AERMEC

VED_I

Fan coil unit with Brushless Inverter motor (EC) for ducted systems Cooling capacities 8÷10kW

EUROVENT CERTIFIED PERFORMANCE
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INVERTER TECHNOLOGY

Variable Multi Flow

VMF

- **HORIZONTAL OR VERTICAL INSTALLATION**
- **VERSIONS FOR 2/4 PIPE SYSTEMS**
- **1 –2 ROW HEATING ONLY COIL**
- **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	**5**	**3**	**2**	**I**

Characteristics

- Ducted air conditioning terminal unit
- Internal installation
- 3 row main coil and heating only coil accessory for 4-pipe systems
- 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
- Centrifugal fans with motor inverter
- 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
- **PMZ:** plenum con amortiguadores motorizados (para más detalles consulte la tarjeta dedicada).
  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
- **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
- **WMT21:** Electronic thermostat wall-mount installation
- **SWAI:** Water minimum temperature probe to use with WMT21 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.

Accessoires								
Mod. VED	**530I**	**532I**	**540I**	**541I**	**730I**	**732I**	**740I**	**741I**
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					•	•	•	•
PMZ	•		•		•		•	
KFV	•	•	•	•	•	•	•	•
VCF45C	•	•	•	•				
VCF45H		•		•				
VCF47C					•	•	•	•
VCF47H						•		•
VCF25C	•	•	•	•	•	•	•	•
VCF25H		•		•		•		•
VMF-E18	•	•	•	•	•	•	•	•
VMF-SW	•	•	•	•	•	•	•	•
VMF-SW1	•	•	•	•	•	•	•	•
VMF-E4	•	•	•	•	•	•	•	•
VMF-E4D	•	•	•	•	•	•	•	•
VMF-E5B	•	•	•	•	•	•	•	•
VMF-E5N	•	•	•	•	•	•	•	•

Technical data

Mod.		VED	Vel.	530I	532I	540I	541I	730I	732I	740I	741I
HEATING PERFORMANCE (2 PIPE CONFIGURATION)											
Heating capacity (70°C)	(1)	W	H	17572	-	19908	-	28999	-	31706	-
	(1)	W	M	16467	-	18586	-	25364	-	27650	-
	(1)	W	L	13802	-	15377	-	21178	-	22883	-
Water flow rate	(1)	l/h	H	1541	-	1746	-	2544	-	2781	-
	(1)	l/h	M	1444	-	1630	-	2225	-	2425	-
	(1)	l/h	L	1211	-	1349	-	1858	-	2007	-
Pressure drop	(1)	kPa	H	21	-	29	-	67	-	46	-
	(1)	kPa	M	18	-	25	-	55	-	36	-
	(1)	kPa	L	13	-	18	-	38	-	26	-
Heating capacity (50°C)	(2)	W	H	10420	-	11820	-	17280	-	19150	-
	(2)	W	M	9780	-	11050	-	15120	-	16680	-
	(2)	W	L	8190	-	9170	-	12640	-	13840	-
Water flow rate	(2)	l/h	H	1335	-	1543	-	2382	-	2766	-
	(2)	l/h	M	1271	-	1469	-	2098	-	2448	-
	(2)	l/h	L	1060	-	1278	-	1789	-	2057	-
Pressure drop	(2)	kPa	H	16	-	23	-	57	-	35	-
	(2)	kPa	M	15	-	21	-	44	-	28	-
	(2)	kPa	L	11	-	16	-	33	-	21	-
HEATING PERFORMANCE (4 PIPE CONFIGURATION - with additional heat exchanger)											
Heating capacity (70°C)	(3)	W	H	-	13540	-	8850	-	22174	-	14500
	(3)	W	M	-	12850	-	8520	-	19726	-	13300
	(3)	W	L	-	10720	-	7475	-	16728	-	11830
Water flow rate	(3)	l/h	H	-	1188	-	776	-	1945	-	1272
	(3)	l/h	M	-	1127	-	747	-	1730	-	1167
	(3)	l/h	L	-	940	-	656	-	1467	-	1038
Pressure drop	(3)	kPa	H	-	22	-	32	-	33	-	30
	(3)	kPa	M	-	20	-	30	-	26	-	26
	(3)	kPa	L	-	14	-	24	-	20	-	21
COOLING PERFORMANCE (2 and 4 PIPE CONFIGURATIONS)											
Total cooling capacity	(4)	W	H	7760	7760	8970	8970	13850	13850	16080	16080
	(4)	W	M	7390	7390	8540	8540	12200	12200	14230	14230
	(4)	W	L	6160	6160	7430	7430	10400	10400	11960	11960
Sensible cooling capacity	(4)	W	H	6020	6020	6450	6450	11440	11440	11320	11320
	(4)	W	M	5710	5710	6130	6130	9990	9990	9970	9970
	(4)	W	L	4720	4720	5040	5040	8480	8480	8340	8340
Water flow rate	(4)	l/h	H	1335	1335	1543	1543	2382	2382	2766	2766
	(4)	l/h	M	1271	1271	1469	1469	2098	2098	2448	2448
	(4)	l/h	L	1060	1060	1278	1278	1789	1789	2057	2057
Pressure drop	(4)	kPa	H	21	21	28	28	58	58	45	45
	(4)	kPa	M	19	19	25	25	46	46	37	37
	(4)	kPa	L	12	12	19	19	35	35	27	27
Air flow rate		m^3/h	H	1520	1460	1500	1460	2410	2350	2350	2350
		m^3/h	M	1400	1360	1380	1360	2040	2000	2000	2000
		m^3/h	L	1120	1060	1100	1060	1640	1600	1600	1600
Fans		type		centrifugal							
		n°		2	2	2	2	3	3	3	3
High static pressure		Pa	H	58	56	56	56	69	69	69	69
		Pa	M	50	50	50	50	50	50	50	50
		Pa	L	32	32	32	32	32	32	32	32
Absorbed power		W	H	205	185	205	185	370	363	370	363
		W	M	170	163	170	163	245	240	245	240
		W	L	115	106	115	106	140	138	140	138
Sound power level (inlet+radiator)	(5)	dB(A)	H	62		62		64		68	
	(5)	dB(A)	M	59		59		66		66	
	(5)	dB(A)	L	53		53		62		62	
Sound power level (outlet)	(5)	dB(A)	H	58		58		64		64	
	(5)	dB(A)	M	55		55		62		62	
	(5)	dB(A)	L	49		49		58		58	
Coil connections		ø Gas (F)		3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″
Coil connections (additiona heat exchanger)		ø Gas (F)		-	1/2″	-	1/2″	-	1/2″	-	1/2″
Signal 0-10V			H	9V	9V	9V	9V	9V	9V	9V	9V
			M	8,4V	8,4V	8,4V	8,4V	7,6V	7,6V	7,6V	7,6V
			L	6,6V	6,6V	6,6V	6,6V	6,2V	6,2V	6,2V	6,2V
Power supply				230V/1/50Hz							

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

Heating mode

2 pipes system configuration

(1) Room air temperature 20°C b.s.; Inlet water temperature 70°C; ΔT water 10°C

2 pipes system configuration (EUROVENT)

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

4 pipes system configuration (with additional heat exchanger) (EUROVENT)

(3)Room air temperature 20°C b.s.; Inlet water temperature 70°C; ΔT water 10°C

Cooling mode (EUROVENT)

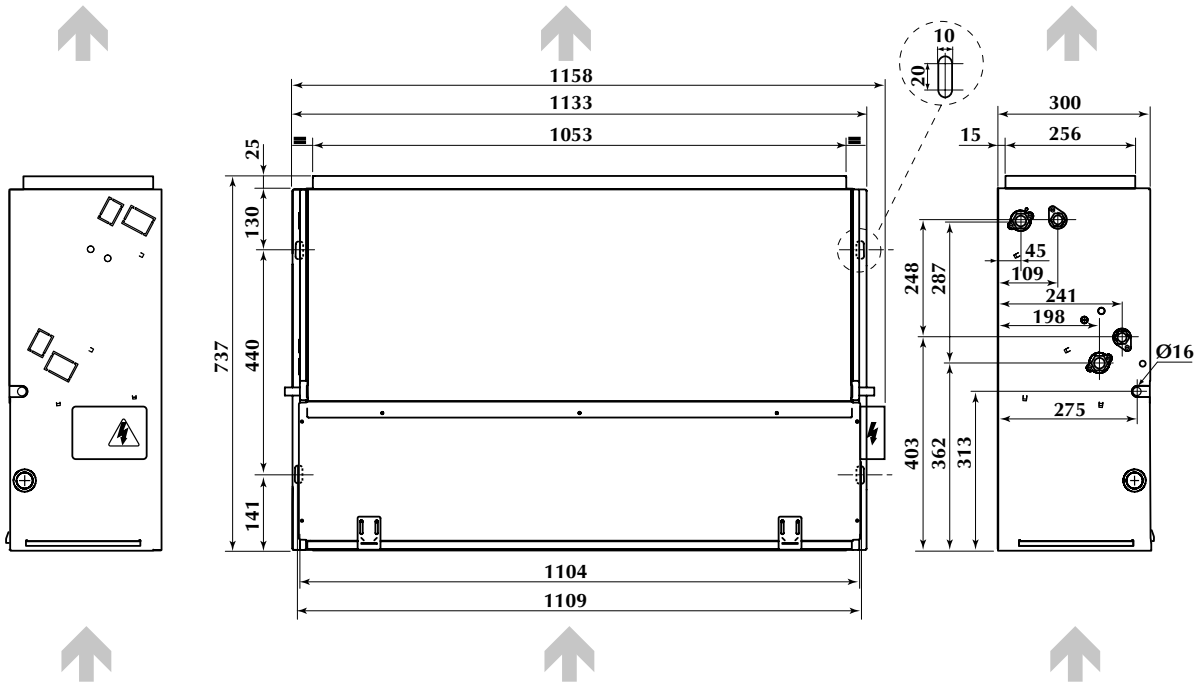
(4) Room air temperature 27°C b.s./19°C b.u.; Inlet water temperature 7°C; ΔT water 5°C

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

Note: For more information refer to the program selection and the technical documentation available on the website www.aermec.com

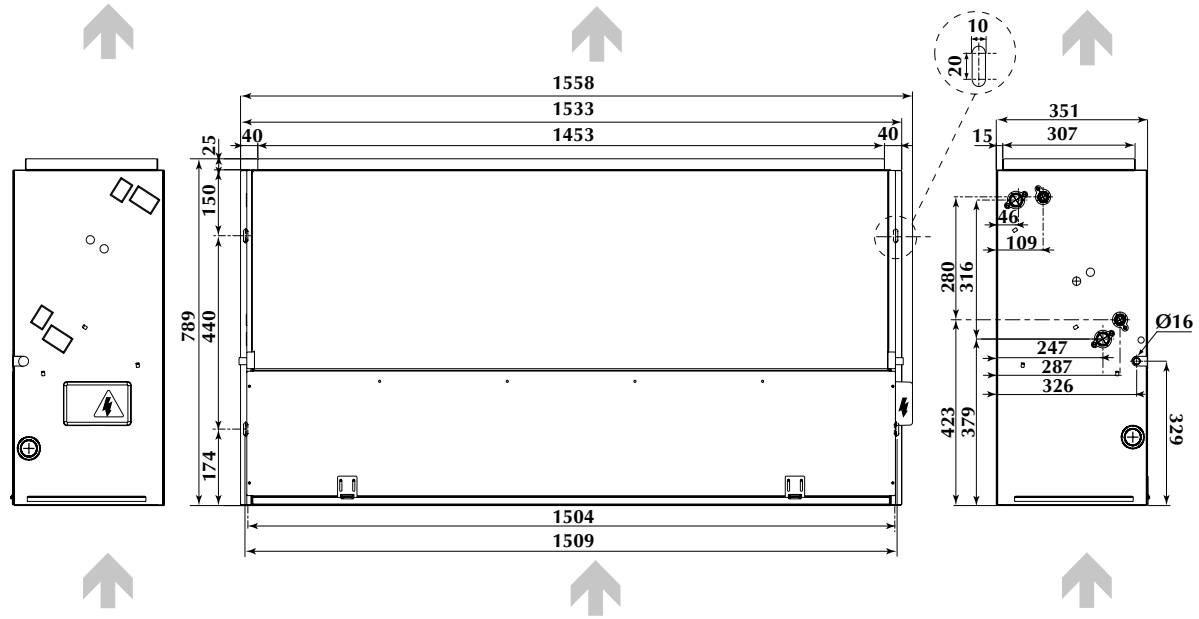
Dimensional data (mm)

VED: 530I - 532I - 540I - 541I



VED		530I	532I	540I	541I
Weight	Kg	42	47	44	47

VED: 730I - 732I - 740I - 741I



VED		730I	732I	740I	741I
Weight	Kg	58	58	61	61

Cod.: SVEDI530_741UY.03/ 1503

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