

FCX Range



Fan coils

 Ion Plasmacluster

AERMEC
 air conditioning

FCX RANGE

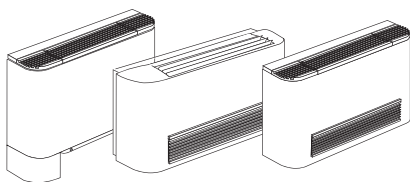
Fan coils

THE AERMEC FAN COILS

Fan coils and Aermec: a combination where the company and trademark identify the products, and vice versa. In this particular air-conditioning sector, Aermec's name is synonymous with "leader": a primary company in Italy, and amongst the first in Europe. A position of leadership resulting from long-term experience consolidated over the years.

WIDE RANGE

The range consists of 14



sizes for various versions, ensuring extreme installation versatility. The complete line of accessories meets every customisation requirement. All the units have been designed taking full advantage of Aermec's multi-year experience, built up from the daily contact with specialised experts. The Aermec fan coils are, in fact, really easy to install in a system. Their unending reliability is guaranteed by Aermec's long-term experience.

EFFICIENT HEATING

Unlike other types of heaters, the low functioning inertia ensures that these fan coils react to air temperature variations immediately. This means a

steady room temperature, even when the conditions change, plus notable energy savings as heat is only supplied when it's needed. At the same time, the continuous control of the supply water temperature prevents irritating cold currents during the winter period.

VERY QUIET OPERATION



FCX fully respects your hearing, as it works with a degree of silence that's at the top of this

category: no clicks or ticking of mechanical parts.



ATTENTION TO HEALTH AND AIR QUALITY

Unique of its kind,



FCX-U CEILING-MOUNTING OR FREE-STANDING VERSION

Offers the possibility to point the air flow in any direction*. The ambient air is taken in through a front grille, making free-standing installation easier when there is little vertical space or when you want to insert the device in a niche. It can also be assembled horizontally, right up against the ceiling. In this case, various types of wall-mounted commands are available.

Available in 2 versions:

- FCX-U = universal free-standing or wall/ceiling mounting
- FCX-UE = universal free-standing or wall/ceiling mounting, with direct expansion coil

*except models 62- 82 and 102.

the U version of the Aermec fan coil is fitted with a head with air distribution fins that can be entirely closed up to prevent the accumulation of dust when the system is unused. When the fins close, the fan coil switches off automatically. FCX version A is now available with the Plasmacluster device: an exclusive system that eliminates bacteria, viruses, mildew, dust mites, pollen and dust. The Plasmacluster purifier restores the correct equilibrium of positive and negative ions in closed environments, freshening up the air and ensuring healthy conditions. Asthma, dermatitis and many breathing problems are often

caused by pollution, dust mites, pollen and pet hair. Plasmacluster guarantees perfectly cleaned air in closed environments, acting as a valid aid against the spread of allergens. In terms of maintenance, the FCX only needs regular cleaning of the air filter (easily removed, then rinsed under running water).

SPEED AND SAVINGS



The FCX fan coil quickly provides the ideal temperature, with healthier, cleaner air and just the right degree of humidity, both in summer and winter. Constant temperature control is guaranteed by the ambient

probe on the protective cabinet. This means the specific temperature can be adjusted for each separate room, bringing considerable energy savings.



SAFETY

Full compliance with accident prevention regulations: the EC mark, the absence of sharp corners, no moving parts within reach, electric connections with double insulation, the impossibility that outer parts may reach dangerous temperatures - these features all help to make Aermec fan coil operation absolutely safe in every type of environment, whether residential or industrial.



FCX-A FREE-STANDING VERSION

It can be installed with or without the feet. The upper air distribution grille is made of sturdy plastic. Easy access to the command panel via the flap next to the grille. The air filter can be easily removed for cleaning. A version is now available with the Plasmacluster device - an exclusive air purifying system.

Available in 5 versions:

- FCX-A = with selector
- FCX-AS = without selector
- FCX-ACB = with simplified electronic thermostat
- FCX-ACT = with automatic electronic thermostat
- FCX-APC = tall, with electronic thermostat and Plasmacluster purifier. Available for models FCX 22-32-42-50-62 and 82.

Aermec. The right climate, always. Now with automatic changeover too.

The new Aermec fan coil command is the best active solution to always have the right climate. The fan coil reacts immediately to any temperature variation, and automatically changes between winter and summer operation. Everything's extremely simple; you don't have to do anything. Just like with the automatic aircon in your car. What will be an optional for the others tomorrow is already available from Aermec*. Today.

* standard on FCX-ACT; accessory for the rest of the range.



CHARACTERISTICS AND ADVANTAGES

Microprocessor control of all system functions

- Maximum automation and regulation capacity (no electro-mechanical activation)
- Greater system reliability (no moving parts)
- No electro-mechanical noises (no ticking relay)

Gradual modulation of the output into the room

- User-friendly (no manual adjustments necessary)
- Automatic speed variation on the basis of the set temperature and room temperature
- Maximum operating economies
- Quick to reach the set temperature, in both heat and cool mode

Automatic season changeover

- No manual configuration for season changeover
- No centralised system command
- Time savings, 100% efficiency
- Reduced installation costs

On-off control from a central unit (boiler/chiller, Idrosplit and Idrobloc)

- Every unit switches on and off automatically, according to the water temperature
- User friendliness, energy savings

“Autotest” function

- Just one quick operation to check the correct working of the unit and the accessories connected to it (probes, valves, etc.)

Delayed ventilation activation

- Ventilation begins when the water reaches the ideal temperature
- Maximum efficiency and effectiveness when heating and/or cooling

“Anti-freeze” function

- Eliminates any risk of the system freezing, even with extremely low outside temperatures

FCX RANGE

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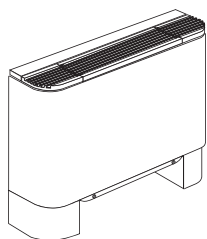
ACCESSORIES

- AMP: kit for wall/ceiling-mounting for FCX U and UE versions
- BC: auxiliary condensate drip tray
- BV: single row hot water coil for 4-pipe systems
- DSC4: condensate discharge device
- PC: sheet metal panel for closing the rear part of the unit.
- RX: armoured electric coil with safety thermostat.
- SE: manually operated fresh air intake damper.
- SIT 3-5: thermostat interface cards. Used to create a network of fan coils (max. 10) commanded from a centralised panel (selector or thermostat).
- SW: water temperature probe that allows automatic season changeover for the electronic thermostats fitted with water side changeover.
- SWA: ambient air probe accessory
- VCF: kit consisting of 3-way motorised valve, copper couplings and pipes. For 3- or 4-row coils, and 1-row coils (BV).
- VCFD: kit consisting of 2-way motorised valve, copper couplings and pipes. For 3- or 4-row coils, and 1-row coils (BV).
- ZX: feet for free-standing installations for models A-AS-ACB-ACT-APC.

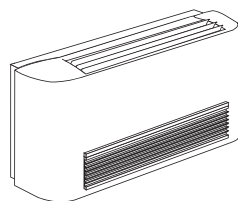
Size data

Mod. FCX		17 A	22 A	32 A	42 A	50 A	62 A	82 A	102 A
Height (with feet)	mm	563	563	563	563	563	688	688	688
Width	mm	640	750	980	1200	1200	1320	1320	1320
Foot height	mm	105	105	105	105	105	125	125	125
Weight (without feet)	kg	13	15	20	24	24	34	34	34

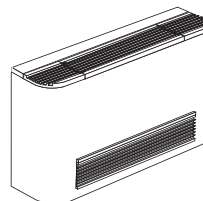
Mod. FCX		17 U	22 U	32 U	42 U	50 U	62 U	82 U	102 U
Height	mm	520	520	520	520	520	590	590	590
Width	mm	640	750	980	1200	1200	1320	1320	1320
Weight	kg	13	15	20	24	24	34	34	34



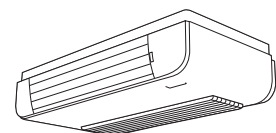
FCX-A



FCX-U 17-22-32-42-50



FCX-U 62-82-102



FCX-U
FCX - UE

Technical data

		FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
Heating capacity	W (max.)	2490	3400	4975	7400	8620	12920	15140	17020
	W (av.)	2070	2700	4085	6415	7530	10940	13350	15240
	W (min.)	1610	1915	3380	5115	5420	8330	10770	12560
Heating capacity (inlet water 50°C)	W (max.) (E)	1360	2100	3160	4240	4900	6460	7990	9670
Electric heater power	W	700	950	1300	1650	1950	2200	2200	2200
Water flow rate	l/h	214	292	427	636	741	1110	1300	1464
Water pressure drop	kPa	2.8	6.3	14.2	14.1	14.2	14.8	19.8	16.6
Total cooling capacity	W (max.) (E)	1000	1500	2210	3400	4190	4860	7420	7620
	W (av.)	890	1330	2055	2800	3640	4660	5500	7140
	W (min.)	720	1055	1570	2310	2840	3950	4710	6270
Sensible cooling capacity	W (max.) (E)	830	1240	1750	2760	3000	3980	5680	5980
	W (av.)	710	1055	1540	2115	2750	3510	4250	4984
	W (min.)	540	755	1100	1635	2040	2825	3450	4263
Water flow rate	l/h	172	258	380	585	721	836	1276	1311
Water pressure drops	kPa	2.6	5.8	16.5	14.3	19.3	11.6	13.5	19.2
Air flow rate	m ³ /h (max.)	200	290	450	600	720	920	1140	1300
	m ³ /h (av.)	160	220	350	460	600	720	930	1120
	m ³ /h (min.)	110	140	260	330	400	520	700	900
Sound pressure	dB (A) (max.)	36.5	41.5	39.5	42.5	47.5	48.5	53.5	57.5
	dB (A) (av.)	29.5	34.5	32.5	35.5	42.5	42.5	48.5	52.5
	dB (A) (min.)	22.5	22.5	25.5	28.5	33.5	33.5	41.5	47.5
Sound power	dB (A) (max.) (E)	45	50	48	51	56	57	62	66
	dB (A) (av.) (E)	38	43	41	44	51	51	57	61
	dB (A) (min.) (E)	31	31	34	37	42	42	50	56
Max. motor power	W (E)	35	25	44	57	67	82	106	131
Max. input current	A	0.16	0.12	0.21	0.28	0.35	0.40	0.49	0.58
3-row coil connections	diam	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
1-row coil connections	diam	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

Power supply = 230V ~ 50Hz (E)

(E) = EUROVENT certified performances



COOLING:

- Room air temperature 27°C D.B., 19°C W.B.;
- maximum speed:
- Water inlet temperature 7°C; Δt water 5°C.
- average and minimum speed:
- Water inlet temperature 7°C;
- Water flow rate as at maximum speed.

HEATING:

- Room air temperature 20°C D.B.;
- maximum speed:
- Water inlet temperature 70°C;
- Δt water 10°C.
- average and minimum speed:
- Water inlet temperature 70°C;
- Water flow rate as at maximum speed.
- maximum speed (water inlet 50°C):
- Water inlet temperature 50°C;
- Water flow rate as in cool mode.