FCW
Fan Coil

Variable Multi Flo
VMF

Aermec
participate in the EUROVENT
program:LCP/A/P/C
the products are present on the site

- 2V VERSION WITH 2-WAY VALVE FITTED INSIDE WIRED CONTROL PANEL OR REMOTE CONTROL
- 3V VERSION WITH 3-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

Characteristics

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

123	45	67	8
Code	Size	Valve	Microprocessor Controller
FCW	21	2V (2-way valve fitted insi	(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 7,5 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.

FCW

Mod		212V	213V	21VL	312V	313V	31VL	412V	413V	41VL
* Heating capacity	BTU/h (max)	8194	8194	8740	10242	10242	10669	16217	16217	17411
	BTU/h (med)	6145	6145	7443	8876	8876	9184	14714	14714	15960
	BTU/h (min)	4780	4780	5804	6623	6623	7596	12803	12803	13110
* Water pressure drops	psi (max.)	3.05	3.05	1.16	3.77	3.77	2.03	4.06	4.06	3.34
	psi (med.)	1.89	1.89	0.87	2.90	2.90	1.45	3.48	3.48	2.76
	psi (min.)	1.16	1.16	0.58	1.74	1.74	1.02	2.61	2.61	2.03
❄ Cooling capacity	BTU/h (max)	6487	6487	6999	8194	8194	8535	12973	12973	13929
	BTU/h (med)	4950	4950	5940	7101	7101	7340	11778	11778	12768
	BTU/h (min)	3755	3755	4677	5292	5292	6077	10242	10242	10498
❄ Sensible cooling capacity	BTU/h (max)	5292	5292	5923	6726	6726	6965	9730	9730	11864
	BTU/h (med)	4097	4097	5036	5736	5736	6231	8535	8535	10635
	BTU/h (min)	3141	3141	3960	4370	4370	5155	6879	6879	8859
❄ Water flow rate	gpm (max)	1.44	1.44	1.55	1.82	1.82	1.89	2.88	2.88	3.09
	gpm (med)	1.10	1.10	1.32	1.58	1.58	1.63	2.61	2.61	2.83
	gpm (min)	0.83	0.83	1.04	1.18	1.18	1.35	2.27	2.27	2.33
❄ Water pressure drop	psi (max.)	3.34	3.34	1.31	4.21	4.21	2.18	4.64	4.64	3.77
	psi (med.)	2.03	2.03	1.02	3.19	3.19	1.60	3.92	3.92	3.05
	psi (min.)	1.31	1.31	0.73	1.89	1.89	1.16	3.05	3.05	2.18
Input power	W (max.)	27.00	27.00	27.00	27.00	27.00	27.00	48.00	48.00	48.00
	W (med.)	24.00	24.00	24.00	23.00	23.00	23.00	41.00	41.00	41.00
	W (min.)	23.00	23.00	23.00	22.00	22.00	22.00	41.00	41.00	31.00
Input current A	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.)	0.10	0.10	0.10	0.11	0.11	0.11	0.14	0.14	0.14
Air flow rate	cfm (max.)	224	224	229	259	259	263	318	318	403
	cfm (med.)	194	194	200	230	230	235	277	277	354
	cfm (min.)	159	159	165	188	188	194	218	218	280
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.)	34.00	34.00	34.00	34.00	34.00	34.00	35,5	35,5	35,5
Sound power	dB(A)(max.)	53.00	53.00	53.00	53.00	53.00	53.00	54.00	54.00	54.00
	dB(A)(med.)	48.00	48.00	48.00	48.00	48.00	48.00	49.00	49.00	49.00
	dB(A)(min.)	42.50	42.50	42.50	42.50	42.50	42.50	44.00	44.00	44.00
Coil connections	Ø	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F

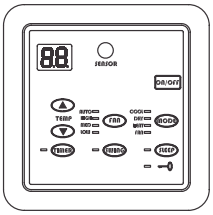
Perforamance values refer to the following conditions:
♪ level of sound pressure (weighted A) measured in the environment with volume V = 3002 ft , reverberation time t = 0.5 sdirection factor Q=2, distance r = 8.2 ft

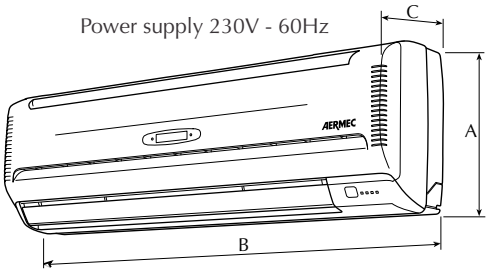
* **Heating** (water inlet 122°F) water inlet temperature 122°F room air temperature = 68°F d.b.; maximum ventilation speed: water flow rate in cooling mode at maximum ventilation speed;

* **Cooling:**
Inlet water temperature = 44°F room air temperature - 80°F d.b.66°F w.b.; maximum ventilation speed; t water - 9°F;medium and minimum ventilation speed: water flow rate as maximum ventilation speed;

Dimensions (inches)


TLW2


PFW2



FCW		212V/21VL/21VN	312V/31VL/31VN	412V/41V1/41VN
Height, in	A	11.73	12.01	14.17
Width, in	B	34.65	38.98	46.14
Depth, in	C	8.07	8.27	8.66
Weight , lb		19.87	22.08	41.95