power supply			230V~50Hz																							

VED	from VED030 to VED240						from VED330 to VED340						
Speed - fan motor connected	V6	V5	V4	V3	V2	V1	V7	V6	V5	V4	V3	V2	V1
	L1	L2	L3	L4	L5	L6	L1	L2	L3	L4	L5	L6	L7

Note: The speed of associates may differ from the standard factory configuration.
for more information refer to the program selection and the technical documentation available on the website www.aermec.com

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) 45°C/40°C (EUROVENT)

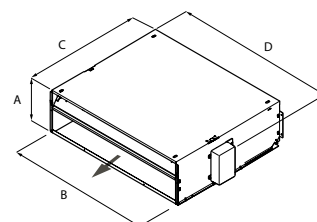
(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(4) Room air 20°C b.s.; Water (in/out) 65°C/55°C (EUROVENT)

(5) Sound power level on the basis of measurements made in compliance with Eurovent 8/2

Dimensions (mm)

VED		030	040	130	140	230	240	330	340
A	mm	217	217	217	217	217	217	217	217
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	584	584	584	584	584	584	584	584
D	mm	576	576	807	807	1027	1027	1148	1148
Net weight	Kg	22	24	25	33	33	34	35	34



Cod.: SVED0UY.06 / 1709

All specifications are subject to change without prior notice.
Although every effort has been made to ensure accuracy, Aermec does not assume responsibility or liability for eventual errors or omissions.

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com