

FCX US

Fan Coils
 Universal and floor installation
 Vertical and horizontal

R410A

Aermec participate in the EUROVENT program: LCP/A/P/C the products are present on the site

Variable Multi Flow

VMF



FEATURES:

FCX-US: universal floor or wall ceiling mounting, Grille with fixed fins.
FCX-US E: universal floor or wall ceiling mounting with direct expansion coil. Grille with fixed fins.

Characteristics

- Available in 9 sizes and 2 versions
- Version with 3-row coil (FCX 17, 22, 32, 42, 50, 62, 82 and 102)
- Versions with 4-row coil (FCX 24, 34, 44, 54, 64 and 84)
- EUROVENT, ETL Certification
- 3-speed ventilating unit
- Full compliance with the accident prevention standards
- Broad range of controls
- Metallic protective cabinet with rust proofing polyester paint
- Quiet operation
- Electric motors with permanently inserted condensers
- Ease of installation and maintenance
- Air filter easy to remove and clean
- Extractable shrouds for easy, effective cleaning
- Water connections can be reversed during installation phase

Accessories

- **AMP:** kit for wall mounting installation of versions FCX US
 - **BC:** Auxiliary condensate drip tray. Use the BC 5-6 tray accessory for horizontal, or BC 4 if vertical.
 - **BV:** Single row hot water coil. Not available for 4-row versions.
 - **VCF:** the kit contains a motorized 3-way valve with insulating shell, plus coupling and pipes in insulated cooper. For 3, 4-row and 1-row coils(BV). Versions with 24V power supply.
 - **VCFD:** the kit contains a powered 2-way valve, cooper couplings and pipes. For 3, 4-row and 1-row coils (BV). Versions with 24V power supply.
 - **VCF_X4L** Valve kit for left hand connection fan coil units
 - **VCF_X4R** Valve kit for right hand connection fan coil units
- The valve kits are designed for fan coil units with single coil, installed in a 4 pipe system with the "Cooling" and "Heating" circuits totally separated. The kit consists of 2 valves of 3-way 4 port connection complete with electro-thermal actuators, insulating shells for the valves and associated hydraulic piping. Available in 24V.
- **Control panels:** Available in 24V and 120V power supply (contact Aermec office for compatibility)



FCX US - TECHNICAL DATA

Mod.	FCX US - (3 row)		17	22	32	42	50	62	82	102
* Heating capacity	max.	[Btu/hr]	8503	11612	16991	25272	29439	44124	51706	58126
	med.	[Btu/hr]	7069	9221	13951	21908	25716	37362	45593	52047
	min.	[Btu/hr]	5498	6540	11543	17469	18510	28448	36781	42895
** Heating capacity (water in 50°C / 122°F)		[Btu/hr]	4952	7172	10792	14480	17691	24214	27287	35108
Water flow		[gpm]	0.94	1.29	1.88	2.80	3.26	4.89	5.72	6.45
* Water pressure drops		[ft. wg]	0.94	2.11	4.76	4.72	4.76	4.96	6.64	5.56
* Total cooling capacity	max.	[Btu/hr]	3415	5123	8196	11612	14310	16598	23599	26024
	med.	[Btu/hr]	3040	4542	7018	9563	12431	15915	18783	24384
	min.	[Btu/hr]	2459	3603	5362	7889	9699	13490	16085	21413
* Sensible cooling capacity	max.	[Btu/hr]	2835	4235	6489	9426	10246	14480	17076	18886
	med.	[Btu/hr]	2425	3603	5259	7223	9392	11987	14515	17021
	min.	[Btu/hr]	1844	2578	3757	5584	6967	9648	11782	14559
* Water flow		[gpm]	0.76	1.14	1.82	2.58	3.17	3.68	5.24	5.77
* Water pressure drops		[ft wg]	0.87	1.94	5.56	4.79	6.47	3.89	4.52	6.43
Air flow	max.	[cfm]	118	171	265	353	424	541	671	765
	med.	[cfm]	94	129	206	271	353	424	547	659
	min.	[cfm]	65	82	153	194	235	306	412	530
Fan number			1	1	2	2	2	3	3	3
Sound pressure level	max.	[dB (A)]	37.5	39.5	38.5	42.5	47.5	47.0	52.5	56.5
	med.	[dB (A)]	31.5	33.0	32.5	35.5	42.5	40.5	47.5	52.5
	min.	[dB (A)]	26.5	23.0	25.5	28.5	33.5	31.5	42.5	46.5
Sound power level	max.	[dB (A)]	46.0	48.0	48.0	51.0	56.0	55.5	61.0	65.0
	med.	[dB (A)]	40.0	41.5	41.0	44.0	51.0	49.0	56.0	61.0
	min.	[dB (A)]	35.0	31.5	34.0	37.0	42.0	40.0	51.0	55.0
Water content		[gal]	0.16	0.21	0.29	0.39	0.39	0.67	0.67	0.67
3R Coil connections	ø		1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
1R Coil connections	ø		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Net weight		[lb]	28.06	33.07	44.09	52.91	52.91	74.96	74.96	74.96

ELECTRICAL DATA

Power supply 1~ 120 V 60 Hz

Max. motor power	[W]	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

Performances refer to following conditions:

- * **Heating:** water in = 158°F ; air in = 68°F ; Δt water = 18 °F maximum fan speed; for medium and minimum fan speed water flow as per maximum speed;
- ** **Heating:** air in = 68°F ; water in = 122°F; maximum fan speed; water flow as in cooling operation;
- * **Cooling:** air in = 81°F d.b.; 66°F w.b.; water in = 45°F ; Δt water = 9°F maximum fan speed; for medium and minimum fan speed water flow as per maximum speed; sound pressure level (weighted A) measured in room with 3002 ft³ volume and reverberation time of 0.5 seconds.

TECHNICAL DATA FCX US (4 ROW)

Mod.	FCX US- (4 row)		24	34	44	54	64	84
* Heating capacity	max.	[Btu/hr]	13490	19979	29370	34493	48837	58340
	med.	[Btu/hr]	10929	16564	23667	29917	39275	49247
	min.	[Btu/hr]	7513	13148	17759	21311	29029	5024
Water flow		[gpm]	1.50	2.21	3.26	3.83	3.83	0.13
* Water pressure drops		[ft wg]	1.34	2.68	7.04	7.37	7.37	10.05
* Total cooling capacity	max.	[Btu/hr]	5891	9563	15198	18100	21686	29371
	med.	[Btu/hr]	5123	8367	12909	16290	18852	25955
	min.	[Btu/hr]	3927	7001	10143	12363	15368	21413
* Sensible cooling capacity	max.	[Btu/hr]	4713	7274	11270	12090	17178	19740
	med.	[Btu/hr]	3893	6110	9296	10590	14327	17131
	min.	[Btu/hr]	2828	4921	7100	7790	11373	13705
* Water flow		[gpm]	1.31	2.12	3.37	4.01	4.80	6.51
* Water pressure drops		[ft wg]	1	3.01	8.71	11.73	7.71	8.04
Air flow	max.	[cfm]	171	265	353	424	541	671
	med.	[cfm]	129	206	271	353	424	547
	min.	[cfm]	82	153	194	235	306	412
Fan number			1	2	2	2	3	3
Sound pressure level	max.	[dB (A)]	41.5	39.5	42.5	47.5	48.5	52.5
	med.	[dB (A)]	34.5	32.5	35.5	42.5	42.5	47.5
	min.	[dB (A)]	22.5	25.5	28.5	33.5	33.5	42.5
Sound power level	max.	[dB (A)]	50	48	51	56	57	61
	med.	[dB (A)]	43	41	44	51	51	56
	min.	[dB (A)]	31	34	37	42	42	51
Peak current		[A]	0.75	1.35	1.53	1.08	1.44	1.86
Water content		[gal]	0.26	0.40	0.50	0.50	9.0	9.0
4R Coil connections		ø	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Net weight		[lb]	29.8	41.9	50.7	50.7	78.3	78.3

ELECTRICAL DATA
Power supply 1~ 120 V 60 Hz

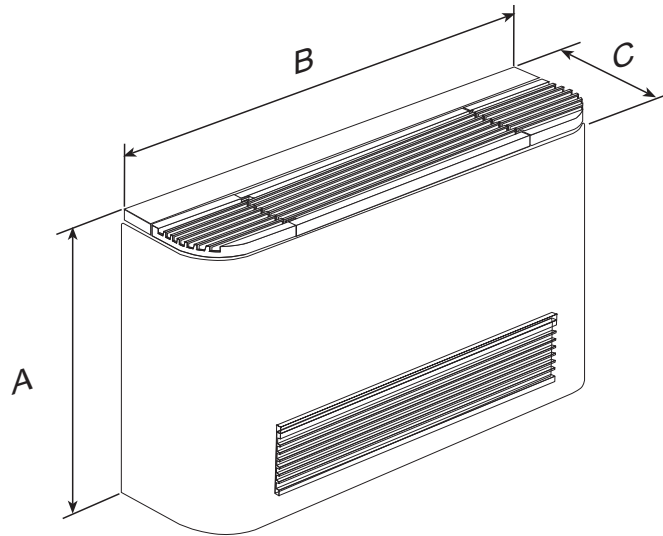
Max. motor power	[W]	54	97	111	82	97	135
Max. input current	[A]	0.25	0.45	0.51	0.36	0.48	0.62

Performance of versions with upgraded motor refers to the following conditions:

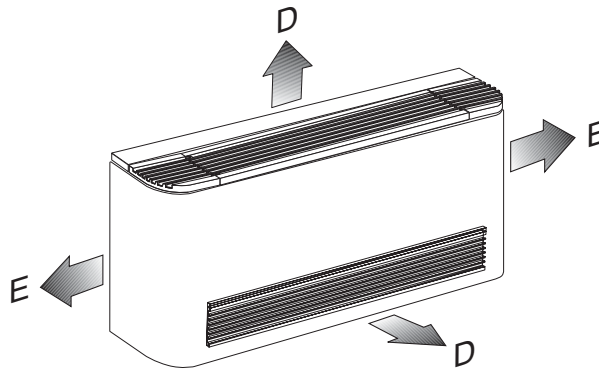
- nominal air flow
 - * fan at maximum speed
 - * **Heating:** inlet water = 158°F; inlet air = 68°F Δ t water = 18°F
 - * **Cooling:** inlet air = 81°F d.b.; 66°F w.b.; inlet water = 45°F ; Δ t water = 9°F
- sound pressure level (weighted A) measured with open port in a room with 3002 ft³ and reverberation time of 0.5 seconds.

DIMENSIONS

FCX - US
 FCX - USE
 FCX - USR
 FCX - USER



MINIMUM TECHNICAL SPACE



Mod. Mod.	FCX 17US	FCX 24US FCX 22US	FCX 34US FCX 32US	FCX 44US FCX 42US	FCX 54US FCX 52US	FCX 64US FCX 62US	FCX 84US FCX 82US	FCX 102US
US measure system								
A [inches]	19.17	19.17	19.17	19.17	19.17	23.23	23.23	23.23
B [inches]	25.20	29.53	38.58	47.24	47.24	51.97	51.97	51.97
C [inches]	8.66	8.66	8.66	8.66	8.66	8.66	8.66	8.66
D [inches]	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94
E [inches]	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97