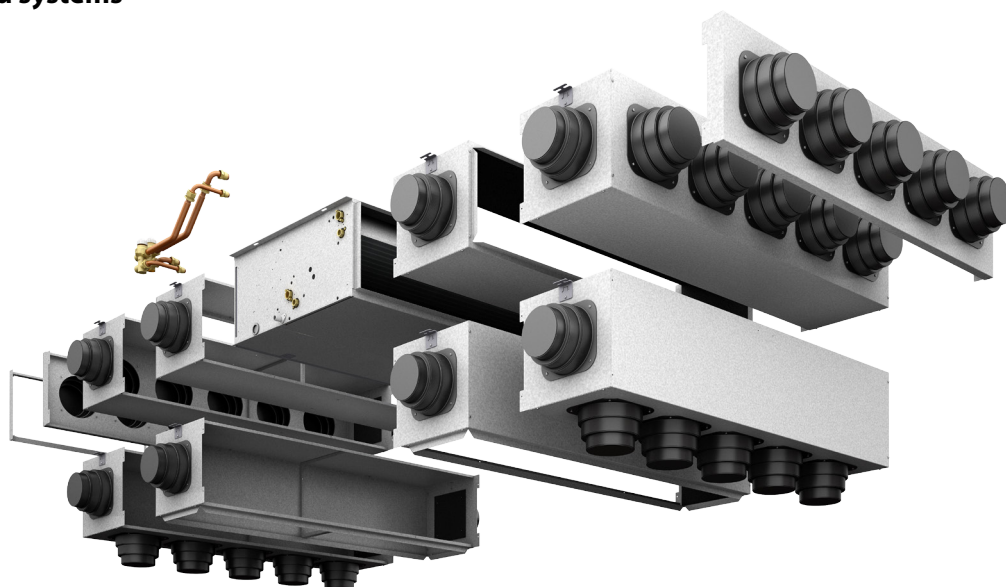


VED Air handling terminal with cooling capacities from 8 to 18 kW For ducted systems



AERMEC participates in the EUROVENT programme for: FCP
Check ongoing validity of certificate online: www.eurovent-certification.com

Variable Multi Flow
VMF



- **HORIZONTAL AND VERTICAL INSTALLATION**
- **VERSIONS FOR 2/4 PIPE SYSTEMS**
- **HEAT EXCHANGER ONLY WITH 1 OR 2 ROWS**
- **WIDE RANGE OF USEFUL STATIC PRESSURE**
- **5 SPEED VENTILATION UNIT**
- **INSPECTIONABLE FAN UNIT**
- **CLASS G3 AIR FILTER**
- **COIL REVERSIBILITY**

Choosing the unit

By appropriately combining the options available, it is possible to select the model that satisfies the specific system requirements.

Fields configurator:

1 2 3 Code	4 Size	5 Main coil n°. rows	6 Heating only coil n°. rows
1 2 3 VED	4 5	5 3	6 2

(VED532 = unit size 5, with Main Coil 3 Rows and Heating Coil 2 Rows)

Features

- Air handling terminal for ducted systems
- EUROVENT FCP Certification Program
- Horizontal and vertical installation
- Indoor installation
- Available in 4 sizes and 4 configurations
- Versions for 2 pipe systems with 3 or 4 row coil
- Versions for systems with 4 pipes with main coil with 3 or 4 rows and heating only coil with 1 or 2 rows
- Reversibility of the hydraulic connection in the installation phase
- Low pressure drop in the heat exchange coils
- 3-way valves accessories
- 2-way valves accessories for systems with variable water flow rate
- 5 speed fan unit (3 selectable)
- Wide range of useful static pressure
- Centrifugal fans in antistatic plastic. Due to their features, they allow to reduce the energy consumption with respect to normal fans
- Fans with wing-shaped profile studied to obtain high flow rate and static pressure performance and low noise emission at the same time
- Compatible with the VMF system
- Wide range of controls
- Wide range of accessories to satisfy all system requirements
- Rectangular flow flange already integrated into the framework
- Class G3 air filter with easy extraction and cleaning
- Internal insulation in Class 1 fire resistance
- IP20 protection rating
- Plastic augers, extractable for easy and efficient cleaning
- Easy installation and maintenance
- Full respect of the accident-prevention standards

Accessories

- **RDA_V**: Straight fitting with rectangular flange for ducting.
In galvanised sheet steel
- **RPA_V**: Intake plenum with rectangular flange for ducting.
In galvanised sheet steel
- **PA_V**: Intake plenum with circular flanges for ducting.
In galvanised sheet steel, the flanges are in plastic
- **RPM_V**: Flow plenum with rectangular flange for ducting.
In galvanised sheet steel, internally isolated.
- **PM_V**: Flow plenum with circular flanges for ducting
In galvanised sheet steel, internally isolated, the flanges are in plastic
- **KFV**: Circular flange kit for intake/flow plenum.
In plastic
- **VCF4_C**: Kit made up from motorised 3-way valves with isolating shell, fittings and isolated copper pipes. For main coils. 230V~50 Hz 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

- **VCF2_C**: Kit made up from motorised 2-way valves, with fittings and isolated copper pipes. For main coils. 230V~50 Hz power supply
- **VCF2_H**: Kit made up from motorised 2-way valves, with fittings and copper pipes. For heating only coils. 230V~50 Hz power supply

CONTROL PANELS

The complete features of the control panels are described in the dedicated sheet.
Some control panels require coupling with other accessories, consult the relative documentation.

ACCESSORIES TO COUPLE WITH THE CONTROL PANELS

- **SIT3**: Thermostat interface board
Mandatory accessory on the VED units coupled to thermostats different to the VMF System
- **SIT5**: Thermostat interface board.

Allows to realise a network of VED units (max 3) controlled by a centralised PXAE panel

- **SW3**: Water minimum temperature probe to use with PXAE control panel.

VARIABLE MULTI FLOW SYSTEM

VMF System: The complete fittings of the VMF System management system are described in the dedicated sheet.

Some VMF components require coupling with other accessories, consult the relative documentation.

- **VMF-SIT 3**: Thermostat Interface Board
VMF. Mandatory accessory on the VED unit supplied with VMF-E0 / E1 thermostat.

Accessories compatibility																
Mod. VED	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
RDA 450 V	*	*	*	*	*	*	*	*								
RDA 670 V									*	*	*	*	*	*	*	*
RPA 450 V	*	*	*	*	*	*	*	*								
RPA 670 V									*	*	*	*	*	*	*	*
PA 450 V	*	*	*	*	*	*	*	*								
PA 670 V									*	*	*	*	*	*	*	*
RPM 450 V	*	*	*	*	*	*	*	*								
RPM 670 V									*	*	*	*	*	*	*	*
PM 450 V	*	*	*	*	*	*	*	*								
PM 670 V									*	*	*	*	*	*	*	*
KFV	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT 3*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT 5**	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PXAE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VCF45C	*	*	*	*	*	*	*	*								
VCF45H		*		*		*		*								
VCF47C									*	*	*	*	*	*	*	*
VCF47H										*		*		*		*
VCF25C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VCF25H		*		*		*		*		*		*		*		*
VMF-SIT3***	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4/E4D	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E5B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E5N	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

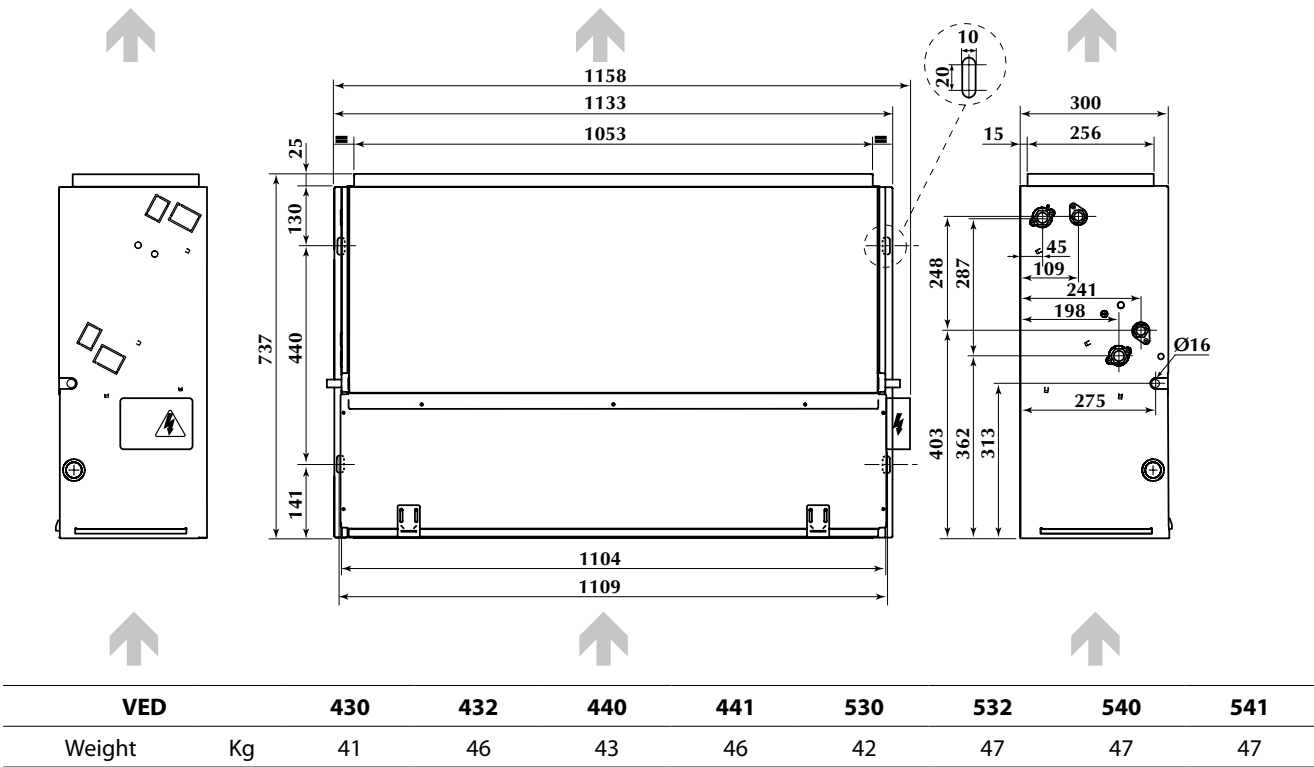
- * SIT3 =Mandatory accessory on the VED units coupled to thermostats different to the VMF System
 ** SIT5 = Allows to realise a network of VED units (max 3) controlled by a centralised PXAE panel
 *** VMF-SIT3 = Mandatory accessory for coupling with VMF-E0 or VMF-E1

Technical data

VED		430			440			530			540			630			640			730			740				
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	15,97	13,85	10,47	18,11	15,36	11,45	17,57	16,47	13,80	19,91	18,59	15,38	27,02	22,67	18,63	32,69	27,74	22,45	29,00	25,36	21,18	31,71	27,65	22,88
Water flow rate		(1)	l/h	1401	1214	918	1588	1347	1004	1541	1444	1210	1746	1630	1349	2369	1988	1634	2867	2433	1969	2543	2224	1857	2781	2425	2007
Pressure drops		(1)	kPa	19	14	9	24	18	11	21	18	13	29	25	18	58	43	30	38	29	19	67	55	38	46	36	26
Heating capacity (50°C)		(2)	kW	9,47	8,25	6,20	10,70	9,13	6,81	10,42	9,78	8,19	11,82	11,05	9,17	16,07	13,50	11,10	17,93	14,94	11,98	17,28	15,12	12,64	19,15	16,68	13,84
Water flow rate		(2)	l/h	1195	1058	805	1378	1214	918	1335	1271	1060	1543	1469	1278	2155	1840	1529	2592	2195	1794	2382	2098	1789	2766	2448	2057
Pressure drops		(2)	kPa	17	11	7	19	15	9	16	15	11	23	21	16	48	36	26	36	27	19	57	44	33	35	28	21
Heating capacity (45°C)		(3)	kW	7,95	6,89	5,21	9,01	7,64	5,69	8,74	8,19	6,87	9,90	9,25	7,65	13,44	11,28	9,27	16,26	13,80	11,17	14,43	12,62	10,54	15,77	13,76	11,38
Water flow rate		(3)	l/h	1379	1195	904	1563	1326	988	1517	1421	1191	1719	1604	1327	2332	1957	1608	2822	2395	1938	2503	2190	1828	2737	2387	1975
Pressure drops		(3)	kPa	18	14	9	23	17	11	20	17	13	28	24	17	56	42	29	37	28	18	65	53	37	45	35	25
Cooling Performance																											
Total cooling capacity		(4)	kW	6,95	6,15	4,68	8,01	7,06	5,34	7,76	7,39	6,16	8,97	8,54	7,43	12,53	10,70	8,89	15,07	12,76	10,43	13,85	12,20	10,40	16,08	14,23	11,96
Sensible cooling capacity		(4)	kW	5,36	4,71	3,54	5,73	5,04	3,78	6,02	5,71	4,72	6,45	6,13	5,04	10,30	8,75	7,22	10,58	8,91	7,24	11,44	9,99	8,48	11,32	9,97	8,34
Water flow rate		(4)	l/h	1195	1058	805	1378	1214	918	1335	1271	1060	1543	1469	1278	2155	1840	1529	2592	2195	1794	2382	2098	1789	2766	2448	2057
Pressure drops		(4)	kPa	17	13	8	22	17	10	21	19	12	28	25	19	48	36	26	41	30	21	58	46	35	45	37	27
Water content			l	2,82			3,76			2,82			3,76			4,38			5,84			4,38			5,84		
Fans																											
Fan		type/n°	centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/3			centrifugal/3			centrifugal/3			centrifugal/3			
Air flow rate		m³/h	1350	1130	790	1340	1100	780	1520	1400	1120	1500	1380	1100	2210	1800	1380	2180	1770	1370	2410	2040	1640	2350	2000	1600	
High static pressure		Pa	72	50	24	70	50	24	58	50	32	56	50	32	75	50	30	75	50	30	69	50	32	69	50	32	
Sound data																											
Sound power level (inle+radiator)		(5)	dB(A)	61	57	51	61	57	51	62	59	53	62	59	53	68	64	59	68	64	62	68	66	62	68	66	62
Sound power level (outlet)			dB(A)	57	53	47	57	53	47	58	55	49	58	55	49	64	60	55	64	60	57	64	62	58	64	62	58
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	228	175	137	222	178	135	270	232	175	267	230	172	339	268	224	340	260	220	371	285	234	371	285	234	
Max. input current		A	1,4			1,4			1,4			1,4			2,1			2,1			2,1			2,1			
Electrical wiring			V5	V3	V1	V5	V3	V1	V5	V3	V2	V5	V4	V2	V5	V3	V1	V5	V3	V1	V5	V3	V1	V5	V3	V1	
Power supply		V/ph/Hz	230V~50Hz																								
Energy Efficiency classification (EUROVENT)																											
FCEER			D			D			D			C			D			C			C			C			
FCCOP		(6)	C			C			C			C			C			C			C			C			

VED		432			441			532			541			632			641			732			741			
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																										
4 pipe configuration																										
Heating capacity (70°C)	(1)	kW	12,09	10,73	8,28	8,16	7,48	6,19	13,54	12,85	10,72	8,85	8,52	7,48	20,51	17,73	14,67	13,75	12,37	10,77	22,17	19,73	16,73	14,50	13,30	11,83
Water flow rate	(1)	l/h	1060	941	726	716	656	543	1187	1127	940	776	747	656	1799	1555	1286	1206	1085	945	1945	1730	1467	1272	1166	1037
Pressure drops	(1)	kPa	18	14	9	28	24	17	22	20	14	32	30	24	28	22	16	28	23	18	33	26	20	30	26	21
Cooling Performance																										
Total cooling capacity	(4)	kW	6,95	6,15	4,68	8,01	7,06	5,34	7,76	7,39	6,16	8,97	8,54	7,43	12,53	10,70	8,89	15,07	12,76	10,43	13,85	12,20	10,40	16,08	14,23	11,96
Sensible cooling capacity	(4)	kW	5,36	4,71	3,54	5,73	5,04	3,78	6,02	5,71	4,72	6,45	6,13	5,04	10,30	8,75	7,22	10,58	8,91	7,24	11,44	9,99	8,48	11,32	9,97	8,34
Water flow rate	(4)	l/h	1195	1058	805	1378	1214	918	1335	1271	1060	1543	1469	1278	2155	1840	1529	2592	2195	1794	2382	2098	1789	2766	2448	2057
Pressure drops	(4)	kPa	17	13	8	22	17	10	21	19	12	28	25	19	48	36	26	41	30	21	58	46	35	45	37	27
Water content std. coil	I		2,82			3,76			2,82			3,76			4,38			5,84			4,38			5,84		
Water content additional coil	I		1,88			0,94			1,88			0,94			2,92			1,46			2,92			1,46		
Fan																										
Fan	type/n°	centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/3			centrifugal/3			centrifugal/3			centrifugal/3			
Air flow rate	m³/h	1250	1060	750	1250	1060	750	1460	1360	1060	1460	1360	1060	2110	1730	1340	2110	1730	1340	2350	2000	1600	2350	2000	1600	
High static pressure	Pa	70	50	25	70	50	25	56	50	32	56	50	32	75	50	30	75	50	30	69	50	32	69	50	32	
Sound data																										
Sound power level (inle+radiator)	(5)	dB(A)	61	57	51	61	57	51	62	59	53	62	59	53	68	64	59	68	64	62	68	66	62	68	66	62
Sound power level (outlet)		dB(A)	57	53	47	57	53	47	58	55	49	58	55	49	64	60	55	64	60	57	64	62	58	64	62	58
Diameter connections																										
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			
Additional coil	Ø	1/2"			1/2"			1/2"			1/2"			1/2"			1/2"			1/2"			1/2"			
Electrical Features																										
Absorbed power	W	215	175	130	215	175	130	266	229	170	266	229	170	340	264	223	340	264	223	372	288	227	372	288	227	
Max. input current	A	1,4			1,4			1,4			1,4			2,1			2,1			2,1			2,1			
Electrical wiring		V5	V3	V1	V5	V3	V1	V5	V3	V2	V5	V4	V2	V5	V3	V1	V5	V3	V1	V5	V3	V1	V5	V3	V1	
Power supply	V/ph/Hz	230V~50Hz																								

VED: 430 - 432 - 440 - 441 - 530 - 532 - 540 - 541



VED: 630 - 632 - 640 - 641 - 730 - 732 - 740 - 741

