FCW

Fan coils wall-mount installation

- **Version with internal 3-way valve**
- **Compact dimensions**

DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors.
To respond to the various system requirements, the product is configurable and available with or without (3-way) valve, as well as with or without control board, which ensures compatibility with various system requirements.
Fan coils without control board must be necessarily combined with an external control device.

VERSIONS

HZ1 With 3-Way valve (24V) and without PCB controller
HZ4PC1 Without valve (24V) and with PCB controller for 4 pipes system
HZC1 With 3-Way valve (24V) and with PCB controller
HZVL1 Without valve (24V) and without PCB controller
HZVLC1 Without valve (24V) and with PCB controller

FEATURES

Case

Aesthetically styled with flat panel:
— Microprocessor control
— Air flow louvered louvers with horizontal adjustment facility
— Colors pure white pantone GRIS 1C RAL 9010.

Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.
Three-speed cross flow fan.

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.
The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filter

Fan coils are fitted with air filters easy to remove and clean.

Control

The versions with microprocessor control have:
— Timer for programming switch-off or switch-on (TLW2 and PFW2)
— Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW2 and PFW2)
— Night time Well-being Program (TLW2)
— Automatic season change (TLW2 and PFW2)
— Automatic re-start after power cut.

ACCESSORIES

For models with control board installed
FCW_HZC1, HZVLC1, HZ4PC1 it is mandatory to select among the user interfaces designed for the FCW series (TLW2 or PFW2)
PFW2: Wired panel to control all the functions of the unit. It is supplied separately and can control only one unit. The panel must be installed on the wall and connected to the fan coil with the supplied cable, 24.6 ft. long.
TLW2: Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.


PFW2


TLW2

For models without control board installed
FCW_HZ1, HZVL1 it is mandatory to have a user interface, installed externally to the fan coil at sight or recessed on the wall.

VMF-E24: Thermostat equipped with external contact to be used as remote ON-OFF at low voltage. This thermostat uses a 2-wire serial communication to create a single fan coil zone (1 master + maximum 5 slaves).

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

ACCESSORIES COMPATIBILITY

VMF system

Accessory	FCW2260HZ1	FCW3260HZ1	FCW4260HZ1	FCW5260HZ1
VMF-E24	•	•	•	•
VMF-E4DX	•	•	•	•
VMF-E4X	•	•	•	•

Control panels and dedicated accessories

Accessory	FCW2260HZ4PC1	FCW2260HZC1	FCW2260HZVLC1
PFW2	•	•	•
TLW2 (1)	•	•	•

Accessory	FCW3260HZ4PC1	FCW3260HZC1	FCW3260HZVLC1
PFW2	•	•	•
TLW2 (1)	•	•	•

Accessory	FCW4260HZ4PC1	FCW4260HZC1	FCW4260HZVLC1
PFW2	•	•	•
TLW2 (1)	•	•	•

Accessory	FCW5260HZ4PC1	FCW5260HZC1	FCW5260HZVLC1
PFW2	•	•	•
TLW2 (1)	•	•	•

(1) Accessory is required for operating the fan coil as an alternative to the wired remote control panel PFW2. mandatory accessory for versions with controller HZC1, HZVLC1, HZ4PC1

PERFORMANCE SPECIFICATIONS

2-pipe

		FCW2260HZ1			FCW3260HZ1			FCW4260HZ1			FCW5260HZ1		
		1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 113 °F / 104 °F (1)													
Heating capacity	MBH	6.3	6.7	7.0	7.6	8.3	8.8	12.1	13.5	16.3	18.9	20.0	20.6
Water flow rate system side	gpm	1.4	1.5	1.6	1.7	1.9	2.0	2.8	3.1	3.7	4.2	4.5	4.6
Pressure drop system side	ft H_2O	6.11	5.26	5.67	6.97	8.21	9.08	4.45	5.35	7.49	4.15	4.58	4.83
Cooling performances 44.6 °F / 53.6 °F (2)													
Sensible cooling capacity	MBH	4.8	5.1	5.4	5.7	6.4	6.8	9.2	10.4	12.8	15.3	16.3	16.9
Cooling capacity	MBH	6.3	6.7	7.0	7.7	8.4	8.9	12.2	13.6	16.3	19.0	20.1	20.7
Water flow rate system side	gpm	1.4	1.5	1.6	1.7	1.9	2.0	2.7	3.0	3.6	4.2	4.5	4.6
Pressure drop system side	ft H_2O	6.11	6.89	7.43	9.16	10.78	11.93	5.72	6.93	9.64	5.45	6.01	6.33
Fan													
Type	type	Tangential			Tangential			Tangential			Tangential		
Fan motor	type	On-Off			On-Off			On-Off			On-Off		
Number	no.	1			1			1			1		
Air flow rate	cfm	196	215	231	226	257	281	353	407	534	596	644	679
Input power	kW	0.02	0.03	0.03	0.02	0.03	0.03	0.04	0.05	0.07	0.05	0.06	0.07
Fan coil sound data (3)													
Sound power level	dB(A)	51.4	54.4	56.8	49.9	52.9	55.8	55.2	58.4	63.6	57.9	60.5	62.4
Diametre hydraulic fittings													
Main heat exchanger	Ø	1/2"			1/2"			1/2"			3/4"		
Power supply													
Power supply		208-230V~60Hz			208-230V~60Hz			208-230V~60Hz			208-230V~60Hz		

(1) Room air temperature 68 °F d.b.; Water (in/out)113 °F/104 °F
(2) Room air temperature 80.6 °F d.b./66.2 °F w.b.; Water (in/out) 44.6 °F/53.6 °F
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583.

The HZC1 version has the same data as the HZ1 version

2-pipe

		FCW2260HZVLC1			FCW3260HZVLC1			FCW4260HZVLC1			FCW5260HZVLC1		
		1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 113 °F / 104 °F (1)													
Heating capacity	MBH	7.2	7.8	8.1	6.4	9.5	10.1	17.3	19.4	20.7	23.4	24.6	25.3
Water flow rate system side	gpm	1.6	1.8	1.8	1.4	2.1	2.3	3.9	4.4	4.6	5.2	5.5	5.7
Pressure drop system side	ft H_2O	4.71	5.41	5.81	4.19	8.47	9.44	6.42	7.92	8.91	5.59	6.13	6.42
Cooling performances 44.6 °F / 53.6 °F (2)													
Cooling capacity	MBH	7.3	7.8	8.2	6.5	9.6	10.2	17.4	19.5	20.8	23.5	24.8	25.4
Sensible cooling capacity	MBH	5.9	6.4	6.7	5.0	7.7	8.3	13.0	14.9	16.0	17.7	18.8	19.3
Water flow rate system side	gpm	1.6	1.7	1.8	1.4	2.1	2.3	3.9	4.3	4.6	5.2	5.5	5.6
Pressure drop system side	ft H_2O	6.12	7.03	7.56	5.94	12.01	13.38	8.41	10.38	11.68	7.37	8.08	8.47
Fan													
Type	type	Tangential			Tangential			Tangential			Tangential		
Fan motor	type	On-Off			On-Off			On-Off			On-Off		
Number	no.	1			1			1			1		
Air flow rate	cfm	259	289	310	189	321	354	506	595	661	689	741	778
Input power	kW	0.02	0.03	0.03	0.02	0.03	0.03	0.05	0.06	0.07	0.05	0.06	0.07
Fan coil sound data (3)													
Sound power level	dB(A)	48.9	51.9	54.6	48.1	51.5	53.1	51.2	54.9	61.5	55.0	58.1	60.1
Diametre hydraulic fittings													
Main heat exchanger	Ø	1/2"			1/2"			1/2"			3/4"		
Power supply													
Power supply		208-230V~60Hz			208-230V~60Hz			208-230V~60Hz			208-230V~60Hz		

(1) Room air temperature 68 °F d.b.; Water (in/out)113 °F/104 °F
(2) Room air temperature 80.6 °F d.b./66.2 °F w.b.; Water (in/out) 44.6 °F/53.6 °F
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583.

The HZ4PC1, HZVL1 versions have the same data as the HZVLC1 version

ELECTRIC DATA

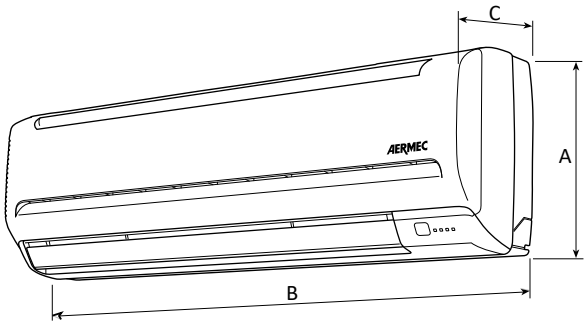
		FCW2260HZVLC1	FCW2260HZ1	FCW2260HZ4PC1	FCW2260HZC1	FCW2260HZVL1
Electric data						
Maximum current (FLA)	A	0.2	0.2	0.2	0.2	0.2
Minimum circuit amperage (MCA)	A	0.49	0.24	0.49	0.49	0.33
Maximum overcurrent permitted by the protection device (MOP)	A	0.81	0.52	0.81	0.81	0.52

		FCW3260HZVLC1	FCW3260HZ1	FCW3260HZ4PC1	FCW3260HZC1	FCW3260HZVL1
Electric data						
Maximum current (FLA)	A	0.2	0.2	0.2	0.2	0.2
Minimum circuit amperage (MCA)	A	0.50	0.33	0.50	0.50	0.33
Maximum overcurrent permitted by the protection device (MOP)	A	0.83	0.52	0.83	0.83	0.52

		FCW4260HZVLC1	FCW4260HZ1	FCW4260HZ4PC1	FCW4260HZC1	FCW4260HZVL1
Electric data						
Maximum current (FLA)	A	0.5	0.5	0.5	0.5	0.5
Minimum circuit amperage (MCA)	A	0.83	0.70	0.83	0.83	0.70
Maximum overcurrent permitted by the protection device (MOP)	A	1.42	1.19	1.42	1.42	1.19

		FCW5260HZVLC1	FCW5260HZ1	FCW5260HZ4PC1	FCW5260HZC1	FCW5260HZVL1
Electric data						
Maximum current (FLA)	A	0.4	0.4	0.4	0.4	0.4
Minimum circuit amperage (MCA)	A	0.84	0.67	0.84	0.84	0.67
Maximum overcurrent permitted by the protection device (MOP)	A	1.44	1.13	1.44	1.44	1.13

DIMENSIONS



		FCW2260HZ1	FCW3260HZ1	FCW4260HZ1	FCW5260HZ1
Dimensions and weights					
A	in	11.7	12.0	12.0	14.4
B	in	34.6	39.0	39.0	57.1
C	in	8.1	8.3	8.3	9.1
Empty weight	lbs	24	29	40	60

The HZC1, HZ4PC1, HZVL1, HZVLC1 versions have the same data as the HZ1 version

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