

VES_I

Fan coil unit equipped with inverter Brushless motor
For ducted installations
Cooling capacity from 4,44 to 11,81 kW
Heating capacity from 9,91 to 25,37 kW



- **HORIZONTAL OR VERTICAL INSTALLATION**
- **VERSIONS FOR 2/4 PIPE SYSTEMS**
- **LARGE RANGE OF AVAILABLE STATIC PRESSURE**
- **HEIGHT 217mm (SLIM LINE)**

Features

Ducted fan coil with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment.

Equipped with inverter Brushless motor for an high efficiency and a continuous air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation based on the real indoor environment requirements without swinging temperature.

The fan unit at available working pressures, trough internal insulation, ensure excellent acoustic comfort levels.

The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications.

The main coil, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system
- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency

- 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 fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

Unit Configurator

By suitably combining the numerous options available it is possible to configure each model in such a way as to meet the most demanding of system requirement

Campo	Code
1,2,3	VES
4	Size
	5 - 7
5	Main coil
3	Standard
4	Increased coil
6,7	Coil only hot
	00 without coil
	05 coil only heating power limited
	10 coil only heating
8	Inverter motor
I	Inverter

Technical data

VES_I		5300			5400			7300			7400			
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	12,18	11,27	9,91	12,98	11,92	10,29	23,50	21,67	16,78	25,37	23,30	17,88
Water flow rate	(1)	l/h	1069	989	869	1139	1046	902	2061	1901	1472	2225	2044	1569
Pressure drops	(1)	kPa	32	26	22	16	14	11	47	40	23	33	28	18
Heating capacity (50°C)	(2)	kW	7,35	6,80	5,98	7,83	7,19	6,21	14,18	13,07	10,12	15,30	14,05	10,79
Water flow rate	(2)	l/h	1278	1182	1040	1361	1250	1079	2464	2273	1760	2660	2443	1876
Pressure drops	(2)	kPa	45	39	31	22	19	15	65	56	35	46	40	25
Cooling Performance														
Total cooling capacity	(3)	kW	5,63	5,18	4,44	5,85	5,35	4,56	10,37	9,94	8,17	11,81	10,85	8,05
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,92	3,59	3,08	7,29	6,76	5,36	7,91	7,26	5,49
Water flow rate	(3)	l/h	968	891	763	1006	921	784	1830	1709	1406	2032	1779	1384
Pressure drops	(3)	kPa	36	31	23	19	16	12	49	44	31	39	31	20
Water content	l	/			/			/			/			
Fans														
Fan	type/n°	centrifugal/4			centrifugal/4			centrifugal/6			centrifugal/6			
Air flow rate	m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138	
High static pressure	Pa	60	50	37	60	50	36	60	50	29	60	50	29	
Sound data														
Sound power level (inle+radiator)	(4) dB(A)	58	56	52	58	56	52	62	60	40	62	60	40	
Sound power level (outlet)	dB(A)	54	52	48	54	52	48	58	56	36	58	56	36	
Diameter connections														
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			
Additional coil	Ø	/			/			/			/			
Electrical Features														
Absorbed power	W	72	53	38	72	53	38	153	120	66	153	120	66	
Max. input current	A													
Signal 0-10V		9V	8,2V	7V	9V	8,2V	7V	9V	8,2V	6,2V	9V	8,2V	6,2V	
Power supply	V/ph/Hz	230V~50Hz												

VES I		5305			5310			7305			7310			
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	4,15	3,91	3,55	7,07	6,64	5,95	5,24	4,94	4,06	9,56	9,01	7,54
Water flow rate	(1)	l/h	364	343	311	621	582	522	460	434	356	838	790	662
Pressure drops	(1)	kPa	8	8	6	6	6	5	10	9	6	17	14	11
Cooling Performance														
Total cooling capacity	(3)	kW	5,63	5,18	4,44	5,63	5,18	4,44	10,37	9,94	8,17	11,81	10,85	8,05
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,82	3,51	3,02	7,29	6,76	5,36	7,91	7,26	5,49
Water flow rate	(3)	l/h	968	891	763	968	891	763	1830	1709	1406	2032	1779	1384
Pressure drops	(3)	kPa	36	31	23	36	31	23	49	44	31	39	31	20
Water content std. coil	l		/			/			/			/		
Water content additional coil	l		/			/			/			/		
Fans														
Fan	type/n°	centrifugal/4			centrifugal/4			centrifugal/6			centrifugal/6			
Air flow rate	m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138	
High static pressure	Pa	60	50	37	60	50	37	60	50	29	60	50	29	
Sound data														
Sound power level (inle+radiator)	(4)	dB(A)	58	56	52	58	56	52	62	60	40	62	60	40
Sound power level (outlet)	dB(A)		54	52	48	54	52	48	58	56	36	58	56	36
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	72	53	38	72	53	38	153	120	66	153	120	66	
Max. input current	A													
Signal 0-10V			9V	8,2V	7V	9V	8,2V	7V	9V	8,2V	6,2V	9V	8,2V	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;

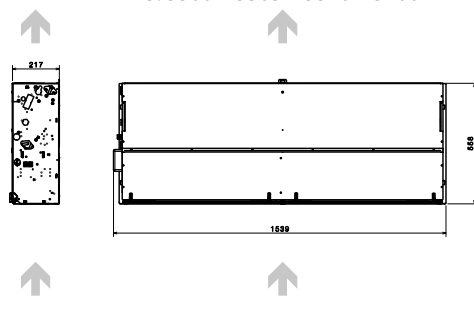
(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;

(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

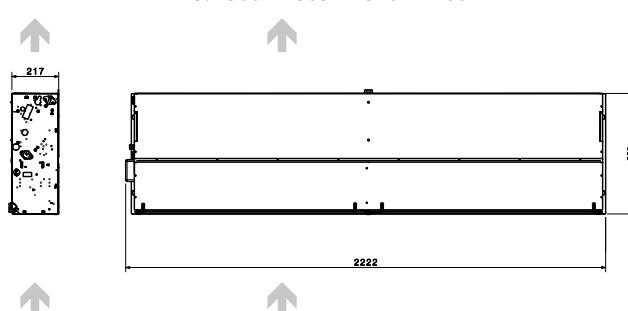
(4) Sound power level on the basis of measurements made in compliance with Eurovent 8/2

Dimensions (mm)

VES: 5300I - 5305I - 5310I - 5400I



VES: 7300I - 7305I - 7310I - 7400I



VES I		5300	5305	5310	5400	7300	7305	7310	7400
Weight	kg	72	53	38	72	53	38	153	120

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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