

FCW Fan coils Wall-mount installation



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The related products can be found at the website
www.eurovent-certification.com



New Colors!
Pure White
Pantone GRIS 1C
RAL 9010

Variable Multi Flow

VMF

- **VERSIONS WITH INTERNAL 2- OR 3-WAY VALVE**
- **QUICK AND EASY INSTALLATION**
- **COMPACT DIMENSIONS**

Features

By appropriately combining the options available, it is possible to select the model that satisfies the specific system requirements.

Sale code description:

Code	Size	Valve	Microprocessor control
FCW	22-32-42	2V (with internal 2-way valve) 3V (with internal 3-way valve) VL (without valve)	(Empty) with control board N without control board

FCW is a 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.

The product is configurable and available with or without (2- or 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.

- Display on the front panel
- Three-speed cross flow fan
- Maximum silence
- Aesthetically styled with flat panel
- Air flow louvered fins with horizontal adjustment facility
- Motorised deflector louvers that can be activated by remote control TLW2 and remote panel PFW2 for vertical orientation of the outlet air with 4 fixed positions and continuous oscillation
- 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 (TLW2 and PFW2)
- Easy installation and maintenance.
- Air filter with easy extraction and cleaning
- Full compliance with accident-prevention standards.

Accessories

For models with control board installed

FCW_2V, 3V, VL it is mandatory to select among the user interfaces designed for the FCW series (TLW2 or PFW2)

For models without control board installed

FCW_2VN, 3VN, VLN a user interface must be mounted outside the fan coil, using either a visible or a recessed wall-mount installation. To make the selection, please refer to the "control panels" or "VMF system" sheets, where you will find comprehensive information on this topic.

• Remote control TLW2

(mandatory accessory for versions with controller FCW_2V, FCW_3V, FCW_VL):

This accessory is required for operating the fan coil as an alternative to the wired remote control panel PFW2.

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.

• Wired control panel PFW2

(mandatory accessory for versions with controller FCW_2V, FCW_3V, FCW_VL):

This accessory is required for operating the fan coil.

The PFW2 panel can control only one fan coil.

The panel must be wall-mounted and connected to the fan coil using the 7.5-metre long cable provided.

Technical data

FCW			222V	223V	22VL	322V	323V	32VL	422V	423V	42VL	
HEATING PERFORMANCE (2 PIPE CONFIGURATION)												
Thermal power (70°C)	(1)	W	H	4031	4031	4297	5035	5035	5245	7972	7972	8560
	(1)	W	M	3020	3020	3660	4363	4363	4515	7234	7234	7846
	(1)	W	L	2353	2353	2852	3256	3256	3734	6294	6294	6444
Water flow rate	(1)	l/h	H	354	354	377	442	442	460	699	699	751
	(1)	l/h	M	265	265	321	383	383	396	635	635	688
	(1)	l/h	L	206	206	250	286	286	328	552	552	565
Pressure drops	(1)	kPa	H	9	9	9	29.4	29.4	15.9	32	32	26
	(1)	kPa	M	14	14	6	22.7	22.7	12.1	27	27	22
	(1)	kPa	L	24	24	4	13.4	13.4	8.6	21	21	16
Thermal power (50°C)	(2)	W	H	2400	2400	2560	3000	3000	3120	4750	4750	5100
	(2)	W	M	1800	1800	2180	2600	2600	2690	4310	4310	4670
	(2)	W	L	1400	1400	1700	1940	1940	2220	3750	3750	3840
Water flow rate	(2)	l/h	H	327	327	353	413	413	430	654	654	702
	(2)	l/h	M	249	249	299	358	358	370	593	593	643
	(2)	l/h	L	189	189	236	267	267	306	516	516	528
Pressure drops	(2)	kPa	H	21	21	8	26	26	14	28	28	23
	(2)	kPa	M	13	13	6	20	20	10	24	24	19
	(2)	kPa	L	8	8	4	12	12	7	18	18	14
COOLING PERFORMANCE												
Total cooling capacity	(3)	W	H	1900	1900	2050	2400	2400	2500	3800	3800	4080
	(3)	W	M	1450	1450	1740	2080	2080	2150	3450	3450	3740
	(3)	W	L	1100	1100	1370	1550	1550	1780	3000	3000	3070
Sensitive cooling capacity	(3)	W	H	1550	1550	1730	1970	1970	2040	2850	2850	3470
	(3)	W	M	1200	1200	1470	1680	1680	1820	2500	2500	3100
	(3)	W	L	920	920	1160	1280	1280	1510	2010	2010	2590
Water flow rate	(3)	l/h	H	327	327	353	413	413	430	654	654	702
	(3)	l/h	M	249	249	299	358	358	370	593	593	643
	(3)	l/h	L	189	189	236	267	267	306	516	516	528
Water pressure drops	(3)	kPa	H	23	23	9	29	29	15	32	32	26
	(3)	kPa	M	14	14	7	22	22	11	27	27	21
	(3)	kPa	L	9	9	5	13	13	8	21	21	15
Air flow rate		m³/h	H	380	380	389	440	440	446	540	540	684
		m³/h	M	330	330	340	390	390	400	470	470	602
		m³/h	L	270	270	280	320	320	330	370	370	476
fans		type										tangential
		n°		1	1	1	1	1	1	1	1	1
Input power		W	H	27	27	27	27	27	27	48	48	48
		W	M	24	24	24	23	23	23	41	41	41
		W	L	23	23	23	22	22	22	31	31	31
Maximum input current		(A)		0.13	0.13	0.13	0.13	0.13	0.13	0.23	0.23	0.23
Sound power	(4)	dB(A)	H	53	53	53	53	53	53	54	54	54
	(4)	dB(A)	M	48	48	48	48	48	48	49	49	49
	(4)	dB(A)	L	42	42	42	42	42	42	44	44	44
Sound Pressure	(5)	dB(A)	H	44.5	44.5	44.5	44.5	44.5	44.5	45.5	45.5	45.5
	(5)	dB(A)	M	39.5	39.5	39.5	39.5	39.5	39.5	40.5	40.5	40.5
	(5)	dB(A)	L	34.0	34.0	34.0	34.0	34.0	34.0	35.5	35.5	35.5
Water content		l										
Coil connections		ø Gas (F)		½" F	½" F	½" F	½" F	½" F	½" F	½" F	½" F	½" F
		H		V3	V3	V3	V3	V3	V3	V3	V3	V3
Speeds connected		M		V2	V2	V2	V2	V2	V2	V2	V2	V2
		L		V1	V1	V1	V1	V1	V1	V1	V1	V1
Electric power supply												230V/1/50Hz

H maximum speed; M medium speed; L minimum speed

Heating

2-pipe system configuration

(1) Ambient air temperature 20°C d.b.; Inlet water temperature 70°C; DT water 10°C

2-pipe system configuration (EUROVENT)

(2) Ambient air temperature 20°C d.b.; Inlet water temperature 50°C; Water flow rate the same as in Cooling mode

Cooling (EUROVENT)

(3) Ambient air temperature 27°C d.b./19°C w.b.; Inlet water temperature 7°C; DT water 5°C

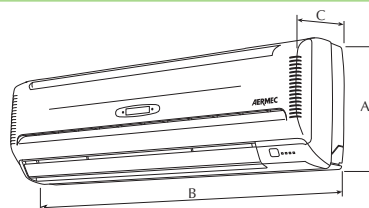
(4) Sound power based on the measurements carried out in accordance with Eurovent 8/2 standard

(5) Sound pressure level (A weighted) measured in environment with volume V=85m³, reverberation time t=0.5s directivity factor Q=2; distance r=2.5m

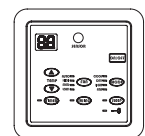
Note: The speeds connected can differ from the factory standard configuration, for more information refer to the selection program and to the technical documentation available at www.aermec.com

Dimensional data (mm)

FCW		22	32	42
Height	A	298	305	360
Width	B	880	990	1170
Depth	C	205	210	220
Weight	kg	9	10	19



TLW2 accessory



PFW2 accessory

Aermec reserves the right to make all the modifications deemed necessary for improving the product, including technical data.

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