



**SABIANA**  
IL CLIMA AMICO

A leading brand of  AFG



# Carisma CRR

## Fan Coil Unit with Tangential Fan with Asynchronous Motor

**R**ange includes **4 air flow rates** (from 110 to 500 m<sup>3</sup>/h) and **1 model**, vertical for wall installation, equipped with 2 row coil.

**T**he **CRR** series was created to offer a **residential** fan coil with a sophisticated design and low depth (**183 mm**) and a specially silent tangential fan assembly.

# Technical characteristics of the main components:

**Outer casing:** made with strong synthetic lateral corners and from galvanized and pre-painted front steel panel. The plastic top grid has fixed louvres and is reversible in order to distribute the air in two different directions.

**Standard colours:**

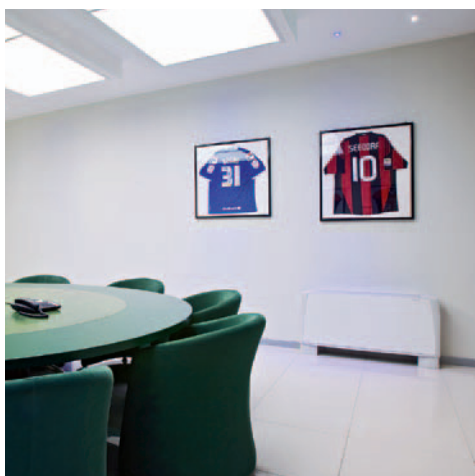
- Lateral corners and top grid:  
**Pantone Cool Grey 1C (light grey)**
- Front panel: **RAL 9003 (white)**
- Other colours on request.

**Inner casing:** made from galvanized steel insulated with polyolefin (PO) foam (class M1).

**Filter:** polypropylene cellular fabric regenerating filter. The filter frame of galvanized steel is inserted into special plastic sliding guides fastened to the internal structure for easy insertion and removal of the filter. Filter presence is highlighted by a plastic front cover featuring the same colour as the top grid.

**Fan assembly:** the tangential fan assembly is composed of two fan shrouds: an external one in ABS and an internal one of perforated, shaped steel. The fan has an external diameter of 120mm and is the length of the coil. The fins are concave and are positioned in a spiral shape along the whole length of the fan.

**Electric motor:** the motor is wired for single phase and has six speeds, three of which are connected, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings. Internal thermal protection with automatic reset, protection IP 20, class B.



**Coil:** it is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process. The coil has two 1/2inch BSP internal connections and 1/8 inch BSP air vent and drain. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

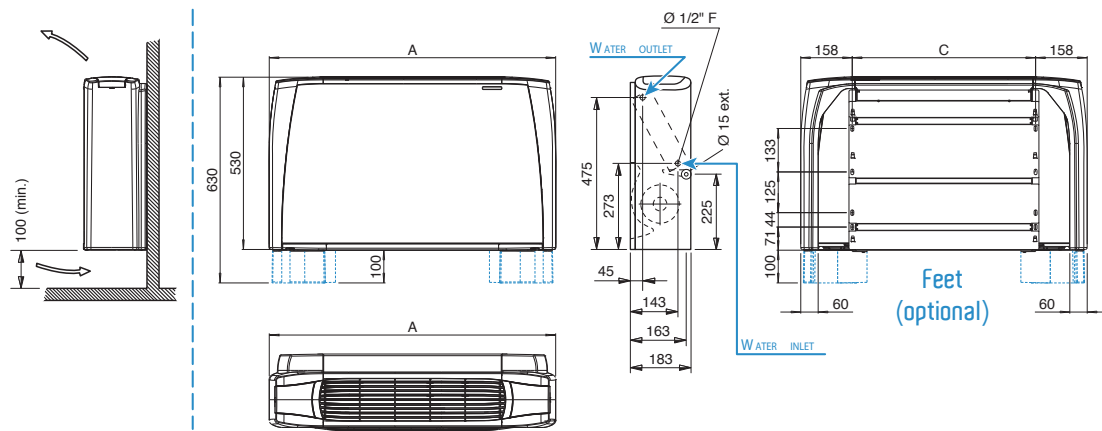
**Flow and return pipe connections are situated at the same end on the left side looking at the unit. On request we can deliver the unit with the connections on the right end side: this must be specified on the order as this operation can not be carried out on site during installation.**

**Condensate collection tray:** made from plastic fitted on the inner casing. The outside diameter of the condensate discharge pipe is 15 mm.



# Dimensions, Weight, Water content

## MU model



## Dimension (mm)

MODEL	1	2	3	4
A	670	770	985	1200
C	354	454	669	884

## Weight (kg)

MODEL	WEIGHT WITH PACKAGING				WEIGHT WITHOUT PACKAGING			
	1	2	3	4	1	2	3	4
	13,8	14,7	17,6	22,2	12,6	13,2	15,6	19,7

## Water content (litres)

MODEL	1	2	3	4
	0,4	0,5	0,8	1,1

## Units with 2 row coil

**2 pipe units.** The following standard rating conditions are used:

### COOLING (summer mode)

Entering air temperature: +27°C d.b. +19°C w.b.  
Water temperature: +7°C E.W.T. +12°C L.W.T.

### HEATING (winter mode)

Entering air temperature: +20°C  
Entering water temperature: +50°C

Water flow rate as for the cooling conditions

MODEL		CRR 1			CRR 2			CRR 3			CRR 4		
		1 (E)	2 (E)	3 (E)	1 (E)	2 (E)	3 (E)	1 (E)	2 (E)	3 (E)	1 (E)	2 (E)	3 (E)
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Speed													
Air flow	m <sup>3</sup> /h	110	150	180	160	200	250	230	290	360	320	400	500
Cooling total emission (E)	kW	0,63	0,78	0,87	0,95	1,10	1,30	1,31	1,59	1,87	2,00	2,40	2,80
Cooling sensible emission (E)	kW	0,50	0,60	0,70	0,71	0,86	1,01	1,08	1,31	1,53	1,40	1,71	2,05
Heating (E)	kW	0,80	1,00	1,20	1,13	1,32	1,60	1,80	2,20	2,60	2,50	3,00	3,60
Heating - Water 70-60°C	kW	1,40	1,78	2,03	1,91	2,25	2,69	3,02	3,80	4,57	4,22	5,08	6,12
Dp Cooling (E)	kPa	6,0	9,0	11,0	11,5	15,5	20,0	4,4	6,3	7,8	11,0	14,5	20,0
Dp Heating (E)	kPa	4,0	5,5	7,0	9,5	12,5	16,5	4,0	5,0	7,0	10,5	14,1	18,8
Fan (E)	W	20	22	28	20	22	27	22	26	31	25	30	36
Sound power (E)	dB(A)	34	37	42	34	39	45	34	39	45	34	40	46
Sound pressure (★)	dB(A)	25	28	33	25	30	36	25	30	36	25	31	37

(E) = Eurovent certified performance.

MIN-MED-MAX = Standard connected speeds.

(★) = The sound pressure levels are 9 dB(A) lower than the sound power levels and apply to the reverberant field of a 100 m<sup>3</sup> room and a reverberation time of 0.5 sec.

## Electronic controls included

<b>CB</b>	3 speed control
<b>CB-T</b>	3 speed control with electronic thermostat and manual summer/winter switch
<b>CB-C</b>	3 speed control with electronic thermostat and centralized summer/winter switch
<b>CB-AU</b>	Automatic 3 speed control with electronic thermostat and summer/winter switch

## Wall electronic controls

### FreeSabiana wireless control system

#### Free-Com

Remote control to be used with electronic boards described at Page 229

The descriptions and illustrations provided in this publication are not binding: Sabiana reserves the right, whilst maintaining the essential characteristics of the types described and illustrated, to make, at any time, without the requirement to promptly update this piece of literature, any changes that it considers useful for the purpose of improvement or for any other manufacturing or commercial requirements.



**SABIANA**  
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Sabiana s.p.a. • via Piaue, 53 • 20011 Corbetta • Milano • Italy

phone +39.02.97203.1 r.a. / +39.02.97270429 / +39.02.97270576

fax +39.02.9777282 / +39.02.9772820

[www.sabiana.it](http://www.sabiana.it) • [info@sabiana.it](mailto:info@sabiana.it)