

VE & VE/MB

Fan coil with Brushless DC or AC asynchronous motor

1,4kW÷10,7kW



50% Annual savings in electricity

50% Reduction of the noise level

VERSIONS

VMI	Vertical units with bottom inlet
VMF	Vertical units with front inlet
OMP	Horizontal units with rear inlet
OMI	Horizontal units with bottom inlet
VII	Fitted vertical units, bottom inlet
VIF	Fitted vertical units, front inlet
OIP	Fitted horizontal units, rear inlet
OII	Fitted horizontal units, bottom inlet
VIP	Fitted vertical units whit P1 panel
VIP2	Fitted vertical units whit P2 panel
ONP	Horizontal vertical units whit panel



Left side water sockets

Fancoil Brushless (only MB version)

- ▶ Modulating ventilation 0-100%
- ▶ Super quiet operation
- ▶ Highest well-being: the continuous variation 0-100% of the air flow (by means of the signal 0...10Vdc) is reflected in the modulation of the heating and cooling power by their instantaneous adaptation, to the actual needs of the room that to be conditioned and ensuring reduced fluctuations temperature, humidity and quiet noise.

Building Features

- ▶ Structure galvanized sheet with prepainted covering shell (in VMIVMF-OMP-OMI models) and ABS details, complete with heat/sound insulation
- ▶ Regenerating filter and natural discharge moisture tray.
- ▶ Centrifugal 6-speed fans type, with 3 speeds connected in the standard configuration.
- ▶ Heat exchanger in copper tubes and alluminium fins with hydrophilic surface treatment to rapid draining of moisture.
- ▶ It's recommended to use the kit valves for each type of system.

VERSIONS



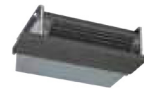
VMI
 Vertical terminal with cabinet,
 bottom air intake



OMP
 Horizontal terminal with cabinet, rear air intake



VII
 Vertical naked terminal, bottom
 air intake



OIP
 Horizontal naked terminal, rear air intake



VMF
 Vertical terminal with cabinet,
 frontal air intake



VIF
 Vertical naked terminal, front air intake

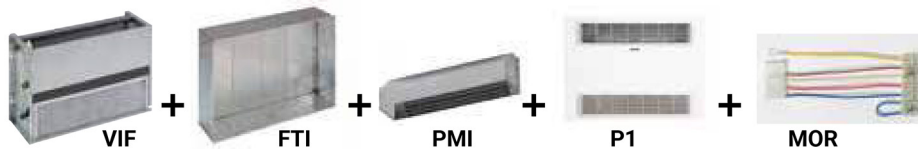


OMI
 Horizontal terminal with cabinet,
 bottom air intake



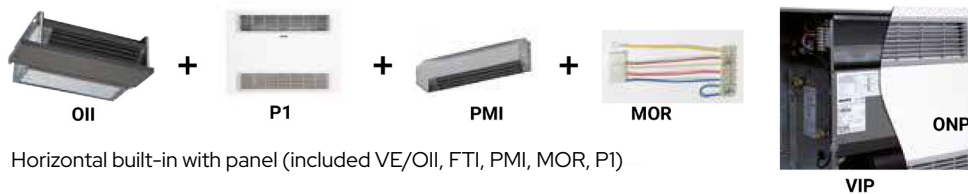
OII
 Horizontal naked terminal, bottom air intake

VIP



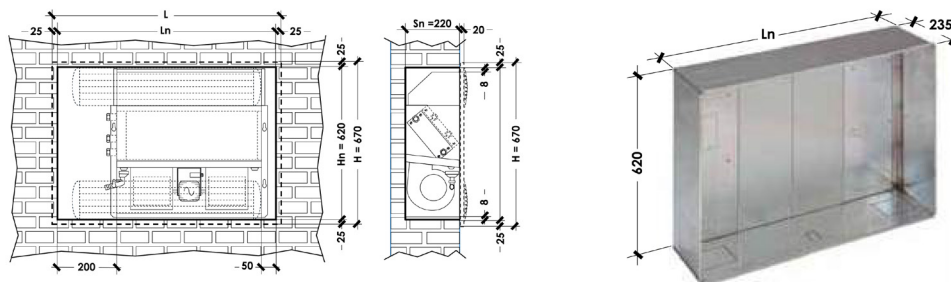
Vertical built-in terminal with panel (included VE/VIF, FTI, PMI, MOR, P1)

ONP



Horizontal built-in with panel (included VE/OII, FTI, PMI, MOR, P1)

FTI



Dimensions	13/23	33/43	53/63	73/83	93/103P	113/123P
mm	650	850	1.050	1.250	1.450	1.650
mmm	700	900	1.100	1.300	1.500	1.700

Mammoth type terminal board (included on the on board controller CVA-CVB-CVC-CVB-CVD1) In other cases must be ordered as an accessory.

3 Rows

VE			13	23	33	43	53	63	73
Cooling cap. (1) (*)		W	1.579	2.105	2.663	3.179	3.947	4.474	5.811
Sensible capacity (1) (*)		W	1.290	1.620	2.070	2.310	2.870	3.230	4.330
Heating cap. (2) (*)		W	1.870	2.455	2.990	3.355	4.080	4.720	6.000
Heating cap. (3) (*)		W	3.740	4.910	5.980	6.710	8.160	9.440	12.000
Pressure drop									
Cooling (*)		kPa	14,5	18,1	20,5	23,0	25,1	26,8	27,2
Heating (3) (*)		kPa	15,9	19,2	20,1	20,0	20,9	23,2	22,6
	max	m³/h	370	400	500	550	670	720	1.000
Air flow (*)	med	m³/h	285	308	400	440	590	634	890
	min	m³/h	226	244	305	336	462	497	650
Cooling (*)		l/h	272	362	458	547	679	769	999
Heating (3) (*)		l/h	322	422	514	577	702	812	1.032
Power input (*)		W	55	55	85	85	75	75	145
Sound pressure (4)		dB(A)	24/31/38	25/31/38	30/38/44	31/38/45	26/33/37	27/34/37	34/41/43
Power supply		V~, Ph, Hz				230, 1, 50			
Water connections		"G	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Condensing drain		mm	20	20	20	20	20	20	20
Motors		n°	1	1	1	1	1	1	1
Fans		n°	1	1	1	1	2	2	2

Hot Water Exchanger

VE		13	23	33	43	53	63	73
Heating cap. (2) (*)	W	940	990	1.590	1.675	2.190	2.275	3.145
Heating cap. (3) (*)	W	1.880	1.980	3.180	3.350	4.380	4.550	6.290
Pressure drop (3) (*)	kPa	7,3	8,0	11,7	12,9	21,3	22,9	41,1

Brushless

VE		13	23	33	43	53	63	73
Cooling cap.(1)	W	1.810-880	2.320-1.130	2.830-1.400	3.220-1.600	4.630-2.130	5.070-2.330	6.010-3.060
Heating cap. (2)	W	985-2.325	1.233-2.915	1.670-3.409	1.557-3.625	2.063-5.209	2.285-5.794	2.949-6.615
Heating cap. (2)	W	4.680-1.970	5.860-2.470	6.840-2.940	7.250-3.120	10.510-4.130	11.650-4.580	13.280-5.900
Hot water exchanger (2)	W	1.209-510	1.211-515	1.855-800	1.865-805	2.880-1.135	2.883-1.140	3.553-1.580
Hot water exchanger (3)	W	2.440-1.030		3.730-1.610		5.800-2.280		7.140-3.170
Air flow	m³/h	537-127		625-153		1.021-215		1.184-306
Power input (5)	W	9		9		10		11
Sound pressure (5)	dB(A)	23		26		22		24
Power supply		V~, Ph, Hz			230, 1, 50			V~, Ph, Hz
Signal	Vdc				0-10			
Motors	n°	1	1	1	1	1	1	1
Fans	n°	1	1	1	1	2	2	2

Left side water sockets

Note: Capacities and air flow rates referred in terms of prevalence 0 Pa. For different static pressure, refer air flow variation diagrams.

(1) Entering air temperature: 27°C d.b./19,5°C w.b.

In/Out water temperature: 7°C/12°C

(2) Entering air temperature: 20°C d.b.

In/Out water temperature: 45°C / 40°C

(3) In/Out water temperature: 70°C / 60°C

(4) At a distance of 2 m and with reverberation time of 0.5 s.

(5) 3Vdc input signal

(*) Max speed

3 Rows

VE			83	93	103	93P	103P	113P	123P
Cooling cap. (1) (*)		W	6.758	7.926	9.495	9.568	10.337	10.105	11.274
Sensible capacity (1) (*)		W	4.800	5.670	6.620	6.200	7.300	7.640	8.360
Heating cap. (2) (*)		W	6.650	7.750	9.050	8.415	9.895	10.550	11.600
Heating cap. (3) (*)		W	13.300	15.500	18.100	16.830	19.790	21.100	23.200
Pressure drop									
Cooling (*)		kPa	30,0	31,9	32,4	37,4	38,4	34,4	37,0
Heating (3) (*)		kPa	22,6	23,8	22,9	28,1	27,4	29,2	30,5
	max	m³/h	1.050	1.280	1.310	1.450	1.500	1.910	1.940
Air flow (*)	med	m³/h	935	1.139	1.166	1.291	1.335	1.643	1.668
	min	m³/h	683	870	891	986	1020	1490	1.513
Cooling (*)		l/h	1.162	1.363	1.633	1.474	1.778	1.738	1.939
Heating (3) (*)		l/h	1.144	1.333	1.557	1.447	1.702	1.815	1.995
Power input (*)		W	145	175	175	225	225	285	285
Sound pressure (4)		dB(A)	35/41/45	39/46/48	40/46/49	43/48/51	44/49/52	45/48/51	46/48/51
Power supply		V~, Ph,				230, 1, 50			
Water connections		"G	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Condensing drain		mm	20	20	20	20	20	20	20
Motors		n°	1	1	1	1	1	1	1
Fans		n°	2	2	2	2	2	2	2

Hot Water Exchanger

VE		83	93	103	93P	103P	113P	123P
Heating cap. (2) (*)	W	3.230	3.995	4.055	4.350	4.450	5.545	5.600
Heating cap. (3) (*)	W	6.460	7.990	8.110	8.700	8.900	11.090	11.200
Pressure drop (3) (*)	kPa	43,3	37,7	38,8	44,6	46,7	48,4	49,3

Brushless

VE		83	93	103
Cooling cap.(1)	W	6.820-3.470	7.440-3.780	8.790-4.460
Heating cap. (2)	W	2.174-7.149	3.388-7.650	3.898-8.800
Heating cap. (2)	W	14.300-6350	15.300-6.780	17.600-7.800
Hot water exchanger (2)	W	3.561-1.590	4.045-1.790	4.045-1.795
Hot water exchanger (3)	W	7.140-3.170	8.090-3.590	
Air flow	m³/h	1.184-306	1.255-323	
Power input (5)	W	11	11	
Sound pressure (5)	dB(A)	24	25	
Power supply	V~, Ph, Hz		230, 1, 50	
Signal	Vdc			
Motors	n°		0-10	
Fans	n°	1	1	1
		2	2	2

Left side water sockets

Capacities and air flow rates referred in terms of prevalence 0 Pa. For different static pressure, refer air flow variation diagrams.

1) Entering air temperature: 27°C d.b./19,5°C w.b.

In/Out water temperature: 7°C /12°C

(2) Entering air temperature: 20°C d.b.

In/Out water temperature: 45°C / 40°C

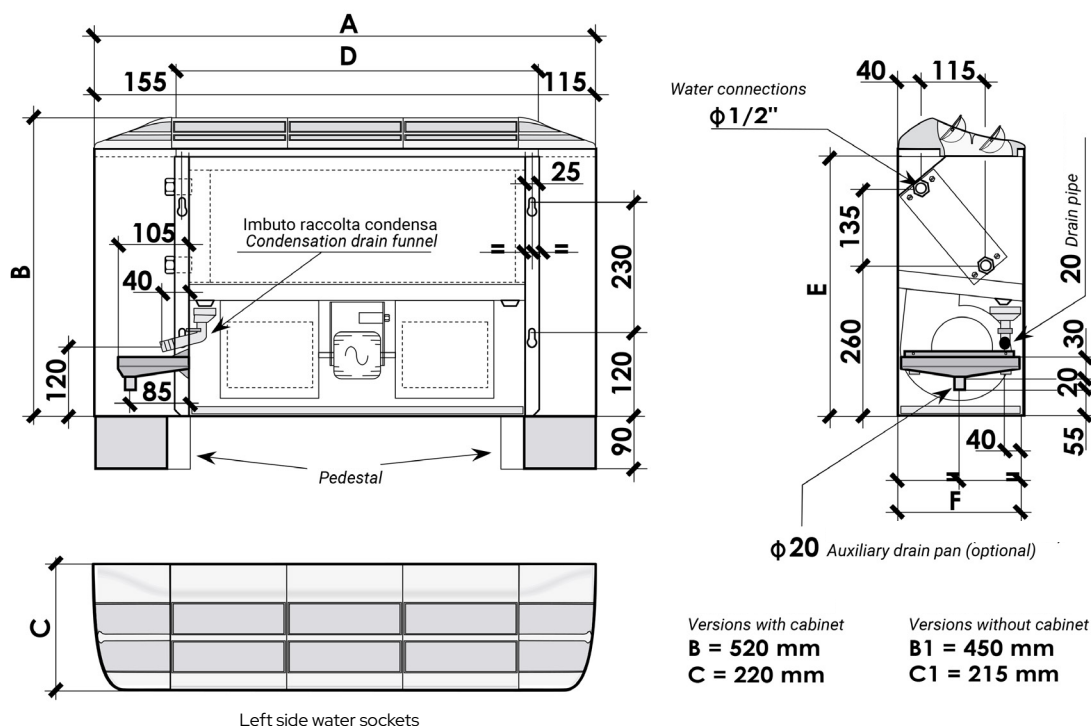
(3) In/Out water temperature: 70°C / 60°C

(4) At a distance of 2 m and with reverberation time of 0.5 s.

(5) 3Vdc input signal

(*) Max speed

Dimensions



With Cabinet

VE		13	23	33	43	53	63	73
A *	mm	670	670	870	870	1.070	1.070	1.270
B	mm	520	520	520	520	520	520	520
C	mm	220	220	220	220	220	220	220
Weight	kg	15	15,5	18,5	19	25	26	29

VE		83	93	103	93P	103P	113P	123P
A *	mm	1.270	1.470	1.470	1.470	1.470	1.670	1.670
B	mm	520	520	520	520	520	520	520
C	mm	220	220	220	220	220	220	220
Weight	kg	30	34	35	35	36	39	42

* In horizontal versions the width A is larger than 120 mm

Naked Version

VE		13	23	33	43	53	63	73
A *	mm	425	425	625	625	825	825	1.025
B	mm	450	450	450	450	450	450	450
C	mm	215	215	215	215	215	215	215
Peso / Weight	kg	11	11,6	14	15	20	21	23,5

VE		83	93	103	93P	103P	113P	123P
A *	mm	1.025	1.225	1.225	1.225	1.225	1.425	1.425
B	mm	450	450	450	450	450	450	450
C	mm	215	215	215	215	215	215	215
Weight	kg	25	27,5	29	28,5	30	31	35

* In horizontal versions the width A is larger than 120 mm

VE & VE/MB 1,4kW÷10,7kW

Fan coil with Brushless DC or AC asynchronous motor



MB
Brushless motor (only for models 13÷103)



BC
Auxiliary coil 1 rank



P
Pedestal



VA
Auxiliary drain pan for vertical versions



CVA
OFF/3-speed switch



CVB
OFF/3-speed switch Winter-Summer switch+Bulb room thermostat



CVC
On board mounted electronic controll 230Vac with off/summer winter + 3 speeds + thermostat with-without valves



CBB
On board brushless controll 2/4pipes unit with-without valves



CVD1
On board controll 230 Vac for controll 2/4 pipes unit with/without valves



CRA
230V wall thermostat. 3 speeds fan selector + Off/On selector + 2 pipes plant management with or without 230V on-off valves



CRR
230V wall mounted thermostat. 3 speeds fan selector + Off/On selector + remote seasonal changeover + 2 pipes plant management with or without 230V on-off valves



CRB
230V/24V wall digital thermostat. 3 ways and auto selector + 2 or 4 pipes plant management with or without on-off valves, PWM, 3 points, electrical heaters



CBP
Digital wall thermostat 230V/24V. On-off or brushless fan, 2 or 4 pipes plant management with or without on-off valve or 0..10V with 230V or 24V alimentation.



SDI.4X3A
Card with 4 by 3A output (suitable to control up to max No. 4 3-Speed 3A motors ; ex. No. 4 small fan-coils). To be combined only in case of AC motors. Contatti-Contacts: 4x 3(0,3)A230Vac

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Fan coil with Brushless DC or AC asynchronous motor

**TMB**

Water low temperature thermostat - Tset 32°C

**MOR**

Mammoth type terminal board (included on the on board controller CVA-CVB-CVC-CVB-CVD1) In other cases must be ordered as an accessory

**3V2**

3-way valve with actuator 230V for 2 pipes units

**2V2**

2-way valve with actuator 230V for 2 pipes units

**3V4**

3-way valve with actuator 230V heating coil for 4 pipes units

**2V4**

2-way valve with actuator 230V for 4 pipes units

**P1**

Panel made of pre-painted steel

**P2**

Panel made of pre-painted steel with control panel doors

**FTI**

False frame made of galvanized steel for versions VIP and ONP

**PMI**

Air supply plenum with spigots for versions VIP and ONP

**PCPF**

Central closing back panel

**PCPB**

Central closing back panel

**PCB**

Bottom closing panel without grill

**PM**

Air supply plenum with spigots

**PA**

Air intake plenum with spigots

Plenum with spigots (PA, PM)

13/23	33/43	53/63	73/83	93/103P	113/123P
VE Spigots (N° x Ø 200/180/160 mm)					
1 x Ø	2 x Ø	2 x Ø	3 x Ø	4 x Ø	4 x Ø

**RA**

Electrical heater 230V (0,7 Kw - 2 Kw)

**RB**

Electrical heater 230V (1Kw - 3Kw)

**TEL**

Remote control management system. Motherboard + Air sensor + Water sensor - I.R. receiver + I.R. Remote control (control 2-4 pipe units, with/without valves). Fan 7A-230Vac. Valves: 2A-230Vac.

**BMS-U1-V**

Main card with integrated communication

**SND-A2**

Air temperature sensor (compulsory per each BMS main card)

**SND-W2**

SUMMER/WINTER Water temperature sensor

**SND-W3**

Minimum water temperature sensor

**CD6**

Wall mounted external digital control