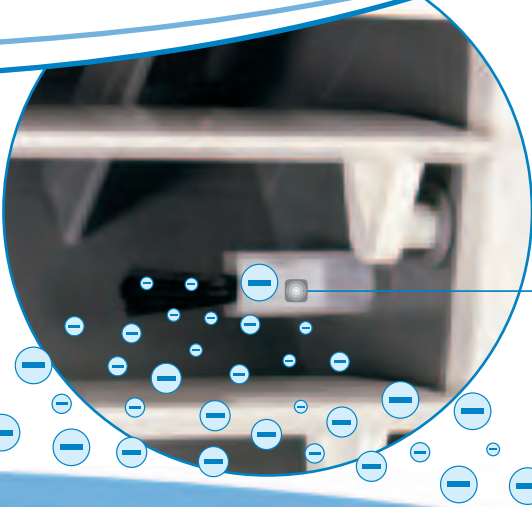




FW Wall Fan-coil units





IONIZATOR

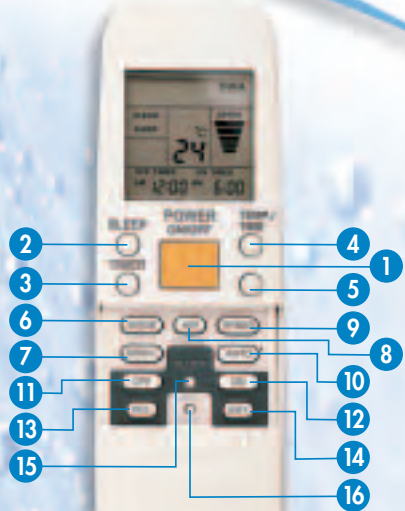
These units are equipped with ionizer (standard, only for FW 230 and FW 430 models). This equipment, producing negative ions, allows purifying air, clustering the dust and neutralizing microbes and air bacteria.

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... AND MANY OTHER ACCESSORIES AVAILABLE:

- **RECESSED drain pan** with supporting template for 2 or 3-way valve and drain pump housing
- **EXTERNAL drain pan** with supporting template for 2 or 3-way valve and drain pump housing
- Condensate pump ; 2 and 3 way valves ; etc. etc.



Infrared remote control with LC display (multi-functions/programmable)

The standard unit is supplied with electronic card with microprocessor with different functions adjustable with infrared remote control. The standard unit is supplied without the I.R. remote control (accessory): in this way the customer can choose to control with the I.R. remote control several units or to have one I.R. remote control per each unit.

WALL FAN COIL UNITS: ...THE WATER SPLIT

Cabinet Beautiful, smart, modern styled cabinet well proportioned smoothed outline to perfectly match with any interior decoration. Made of ABS, it is very resistant to corrosion, rust and environmental agents. White colour (similar to RAL 9002). Well-balanced proportions.

Mounting bracket made of extremely thick galvanized steel-sheet with holes enabling wall mounting.

Drain pan made of ABS, provided with drainpipe \varnothing 16 mm.

Coil made of copper pipes and aluminum fins fixed by mechanical expansion. Coil connections provided with manual air vent valve.

Water connections positioned in central low part, in left direction.

Working with water temperature limit 80°C.

Fan section including 1 **tangential fan** directly coupled to the electric motor. Mounted on elastic and anti vibration supports. Fan section statically and dynamically balanced, extra silent fan, designed to realize high airflow with low revolutions number.

Electric motor has 3 speeds, provided with heat protection (Klixon), running capacitor permanently switched on, IP 42, Class B, electric cables protected by double insulation.

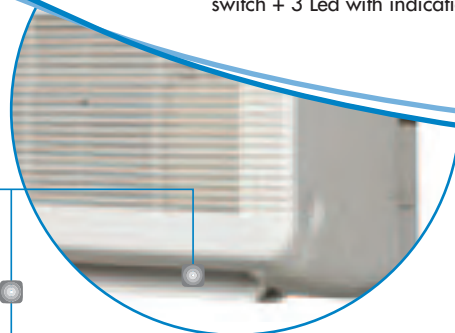
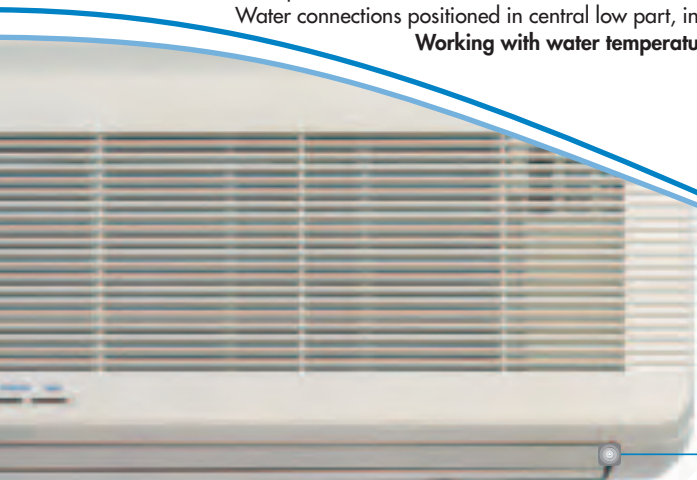
Manufactured according to the international standards, 230V – 1 Ph – 50Hz.

Air filter easy to remove, made of high efficiency polypropylene NAN cellular fabric net. Can be regenerated by water wash, blowing, suction.

Electronic card with microprocessor with different functions adjustable with infrared remote control.

Water low temperature feeler included.

The Terminal board is provided with additional outputs to eventually control a 230V on/off electrovalve (2 or 3 way) + contacts for remote on/off of the unit. Control panel inside the unit with on/off switch supply + Emergency switch + 3 Led with indications of operating and alarms.



Mech-Elec

AIR SUPPLY FINS

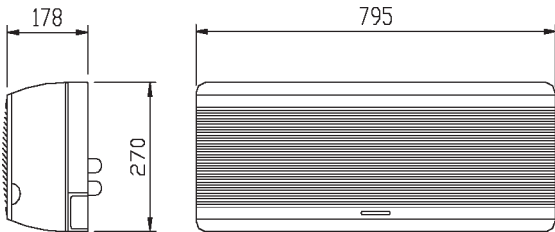
The unit is equipped with 5 positions air supply fins (standard), adjustable and motorized.

The fins opening and closing is automatic when the unit starts or stops working. The airflow can be manually adjusted right/left. High/low adjustment is automatic with horizontal swing which can be programmed in 5 different positions by infrared remote control (the Infrared remote control is option). The system guarantees an **optimized air flow**: in cooling mode the air supply fins swing up to 35° (to avoid the fresh air flowing in the low part of the room), in heating mode the fins swing up to 10° (to distribute hot air uniformly and to avoid the hot air flowing in the high part of the room).

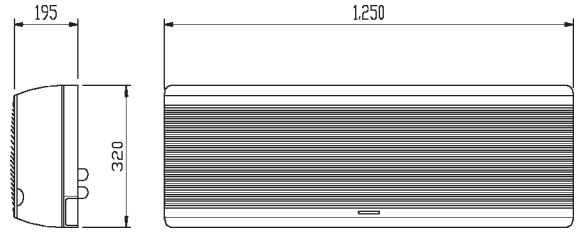
- ① **POWER ON/OFF** : Press to start or stop operation.
- ② **SLEEP** : Press to use sleep function mode. It works automatically to modify the thermostat setting in accordance with the time setting
- ③ **TIMER** : Button for timer setting (1 hour – 9 hours). Use this button to set quickly the operating time.
- ④ **TEMP/TIME** : Press this button to set temperature and clock (increase).
- ⑤ **TEMP/TIME** : Press this button to set temperature and clock (decrease).
- ⑥ **MODE** : Press this button to set different operating functions (automatic, cooling/heating, dehumidifying and ventilation).
- ⑦ **DIREC.** : Use this button to set the air flow in vertical direction (automatic, direction 1, direction 2, direction 3, direction 4, direction 5).
- ⑧ **AIR CLEAN** : Press this button to generate negative ions and to clean the air in the room.
- ⑨ **SPEED** : Press this button to select the fan speed (automatic, low, medium, high).
- ⑩ **AUTO** : Press this button to set the air flow direction in automatic mode.
- ⑪ **OFF TIMER** : Set the time until you wish the unit stops.
- ⑫ **ON TIMER** : Set the time when you wish the unit starts.
- ⑬ **TIMER CANCEL button (DEL)** : Use this button to cancel the timer setting.
- ⑭ **TIMER CONFIRM button (ENT)** : Use this button to enter the timer setting.
- ⑮ **CLOCK** : Use this button to set the current time.
- ⑯ **ACL** : Use this button to reset all user settings and return to the original settings.
- ⑰ **SIGNAL TRANSMITTER** : Control signals are transmitted from the remote to the fan-coil.



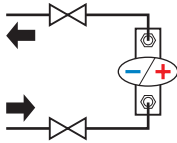
TECHNICAL DATA



Mod. FW 230 - FW 430



Mod. FW 1230



2 PIPE (1 coil)

Model			FW 230	FW 430	FW 1230
Cooling capacity	Total (1)	W	2.100	2.550	4.600
	Sensible (1)	W	1.750	2.050	3.560
Heating capacity	(2)	W	4.800	5.370	7.710
Portata aria - Air flow (3)		m ³ /h	440	433	860
Water flow (4)	Cooling	l/h	361	439	791
	Heating	l/h	413	462	663
Water pressure drops (5)	Cooling	kPa	15,5	29,8	49,7
	Heating	kPa	15,8	25,8	27,2
Sound levels (6)	Min-Med-Max	dB(A)	24 - 31 - 36	31 - 33 - 35	34 - 40 - 43
Fans/Motors number	No./No.		1/1	1/1	1/1
Speed number	No.		3	3	3
Current input (7)	MAX	W - A	52 W - 0,25 A	52 W - 0,25 A	186 W - 0,90 A
Power supply			230 V - 1 Ph - 50 Hz		230 V - 1 Ph - 50 Hz
Dimensions	L	mm	795	795	1.250
	H	mm	270	270	320
	S	mm	178	178	195
Female gas Water connections		ø	1/2"	1/2"	1/2"
Drain pipe		ø (mm)	16	16	16
Net weight		kg	8,3	9,5	13,2



(8) AIR FLOW AND COOLING/HEATING CAPACITIES REDUCTIONS (Note: Ref. 0 Pa)

MODEL	Speed	FW 230	FW 430	FW 1230
Total cooling capacity	Med	0,87	0,95	0,94
	Min	0,78	0,91	0,83
Sensible cooling capacity	Med	0,84	0,93	0,92
	Min	0,73	0,88	0,78
Heating capacity	Med	0,85	0,93	0,92
	Min	0,75	0,89	0,80
Air flow	Med	0,76	0,89	0,88
	Min	0,61	0,83	0,69

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (3) - (4) - (5): Nominal technical data refer to the maximum speed and unit with free air flow (External static pressure = 0 Pa).

(1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Max speed (nominal). For Med and Min fan speed see (8) (ref. entering water temp. 7°C and water flow as for the Max speed (4)).
 (2) Heating: Environment air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Max speed (nominal). For Med and Min fan speed see (8) (ref. entering water temp. 70°C and water flow as for the Max speed (4)).
 (3) Air flow: Measurements made with casing ref. AMCA 210-74 fig. 11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards.
 (4) Sound Levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in reverberation room ref. ISO 3741 - ISO 3742 standards. (7) Electrical data: Measurements with Wattmeter Jokogawa WT 110.

