

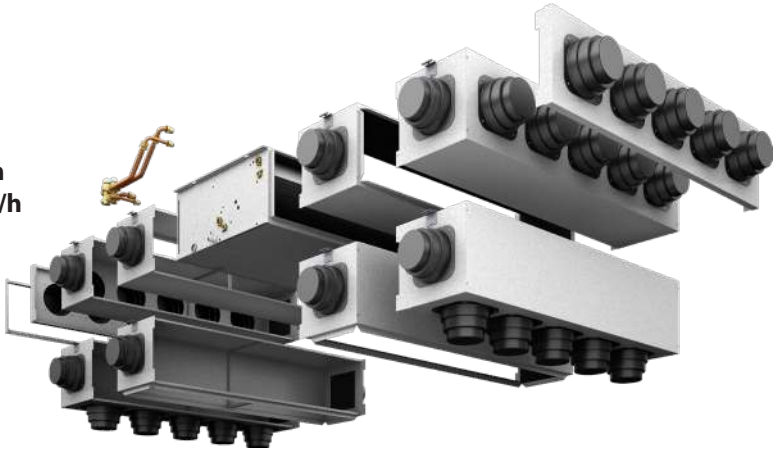
VED I

530/741

**Inverter fan coils
For ducted systems**

Cooling capacity from 20.643 to 54.867 BTU/h

Heating capacity from 23.407 to 108.199 BTU/h



- **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

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

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

VMF system

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

Hot water coil

- **BV**: Single row hot water heat exchanger.

Valve kit

- **VCF4_C: Kit made up from motorised 3-way valves** with isolating shell, fittings and isolated copper pipes. For main coils. 24V power supply.
- **VCF4_H: Kit made up from motorised 3-way valves**, fittings and isolated copper pipes. For heating only coils. 24V power supply.
- **VCF2_C: Kit made up from motorised 2-way valves**, with fittings and isolated copper pipes. For main coils. 24V power supply

- **VCF2_H: Kit made up from motorised 2-way valves**, with fittings and copper pipes. For heating only coils. 24V power supply

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	530	532	540	541	730	732	740	741
Probes and accessories for control panels								
SIT3	•	•	•	•	•	•	•	•
VMF System								
VMF-E18	•	•	•	•	•	•	•	•
Water valves								
3 way valve kit								
VCF45C								
VCF47C								contact head office
3 way valve kit for heating coil only								
VCF45H								
VCF47H								contact head office
2 way valve kit								
VCF25C								contact head office
2 way valve kit for heating coil only								
VCF25H								contact head office
Plenum for duct installation								
MZC5040	•	•	•	•				
MZC7050					•	•	•	•
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	•	•	•	•	•	•	•	•

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

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 (158°F)	(1)	BTU/h	59,951	56,198	47,088	67,936	63,432	52,479	98,952	86,532	72,269	108,199	94,346	78,070
Water flow rate	(1)	gpm	6,78	6,36	5,33	7,69	7,18	5,94	11,20	9,79	8,18	12,24	10,68	8,84
Pressure drops	(1)	psi	3,05	2,61	1,89	4,21	3,63	2,61	9,72	7,98	5,51	6,67	5,22	3,77
Heating capacity (113°F)	(2)	BTU/h	29,822	27,945	23,407	33,780	31,528	26,103	48,521	43,027	35,930	53,946	46,917	38,694
Water flow rate	(2)	gpm	6,62	6,20	5,20	7,50	7,00	5,79	10,77	9,55	7,97	11,97	10,41	8,59
Pressure drops	(2)	psi	2,97	2,68	1,96	4,28	3,63	3,05	9,50	7,47	5,44	6,60	5,15	3,70
Cooling Performance														
Total cooling capacity	(3)	BTU/h	25,216	24,738	20,643	29,686	28,662	24,943	45,996	40,809	34,974	53,605	47,736	40,297
Sensible cooling capacity	(3)	BTU/h	20,541	19,006	15,730	21,087	20,439	16,822	37,772	33,268	28,423	37,363	33,200	27,945
Cooling capacity (latent)	(3)	BTU/h	4,675	5,732	4,913	8,599	8,223	8,121	8,223	7,541	6,551	16,242	14,536	12,352
Water flow rate	(3)	gpm	5,60	5,49	4,58	6,59	6,36	5,53	10,21	9,06	7,76	11,90	10,59	8,94
Pressure drops	(3)	psi	3,05	2,76	1,74	4,06	3,63	2,76	8,41	6,67	5,08	6,53	5,37	3,92
Fans														
Fan - Centrifugal	n°		2			2			3			3		
Air flow rate	cfm		895	824	659	883	812	647	1,418	1,201	965	1,388	1,177	942
High static pressure	in wg		0,23	0,20	0,13	0,22	0,20	0,13	0,28	0,20	0,13	0,28	0,20	0,13
Sound data														
Sound power level (inle+radiator)	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		/			/			/			/		

VED I		541			741			
Fan speed		H	M	L	H	M	L	
Heating Performance								
4 pipe configuration								
Heating capacity (149°F)	(4)	BTU/h	26,956	26,001	22,861	44,221	40,536	36,066
Water flow rate	(4)	gpm	407	392	344	667	612	544
Pressure drops	(4)	psi	3,77	3,48	2,76	3,63	3,05	2,47
Cooling Performance								
Total cooling capacity	(3)	BTU/h	30,607	29,140	25,352	54,867	48,555	40,809
Sensible cooling capacity	(3)	BTU/h	22,008	20,916	17,197	38,625	34,019	28,457
Cooling capacity (latent)	(3)	BTU/h	8,599	8,223	8,155	16,242	14,536	12,352
Water flow rate	(3)	gpm	6,79	6,47	5,63	12,18	10,78	9,06
Pressure drops	(3)	psi	4,21	3,92	3,05	6,60	5,29	3,92
Fan								
Fan - Centrifugal	n°		2			3		
Air flow rate	cfm		859	800	624	1,383	1,177	942
High static pressure	in wg		0,22	0,20	0,13	0,28	0,20	0,13
Sound data								
Sound power level (inle+radiator)	dB(A)		62	59	53	68	66	62
Sound power level (outlet)	dB(A)		58	55	49	64	62	58
Diameter connections								
Standard coil	Ø		3/4"			3/4"		
Additional coil	Ø		1/2"			1/2"		

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

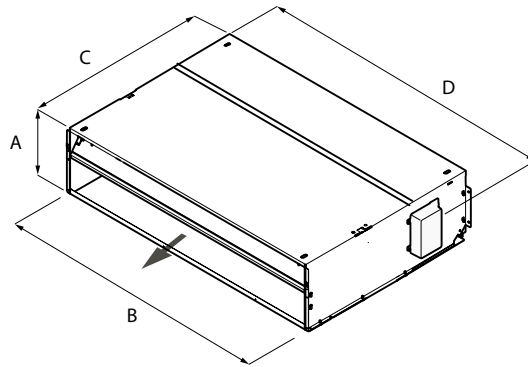
(1) Room air 68°F d.b.; Water (in/out) 158°F/140°F;

(2) Room air 68°F d.b.; Water (in/out) 113°F/104°F

(3) Room air 80.6°F d.b./66.2°F w.b.; Water (in/out) 44.6°F/53.6°C

(4) Room air 68°F d.b.; Water (in/out) 149°F/131°F

Dimensional data (mm)



VED_I		530	532	540	541	730	732	740	741
A	in	11,8	11,8	11,8	11,8	13,8	13,8	13,8	13,8
B	in	44,6	44,6	44,6	44,6	60,4	60,4	60,4	60,4
C	in	29,0	29,0	29,0	29,0	31,1	31,1	31,1	31,1
D	in	45,6	45,6	45,6	45,6	61,4	61,4	61,4	61,4
Weight	lbs	92,6	103,6	97,0	103,6	127,9	127,9	134,5	134,5