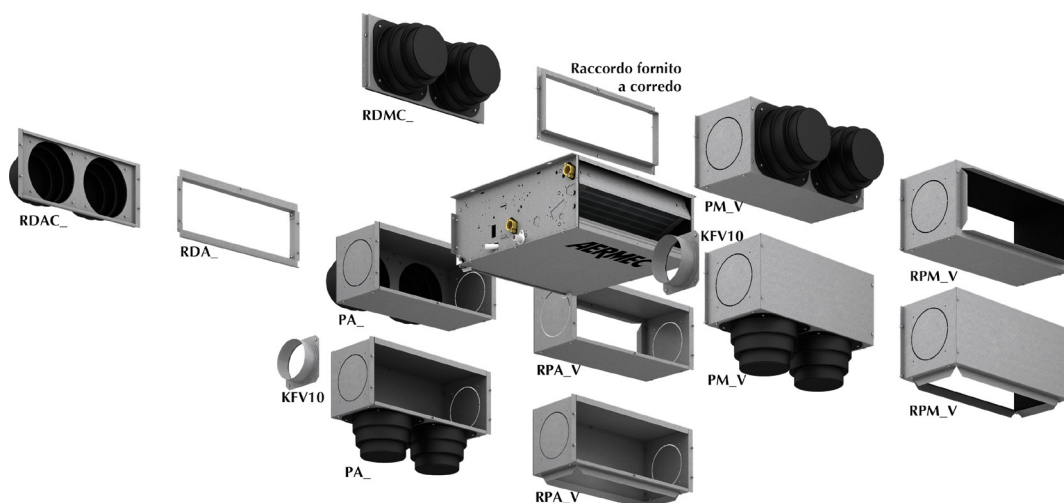




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Variable Multi Flow
VMF



- **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

DUCTING ACCESSORIES

Plenum in galvanised sheet steel and connections:

- **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.
- **PMZ**: Plenum with motorized dampers (for more details refer to the dedicated card).
- **KFV10**: Circular flanges kit for intake/discharge plenum.

Discharge and intake grilles:

- **GA**: Intake grille with fixed louvres.
- **GAF**: Intake grille with fixed louvres with filter.
- **GM**: Discharge grille with adjustable louvres.
- **SE**: External air damper with manual control.

INSTALLATION ACCESSORIES

- **AMP**: Hanging kit.
- **BC**: auxiliary condensate drain tray.
- **DSC4**: Condensate pump to overcome lifts.
- **ZX**: Feet for recessed installation.

HEATING ONLY COIL

- **BV**: 1 row heating only coil.

WATER VALVES

For main coil, 230V~50 Hz / 24V~50 Hz

- **VCF43 / 4324**: Kit composed of 3-way motorised valve with insulating casing, connections and insulated copper tubes.
- **VCFD3 / 324**: Kit composed of 2-way motorised valve with insulating casing, connections and insulated copper tubes.

For heating only coil, 230V~50 Hz / 24V~50 Hz

- **VCF45 / 4543**: Kit composed of 3-way motorised valve, with connections and insulated copper tubes.
- **VCFD4 / 424**: Kit composed of 2-way motorised valve, with connections and insulated copper tubes.
- **VCF3X4**: Valve kit for 4 pipe systems and fan coil units with single coil and 2 connections. Kit composed of special 3 way motorised valve

with insulating casing, connections and insulated copper tubes.

Version VCF3X4L for left hand connection fan coils.

Version VCF3X4R for right hand connection fan coils. Power supply 230V ~ 50Hz.

CONTROL PANELS

The complete characteristics of the control panels are described in the dedicated files.

Some control panels require combination with other accessories; consult the relevant documentation.

- **WMT21**: Electronic thermostat wall-mount installation
- **SWAI**: Air and water temperature sensor for WMT21.

Variable Multi Flow System (VMF)

The complete characteristics of the VMF system are described in the dedicated files.

Some VMF components require combination with other accessories; consult the relevant documentation.

Mod.VED		030I	040I	130I	140I	230I	240I	330I	340I
RDA000V		.	.						
RDA100V				.	.				
RDA200V						.	.		
RDA300V								.	.
RPA000V	(1)	.	.						
RPA100V	(1)			.	.				
RPA200V	(1)					.	.		
RPA300V	(1)							.	.
RDAC000V		.	.						
RDAC100V				.	.				
RDAC200V						.	.		
RDAC300V								.	.
PA000V	(1)	.	.						
PA100V	(1)			.	.				
PA200V	(1)					.	.		
PA300V	(1)							.	.
PM000V	(1)	.	.						
PM100V	(1)			.	.				
PM200V	(1)					.	.		
PM300V	(1)							.	.
PMZ				.	.	.	.	.	.
RPM000V	(1)	.	.						
RPM100V	(1)			.	.				
RPM200V	(1)					.	.		
RPM300V	(1)							.	.
RDMC000V		.	.						
RDMC100V				.	.				
RDMC200V						.	.		
RDMC300V								.	.
BV030		.							
BV130				.					
BV230						.			
BV162								.	
KFV10		.	.	.	.	.	.	.	.
WMT21		.	.	.	.	.	.	.	.
SWAI		.	.	.	.	.	.	.	.
VMF-E18		.	.	.	.	.	.	.	.
VMF-SW		.	.	.	.	.	.	.	.
VMF-SW1		.	.	.	.	.	.	.	.
VMF-E4		.	.	.	.	.	.	.	.
VMF-E4D		.	.	.	.	.	.	.	.
VMF-E5N		.	.	.	.	.	.	.	.
VMF-E5B		.	.	.	.	.	.	.	.

Mod.VED		030I	040I	130I	140I	230I	240I	330I	340I
VCF43-4324	(2)	.	.	.	.	.	.	.	.
VCF45-4524	(2)	.		.		.		.
VCFD3-324	(2)	.	.	.	.	.	.	.	.
VCFD4-424	(2)	.		.		.		.
VCF3X4R		.	.	.	.	.	.	.	.
VCF3X4L		.	.	.	.	.	.	.	.
AMP		.	.	.	.	.	.	.	.
BC4	(2)(3)	.	.	.	.	.	.	.	.
BC6	(3)	.	.	.	.	.	.	.	.
BC9	(3)	.	.	.	.	.	.	.	.
DSC4	(3)	.	.	.	.	.	.	.	.
GA22		.	.						
GA32				.	.				
GA42						.	.		
GA62								.	.
GAF22		.	.						
GAF32				.	.				
GAF42						.	.		
GAF62								.	.
GM22		.	.						
GM32				.	.				
GM42						.	.		
GM62								.	.
SE20X	(4)	.	.						
SE30X	(4)			.	.				
SE40X	(4)					.	.		
SE80X	(4)							.	.
ZX7		.	.	.	.	.	.
ZX8								.	.

(1) 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 Plenums can have intake/discharge either straight or downwards (straight or downwards with reference to horizontal installation).

(2) The valve kits VCF and the drain pan BC4 cannot be installed together on the same fan coil unit.

(3) The accessory DSC4 is not compatible with AMP and BC4 - BC6 - BC9.

(4) Accessories SE must be combined with the feet ZX

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	
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 (50°C)		(2)	kW	2,18	1,99	1,10	2,34	2,13	1,41	3,75	3,48	2,62	3,94	3,65	2,71	4,32	3,92	3,23	4,75	4,29	3,45	6,27	5,58	4,67	6,55	5,98	4,97
Water flow rate		(2)	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		(2)	kPa	8	7	3	12	10	5	27	23	13	19	16	9	35	29	20	31	26	13	16	13	9	21	17	13
Heating capacity (45°C)		(3)	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		(3)	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		(3)	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		(4)	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		(4)	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		(4)	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		(4)	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		type/n°	centrifugal/1			centrifugal/1			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/3			centrifugal/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	38	58	55	38
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	34	54	51	34
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	
Max. input current		A	0,33			0,33			0,41			0,41			0,58			0,58			0,66			0,66			
Signal 0-10V			9V	8,2V	5,4V	9V	8,2V	5,4V	9V	8,2V	5,8V	9V	8,2V	5,8V	9V	8,2V	6,6V	9V	7,8V	6,2V	9V	7,8V	6,2V	9V	7,8V	6,6V	
Power supply		V/ph/Hz	230V~50Hz																								
Energy Efficiency classification (EUROVENT)																											
FCEER			D			C			A			B			C			B			C			B			
FCCOP		(6)	C			C			A			B			B			B			B			B			

VED I		30+BV030			130+BV130			230+BV230			330+BV162				
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L		
Heating Performance															
4 pipe configuration															
Heating capacity (70°C)		(1)	kW	2,22	2,08	1,59	3,78	3,60	2,95	4,49	4,17	3,68	5,89	5,50	4,90
Water flow rate		(1)	l/h	195	183	139	332	315	258	394	366	322	516	482	429
Pressure drops		(1)	kPa	8	7,4	3	28	25	17	16	12	8	26	23	19
Cooling Performance															
Total cooling capacity		(4)	kW	1,59	1,42	0,98	2,93	2,73	2,03	3,38	3,08	2,50	4,95	4,38	3,60
Sensible cooling capacity		(4)	kW	1,22	1,09	0,75	2,17	1,90	1,40	2,60	2,35	1,90	3,67	3,28	2,72
Water flow rate		(4)	l/h	274	244	170	504	469	349	581	530	430	851	753	619
Pressure drops		(4)	kPa	8,2	6,6	4	31	27	15	42	35	23	18	14	9
Water content std. coil		I	/			/			/			/			
Water content additional coil		I	/			/			/			/			
Fan															
Fan		type/n°	centrifugal/1			centrifugal/2			centrifugal/2			centrifugal/3			
Air flow rate		m³/h	280	250	160	423	388	280	582	513	412	790	695	568	
High static pressure		Pa	61	50	21	60	50	26	64	50	32	66	50	33	
Sound data															
Sound power level (inle+radiator)		(5) dB(A)	54	52	44	55	53	47	57	54	49	58	55	38	
Sound power level (outlet)		dB(A)	50	48	40	50	48	42	52	49	44	54	51	34	
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	58	38	23	75	52	34	92	74	49	104	74	59	
Max. input current		A	0,37			0,41			0,58			0,66			
Signal 0-10V			9V	8,2V	5,4V	9V	8,2V	5,8V	9V	8,2V	6,6V	9V	7,8V	6,2V	
Power supply		V/ph/Hz	230V~50Hz												

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

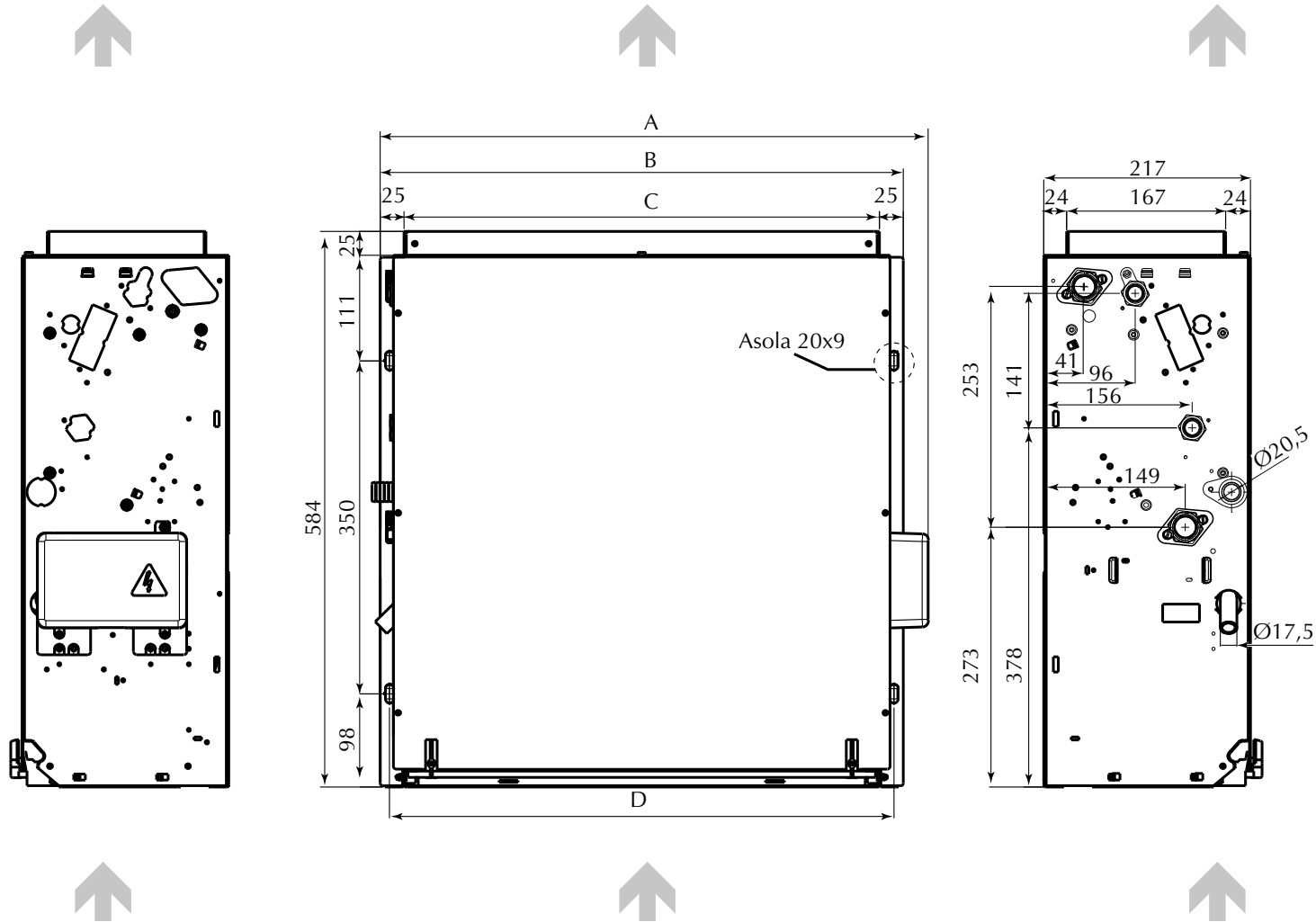
(1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;

(2) Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode (EUROVENT)

(3) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)

Dimensional data (mm)

VED: 030I - 040I - 130I - 140I - 230I - 240I - 330I - 340I



VED		030I	040I	130I	140I	230I	240I	330I	340I
A	mm	576	576	807	807	1027	1027	1148	1148
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	500	500	731	731	951	951	1072	1072
D	mm	530	530	761	761	981	981	1102	1102
Net weight	Kg	20	21	23	24	29,5	32	32,5	34

The technical data in this document is not binding. Aermec S.p.A. reserves the right to make any changes at any time deemed necessary for product improvement.

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