

Wall-mounted fan coil units

model FCW

05





Wall-mounted fan coil units model FCW

main features



IRC03

Infrared remote control supplied with the unit



Covering box

Covering boxes with new and visually appealing design, equipped with LCD. Automatic distribution of the air diversified into cooling and heating for the utmost comfort.

The shape of the fan ensures a highly efficient, low-noise air flow.

Heat exchanger

High-efficiency heat exchange coil with copper pipe and aluminium flaps locked by means of mechanical expansion.

One coil for 2-pipe system. Coils tested at 30 bar operating pressure, suitable for working with water up to a maximum pressure of 15 bar.

The coils are suitable for operating with:

- high-temperature water (boiler)
- low-temperature water (condensing boiler, heat pump, etc.)
- cold water (chiller and/or industrial processes)
- water supplemented with glycol

Blue hydrophilic flaps and copper pipes equipped with special ridges that increase the fluid's turbulence and sensibly increase the heat exchange.

Control units and controls

Remote control supplied as a standard feature with the unit. Wired control unit available as an optional accessory and equipped with an ON/OFF control and MODBUS protocol for communication with the BMS. Programming of the unit switching on and off. A single wired control unit can manage up to 10 fan coil units. Equipped with a sensor for pairing with a remote control.

Valves

Two-way or three-way valves are available as accessories, NOT installable on the unit.

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technical data



Rated technical data model FCW (two-pipe unit - one coil)

Models			01	02	03	04
Total cooling capacity (1)		W	2,100	2,600	3,500	4,200
Sensible cooling capacity (1)		W	1,600	2,000	2,400	3,000
Heating capacity (2a)		W	4,264	5,914	7,807	8,642
Heating capacity (2b)		W	2,132	2,957	3,903	4,321
Rated air flow (3)		m ³ /h	340	510	680	850
Water flow rate (4)	Cooling	l/h	360	432	612	720
	Heating	l/h	360	504	684	756
Water head losses (5)	Cooling	kPa	18.0	26.0	38.0	46.0
	Heating	kPa	5.0	9.0	16.0	13.0
Sound pressure (min.-med.-high-super high) (6)		dB(A)	21-22-27-31	21-28-35-36	26-34-42-43	30-39-46-48
Motors/Fans		No./No.	1/1	1/1	1/1	1/1
Rated power absorption (7)	W		10	20	30	40
	A		0.052	0.078	0.126	0.187
Electrical power supply			230 VAC – 1 Ph – 50 Hz			
Cold/hot coil rows		No.	2	2	2	2
Hydraulic fittings		DN	1/2"	1/2"	1/2"	1/2"
Condensate drainage outlet		mm	15.6			

Technical data referred to the following conditions:

standard unit - atmospheric pressure 1013 mbar - electrical power supply 230 VAC/1 Ph/50 Hz.

(1) (2) (3) (4) (5): Rated technical data, ref. air flow rate (3) at maximum speed and with unit with open mouth (external static pressure ESP=0 Pa).

(1) **Cooling:** air temp. 27°C dry bulb, 19°C wet bulb - input/output water temp. 7/12°C - Maximum speed.

(2a) **Heating:** air temp. 20°C - Input/output water temp. 70/60°C - Maximum speed.

(2b) **Heating:** air temp. 20°C - Input/output water temp. 45/40°C - Maximum speed.

(3) **Air flow rate and static pressure:** rated values measured with casing ref. AMCA210-74 standard Fig.12 and conduit + diaphragm ref. CNR-UNI10023 standard.

(6) **Sound pressure:** sound pressure in free field environment, distance 2 m. Values calculated from sound power measured in reverberation chamber ref. ISO 3741 - ISO 3742 standards.

(7) **Electrical data:** values measured with Jokogawa WT110 wattmeter (nominal value = reference value for the design of the electrical system).

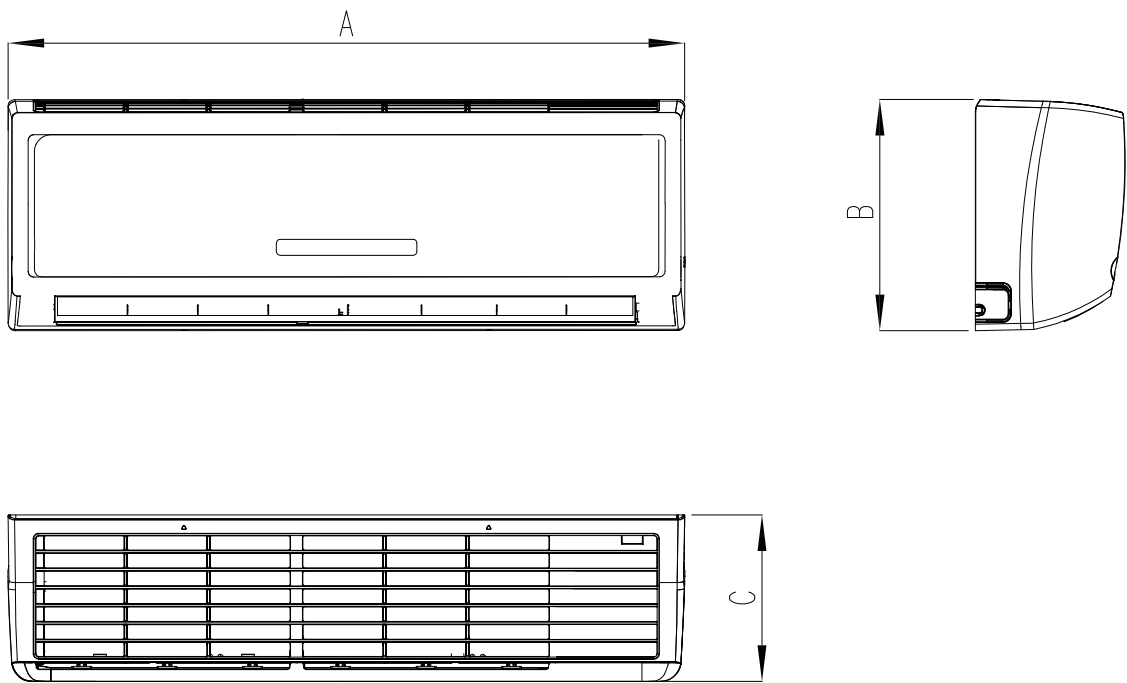
Table of net weights model FCW (two-pipe unit - one coil) in kg

Products / Models	01	02	03	04
FCW	10.5	10.5	10.5	12.5

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dimensional drawings

Model FCW 01-02-03 and model FCW 04












MODEL FCW	A	B	C
FCW 01-02-03	845	289	209
FCW 04	970	360	280



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accessories

Wired control unit			
	Description	Model	Applicability
	Wired control unit for wall-mounted fan coil units	SWC17	All

Valve kit			
	Description	Model	Applicability
	Two-way valve for wall mounted type	HL-G2-1/2-S2	All
	Three-way valve for wall mounted type	HL-G3-1/2-S2	All
  	VTX13 = four-way valves 1/2" M, Kvs=1.6 (2 pipes) MVX22R = electro-thermal ON/OFF actuator, 230 V, 140 N 54304-04 = casing for VTX13	KIT VALV 4V: VTX13+ MVX22R+ 54304-04	All
  	VSX13 = two-way valves 1/2" M, Kvs=1.6 (2 pipes) MVX22R = electro-thermal ON/OFF actuator, 230 V, 140 N 54304-01 = casing for VSX13	KIT VALV 2V: VSX13+ MVX22R+ 54304-01	All