

# VXM 123÷614

**FAN COIL UNITS WITH CABINET AND 6-SPEED OR EC INVERTER CENTRIFUGAL FANS.**



The hydronic Fan Coil units with cabinet, VXM 123÷614, feature an exclusive and compact design combined with the highest efficiency and noiseless operation. When part of a hydronic system equipped with a Liquid Chiller, the unit generates cool air silently and with instantaneous reaction. While, during the winter, if combined with a thermal system, it provides warm air, making possible to meet home or business heating needs. An easily removable and cleanable air filter absorbs and retains dust in suspension, keeping the air quality at a suitable level and allowing the execution of continuous cleaning cycles, which are particularly important to guarantee suitable hygiene standards, especially in highly frequented rooms. All installation needs are considered, from the possibility of horizontal and vertical installations, with front, bottom or rear intake to a wide range of accessories, also for 4-Pipe systems, which includes a complete control panel collection, that can be installed on-board or in the room. Units are available both with 6-Speed or EC Inverter fans. The units equipped with EC Inverter motor modulate the air flow, adapting the performances instant to instant to the actual needs of the room to be conditioned, assuring a total comfort with greater energy savings.

## EC INVERTER FAN

### VERSIONS

VXM/VP	VXM/VH	VXM/VE	VXM/VO
Vertical unit with bottom inlet and vertical delivery	Vertical unit with front inlet and vertical delivery	Horizontal unit with rear inlet and horizontal delivery	Horizontal unit with bottom inlet and horizontal delivery
VXM/VP/EC	VXM/VH/EC	VXM/VE/EC	VXM/VO/EC
Vertical unit with EC Inverter fans, bottom inlet and vertical delivery	Vertical unit with EC Inverter fans, front inlet and vertical delivery	Horizontal unit with EC Inverter fans, rear inlet and horizontal delivery	Horizontal unit with EC Inverter fans, bottom inlet and horizontal delivery

### FEATURES

- Cabinet made of thick steel-sheet, galvanized and highly resistant to abrasion. Bearing structure made of galvanized steel-sheet with internal thermal-acoustic insulation. Air delivery grill by fixed fins made of ABS, adjustable on two positions, equipped with small sliding side doors for easily access to the internal control panel.
- Air filter easy to remove and to wash, made of a metal frame holding filtering section.
- Condensate drain pan provided with natural condensation drain and thermal insulation.
- Heat exchanger coil made of copper pipes and aluminium fins, water connections provided with anti-torsion system, manual air vent and water drain valves.
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the 6-Speed electric motor with 3 speeds connected in the standard configuration.
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the EC Inverter electronic motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.
- Standard water connections on the left side in front of the unit. Reversible on site.

### ACCESSORIES

#### FACTORY FITTED ACCESSORIES

RX	Hydraulic coil connections on the right side
WS	Hot water coil for 4-Pipe system
EH1	Supplementary electrical heater
EH2	Supplementary electrical heater enhanced
BC	Universal connecting terminal
UCB	Universal regulation card with Modbus RTU protocol
SNA	Air temperature sensor for UCB
SNW2	Summer/winter water temperature sensor for UCB
SNW3	Minimum water temperature sensor for UCB

#### LOOSE ACCESSORIES

Z	Couple of feet
MP1	Condensate drain pump for vertical versions
MP2	Condensate drain pump for horizontal versions
C1	Auxiliary condensate drain pan for vertical versions
C2	Auxiliary condensate drain pan for horizontal versions
PP	Rear panel
TP	Rear closure
SG	Manual damper with grid
SMG	On/off motorized damper with grid

V23	3-Way on/off valves for 2-Pipe system
V23M	3-Way modulating valves for 2-Pipe system
V25	3-Way on/off valves with 2 shut-off (ball) for 2-Pipe system
V25M	3-Way modulating valves with 2 shut-off (ball) for 2-Pipe system
V22	2-Way on/off valves for 2-Pipe system
V22M	2-Way modulating valves for 2-Pipe system
V26	2-Way on/off valves with 2 shut-off (ball) for 2-Pipe system
V26M	2-Way modulating valves with 2 shut-off (ball) for 2-Pipe system
V43	3-Way on/off valves for 4-Pipe system
V43M	3-Way modulating valves for 4-Pipe system
V45	3-Way on/off valves with 4 shut-off (ball) for 4-Pipe system
V45M	3-Way modulating valves with 4 shut-off (ball) for 4-Pipe system
V42	2-Way on/off valves for 4-Pipe system
V42M	2-Way modulating valves for 4-Pipe system
V46	2-Way modulating valves with 4 shut-off (ball) for 4-Pipe system
V46M	2-Way modulating valves with 4 shut-off (ball) for 4-Pipe system
TA1	Wall mounted electronic ambient thermostat for AC versions
VR1	Wall mounted electronic speed control panel for AC versions
DR1	Wall mounted manual electronic control panel for AC versions
DR2	Wall mounted automatic electronic control panel for AC versions

DRH1	Wall mounted configurable electronic control panel for AC versions
DRH2	Wall mounted configurable electronic control panel for AC/EC versions
VB1	On board electronic speed control panel for AC versions
DB1	On board manual electronic control panel for AC versions
DB2	On board automatic electronic control panel for AC versions
DBH1	On board configurable electronic control panel for AC versions
DBH2	On board configurable electronic control panel for AC/EC versions
DBH3	On board configurable electronic control panel for EC versions
DBE1	On board electromechanic control panel for AC versions
DBE3	On board electromechanic control panel with TMB3 for AC versions
DBE4	On board electromechanic control panel with TMB4 for AC versions
IRC	Wall mounted digital control for UCB
MC4	Multicontrol connection card
SNW4	Water temperature sensor
TMB3	Minimum hot water temperature thermostat 32 °C
TMB4	Minimum hot water temperature thermostat 42 °C

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MODEL			123	124	233	234	343	344	463	464	573	574	613	614
Cooling	Total cooling capacity (1)(2)	kW	1.4	1.6	2.0	2.4	3.2	3.7	4.7	5.2	5.8	6.3	7.5	8.4
	Sensible cooling capacity (1)(2)	kW	1.2	1.4	1.8	2.0	2.5	2.9	3.9	4.4	4.9	5.2	6.6	7.2
	Water flow (1)(2)	l/h	239	281	358	423	561	649	816	912	1021	1105	1315	1480
	Pressure drops (1)(2)	kPa	2	15	4	22	10	12	25	18	40	33	20	15
Heating	Heating capacity (3)(2)	kW	1.9	2.0	2.8	2.9	3.8	4.2	5.9	6.5	7.6	7.8	9.9	10.3
	Water flow (3)(2)	l/h	332	346	494	517	658	743	1042	1138	1332	1369	1736	1832
	Pressure drops (3)(2)	kPa	2	16	6	25	11	13	31	22	41	39	21	16
Rows	Quantity	n°	3	4	3	4	3	4	3	4	3	4	3	4
Water connections	In / Out	"G	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Air flow	Max	m³/h	368	389	472	498	676	713	966	1019	1104	1166	1644	1736
	Med	m³/h	261	276	365	385	509	538	720	760	851	899	1547	1633
	Min	m³/h	186	197	239	252	346	365	477	504	537	567	1503	1587
Air flow (EC version)	Max	m³/h	368	389	472	498	676	713	966	1019	1104	1166	1644	1736
	Min	m³/h	186	197	239	252	346	365	477	504	537	567	1503	1587
Additional coil	Heating capacity (4)(2)	kW	1.6	1.7	2.3	2.4	3.4	3.6	4.6	4.8	5.6	5.8	8.0	8.2
	Water flow (4)(2)	l/h	140	145	202	211	298	316	404	421	491	509	702	719
	Pressure drops (4)(2)	kPa	10	11	13	14	23	25	10	11	13	14	23	24
	Rows	n°	1	1	1	1	1	1	1	1	1	1	1	1
	Hydraulic connections (In / Out)	"G	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
Electrical heater	Power supply	V/Ph/Hz	230/1/50-60											
	Absorbed power	kW	0.7	0.7	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
Electrical characteristics	Power supply	V/Ph/Hz	230/1/50-60											
	Max absorbed power	kW	0.05	0.05	0.07	0.07	0.07	0.07	0.13	0.13	0.15	0.15	0.21	0.21
Electrical characteristics (EC version)	Power supply	V/Ph/Hz	230/1/50-60											
	Max absorbed power	kW	0.05	0.05	0.07	0.07	0.07	0.07	0.13	0.13	0.15	0.15	0.21	0.21
Sound pressure	Max (5)	dB(A)	44	46	48	49	45	45	51	53	54	56	58	59
	Med (5)	dB(A)	35	37	41	42	38	38	45	45	48	49	57	58
	Min (5)	dB(A)	28	28	33	33	28	28	36	36	37	37	55	56
Sound pressure (EC version)	Max (5)	dB(A)	44	46	48	49	45	45	51	53	54	56	58	59
	Min (5)	dB(A)	28	28	33	33	28	28	36	36	37	37	55	56
Weights	Transport weight	kg	16	16	19	20	25	26	29	30	33	35	37	41
	Operating weight	kg	14	14	16	17	23	24	26	28	30	32	34	38

DIMENSIONS			123	124	233	234	343	344	463	464	573	574	613	614
L	STD/EC	mm	670	670	870	870	1070	1070	1270	1270	1470	1470	1670	1670
W	STD/EC	mm	220	220	220	220	220	220	220	220	220	220	220	220
H	STD/EC	mm	470	470	470	470	470	470	470	470	470	470	470	470
D (6)	STD/EC	mm	90	90	90	90	90	90	90	90	90	90	90	90

## CLEARANCE AREA

VXM/VP 123÷614



## NOTES

- 1 Ambient air temperature 27 °C d.b./19 °C w.b., water temperature 7/12 °C.
  - 2 Performances also valid for EC version.
  - 3 Ambient air temperature 20 °C d.b., water temperature 45/40 °C.
  - 4 Ambient air temperature 20 °C d.b., water temperature 65/55 °C.
  - 5 Sound pressure level measured at 1 m from the unit with reverberation time 0,5 s.
  - 6 Feet height.
- N.B. Maximum inlet water temperature 90 °C.  
N.B. Inhibited ethylene glycol can be added to the water.  
N.B. Maximum operating pressure 1500 kPa.