

# > FCS-C

## FAN COIL CASSETTE TYPE



### Units Series

#### Unit type

- 2T 2 pipes systems
- 4T 4 pipes systems

#### Unit version

Standard control wire

### Unit specifications

The cassette type fan coil unit is a terminal for the treatment of room air in the summer season (coil supplied with cold water) and in winter (coil supplied with hot water). These units are suitable for indoor installation, very compact and amply configurable to meet the requirements of highly qualified designers.

The centrifugal-axial fan allows the intake and outlet side of the 4 outputs contained to reduce the noise levels.

The careful design of the main components, refined styling and the versatility of the product make it suitable for any type of installation in the residential, commercial or industrial context.

Installation therefore only requires the electrical and hydraulic connections.

### Construction characteristics of versions

- **SUPPORT STRUCTURE:** in galvanized steel sheet, insulated externally and internally to prevent heat loss and condensation.
- **HEAT EXCHANGE COIL:** made with copper pipes arranged in staggered rows and with corrugated aluminium finning, locked by mechanical expansion of the pipes.
- **FRONT GRILL:** in thermoplastic material, consisting of an attractively designed inlet grill complete with filter and four air-flow diverting fins. Intake occurs in the middle part of the grill, whereas delivery occurs through the manually-adjustable perimeter slots.
- **AIR FILTER:** situated inside the inlet grill and easily removed, it is made from regenerable materials, cleanable simply by washing.
- **CONDENSATE TRAY:** in plastic material, of considerable capacity complete with condensate drain pipe sized for elimination of the water even in critical conditions. A device that raises the condensate from the collection tray to the drain level is fitted standard.
- **FAN MOTOR:** no.1 directly coupled type, the unit is equipped with a three-speed motor with internal thermal protection and a mixed flow fan (axial-centrifugal) in plastic material. Single-phase power supply T=230V.
- **ELECTRIC BOX:** fitted outside the unit.

### Installation options

The units have pre-cut side openings allowing the unit to be connected by means of a intake duct to a grill for external air change, or conveying treated air to an adjoining room.

### Main accessories/Options

- Remote switch
- Remote standard thermostat
- Remote advanced thermostat
- Hot-start consent thermostat
- 4XUT system
- Main coil 3-way valve
- Supplementary coil 3-way valve

MODELS		04	08	10	12	16	21	04-4T	10-4T	21-4T	UM	
Version		2 pipes						4 pipes			-	
Cooling Capacity (*) (E)	min	1550	1900	2850	3400	3700	4050	1450	2600	3800	W	
	med	1800	2900	3500	4500	5500	6600	1650	3250	6800	W	
	max	2400	4000	4700	6300	7200	8700	2200	4100	8200	W	
Water flow rate (*)		0.11	0.19	0.22	0.30	0.34	0.42	0.11	0.20	0.39	l/s	
Water pressure drop (*) (E)		10.4	13.1	19.2	23.1	11.8	16.5	14.4	13.5	32.7	KPa	
Heating Capacity (**) (E)	min	2200	2500	3700	4500	4600	5200	-	-	-	W	
	med	2500	4000	4600	6000	7400	9300	-	-	-	W	
	max	3200	5000	6200	8110	10000	11600	-	-	-	W	
Water flow rate (**)		0.11	0.19	0.22	0.30	0.34	0.42	-	-	-	l/s	
Water pressure drop (**) (E)		10.3	13.8	16.2	18	10.6	14.6	-	-	-	KPa	
Heating Capacity (***) (E)	min	-	-	-	-	-	-	1240	5000	7300	W	
	med	-	-	-	-	-	-	1440	5800	11500	W	
	max	-	-	-	-	-	-	1900	6800	14500	W	
Water flow rate (***)		-	-	-	-	-	-	0.05	0.16	0.35	l/s	
Water pressure drop (***) (E)		-	-	-	-	-	-	30.7	29.5	19.9	KPa	
Supply		230-1-50										V-F-Hz
Air flow rate	min	360	320	485	530	500	600	360	485	600	m <sup>3</sup> /h	
	med	450	505	625	720	825	1080	450	625	1080	m <sup>3</sup> /h	
	max	660	735	900	980	1160	1450	660	900	1450	m <sup>3</sup> /h	
Sound power level (SWL) (E)	min	32	32	42	34	37	40	32	42	40	dB(A)	
	med	37	44	48	40	46	52	37	48	52	dB(A)	
	max	47	52	57	47	53	59	47	57	59	dB(A)	
Sound pressure level (SPL)	min	23	23	33	25	28	31	23	33	31	dB(A)	
	med	28	35	39	31	37	43	28	39	43	dB(A)	
	max	35	43	48	38	44	50	38	48	50	dB(A)	
Motor input power (E)	min	25	16	35	27	33	43	25	35	43	W	
	med	35	32	55	39	59	90	35	55	90	W	
	max	58	54	94	63	85	123	58	94	123	W	
N° fan		1										n°
grille weight		2.5	2.5	2.5	5.0	5.0	5.0	2.5	2.5	5.0	Kg	
Unit weight		15.0	16.5	16.5	37.0	39.6	39.6	16.5	19.0	39.6	Kg	
Water connection main coil		3/4	3/4	3/4	1	1	1	3/4	3/4	1	" F	
Water connection only heating coil		-	-	-	-	-	-	1/2	1/2	3/4	" F	
Condensation draining connections		16	16	16	16	16	16	16	16	16	mm	

**NOTES:**

\* Room Air T=27°C D.B. / 19°C W.B. , IN/OUT water 7°/12°C, nominal air flow-rate; For medium and minimum fan speed, water delivery as in maximum speed.

\*\* Room Air T=20°C D.B. , inlet water 50°C, water delivery as in cooling.

\*\*\* Room Air T=20°C D.B. , IN/OUT water 70°/60°C, nominal air flow-rate; for medium and minimum fan speed, water delivery as in maximum speed.

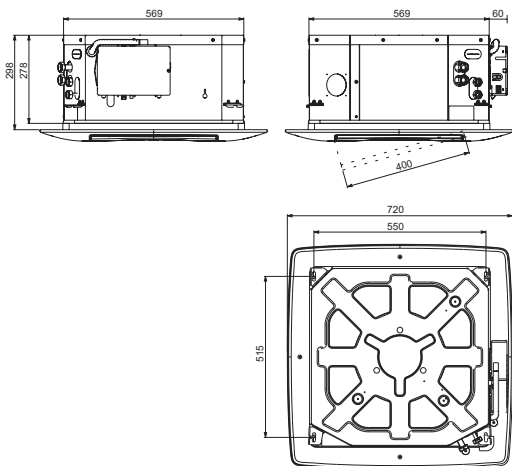
**SWL** : Sound power levels, referred to 1x10-12 W in dB(A), measured in accordance with Standard ISO 9614 and certified according to the Eurovent certification programme. Eurovent certification (E) only refers to the Total Sound Power in dB(A) which is therefore the only binding acoustic data.

**SPL** : sound pressure in a 100 m3 place with reverberation time of 0.5 seconds.

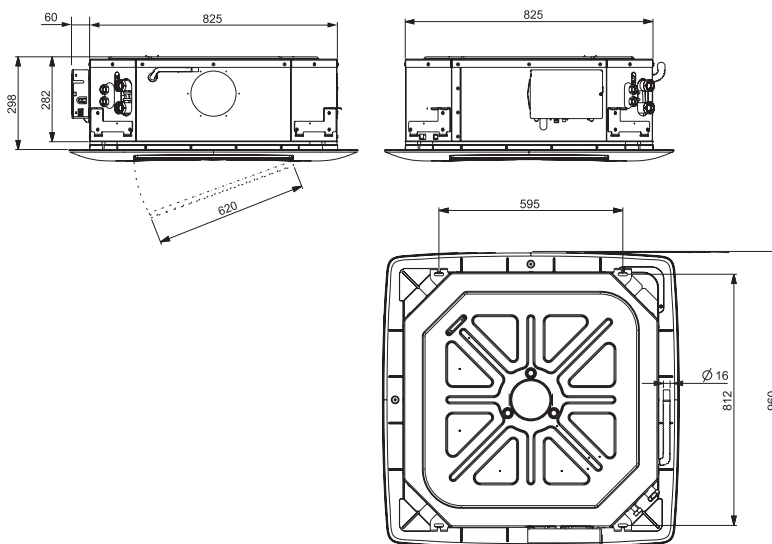
**(E)** Declared data according to the certification programme LCP EUROVENT

**Overall dimensions**

Mod. 04-08-10



Mod. 12-16-21





### TOP FAN remote control specifications

Remote control with LCD display complete with support bracket for wall fixing. enabling the following functions:

**Unit ON/OFF**

**Operation mode selection**

- Auto, Heat, Cool, Fan (only if the valve accessory is present)

**Ventilation speed**

- Max, Med, Min, Auto

**Set Point**

**Timer**

The remote control display shows:

**Operation mode**

**Selected fan speed**

**Set point value**

**Timer activation**

**Time setting**



**Also available for VHF3**

### FCS remote control specifications

Remote control with LCD display complete with support bracket for wall fixing. enabling the following functions:

**Unit ON/OFF**

**Operation mode selection**

- Auto, Heat, Cool, Fan (only if valve accessory is present)

**Ventilation speed**

- Max, Med, Min, Auto

**Set-Point**

**Air Sweep for air flow adjustment**

**Timer**

The remote control display shows:

**Operation mode**

**Selected fan speed**

**Set point value**

**Timer activation**

**Time setting**

**Signal sent symbol**

**Fin position**



### Exposed TOP FAN fan coil receiver

Positioned on the front panel of the unit, it is complete with Timer LED (yellow), On LED (green) and emergency ON/OFF button and reception zone.

The system is completed with the board inside the unit. The system is supplied already factory-tested and installed.



### Ceiling concealed TOP FAN wall receiver

The receiver is supplied in case of ceiling concealed units and is positioned exposed on the false ceiling. It is complete with Timer LED (yellow), On LED (green) and emergency ON/OFF button and reception zone.

It comes with a multicore cable (max. length 0.8 m) for quick connection and electronic board for installing on the unit. The system is factory-tested, whereas positioning the receiver is up to the installer.



