



Variable Multi Flow®

VMF



Aermec
participate in the EUROVENT
program: FCU
the products are present on the site
www.eurovent-certification.com



Features

Vertical and horizontal installation:

FCX P: Duct installation without cabinet
FCX PPC: Duct installation without cabinet, with Plasmacluster purifier. Compatible with the VMF system, or you can request a combination with the PXAE control panel
FCX PE: Duct installation without cabinet and with direct expansion coil
FCX PO: with boosted motor
 6-speed (3 of which can be selected) up 22 to 82
 7-speed (3 of which can be selected) up 62 to 82
FCX PBV: with 3 row coil +1 in a single shoulder, standard connections (left)
FCX PBVD: with 3 row coil +1 in a single shoul-

der, standard connections (right)

FCX POBV: boosted and with 3 row coil +1 in a single shoulder, standard connections (left)

FCX POBVD: boosted and with 3 row coil +1 in a single shoulder, standard connections (right)

For versions with 3 row +1 battery, the battery is not reversible specify the side of the attacks at the time of the order.

- Vertical installation:

FCX PV: Duct installation without cabinet

- Versions with 3/4-row coil
- 3-speed ventilating unit
- Compatible with the VMF system
- Wide range of controls and accessories

• Quiet operation

- Low loss of charge in batteries
- Electric motors with permanently inserted condensers
- Ease of installation and maintenance
- Air filter easy to remove and clean
- Possibility of a residual head for ducting (if required)
- Internal insulation and air filter in fire resistance class 1
- Extractable shrouds for easy, effective cleaning
- Water connections can be reversed during installation phase

VERSION

AVAILABLE SIZES

VERSION	Versions with 3 row coil										Versions with 4 row coil					
	17	22	32	36	42	50	56	62	82	102	24	34	44	54	64	84
FCX P	17	22	32	36	42	50	56	62	82	102	24	34	44	54	64	84
FCX PV	17	22	32	36	42	50	56	62	82	-	24	34	44	54	64	84
FCX PO	-	22	32	36	42	50	56	62	82	-	-	-	-	-	-	-
FCX PE	-	22	32	-	42	50	-	62	82	102	-	-	-	-	-	-
FCX PPC	-	22	32	36	42	50	56	62	82	-	24	34	44	54	64	84
FCX PBV	17	22	32	36	42	50	56	62	82	102	-	-	-	-	-	-
FCX PBVD	17	22	32	36	42	50	56	62	82	102	-	-	-	-	-	-
FCX POBV	-	22	32	36	42	50	56	62	82	-	-	-	-	-	-	-
FCX POBVD	-	22	32	36	42	50	56	62	82	-	-	-	-	-	-	-

Accessories

- **AMP:** Kit for overhang installation.
- **BC:** Auxiliary condensate drip tray.
- **BV:** 1-row hot water coil. Not available for 4-row versions or those with Plasmacluster.
When mounted in place, you must specify the connection side
- **CHF:** VentilCassaforma is a galvanised metal template that allows you to create a space directly in the wall for housing the fan coil. (For FCX P - PV only).
- **DSC4:** Condensate drainage device for use when natural run-off is not possible.
- **GA:** Intake grille with fixed fins.
- **GAF:** Intake grille with fixed fins and filter.
- **GM:** Delivery grille with adjustable fins.
- **MA:** A-type covering cabinet (use tray accessory BC 4 for FCX AS).
- **MU:** U-type covering cabinet (use the BC 5-6 tray accessory if horizontal, or BC 4 if vertical).
- **PCR:** Galvanised plate protection for the controls and the electrical element.
- **PA:** Plenum suction assembly in galvanised sheet metal, complete with suction couplings for circular-section ducts.
- **PA-F:** Plenum suction assembly that allows intake and delivery on the same side; suitable for all installations where the machine needs to be positioned outside the air-conditioned

rooms in order to minimise noise levels and facilitate maintenance operations.

- **PM:** Delivery plenum in galvanised sheet metal, externally insulated, complete with plastic delivery couplings for circular section ducts.
- **RD:** Straight delivery coupling for canalisation.
- **RDA:** Straight suction coupling for canalisation.
- **RP:** 90° delivery coupling for canalisation.
- **RPA:** 90° suction coupling for canalisation.
- **RX:** Armoured electric coil with safety thermostat. (Requires a thermostat with heater management). Not available for 4-row versions or those with Plasmacluster.
- **SE:** Manually operated fresh air intake louver.
- **SIT 3 - 5:** Thermostat Interface Cards. They allow the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat).
- **SIT3:** commands the 3 fan speeds and must be installed on each fan coil of the network; receives the commands from the selector or the SIT5 card.
- **SIT5:** commands the 3 fan speeds and up to 2 valves (four pipes systems); sends the commands of the thermostat to the fan coils network.
- **SW:** water temperature probe that gives the automatic season change feature to electronic thermo-

stats supplied with water-side change over.

- **SWA:** External probe accessory SWA (length L = 6m). It detects the temperature of air or water depending on its location in the plant
- **VCF:** the kit contains a motorised 3-way valve with insulating shell, plus coupling and pipes in insulated copper. For 4-row, 3-row and 1-row coils (BV). Versions with 230V and 24V~50Hz power supply
- **VCFD:** Kit consisting of powered 2-way valve, copper couplings and pipes. For 4-row, 3-row and 1-row coils (BV). Versions with 230V and 24V~50Hz power supply.
- **VCF_X4:** 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. VCF1X4L Valve kit for left hand connection fan coil units. VCF1X4R Valve kit for right hand connection fan coil units. Power supply: 230V ~ 50Hz.
- **ZX:** Feet for recessed installation.
- **Control panels and VMF System:** the characteristics are described on the appropriate card.

FCX Fan Coil																Versions	
Accessories	17	22	24	32	34	36	42	44	50	54	56	62	64	82	84	102	
SE	15X (4)	•															P-PE-PV
	20X (4)		•	•													P-PE-PO-PV-PPC
	30X (4)			•	•	•											P-PE-PV-PPC
	40X (4)						•	•	•	•	•						P-PE-PO-PV-PPC
	80X (4)											•	•	•	•	•	P-PE-PO-PV-PPC
SIT	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PE-PO-PV
	5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PE-PO-PV-PPC
SW3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
	SWA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
VCF	1X4L - 1X4R	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
	2X4L - 2X4R		•		•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
	3X4L - 3X4R											•	•	•	•	•	P-PO-PV
	41 - 4124 (5)	•	•	•	•												P-PO-PV-PPC
	42 - 4224 (5)		•		•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV-PPC
	43 - 4324 (5)																P-PO-PV-PPC
	44 - 4424 (5)(6)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
	45 - 4524 (5)											•	•	•	•	•	P-PO-PV
	1 - 124 (5)	•	•	•	•												P-PO-PV-PPC
VCFD	2 - 224 (5)		•		•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV-PPC
	3 - 324 (5)											•	•	•	•	•	P-PO-PV-PPC
	4 - 424 (5)(7)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PO-PV
ZX	7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	P-PE-PO-PV-PPC
	8											•	•	•	•	•	P-PE-PO-PV-PPC

(1) the characteristics are described on the appropriate card.

(2) Accessories and BC4 VCF can not be mounted at the same time

(3) DSC4 is incompatible with the accessory AMP and BC Auxiliary condensate drip tray

(4) The accessory SE require pairing with ZX

(5) 24 Volt

(6) Only for the BV1-row coil accessory

Technical data

Mod. FCX_P / FCX_PO	Vel.	17	22	24	32	34	36	42	44	50	54	56	62	64	82	84	102	
HEATING PERFORMANCE (2 PIPE CONFIGURATION)																		
Heating capacity (70°C)	(1) W	H	2296	2960	3912	5354	5964	6413	6618	8600	8191	10100	9648	12919	14300	15140	17100	17019
	(1) W	M	2033	2531	3103	4065	4801	4983	5521	6930	7529	8759	8434	10942	11501	13349	14421	15242
	(1) W	L	1686	1906	2097	3165	3728	4188	4062	5200	5021	6241	6056	8327	8499	10771	11198	12558
Water flow rate	(1) l/h	H	201	260	343	470	523	563	581	754	718	886	846	1133	1254	1328	1500	1493
	(1) l/h	M	178	222	272	357	421	437	484	608	660	768	740	960	1009	1171	1295	1337
	(1) l/h	L	148	167	184	278	327	367	356	456	440	547	531	730	745	945	982	1101
Pressure drop	(1) kPa	H	3	6	4	20	11	13	15	22	15	23	42	17	23	32	43	
	(1) kPa	M	2	4	3	12	7	10	11	15	13	18	33	12	16	23	34	
	(1) kPa	L	1	3	1	8	5	8	6	9	6	9	19	7	9	11	15	24
Heating capacity (50°C)	(2) W	H	1360	1770	2320	3160	3550	3800	3960	4950	4870	6100	5380	7500	8400	7960	10200	10000
	(2) W	M	1200	1510	1840	2400	2860	2950	3300	4140	4480	5220	4840	6430	6800	6860	8600	9000
	(2) W	L	990	1130	1250	2060	2220	2480	2430	3170	3000	3700	3680	4880	5040	5200	6700	7440
Water flow rate	(2) l/h	H	172	258	298	413	482	482	585	765	721	855	791	836	1092	1189	1479	1311
	(2) l/h	M	144	210	236	316	392	370	478	617	604	743	662	752	896	860	1259	1183
	(2) l/h	L	112	144	174	267	303	311	397	463	432	533	475	554	674	738	992	979
Pressure drop	(2) kPa	H	2	6	3	16	9	9	15	23	15	22	22	9	18	21	33	
	(2) kPa	M	2	5	2	10	7	7	13	15	11	17	20	7	13	12	23	27
	(2) kPa	L	1	2	1	7	4	6	8	9	6	9	15	4	8	9	15	19
HEATING PERFORMANCE (4 PIPE CONFIGURATION - with additional heat exchanger)																		
Heating capacity (70°C)	(3) W	H	1400	1770	-	2850	-	-	3460	-	4380	-	-	5490	-	6410	-	6810
	(3) W	M	1200	1510	-	2450	-	-	3410	-	3940	-	-	4700	-	6300	-	6230
	(3) W	L	990	1130	-	2030	-	-	2660	-	3220	-	-	3870	-	5300	-	5430
Water flow rate	(3) l/h	H	123	155	-	250	-	-	303	-	384	-	-	482	-	562	-	6809
	(3) l/h	M	105	132	-	215	-	-	299	-	346	-	-	412	-	553	-	6232
	(3) l/h	L	87	99	-	178	-	-	233	-	282	-	-	339	-	465	-	5428
Pressure drop	(3) kPa	H	3	6	-	16	-	-	21	-	35	-	-	16	-	15	-	19
	(3) kPa	M	2	5	-	12	-	-	20	-	30	-	-	12	-	14	-	16
	(3) kPa	L	2	3	-	8	-	-	14	-	21	-	-	10	-	11	-	13
COOLING PERFORMANCE (2 and 4 PIPE CONFIGURATIONS)																		
Total cooling capacity	(4) W	H	1000	1500	1730	2400	2800	3400	4450	4190	4970	4600	4860	6350	6910	8600	7620	
	(4) W	M	840	1220	1370	1840	2280	2150	2780	3590	3510	4320	3850	4370	5210	5000	7320	6880
	(4) W	L	650	840	1010	1550	1760	1810	2310	2690	2510	3100	2760	3220	3920	4290	5770	5690
Sensible cooling capacity	(4) W	H	830	1240	1380	1900	2130	2200	2760	3300	3000	3540	3500	3980	5030	5680	5780	5530
	(4) W	M	690	1000	1090	1570	1720	1820	2110	2640	2540	3060	3070	3300	4100	3780	4870	5350
	(4) W	L	510	670	760	1110	1250	1280	1630	1960	1790	2170	2120	2440	3060	2970	2800	4420
Water flow rate	(4) l/h	H	172	258	298	413	482	482	585	765	721	855	791	836	1092	1189	1479	1311
	(4) l/h	M	144	210	236	316	392	370	478	617	604	743	662	752	896	860	1259	1183
	(4) l/h	L	112	144	174	267	303	311	397	463	432	533	475	554	674	738	992	979
Pressure drop	(4) kPa	H	2,6	5,8	3	28	13,8	28	14,3	40,2	19,3	25,9	38	17,3	13	22	29,5	37,3
	(4) kPa	M	2	5	2	17	10	17	10	27	14	21	28	14	9	12	22	31
	(4) kPa	L	1,4	2,5	1	13	6	12,7	7	16,3	7,6	11,7	15,1	8,3	5,5	9,3	14,7	22
Air flow rate	m ³ /h	H	200	290	290	450</td												

Mod. FCX_P / FCX_PO	Vel.	17	22	24	32	34	36	42	44	50	54	56	62	64	82	84	102
Max input current	(P) (A)	0,16	0,12	0,25	0,21	0,45	0,21	0,28	0,51	0,35	0,36	0,35	0,4	0,48	0,49	0,62	0,58
	(PO) (A)	-	0,25	0,25	0,45	0,45	0,45	0,51	0,51	0,36	0,36	0,36	0,48	0,48	0,62	0,62	-
Sound power level (P)	(5) dB(A) H	45	50	51	48	48	48	51	55	56	56	57	57	61	61	66	
	(5) dB(A) M	38	43	46	41	41	41	44	50	51	53	51	51	56	57	61	
	(5) dB(A) L	31	31	35	34	36	34	37	41	42	44	42	42	44	51	51	56
Sound pressure level (P)	(6) dB(A) H	37	42	43	40	40	40	43	47	48	48	48	49	49	53	53	58
	(6) dB(A) M	30	35	38	33	33	33	36	42	43	45	43	43	43	48	49	53
	(6) dB(A) L	23	23	27	26	28	26	29	33	34	36	34	34	36	43	43	48
Sound power level (PO)	(5) dB(A) H	-	58	58	53	53	53	59	59	59	59	59	62	62	64	64	-
Sound pressure level (PO)	(6) dB(A) H	-	50	50	44	44	44	50	50	51	51	51	54	54	56	56	-
Water content	I	0,58	0,79	1	1,11	1,5	1,5	1,48	1,9	1,48	1,9	1,9	2,52	3,4	2,52	3,4	2,52
	ø (4R)	-	-	3/4"	-	3/4"	-	-	3/4"	-	3/4"	-	-	3/4"	-	3/4"	-
Coil connections	ø (3R)	1/2"	1/2"	-	1/2"	-	3/4"	3/4"	-	3/4"	-	3/4"	3/4"	-	3/4"	-	3/4"
	ø (1R)	1/2"	1/2"	-	1/2"	-	1/2"	1/2"	-	1/2"	-	1/2"	1/2"	-	1/2"	-	1/2"
	P	H	V3														
Speed connected	P	M	V2														
	P	L	V1														
Power supply																	230V/1/50Hz

H max. speed; M med. speed; L min. speed

■ Heating mode

2 pipes system configuration

(1) Room air temperature 20°C b.s.; Inlet water temperature 70°C; ΔT water 10°C

2 pipes system configuration (EUROVENT)

(2) Room air temperature 20°C b.s.; Inlet water temperature 50°C; Water flow rate as in cooling mode

4 pipes system configuration (with additional heat exchanger) (EUROVENT)

(3) Room air temperature 20°C b.s.; Inlet water temperature 70°C; ΔT water 10°C

■ Cooling mode (EUROVENT)

(4) Room air temperature 27°C b.s./19°C b.u.; Inlet water temperature 7°C; ΔT water 5°C

(5) Sound power level on the basis of measurements made in compliance with Eurovent 8/2

(6) Sound pressure level (A-weighted) measured in the room with volume V=85m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

Note: The speed of associates may differ from the standard factory configuration, for more information refer to the program selection and the technical documentation available on the website www.aermec.com

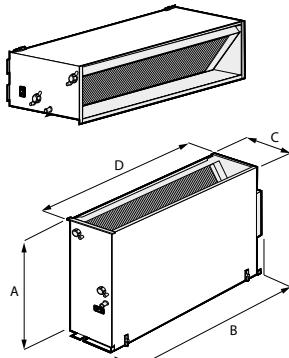
FCX22÷50

Speed					
V1	V2	V3	V4	V5	V6
L6	L5	L4	L3	L2	L1

Speed						
V1	V2	V3	V4	V5	V6	V7
L7	L6	L5	L4	L3	L2	L1

FCX62÷82

Dimensions (mm)



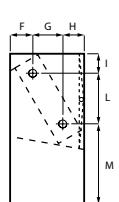
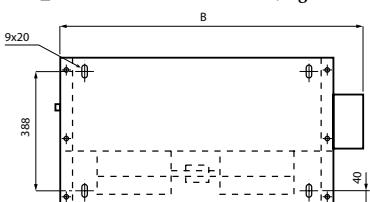
FCX_P (standard coil/augmented coil)

Mod FCX_P	17	22/24	32/34/36	42/44	50/54/56	62/64	82/84	102
Height	A	453	453	453	453	558	558	558
Width	B*	452	562	793	1013	1013	1147	1147
	D	412	522	753	973	973	1122	1122
Depth	C	216	216	216	216	216	216	216
Weight	kg	11	13	18	22	22	33	33

* Overall dimensions

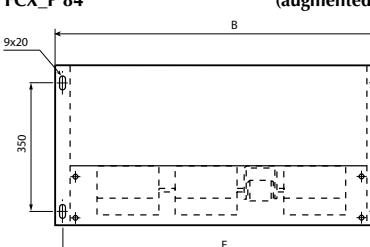
FCX_P 20-30-36-40-50-56

(standard coil)
(augmented coil)



FCX_P 80
FCX_P 84

(standard coil)
(augmented coil)



	17	22/24	32/34/36	42/44	50/54/56	62/64	82/84	102
E	330	440	671	891	891	1102	1102	1102
F	41	41	41	41	41	41	41	41
G	101	101	101	101	101	107	107	107
H	74	74	74	74	74	68	68	68
I	49	49	49	49	49	32	32	32
L	144	144	144	144	144	253	253	253
M	260	260	260	260	260	273	273	273

Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

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