AERMEC

NEW

FCW

Fan coil
Wall installation

Aermec
participate in the EUROVENT
program: FC / 2 / H

Variable Multi Flow
VMF

- **2V version with 2-way valve fitted inside Wired control panel or remote control**
- **3V version with 2-way valve fitted inside Wired control panel or remote control**
- **VL version without valve Wired control panel or remote control**
- **2VN version with 2-way valve fitted inside Standard control or VMF System**
- **3VN version with 3-way valve fitted inside Standard control or VMF System**
- **VLN version without valve Standard control or VMF System**

Features

By choosing the appropriate options it is possible to select the model to suit the specific system requirements:

Unit configuration:

1 2 3	4 5	6 7	8
Code	Size	Valve	Microprocessor Controller
FCW	**21**	**2V** (2-way valve fitted inside)	**(Blank)** with controller
	31	**3V** (3-way valve fitted inside)	**N** without controller
	41	**VL** (without Valve)	

- **EUROVENT certified**
- Cream color
- Display on panel front
- Tangential three-speed fan assembly
- Very quiet operation
- Aesthetic design
- Horizontally adjustable discharge air blades
- Horizontal deflector blades to vertically adjust discharge air. Manually adjustable only for units without microprocessor controller. For units with microprocessor controller adjustable only via PFW2 wired control panel or TLW2 remote control
- Timer for on/off programming (TLW2 and PFW2)
- Automatic, cooling, heating, ventilation and dehumidification function programming (TLW2 and PFW2)
- Sleep function only with TLW2 remote control
- Automatic season change (TLW2 and PFW2)
- Automatic start after black-out (TLW2 and PFW2)
- Ease of installation with hydraulic and condensate drain connections adjustable in several directions
- Routine maintenance is limited to periodic cleaning of the air filter
- Air filter can be easily removed and cleaned
- Full compliance with safety regulations

Accessories

• TLW2 REMOTE CONTROL
(accessory for versions with microprocessor controller FCW_2V, FCW_3V, FCW_VL):
Accessory essential for the fan coil unit operation, as an alternative to the PFW2 wired control panel. The two control systems cannot be used at the same time on the same fan coil unit.
The TLW2 remote control is provided loose from the fan coil unit. One remote control can control several fan coil units.
The remote control makes it possible to set all the operating parameters of the unit. These parameters are shown on a liquid crystal display making programming operations easier.
The remote control is supplied with a bracket allowing it to be hung on the wall.
The remote control is fitted with a support so it can be hung on the wall and it is therefore possible to carry out the required operations without removing it, it must be installed at a point on the wall that is easy to reach and not exposed to sources of heat, steam or direct sunlight and that is at least a meter from televisions or other electronic apparatus
The remote control is powered by two 1.5V mini stick batteries of the R03 AAA type and works optimally up to seven meters from the unit.

• PFW2 WIRED CONTROL PANEL
(accessory for versions with microprocessor controller FCW_2V, FCW_3V, FCW_VL):
Accessory essential for the fan coil unit operation, as alternative to the TLW2 remote control. The two control systems cannot be used at the same time on the same fan coil unit.
A PFW2 wired control panel can control just one fan coil unit.
The wired control panel must be installed on the wall and connected to the fan coil unit with the cable provided loose.
The panel cable is 4 metres long.
The PFW2 makes it possible to set the main operating parameters of the unit. These parameters are shown on a liquid crystal display making programming operations easier.

• WIRED CONTROL PANELS and VMF System
(Accessories essential for versions without microprocessor controller FCW_2VN, FCW_3VN, FCW_VLN):
Accessories essential for the fan coil unit operation, which then requires a cable connected accessory panel or connection to the accessories of the VFM system. The characteristics of the control panels are described on the appropriate card.

Technical data

Mod.	FCW	212V	213V	21VL	312V	313V	31VL	412V	413V	41VL
Heating capacity **(E)**	W (max.)	2400	2400	2560	3000	3000	3125	4750	4750	5100
	W (med.)	1800	1800	2180	2600	2600	2690	4310	4310	4675
	W (min.)	1400	1400	1700	1940	1940	2225	3750	3750	3840
Water pressure drop **(E)**	kPa (max.)	21	21	8	26	26	14	28	28	23
	kPa (med.)	13	13	6	20	20	10	24	24	19
	kPa (min.)	8	8	4	12	12	7	18	18	14
Cooling capacity **(E)**	W (max.)	1900	1900	2050	2400	2400	2500	3800	3800	4080
	W (med.)	1450	1450	1740	2080	2080	2150	3450	3450	3740
	W (min.)	1100	1100	1370	1550	1550	1780	3000	3000	3075
Sensible cooling capacity **(E)**	W (max.)	1550	1550	1735	1970	1970	2040	2850	2850	3475
	W (med.)	1200	1200	1475	1680	1680	1825	2500	2500	3115
	W (min.)	920	920	1160	1280	1280	1510	2015	2015	2595
Water flow rate	l/h (max.)	327	327	352	413	413	430	654	654	702
	l/h (med.)	249	249	299	358	358	370	593	593	643
	l/h (min.)	189	189	236	267	267	306	516	516	529
Water pressure drop **(E)**	kPa (max.)	23	23	9	29	29	15	32	32	26
	kPa (med.)	14	14	7	22	22	11	27	27	21
	kPa (min.)	9	9	5	13	13	8	21	21	15
Input power **(E)**	W (max.)	27	27	27	27	27	27	48	48	48
	W (med.)	24	24	24	23	23	23	41	41	41
	W (min.)	23	23	23	22	22	22	41	41	31
Input current	A (max.)	0,13	0,13	0,13	0,13	0,13	0,13	0,23	0,23	0,23
	A (med.)	0,11	0,11	0,11	0,11	0,11	0,11	0,19	0,19	0,19
	A (min.)	0,1	0,1	0,10	0,11	0,11	0,11	0,14	0,14	0,14
Air flow rate	m^3/h (max.)	380	380	389	440	440	446	540	540	684
	m^3/h (med.)	330	330	340	390	390	400	470	470	602
	m^3/h (min.)	270	270	280	320	320	330	370	370	476
♪ Sound pressure	dB (A) (max.)	44,5	44,5	44,5	44,5	44,5	44,5	45,5	45,5	45,5
	dB (A) (med.)	39,5	39,5	39,5	39,5	39,5	39,5	40,5	40,5	40,5
	dB (A) (min.)	34	34	34	34	34	34	35,5	35,5	35,5
Sound power **(E)**	dB (A) (max.)	53	53	53	53	53	53	54	54	54
	dB (A) (med.)	48	48	48	48	48	48	49	49	49
	dB (A) (min.)	42,5	42,5	42,5	42,5	42,5	42,5	44	44	44
Coil connections	ø	½" F	½" F	½" F	½" F	½" F	½" F	½" F	½" F	½" F
Power supply		230V ~ 50Hz								

(E) = EUROVENT certified performance

♪ Level of sound pressure (A-weighted) measured in the room with volume V=85m^3; reverberation time t=0.5s; direction factor Q=2; distance r=2.5m

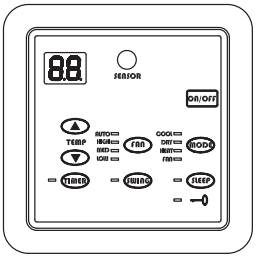
Performance values refer to the following conditions (EUROVENT 6/3) :

Cooling:
- Room air temperature 27°C B.S. ; 19°C B.U.
- Water inlet temperature 7°C
- Δt water 5°C

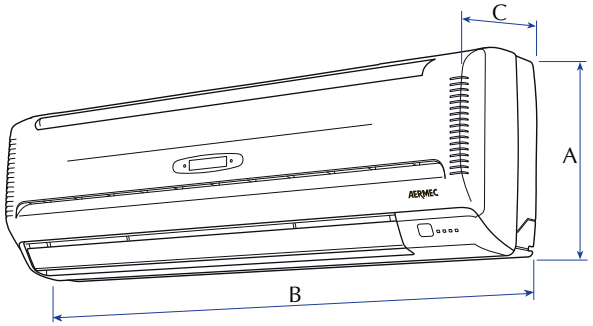
Heating:
- Room air temperature 20°C B.S.
- Water inlet temperature 50°C
- Δt water 5°C
- Water flow rate remains same as at cooling mode

Dimensions (mm)

TLW2



PFW2



FCW		212V	212V	21Vl	312V	312V	31Vl	412V	412V	41Vl
Height	A	298			305			360		
Width	B	880			990			1172		
Depth	C	180			180			210		
Weight	kg	9			10			19		

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