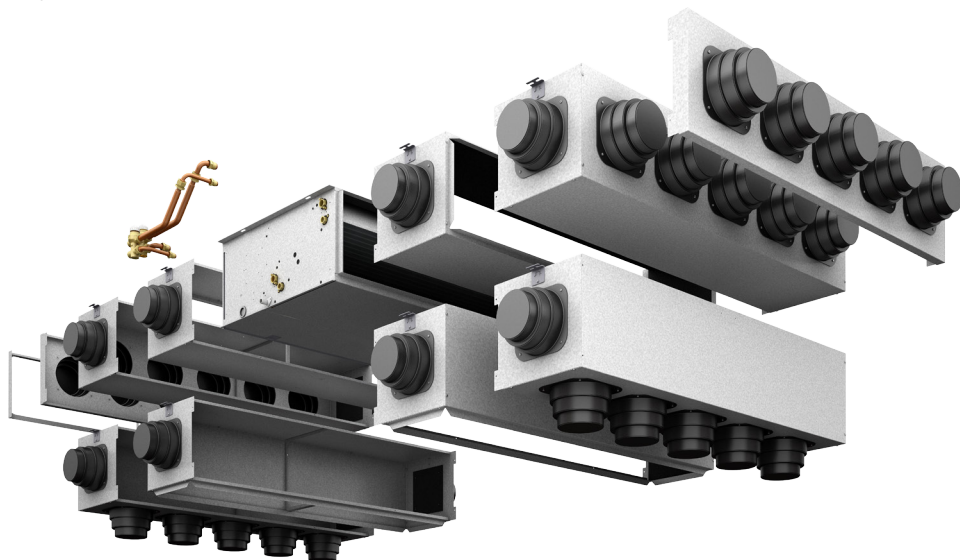




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*Variable Multi Flow*  
**VMF**



- **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   Code	4   Size	5   Main Coil	6   Main coil only hot	7   Inverter motor
<b>Example:</b>				
1 2 3   <b>VED</b>	4   <b>5</b>	5   <b>3</b>	6   <b>2</b>	7   <b>I</b>

## 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

VED I			530			540			730			740			
Fan speed			H	M	L	H	M	L	H	M	L	H	M	L	
Heating Performance															
2 pipe configuration															
Heating capacity (70°C)		(1)	kW	17,57	16,47	13,80	19,91	18,59	15,38	29,00	25,36	21,18	31,71	27,65	22,88
Water flow rate		(1)	l/h	1541	1444	1210	1746	1630	1349	2543	2224	1857	2781	2425	2007
Pressure drops		(1)	kPa	21	18	13	29	25	18	67	55	38	46	36	26
Heating capacity (50°C)		(2)	kW	10,42	9,78	8,19	11,82	11,05	9,17	17,28	15,12	12,64	19,15	16,68	13,84
Water flow rate		(2)	l/h	1335	1271	1060	1543	1469	1278	2382	2098	1789	2766	2448	2057
Pressure drops		(2)	kPa	16	15	11	23	21	16	57	44	33	35	28	21
Heating capacity (45°C)		(3)	kW	8,74	8,19	6,87	9,90	9,25	7,65	14,43	12,62	10,54	15,77	13,76	11,38
Water flow rate		(3)	l/h	1517	1421	1191	1719	1604	1327	2503	2190	1828	2737	2387	1975
Pressure drops		(3)	kPa	20	17	13	28	24	17	65	53	37	45	35	25
Cooling Performance															
Total cooling capacity		(4)	kW	7,76	7,39	6,16	8,97	8,54	7,43	13,85	12,20	10,40	16,08	14,23	11,96
Sensible cooling capacity		(4)	kW	6,02	5,71	4,72	6,45	6,13	5,04	11,44	9,99	8,48	11,32	9,97	8,34
Water flow rate		(4)	l/h	1335	1271	1060	1543	1469	1278	2382	2098	1789	2766	2448	2057
Pressure drops		(4)	kPa	21	19	12	28	25	19	58	46	35	45	37	27
Water content		I		2,82			3,76			4,38			5,84		
Fans															
Fan		type/n°	centrifugal/2			centrifugal/2			centrifugal/3			centrifugal/3			
Air flow rate		m³/h	1520	1400	1120	1500	1380	1100	2410	2040	1640	2350	2000	1600	
High static pressure		Pa	58	50	32	56	50	32	69	50	32	69	50	32	
Sound data															
Sound power level (inle+radiator)		(5)	dB(A)	62	59	53	62	59	53	68	66	62	68	66	62
Sound power level (outlet)			dB(A)	58	55	49	58	55	49	64	62	58	64	62	58
Diameter connections															
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"			
Additional coil		Ø	/			/			/			/			
Electrical Features															
Absorbed power		W	205	170	115	205	170	115	370	245	140	370	245	140	
Max. input current		A	1,4			1,4			2,1			2,1			
Signal 0-10V		%	9V	8,4V	6,6V	9V	8,4V	6,6V	9V	7,6V	6,2V	9V	7,6V	6,2V	
Power supply		V/ph/Hz	230V~50Hz												
Energy Efficiency classification (EUROVENT)															
FCEER			D			C			C			C			
FCCOP		(6)	C			C			C			C			

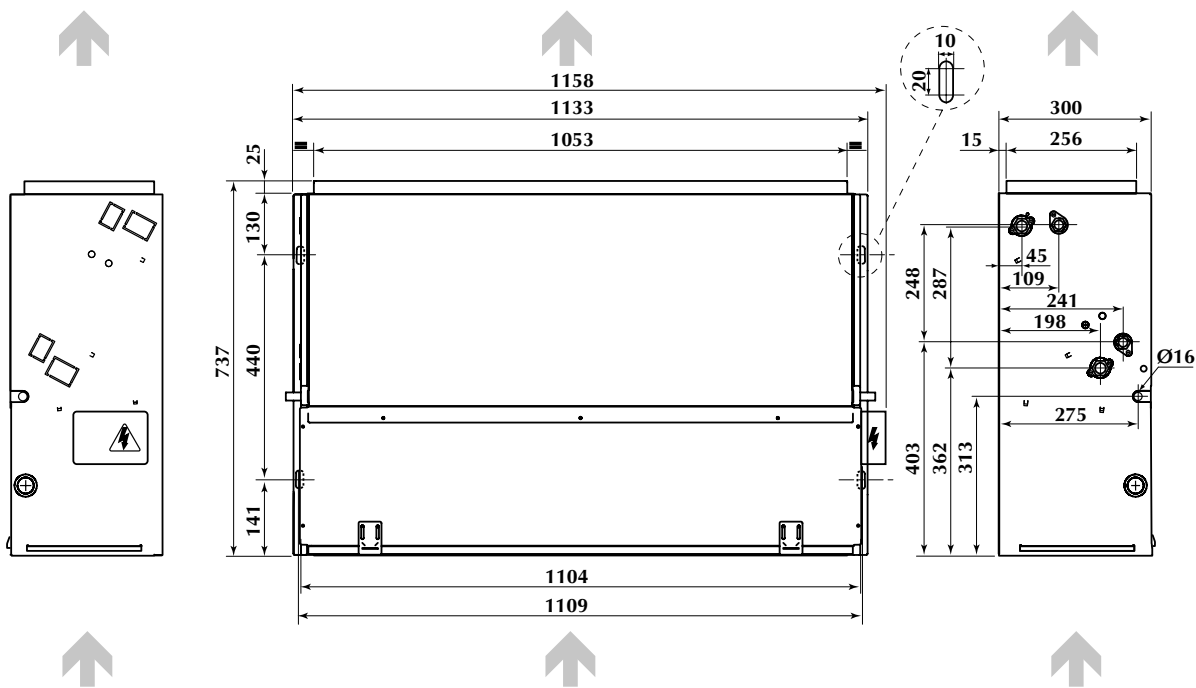
VED I			532			541			732			741			
Fan speed			H	M	L	H	M	L	H	M	L	H	M	L	
Heating Performance															
4 pipe configuration															
Heating capacity (70°C)		(1)	kW	13,54	12,85	10,72	8,85	8,52	7,48	22,17	19,73	16,73	14,50	13,30	11,83
Water flow rate		(1)	l/h	1187	1127	940	776	747	656	1945	1730	1467	1272	1166	1037
Pressure drops		(1)	kPa	22	20	14	32	30	24	33	26	20	30	26	21
Cooling Performance															
Total cooling capacity		(4)	kW	7,76	7,39	6,16	8,97	8,54	7,43	13,85	12,20	10,40	16,08	14,23	11,96
Sensible cooling capacity		(4)	kW	6,02	5,71	4,72	6,45	6,13	5,04	11,44	9,99	8,48	11,32	9,97	8,34
Water flow rate		(4)	l/h	1335	1271	1060	1543	1469	1278	2382	2098	1789	2766	2448	2057
Pressure drops		(4)	kPa	21	19	12	28	25	19	58	46	35	45	37	27
Water content std. coil			l	2,82			3,76			4,38			5,84		
Water content additional coil			l	1,88			0,94			2,92			1,46		
Fan															
Fan		type/n°	centrifugal/2				centrifugal/2			centrifugal/3			centrifugal/3		
Air flow rate		m³/h	1460	1360	1060	1460	1360	1060	2350	2000	1600	2350	2000	1600	
High static pressure		Pa	56	50	32	56	50	32	69	50	32	69	50	32	
Sound data															
Sound power level (inle+radiator)		(5)	dB(A)	62	59	53	62	59	53	68	66	62	68	66	62
Sound power level (outlet)			dB(A)	58	55	49	58	55	49	64	62	58	64	62	58
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	185	163	106	185	163	106	363	240	138	363	240	138	
Max. input current		A	1,4				1,4			2,1			2,1		
Signal 0-10V		%	9V	8,4V	6,6V	9V	8,4V	6,6V	9V	7,6V	6,2V	9V	7,6V	6,2V	
Power supply		V/ph/Hz													

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)  
(4) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)  
(5) Sound power level on the basis of measurements made in compliance with Eurovent 8/2  
(6) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode

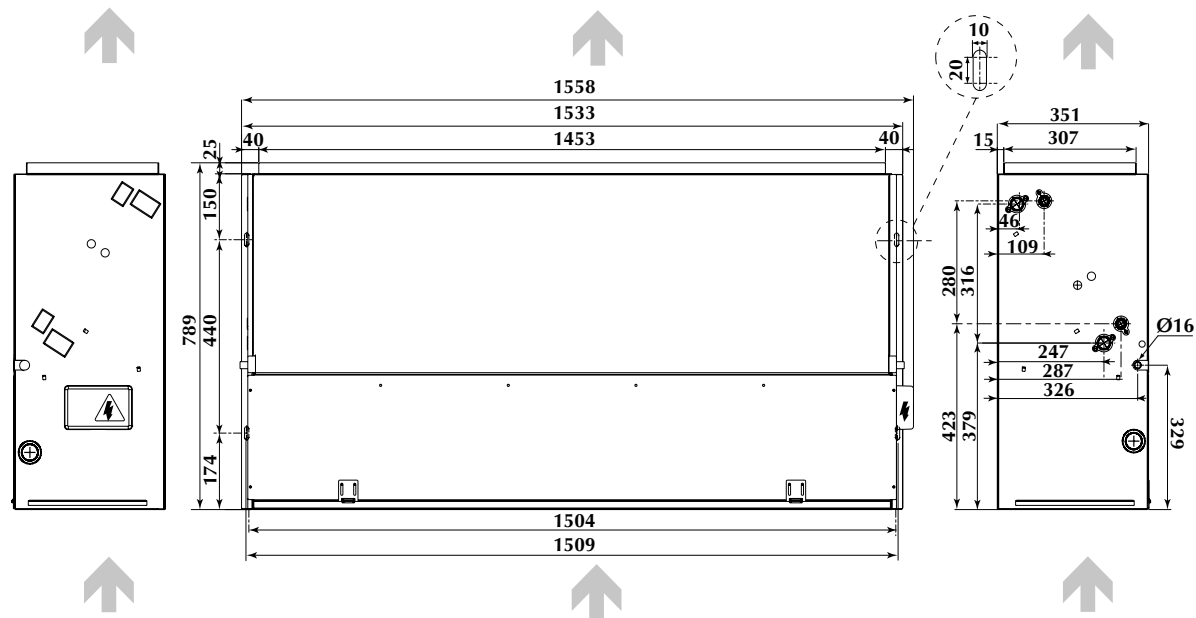
Dimensional data (mm)

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