

FCXI



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Variable Multi Flow

VMF

**Fan coils with Brushless Inverter motor (EC)
Universal and floor installation**



FCXI A



FCXI U

- housing: RAL 9002
- head and feet: RAL 7044

- **ENERGY SAVINGS OF 50% COMPARED WITH A FAN COIL WITH TRADITIONAL 3-SPEED MOTOR**
- **VERY QUIET OPERATION**
- **TOTAL COMFORT: REDUCED TEMPERATURE AND HUMIDITY VARIATIONS IN THE AIR-CONDITIONED ROOMS**

Characteristics

Fan coils with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment. Equipped with inverter Brushless motor for an high efficiency and a continuous air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation on based on the real indoor environment requirements without temperature swinging.. The FCXI are the ideal solution for 2/4-pipe systems and for tertiary and commercial installations. Thanks to the availability of different versions, with front or lower air intake, with standard battery or increased, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

Versions:

- FCXI AS:** with tall cabinet
- FCXI U:** with universal cabinet for floor/ ceiling installation
- FCXI ACT:** vertical free standing with electronic thermostat
- Fan unit with Brushless motor (continuous 0-100% speed variation)
- Full compliance with the accident prevention standards
- Rounded line
- Metallic protective cabinet with rustproofing polyester paint
- Adjustable air distribution grille, for U versions
- Fan coil automatic power-off function with closure of the air delivery grille, for U versions
- Quiet operation

- Low loss of charge in the heat exchange batteries
- 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

- **WMT21:** Control panel with electronic thermostat and LCD monitor. Wall mounting.
- **PTI2:** Control panel with electronic thermostat on the fan coil installation.
- **VMF System:** the characteristics are described on the appropriate card.
- **AMP:** Kit for ceiling installation, for versions FCXI U.
- **BC:** Auxiliary condensate drip tray.
- **BV:** 1-row hot water coil. The accessory is not available for the 4R models.
- **DSC4:** Condensate drainage device for use when natural run-off is not possible.
- **MA:** A-type covering cabinet (use tray accessory BC 4 for FCXI AS, ACT).
- **MU:** U-type covering cabinet (use tray accessory BC 5-6 for FCXI U).
- **PC:** Sheet metal panel to close rear of unit.
- **SE:** External air damper with command, FCXI AS and ACT.
- **SWA1:** Water temperature probe for WMT21 control panels. Cable length L = 2m.
- **VMF-SW1:** Additional water sensor may be used for 4-pipe system with VMF-E1 and E18 thermostats for the maximum control in the cold range
- **VCF:** Kit comprising motorized 3 way valve with isolating shell, unions and insulated copper pipes. For 3/4-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 3/4-row and 1-row coils (BV).
- **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 floor installations for FCXI AS and ACT models.

Accessories

		FCXI												
		20	24	30	34	36	40	44	50	54	56	80	84	
WMT21		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
SWAI		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
VMF-SW1		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
PTI2		.	.	.	.	.	.	.	.	.	.	.	.	AS - e 80U-84U
VMF-E18		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
VMF-E2		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
VMF-E2D		.	.	.	.	.	.	.	.	.	.	.	.	U
VMF-E4 / E4D		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
VMF-E5N / B		.	.	.	.	.	.	.	.	.	.	.	.	AS - U
AMP		.	.	.	.	.	.	.	.	.	.	.	.	U
AMP20		.	.	.	.	.	.	.	.	.	.	.	.	U
BC	4	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	5	.	.	.	.	.	.	.	.	.	.	.	.	U
	6	.	.	.	.	.	.	.	.	.	.	.	.	U
BV	122	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	132	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	142	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	162	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
DSC4	(1)(2)	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
PC	22	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	23	.	.	.	.	.	.	.	.	.	.	.	.	U
	32	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	33	.	.	.	.	.	.	.	.	.	.	.	.	U
	42	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	43	.	.	.	.	.	.	.	.	.	.	.	.	U
	62	.	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
SE	20X	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	30X	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	40X	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	80X	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
VCF	1X4L o R	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	2X4L o R	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	3X4L o R	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	41 - 4124	(3)(4)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	42 - 4224	(3)(4)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	43 - 4324	(3)(4)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
VCFD	44 - 4424	(3)(4)(5)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	45 - 4524	(3)(4)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	1 - 124	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	2 - 224	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
ZX	3 - 324	(3)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
	4 - 424	(3)(5)	.	.	.	.	.	.	.	.	.	.	.	AS - U - ACT
ZX	5	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT
	6	.	.	.	.	.	.	.	.	.	.	.	.	AS - ACT

(1)The DSC4 is not compatible with BC4_5_6_8_9 AMP and accessories. The DSC4 accessory is compatible with AMP20 accessory.

(2) The DSC4 and the VMF-system can not be installed simultaneously on the same fancoil

(3) The BC4 accessory is not available for models fitted with VCF / VCFD valve.

(4) VCF4124-4224-4324-4424-4524 / VCFD124-224-324-424 are 24V

(5) Only for accessory coil BV 1R.

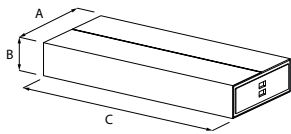
Technical data

FCXI		20			24			30			34			36			40			44		
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Heating Performance																						
2 pipe configuration																						
Heating capacity (70°C)	(1) kW	2,96	2,53	1,91	3,91	3,10	2,10	5,35	4,07	3,17	5,96	4,80	3,73	6,41	4,98	4,19	6,62	5,52	4,06	8,60	6,93	5,20
Water flow rate	(1) l/h	260	222	167	343	272	184	470	357	278	523	421	327	563	437	367	581	484	356	754	608	456
Pressure drops	(1) kPa	6	4	3	4	3	1	20	12	8	11	7	5	23	15	11	15	11	6	22	15	9
Heating capacity (50°C)	(2) kW	1,77	1,51	1,13	2,32	1,84	1,25	3,16	2,40	2,06	3,55	2,86	2,22	3,80	2,95	2,48	3,96	3,30	2,43	4,95	4,14	3,17
Water flow rate	(2) l/h	258	210	144	298	236	174	413	316	267	482	392	303	482	370	311	585	478	397	765	617	463
Pressure drops	(2) kPa	6	5	2	3	2	1	16	10	7	9	7	4	9	7	6	15	13	8	23	15	9
Heating capacity (45°C)	(3) kW	1,47	1,26	0,95	1,95	1,54	1,04	2,66	2,02	1,57	2,97	2,39	1,85	3,19	2,48	2,08	3,29	2,75	2,02	4,28	3,45	2,59
Water flow rate	(3) l/h	256	218	165	338	268	181	462	351	273	515	414	322	554	430	362	571	477	351	742	598	449
Pressure drops	(3) kPa	5	4	2	4	3	1	19	12	8	10	7	4	23	14	11	14	10	6	21	14	9
4 Pipe configuration with Additional Heat Exchanger																						
Heating capacity	(4) kW	1,77	1,51	1,13	/	/	/	2,85	2,45	2,03	/	/	/	2,85	2,45	2,03	3,46	3,41	2,66	/	/	/
Water flow rate	(4) l/h	155	132	99	/	/	/	250	215	178	/	/	/	250	215	178	303	299	233	/	/	/
Pressure drops	(4) kPa	6	5	3	/	/	/	16	12	8	/	/	/	16	12	8	21	20	14	/	/	/
Cooling Performance																						
Total cooling capacity	(5) kW	1,50	1,22	0,84	1,73	1,37	1,01	2,40	1,84	1,55	2,80	2,28	1,76	2,80	2,15	1,81	3,40	2,78	2,31	4,45	3,59	2,69
Sensible cooling capacity	(5) kW	1,24	1,00	0,67	1,38	1,09	0,76	1,90	1,57	1,11	2,13	1,72	1,25	2,20	1,82	1,28	2,76	2,11	1,63	3,30	2,64	1,96
Water flow rate	(5) l/h	258	210	144	298	236	174	413	316	267	482	392	303	482	370	311	585	478	397	765	617	463
Pressure drops	(5) kPa	6	5	3	3	2	1	28	17	13	14	10	6	28	17	13	14	10	7	40	27	16
Water content	l	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Fans																						
Fan	type/n°	centrifugal/1						centrifugal/2														
Air flow rate	m³/h	290	220	140	290	220	140	450	350	260	450	350	260	450	350	260	600	460	330	600	460	330
Sound data																						
Sound power level	(6) dB(A)	50	43	31	50	43	31	48	41	34	48	41	34	48	41	34	51	44	39	51	44	39
Sound pressure level	dB(A)	42	35	23	42	35	23	40	33	26	40	33	26	40	33	26	43	36	31	43	36	31
Diameter connections																						
Standard coil	Ø	1/2"			/			1/2"			/			3/4"			3/4"			/		
Additional coil	Ø	1/2"			/			1/2"			/			1/2"			/			/		
Increased coil	Ø	/			3/4"			/			3/4"			/			/			3/4"		
Electrical Features																						
Absorbed power	W	12	8	5	12	8	5	13	7	4	13	7	4	13	7	4	17	9	6	17	9	6
Max. input current	A	0,12			0,12			0,21			0,21			0,21			0,28			0,28		
Electrical wiring	%	90	68	36	90	68	36	90	70	52	90	70	52	90	70	52	90	68	49	90	68	49
Power supply	V/ph/Hz	230V~50Hz																				
Energy Efficiency classification (EUROVENT)																						
FCEER		D			D			D			D			D			D			D		
FCCOP	(7)	D			D			D			D			D			D			D		

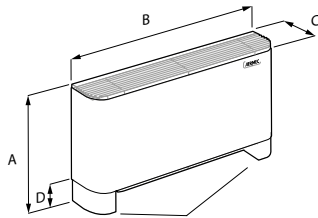
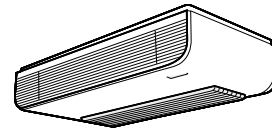
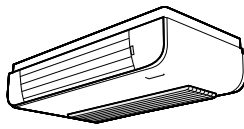
FCXI		50			54			56			80			84				
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Heating Performance																		
2 pipe configuration																		
Heating capacity (70°C)	(1) kW	8,19	7,53	5,02	10,10	8,76	6,24	9,65	8,43	6,06	15,14	13,35	10,77	17,10	14,42	11,20		
Water flow rate	(1) l/h	719	660	440	886	768	547	846	740	531	1328	1171	945	1500	1265	982		
Pressure drops	(1) kPa	15	13	6	23	18	10	42	34	18	21	16	11	31	23	15		
Heating capacity (50°C)	(2) kW	4,87	4,48	3,00	6,10	5,22	3,70	5,38	4,84	3,68	7,96	6,86	5,20	10,20	8,60	6,70		
Water flow rate	(2) l/h	721	604	432	855	743	533	791	662	475	1189	860	738	1479	1259	992		
Pressure drops	(2) kPa	15	11	6	22	17	9	22	20	15	21	12	9	31	23	15		
Heating capacity (45°C)	(3) kW	4,08	3,75	2,50	5,02	4,36	3,10	4,80	4,20	3,01	7,53	6,64	5,36	8,51	7,17	5,57		
Water flow rate	(3) l/h	707	650	433	872	756	539	833	728	523	1307	1152	930	1476	1245	967		
Pressure drops	(3) kPa	14	12	6	22	17	9	40	33	17	20	16	11	30	22	14		
4 Pipe configuration with Additional Heat Exchanger																		
Heating capacity	(4) kW	4,38	3,94	3,22	/	/	/	4,38	3,94	3,22	6,41	6,30	5,30	/	/	/		
Water flow rate	(4) l/h	384	346	282	/	/	/	384	346	282	562	553	465	/	/	/		
Pressure drops	(4) kPa	35	30	21	/	/	/	35	30	21	15	14	11	/	/	/		
Cooling Performance																		
Total cooling capacity	(5) kW	4,19	3,51	3,51	4,97	4,32	3,10	4,60	3,85	2,76	6,91	5,00	4,29	8,60	7,32	5,77		
Sensible cooling capacity	(5) kW	3,00	2,54	1,79	3,54	3,06	2,17	3,50	3,07	2,12	5,68	3,78	2,97	5,78	4,87	2,80		
Water flow rate	(5) l/h	721	604	432	855	743	533	791	662	475	1189	860	738	1479	1259	992		
Pressure drops	(5) kPa	19	14	8	26	21	12	38	28	15	22	12	9	30	22	15		
Water content	l	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Fans																		
Fan	type/n°	centrifugal/2						centrifugal/3										
Air flow rate	m³/h	720	600	400	720	600	400	720	600	400	1140	930	700	1140	930	700		
Sound data																		
Sound power level	(6) dB(A)	56	51	42	56	51	42	56	51	42	62	57	51	62	57	51		
Sound pressure level	dB(A)	48	43	34	48	43	34	48	43	34	54	49	43	54	49	43		
Diameter connections																		
Standard coil	Ø	3/4"			/			3/4"			3/4"			/				
Additional coil	Ø	1/2"			/			1/2"			1/2"			/				
Increased coil	Ø	/			3/4"			/			/			3/4"				
Electrical Features																		
Absorbed power	W	37	20	8	37	20	8	37	20	8	80	40	30	80	40	30		
Max. input current	A	0,35			0,35			0,35			0,49			0,49				
Electrical wiring	%	90	74	50	90	74	50	90	74	50	90	72	56	90	72	56		
Power supply	V/ph/Hz	230V~50Hz																
Energy Efficiency classification (EUROVENT)																		
FCEER		D			D			D			D			D				
FCCOP	(7)	D			D			D			D			D				

- (1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;
- (2) Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode (EUROVENT)
- (3) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)
- (4) Room air 20°C b.s.; Water (in/out) 70°C/60°C (EUROVENT)
- (5) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)
- (6) Sound power level on the basis of measurements made in compliance with Eurovent 8/2
- (7) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode

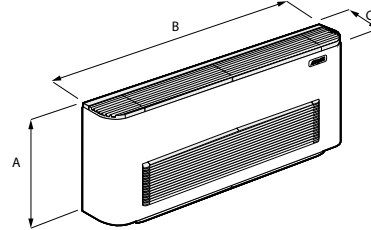
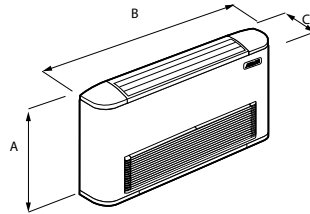
Dimensions (mm)



PACKAGING design example



ZX accessori



(standard coil and oversized coil)
FCXI_AS
FCXI_ACT

FCXI20 - 24 - 30 - 34 - 36 - 40 - 44 - 50 - 54 - 56 U

FCXI80 - 84 U

Mod FCXI (AS - ACT)		20/24	30/34/36	40/44	50/54/56	80/84
Hight with feet	A	563	563	563	563	688
Width	B	750	980	1200	1200	1320
Depht	C	220	220	220	220	220
Hight of feet	D	105	105	105	105	125
Weight (without feet)	kg	15	20	24	24	34
Mod FCXI (U)		20/24	30/34/36	40/44	50/54/56	80/84
Hight	A	520	520	520	520	590
Width	B	750	980	1200	1200	1320
Depht	C	220	220	220	220	220
Weight	kg	15	20	24	24	34
Packaging Dimensions						
A/B/C	mm	590/275/820	590/275/1050	590/275/1270	590/275/1270	650/270/1415