

FCX US

Fan coils
Universal and vertical installations



Aermec adheres to the EUROVENT Certification Program. The products concerned appear in the EUROVENT Certified Products Guide.



- Available in 8 sizes:
FCX US = universal free-standing or wall/ceiling mounting
- EUROVENT certified
- 3-speed fan unit
- Full compliance with safety regulations
- Soft, flowing lines
- Metal cabinet with durable polyurethane coating
- Low noise operation
- Reduced pressure drops across heat exchangers
- Motors with permanently connected condensers
- Easy installation and maintenance
- Air filter easily removed and cleaned

- Accessories:**
AMP: Kit for wall/ceiling mounting.
BC: Auxiliary condensate drip tray.
BV: Single row hot water coil.

- PC:** Rear cover panel.
PXS: Control panel with selector switch.
PTS: Simplified control panel with electronic ambient thermostat for wall installation.

	Compatibility of accessories							
FCX US	17	22	32	42	50	62	82	102
AMP	✓	✓	✓	✓	✓	✓	✓	✓
BC	4	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓	✓	✓	✓
	6						✓	✓
BV	117	✓						
	122		✓					
	132			✓				
	142				✓	✓		
PC	162					✓	✓	✓
	18	✓						
	23		✓					
	33			✓				
	43				✓	✓		
PXS	62					✓	✓	✓
		✓	✓	✓	✓	✓	✓	✓
PTS	✓	✓	✓	✓	✓	✓	✓	✓

Control Panels

PXS

The PXS control panel for FCX US series fancoils can be installed on board the conditioning unit.

The assembly kit comprises the panel, the panel bracket for on-board assembly and electrical connectors.

Each panel controls a single fancoil.

The control panel includes:

- On / Off switch;
- 3-speed fan operation selector.



PTS

The PTS electronic thermostat with basic functions, is a control panel for remote control of FCX US series fancoils.

The panel comprises an electronic thermostat that orders fan operation cut-out when the set ambient temperature has been reached.

Each panel controls a single fancoil.

The control panel includes:

- On / Off switch;
- 3-speed fan operation selector;
- Thermostat with potentiometer;
- Summer / Winter operation switch.



■ = Cooling - ■ = Heating

Model FCX		17 US	22 US	32 US	42 US	50 US	62 US	82 US	102 US
Heating capacity	Btu/h (max.)	6480	8860	12950	19260	22430	33640	39410	44310
	Btu/h (med.)	5390	7030	10650	16700	19600	28490	34750	39680
	Btu/h (min.)	4200	4980	8800	13320	14110	21680	28050	32710
Heating capacity	Watts (max.)	1900	2595	3795	5645	6575	9860	11550	12985
	Watts (med.)	1580	2060	3120	4895	5745	8350	10185	11630
	Watts (min.)	1230	1460	2580	3905	4135	6355	8220	9585
Water flow rate	gpm	0.66	0.99	1.58	2.23	2.75	3.19	4.54	5.01
Water pressure drops	ft. W.C.	0.51	1.14	3.25	2.80	3.78	2.27	2.65	3.76
Total cooling capacity	Btu/h (max.)	3310	4980	7950	11260	13890	16110	22890	25250
	Btu/h (med.)	2950	4400	6810	9280	12060	15440	18220	23660
	Btu/h (min.)	2390	3500	5210	7660	9420	13090	15610	20780
Total cooling capacity	Watts (max.)	970	1460	2330	3300	4070	4720	6710	7400
	Watts (med.)	865	1290	1995	2720	3535	4525	5340	6935
	Watts (min.)	700	1025	1525	2245	2760	3835	4575	6090
Sensible cooling capacity	Btu/h (max.)	2460	3690	5890	8330	10270	11920	16940	18680
	Btu/h (med.)	2190	3260	5030	6870	8920	11430	13480	17500
	Btu/h (min.)	1780	2590	3860	5670	6960	9690	11550	15370
Water flow rate	gpm	0.66	0.99	1.58	2.23	2.75	3.19	4.54	5.01
Water pressure drop	ft. W.C.	0.65	1.46	4.17	3.59	4.85	2.91	3.39	4.82
Air flow rate	cfm (max.)	120	170	265	355	425	540	670	765
	cfm (med.)	95	130	205	270	355	425	550	660
	cfm (min.)	65	80	155	195	235	305	410	530
Fans	no.	1	1	2	2	2	3	3	3
♪ Sound pressure	dB (A) (max.)	37.5	39.5	38.5	42.5	47.5	47.0	52.5	56.5
	dB (A) (med.)	31.5	33.0	32.5	35.5	42.5	40.5	47.5	52.5
	dB (A) (min.)	26.5	23.0	25.5	28.5	33.5	31.5	42.5	46.5
Sound power	dB (A) (max.)	46.0	48.0	48.0	51.0	56.0	55.5	61.0	65.0
	dB (A) (med.)	40.0	41.5	41.0	44.0	51.0	49.0	56.0	61.0
	dB (A) (min.)	35.0	31.5	34.0	37.0	42.0	40.0	51.0	55.0
Water contents	gal	0.15	0.21	0.29	0.39	0.39	0.67	0.67	0.67
Max. motor power	Watts	35	25	44	57	67	82	106	131
Max. input current	Amps	0.32	0.24	0.42	0.56	0.70	0.80	0.98	1.16
Coil connections 3R	ø FPT	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
Coil connections 1R	ø FPT	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

Power supply = 115 V - 1 - 60Hz.

Performance values refer to the following conditions:

♪ Sound pressure measured in an 3000 cu ft semi-reverberant test chamber with reverberation time $T_r = 0.5s$.

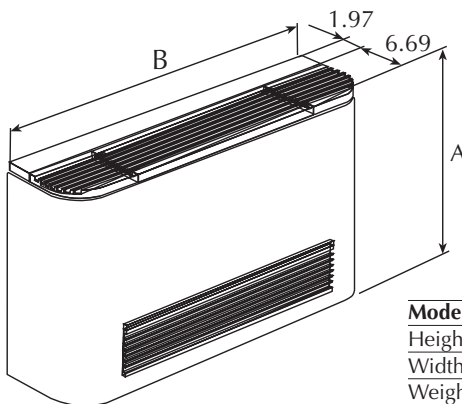
Cooling:

- room air temperature 80 °F (26.7 °C) D.B., 67 °F (19.4 °C) W.B.;
- water inlet temperature 45 °F (7.2 °C); max. speed;
- water Δt 10 °F;
- for medium and low speed, water flow rate remains same as at maximum speed.

Heating:

- room air temperature 70 °F (21.1 °C); R.H. 50%;
- water inlet temperature 140 °F (60 °C); maximum speed;
- water Δt 10 °F;
- for medium and low speed, water flow rate remains same as at maximum speed.

Dimensions (inches)



Model FCX		17 US	22 US	32 US	42 US	50 US	62 US	82 US	102 US
Height	A	19.18	19.18	19.18	19.18	19.18	23.24	23.24	23.24
Width	B	25.21	29.55	32.61	47.28	47.28	52.0	52.0	52.0
Weight	lbs	28.6	33.0	44.0	52.8	52.8	74.8	74.8	74.8

The technical data in this document are not binding. Aermec S.p.A. reserves the right to make whatever modifications it deems necessary to improve the product at any time.

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