

# > FCS

## FAN COIL CASSETTE TYPE



### Units Series

Unit type

FCS 2T 2 pipes systems

FCS 4T 4 pipes systems

### Unit specifications

Fan coil cassette type unit complying with Machine Directive 89/392 EEC and amendments 91/368 EEC, 93/44 EEC, 93/68 EEC, Low-Voltage Directives 72/23 EEC and Electromagnetic Compatibility Directives EMC 89/36 EEC.

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 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 BOARD:** fitted inside the unit for easy access during installation, complete with connectors for quick electrical connections.

### 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](#)
- [Supplementary tray](#)
- [Main coil 3-way valve](#)
- [Heating only supplementary coil](#)
- [Supplementary coil 3-way valve](#)

NB: USE OF THE VALVE/TRAY IS COMPULSORY WHEN THE UNIT IS USED FOR COOLING.

		04	08	10	12	16	20	04-4T	10-4T	20-4T		
<b>Version</b>		<b>2 Pipe</b>						<b>4 Pipe</b>				
Cooling Capacity (*) (E)	max	2400	4000	4700	6300	7600	10000	1900	4000	9800	W	
	med	1800	2850	3500	4500	5100	7100	1430	3050	7300	W	
	min	1550	1900	2850	3400	3170	3900	1230	2500	4100	W	
Water flow rate (*)		0,11	0,19	0,22	0:30	0:36	0:48	0,09	0,19	0,47	l/s	
Water pressure drop(E) (*)		9	12	20	22	14	24	10,8	19,7	30	kPa	
Heating Capacity (**) (E)	max	3800	5000	6600	8700	10800	13900	-	-	-	W	
	med	3000	4090	4800	6300	7300	10000	-	-	-	W	
	min	2600	2410	4050	4700	4300	5400	-	-	-	W	
Water flow rate (**)		0,11	0,19	0,22	0:30	0:36	0:48	-	-	-	l/s	
Heating Capacity (***)	max	7110	9770	11760	14600	18000	24500	1900	4610	9000	W	
	med	5600	8000	8500	10800	13200	17500	1440	3500	7900	W	
	min	4850	4700	7200	8200	8400	9850	1240	2730	5100	W	
Water flow rate (***)		0,17	0,23	0,28	0,35	0,43	0,6	0:05	0:11	0:22	l/s	
Supply		230-150										
Air flow rate	max	660	700	850	1100	1300	1750	660	850	1750	m3/h	
	med	450	490	600	770	910	1220	450	600	1220	m3/h	
	min	360	300	470	550	550	700	360	470	700	m3/h	
Sound power level (SWL) (E)	max	49	54	57	49	56	63	49	58	63	dB(A)	
	med	38	45	48	40	49	55	38	50	55	dB(A)	
	min	33	32	42	34	40	42	33	42	42	dB(A)	
Sound pressure level (SPL)	max	41	46	49	41	48	55	41	50	55	dB(A)	
	med	30	37	40	32	41	47	30	42	47	dB(A)	
	min	25	24	34	26	32	34	25	34	34	dB(A)	
Motor input power	max	70	85	95	85	120	200	70	110	200	W	
	med	45	55	75	51	75	140	45	75	140	W	
	min	35	35	55	33	40	70	35	55	70	W	
N° fan		1	n°									
Unit weight + kit grille		21,5	22,5	22,5	46	48	51	21,5	22,5	51	kg	
Water connection		3/4	3/4	3/4	1	1	1	3/4	3/4	1	"	
Condensation draining connections		25	25	25	25	25	25	25	25	25	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. , IN/OUT water 70°/60°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; Values referred to nominal air flow-rate.

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

**Dimensions**

