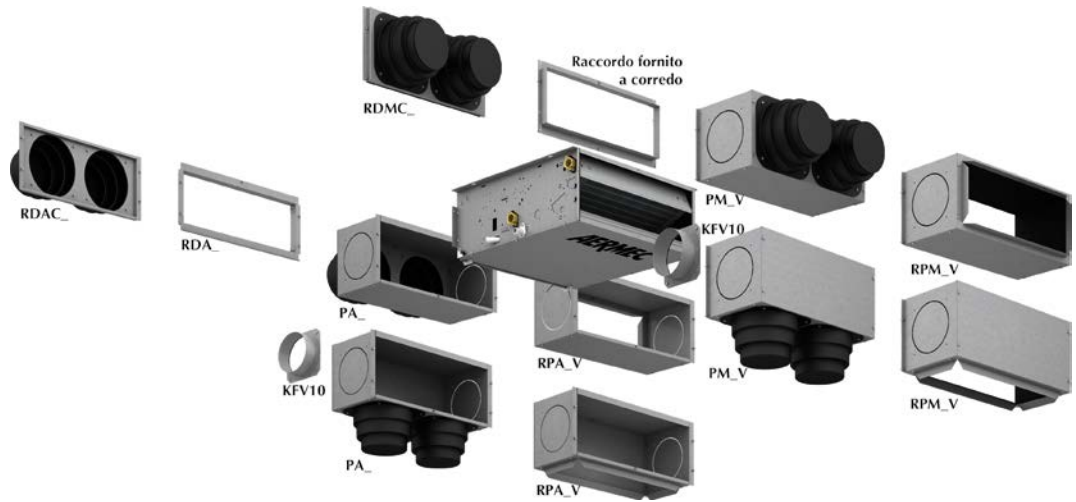




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**Variable MultiFlow**  
VMF



- **HORIZONTAL OR VERTICAL INSTALLATION**
- **VERSIONS FOR 2/4 PIPE SYSTEMS**
- **1 ROW HEATING ONLY COIL (ACCESSORY BV)**
- **LARGE RANGE OF AVAILABLE STATIC PRESSURE**
- **CENTRIFUGAL FANS INVERTER**
- **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	7
Code	Size	Main Coil	Main coil only hot	Inverter motor

#### Example:

1 2 3	4	5	6	7
VED	0	3	0	1

### Characteristics

- Ducted air conditioning terminal unit
- Internal installation
- 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
- Centrifugal fans with motor inverter
- 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
- 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 accessories for control panels

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

### VMF system

- **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-E18:** 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 actu-

tors, insulating shells for the valves and associated hydraulic piping. The VCF1X4L valve kit allows left side connection.

- **VCF4\_C: Kit made up from motorised 3-way valves** with isolating shell, fittings and isolated copper pipes. For main coils. 230V~50Hz power supply
- **VCF4\_H: Kit made up from motorised 3-way valves,** fittings and isolated copper pipes. For heating only coils. 230V~50 Hz power supply
- **VCF25C: Kit made up from motorised 2-way valves,** with fittings and isolated copper pipes. For main coils. 230V~50 Hz power supply
- **VCF25H: Kit made up from motorised 2-way valves,** with fittings and copper pipes. For heating only coils. 230V~50 Hz 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:

- **MZC:** Plenum with motor-driven dampers
- **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_I	030	040	130	140	230	240	330	340
<b>Probes and accessories for control panels</b>								
WMT21	•	•	•	•	•	•	•	•
SWAI	In combination with WMT21							
<b>VMF System</b>								
VMF-E18	•	•	•	•	•	•	•	•
VMF-E4	•	•	•	•	•	•	•	•
VMF-E5	•	•	•	•	•	•	•	•
VMF-SW	•	•	•	•	•	•	•	•
VMF-SW1	•	•	•	•	•	•	•	•
<b>Additional coil (heating only)</b>								
BV030	•							
BV130			•					
BV230					•			
BV162							•	
<b>Water valves</b>								
<b>Valve Kit for 4 pipe systems with Main coil</b>								
VCF3X4L-R	•	•	•	•	•	•	•	•
<b>3 way valve kit</b>								
VCF43/4324 (1)	•	•	•	•	•	•	•	•
<b>2 way valve kit</b>								
VCFD3/324 (1)	•	•	•	•	•	•	•	•
<b>3 way valve kit for heating coil only</b>								
VCF45/4524	•		•		•		•	
<b>2 way valve kit for heating coil only</b>								
VCFD4/424	•		•		•		•	
<b>Combined adjustment and balancing valve independent of pressure</b>								
VJP060/060M (1)	•	•	•	•				
VJP090/090M (1)					•	•		
VJP150/150M (1)							•	•
<b>Accessories for installation</b>								
AMP	•	•	•	•	•	•	•	•
DSC4 (2)	•	•	•	•	•	•	•	•
ZX7	•	•	•	•	•	•		
ZX8							•	•
<b>Auxiliary condensate drip tray</b>								
BC4 (3)	•	•	•	•	•	•	•	•
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.

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

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

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

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

## Technical data

VED_I		030	040	130	140	230	240	330	340
<b>Grille</b>									
GA22		•	•						
GA32				•	•				
GA42						•	•		
GA62								•	•
GAF22		•	•						
GAF32				•	•				
GAF42						•	•		
GAF62								•	•
GM22		•	•						
GM32				•	•				
GM42						•	•		
GM62								•	•
SE20X	(4)	•	•						
SE30X	(4)			•	•				
SE40X	(4)					•	•		
SE80X	(4)							•	•
<b>Plenum for duct installation</b>									
MZC220		•	•						
MZC320				•	•				
MZC530						•	•		
MZC830								•	•
RDA000V		•	•						
RDA100V				•	•				
RDA200V						•	•		
RDA300V								•	•
RPA000V	(5)	•	•						
RPA100V	(5)			•	•				
RPA200V	(5)					•	•		
RPA300V	(5)							•	•
RDAC000V		•	•						
RDAC100V				•	•				
RDAC200V						•	•		
RDAC300V								•	•
PA000V	(5)	•	•						
PA100V	(5)			•	•				
PA200V	(5)					•	•		
PA300V	(5)							•	•
PM000V	(5)	•	•						
PM100V	(5)			•	•				
PM200V	(5)					•	•		
PM300V	(5)							•	•
RPM000V	(5)	•	•						
RPM100V	(5)			•	•				
RPM200V	(5)					•	•		
RPM300V	(5)							•	•
RDMC000V		•	•						
RDMC100V				•	•				
RDMC200V						•	•		
RDMC300V								•	•
KFV10		•	•	•	•	•	•	•	•

(4) The accessory SE require pairing with ZX

(5) All the Plenums ( RPA\_V; PA\_V; RPM\_V; PM\_V ) have a circular push-outs ( $\varnothing=150\text{mm}$  ) 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_I		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
<b>Heating Performance</b>																									
<b>2 pipe configuration</b>																									
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
<b>Cooling Performance</b>																									
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
<b>Fans</b>																									
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
<b>Sound data</b>																									
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
<b>Diameter connections</b>																									
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Additional coil	Ø	/			/			/			/			/			/			/			/		
<b>Electrical Features</b>																									
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
Max. input current	A	0,33			0,33			0,41			0,41			0,58			0,58			0,66			0,66		
Signal 0-10V	%	54	80	90	54	80	90	58	82	90	58	82	90	66	80	90	66	80	90	62	78	90	62	78	90
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) 45°C/40°C (EUROVENT)

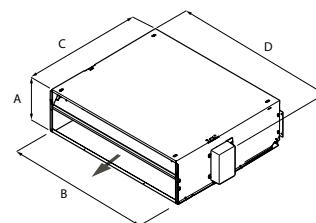
(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(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

## Dimensional data (mm)

VED_I		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	20	21	23	24	29,5	32	32,5	34



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.

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