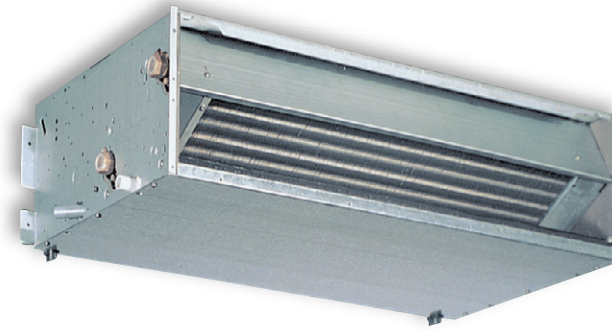


FCX USP

Fan coils
Ductable installations



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



- Available in 8 sizes and 2 versions:
FCX USP = wall/ceiling mounting without cabinet
FCX USPO = wall/ceiling mounting with high power multi speed motor and without cabinet
- Versions with 4-row coil (FCX USP 24, 34, 44, 54, 64 and 84)
- EUROVENT certified
- 3-speed fan unit
- Full compliance with safety regulations
- Low noise operation
- Reduced pressure drops across heat exchangers
- Motors with permanently connected condensers
- Easy installation and maintenance
- Air filter easily removed and cleaned
- Suitable for ducted applications and associated external static pressure

Accessories:

AMP: Kit for wall/ceiling mounting.

BC: Auxiliary condensate drip tray.

BV: Single row hot water coil.

GA: Intake louver with fixed slats.

GAF: Intake louver with fixed slats and filter.

GM: Delivery louver with adjustable slats.

PC: Rear cover panel.

PA: Intake plenum in galvanized steel for circular section ducting.

PM: Delivery plenum in galvanized steel with external insulation, with plastic outlet connections for circular section ducting.

PTS: Simplified control panel with electronic ambient thermostat for wall installation.

RD: Delivery straight duct connection.

RDA: Intake straight duct connection.

RP: Delivery 90° duct connection.

RPA: Intake 90° duct connection.

SE: Manually operated fresh air intake louver.

ZX: Feet for built-in installation.

Control Panel

PTS

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



		Compatibility of accessories							Versions	
		Size								
FCX		17	22 / 24	32 / 34	42 / 44	50 / 54	62 / 64	82 / 84	102	
AMP		✓	✓	✓	✓	✓	✓	✓	✓	all
	4	✓	✓	✓	✓	✓	✓	✓	✓	all
BC	5	✓	✓	✓	✓	✓				all
	6						✓	✓	✓	all
	117	✓								USP
	122		✓							all
BV	132			✓						all
	142				✓	✓				all
	162						✓	✓	✓	all
	17	✓								USP
	22		✓							all
GA	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
GAF	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
GM	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
PA	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
PM	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
PTS		✓	✓	✓	✓	✓	✓	✓	✓	all
	17	✓								USP
	22		✓							all
RD	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
RDA	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
RP	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	17	✓								USP
	22		✓							all
RPA	32			✓						all
	42				✓	✓				all
	62						✓	✓	✓	all
	15X	✓								USP
	20X		✓							all
SE	30X			✓						all
	40X				✓	✓				all
	80X						✓	✓	✓	all
ZX	7	✓	✓	✓	✓	✓				all
	8						✓	✓	✓	all

■ = Cooling - ■ = Heating

Mod.	FCX USP	17	22	24	32	34	42	44	50	54	62	64	82	84	102
Heating capacity	Btu/h (max.)	6480	8860	10290	12950	15235	19260	22380	22430	26290	33640	37225	39410	44530	44310
	Btu/h (med.)	5390	7030	8325	10650	12625	16700	18050	19600	22810	28490	29955	34750	37535	39680
	Btu/h (min.)	4200	4980	5730	8800	10030	13320	13545	14110	16240	21680	22140	28050	29170	32710
Heating capacity	Watts (max.)	1900	2595	3015	3795	4465	5645	6560	6575	7705	9860	10910	11550	13050	12985
	Watts (med.)	1580	2060	2440	3120	3700	4895	5290	5745	6685	8350	8780	10185	11000	11630
	Watts (min.)	1230	1460	1680	2580	2940	3905	3970	4135	4760	6355	6490	8220	8550	9585
Water flow rate	gpm	0.66	0.99	1.13	1.58	1.84	2.23	2.92	2.75	3.48	3.19	4.17	4.54	5.65	5.01
Water pressure drops	ft. W.C.	0.51	1.14	0.59	3.25	1.76	2.80	5.10	3.78	6.86	2.27	4.51	2.65	4.70	3.76
Total cooling capacity	Btu/h (max.)	3310	4980	5715	7950	9280	11260	14740	13890	17555	16110	21035	22890	28490	25250
	Btu/h (med.)	2950	4400	4965	6810	8120	9280	12525	12060	15795	15440	18290	18220	25180	23660
	Btu/h (min.)	2390	3500	3805	5210	6790	7660	9845	9420	11995	13090	14910	15610	20780	20780
Total cooling capacity	Watts (max.)	970	1460	1675	2330	2720	3300	4320	4070	5145	4720	6165	6710	8350	7400
	Watts (med.)	865	1290	1455	1995	2380	2720	3670	3535	4630	4525	5360	5340	7380	6935
	Watts (min.)	700	1025	1115	1525	1990	2245	2885	2760	3515	3835	4370	4575	6090	6090
Sensible cooling capacity	Btu/h (max.)	2460	3690	4235	5890	6875	8330	10900	10270	12990	11920	15560	16940	21085	18680
	Btu/h (med.)	2190	3260	3670	5030	6005	6870	9265	8920	11690	11430	13530	13480	18630	17500
	Btu/h (min.)	1780	2590	2815	3860	5015	5670	7285	6960	8875	9690	11040	11550	15370	15370
Water flow rate	gpm	0.66	0.99	1.13	1.58	1.84	2.23	2.92	2.75	3.48	3.19	4.17	4.54	5.65	5.01
Water pressure drops	ft. W.C.	0.65	1.46	0.75	4.17	2.26	3.59	6.53	4.85	8.79	2.91	5.78	3.39	6.03	4.82
Air flow rate	cfm (max.)	120	170	170	265	265	355	355	425	425	540	540	670	670	765
	cfm (med.)	95	130	130	205	205	270	270	355	355	425	425	550	550	660
	cfm (min.)	65	80	80	155	155	195	195	235	235	305	305	410	410	530
Fans	no.	1	1	1	2	2	2	2	2	2	3	3	3	3	3
♪ Sound pressure	dB (A) (max.)	37.5	39.5	41.5	38.5	39.5	42.5	42.5	47.5	47.5	47.0	48.5	52.5	52.5	56.5
	dB (A) (med.)	31.5	33.0	34.5	32.5	32.5	35.5	35.5	42.5	42.5	40.5	42.5	47.5	47.5	52.5
	dB (A) (min.)	26.5	23.0	22.5	25.5	25.5	28.5	28.5	33.5	33.5	31.5	33.5	42.5	42.5	46.5
Sound pressure FCX PO	dB (A) (max.)	-	-	49.5	-	44.0	-	50.0	-	50.5	-	53.5	-	55.5	-
Sound power FCX PO	dB (A) (max.)	-	-	58.0	-	52.5	-	58.5	-	59.0	-	62.0	-	64.0	-
	dB (A) (med.)	46.0	48.0	50.0	48.0	48.0	51.0	51.0	56.0	56.0	55.5	57.0	61.0	61.0	65.0
	dB (A) (min.)	40.0	41.5	43.0	41.0	41.0	44.0	44.0	51.0	51.0	49.0	51.0	56.0	56.0	61.0
Sound power	dB (A) (max.)	35.0	31.5	31.0	34.0	34.0	37.0	37.0	42.0	42.0	40.0	42.0	51.0	51.0	55.0
	dB (A) (med.)	35.0	31.5	31.0	34.0	34.0	37.0	37.0	42.0	42.0	40.0	42.0	51.0	51.0	55.0
	dB (A) (min.)	35.0	31.5	31.0	34.0	34.0	37.0	37.0	42.0	42.0	40.0	42.0	51.0	51.0	55.0
Water contents	gal	0.15	0.21	0.26	0.29	0.40	0.39	0.50	0.39	0.50	0.67	0.90	0.67	0.90	0.67
Max. motor power	Watts	35	25	54	44	97	57	111	67	82	82	97	106	135	131
Max. input current	Amps	0.32	0.24	0.50	0.42	0.90	0.56	1.02	0.70	0.72	0.80	0.96	0.98	1.24	1.16
	ø (4R)	-	-	3/4"	-	3/4"	-	3/4"	-	3/4"	-	3/4"	-	3/4"	-
	ø (3R)	1/2"	1/2"	-	1/2"	-	3/4"	-	3/4"	-	3/4"	-	3/4"	-	3/4"
Coil connections (FPT)	ø (1R)	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 Tr = 0.5s.

Cooling:

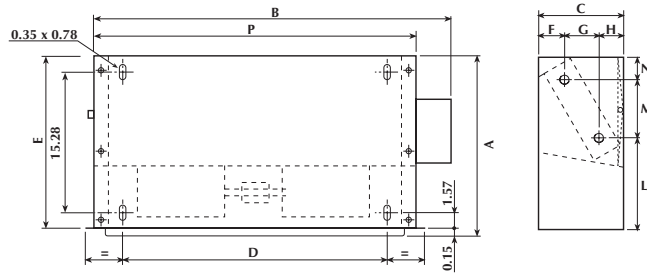
- room air temperature 80 °F (26.7 °C) D.B., 67 °F (19.4 °C) W.B.;
- water inlet temperature 45 °F (7.2 °C); max. speed;
- water Dt 10 °F;
- for medium and low speed, water flow rate remains same as at maximum speed.

Heating:

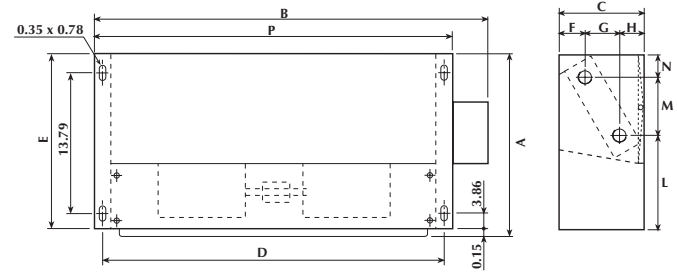
- room air temperature 70 °F (21.1 °C); R.H. 50%;
- water inlet temperature 140 °F (60 °C); maximum speed;
- water Dt 10 °F;
- for medium and low speed, water flow rate remains same as at maximum speed.

Dimensions (inches)

FCX USP 17 - 22 - 32 - 42 - 50

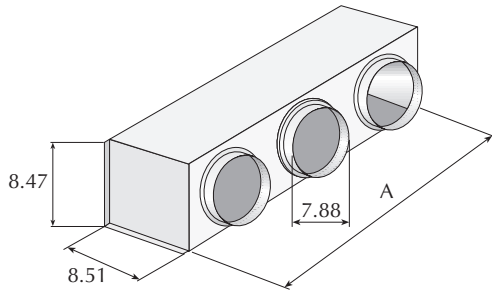


FCX USP 62 - 82 - 102



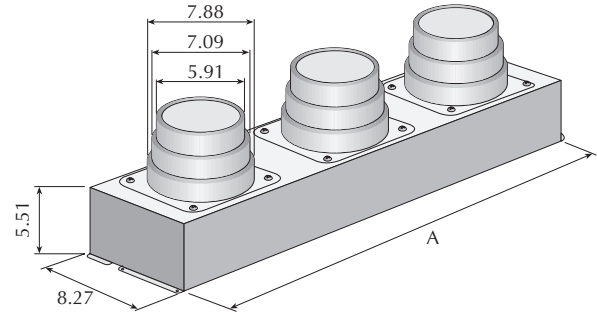
FCX USP	17	22 - 24	32 - 34	42 - 44	50 - 54	62 - 64	82 - 84	102
A	18	18	18	18	18	22.14	22.14	22.14
B	17.8	22.14	31.24	39.91	39.91	44.73	44.73	44.73
C	8.51	8.51	8.51	8.51	8.51	8.51	8.51	8.51
D	13	17.33	26.43	35.10	35.10	43.42	43.42	43.42
E	17.84	17.84	17.84	17.84	17.84	21.98	21.98	21.98
F	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
G	3.98	3.98	3.98	3.98	3.98	4.21	4.21	4.21
H	2.91	2.91	2.91	2.91	2.91	2.68	2.68	2.68
L	10.24	10.24	10.24	10.24	10.24	10.75	10.75	10.75
M	5.67	5.67	5.67	5.67	5.67	9.97	9.97	9.97
N	1.93	1.93	1.93	1.93	1.93	1.26	1.26	1.26
P	16.23	20.56	29.67	38.33	38.33	44.2	44.2	44.2
Weight (lbs)	24.2	28.6	39.6	48.4	48.4	72.6	72.6	72.6

PA - INTAKE PLENUM



PA	17	22	32	42	62
A	15.36	19.7	28.8	37.47	42.23
Nozzles	1	2	2	3	4

PM - DELIVERY PLENUM



PM	17	22	32	42	62
A	18	18	18	18	18
Nozzles	1	2	2	3	4

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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