

## VES-I-5300-7400

## Fan coil unit equipped with inverter Brushless motor for ducted installations

Cooling capacity 4,44 ÷ 11,81 kW  
Heating capacity 9,91 ÷ 25,37 kW

- Horizontal or vertical installation
- Versions for 2/4 pipe systems
- Large range of available static pressure
- Height 217mm (slim line)



EUROVENT LCP

### DESCRIPTION

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, thought 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.

### FEATURES

- 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.

### CONFIGURATOR

Field	Description
1,2,3	VES
4	Size
	5-7
5	Main coil
3	Standard
4	Increased coil

Field	Description
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

Size	5300			5400			7300			7400				
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L		
<b>Heating Performance</b>														
<b>2 pipe configuration</b>														
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	32,0	26,0	22,0	16,0	14,0	11,0	47,0	40,0	23,0	33,0	28,0	18,0
Heating capacity (50°C)	(2)	kW	6,06	5,60	4,93	6,45	5,92	5,11	11,60	10,70	8,34	12,60	11,50	7,80
Water flow rate	(2)	l/h	1042	963	848	1109	1018	879	1995	1840	1434	2167	1978	1342
Pressure drops	(2)	kPa	32,0	28,0	22,0	16,0	13,5	10,0	46,0	40,0	25,0	33,0	28,0	13,8
<b>Cooling Performance</b>														
Total cooling capacity	(3)	kW	5,62	5,18	4,44	5,85	5,35	4,56	10,63	9,94	8,17	11,80	10,80	8,00
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,91	3,59	3,12	7,29	6,75	5,35	7,90	7,26	5,48
Cooling capacity (latent)	(3)	kW	1,80	1,67	1,42	1,94	1,76	1,44	3,34	3,19	2,82	3,90	3,54	2,52
Water flow rate	(3)	l/h	967	891	764	1006	920	784	1828	1710	1405	2030	1858	1376
Pressure drops	(3)	kPa	36,0	31,0	23,0	19,0	16,5	12,1	50,0	44,0	31,0	39,0	33,5	19,5
<b>Fans</b>														
Fans - Centrifugal		n°	4			4			6			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
<b>Sound data</b>														
Sound power level (inle+radiated)	(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
<b>Diameter connections</b>														
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"		
Additional coil		Ø	-			-			-			-		
<b>Electrical Features</b>														
Absorbed power		W	72	53	38	72	53	38	153	120	59	153	120	59
Signal 0-10V		%	90	82	70	90	82	70	90	82	62	90	82	62
Power supply			230V~50Hz											

Size	5305			5310			7305			7310				
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L		
<b>Heating Performance</b>														
<b>4 pipe configuration</b>														
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	9,0	8,0	6,0	7,0	6,0	5,0	10,0	9,0	6,0	17,0	14,0	11,0
<b>Cooling Performance</b>														
Total cooling capacity	(3)	kW	5,63	5,18	4,44	5,63	5,18	4,44	10,37	9,94	8,17	10,37	9,94	8,17
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,82	3,51	3,02	7,29	6,76	5,36	7,29	6,76	5,36
Cooling capacity (latent)	(3)	kW	1,81	1,67	1,42	1,81	1,67	1,42	3,08	3,18	2,81	3,08	3,18	2,81
Water flow rate	(3)	l/h	968	891	763	968	891	763	1830	1709	1406	1830	1709	1406
Pressure drops	(3)	kPa	36,0	31,0	23,0	36,0	31,0	23,0	49,0	44,0	31,0	49,0	44,0	31,0
<b>Fans</b>														
Fans - Centrifugal		n°	4			4			6			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
<b>Sound data</b>														
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)	50	48	44	50	48	44	54	52	32	54	52	32
<b>Diameter connections</b>														
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"		
Additional coil		Ø	1/2"			1/2"			1/2"			1/2"		
<b>Electrical Features</b>														
Absorbed power		W	72	53	38	72	53	38	153	120	66	153	120	66
Signal 0-10V		%	90	84	66	90	84	66	90	76	62	90	78	64
Power supply			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;

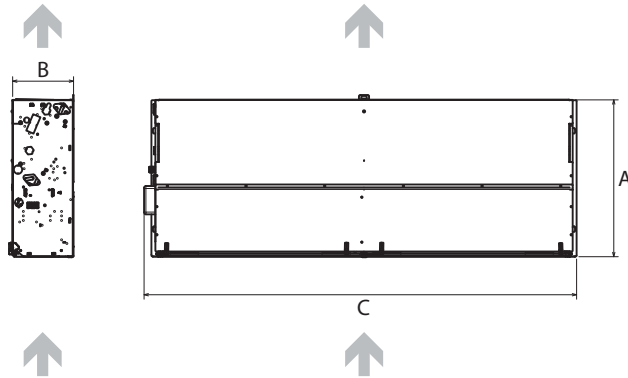
(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;

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

(4) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

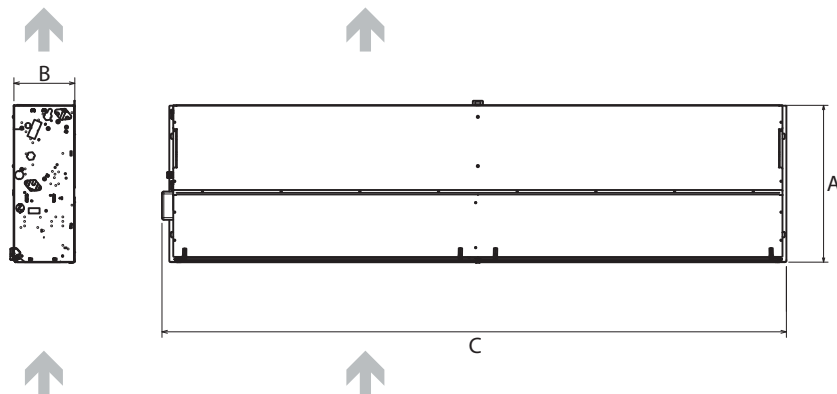
## DIMENSIONS

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



Size		5300	5305	5310	5400
<b>Dimensions and weights</b>					
A	mm	558	558	558	558
B	mm	217	217	217	217
C	mm	1539	1539	1539	1539
Weights	kg	46	47	47	47

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



Size		7300	7305	7310	7400
<b>Dimensions and weights</b>					
A	mm	558	558	558	558
B	mm	217	217	217	217
C	mm	2222	2222	2222	2222
Weights	kg	65	68	68	68

Aermec reserves the right to make any modifications deemed necessary.  
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