

# VE: VMI, VMF, OMP, OMI

Range of fan coils,  
equipped with AC or DC Brushless motor

1,4 kW ÷ 9,49 kW



## Technical features

- Structure in galvanized sheet metal with cover coat in prepainted material and ABS details, complete of thermal acoustic insulation.
- Complete with regenerating filter
- Standard natural-discharge condensate collecting tank **(horizontal units only)**.
- Centrifugal fans with 6 speeds, of which 3 are connected in the standard configuration **(no MB)**
- Three-tier copper heat exchange batteries with hydrophilic surface treatment for rapid condensate drainage.
- It is recommended to install the valve kits on each type of system.

## Version MB

- Brushless motor
- Modulation ventilation 0-100%

## Version S

- Version with silent motor, reduced condenser
- Acoustic insulation with reinforced anti-vibration

## Version 4

- Version with second hydronic battery
- For 4-tube systems
- Additional battery for heating only

## Configurations



**VMI** Vertical cabinet with bottom inlet



**OMP** Horizontal cabinet with rear inlet



**VMF** Vertical cabinet with front inlet



**OMI** Horizontal cabinet with bottom inlet

## Versions

### Standard

**VE VMI** Vertical with bottom inlet  
**VE VMF** Vertical with front inlet  
**VE OMP** Horizontal with rear inlet  
**VE OMI** Horizontal with bottom inlet

### Standard with Brushless Motor

**VE VMI MB** Brushless motor, vertical with bottom inlet  
**VE VMF MB** Brushless motor, vertical with front inlet  
**VE OMP MB** Brushless motor, horizontal with rear inlet  
**VE OMI MB** Brushless motor, horizontal with bottom inlet

### Low noise

**VE VMI S** Vertical with bottom inlet  
low noise  
**VE VMF S** Vertical with front inlet  
low noise  
**VE OMP S** Horizontal with rear inlet  
low noise  
**VE OMI S** Horizontal with bottom inlet  
low noise

### Low noise with Brushless Motor

**VE VMI S MB** Brushless motor, vertical with  
bottom inlet low noise  
**VE VMF S MB** Brushless motor, vertical with  
front inlet low noise  
**VE OMP S MB** Brushless motor, horizontal with  
rear inlet low noise  
**VE OMI S MB** Brushless motor, horizontal with  
bottom inlet low noise

Available in 4-pipes version. Check the codes on the price-list.

3 ROWS **												
VE			13	23	33	43	53	63	73	83	93	103
Cooling capacity (1) (*)	max	W	1.500	2.000	2.530	3.020	3.570	4.250	5.520	6.420	7.530	9.020
	med	W	1.317	1.755	2.264	2.702	3.521	3.991	5.211	6.062	7.107	8.515
	min	W	1.169	1.557	1.970	2.354	3.111	3.528	4.442	5.169	6.201	7.431
Heating capacity (2) (*)	max	W	1.833	2.410	2.949	3.331	4.060	4.686	5.971	6.651	7.756	9.079
	med	W	1.572	2.067	2.585	2.918	3.765	4.347	5.573	6.207	7.235	8.469
	min	W	1.369	1.799	2.198	2.481	3.252	3.757	4.614	5.136	6.151	7.199
Heating capacity (3) (*)	max	W	3.678	4.837	5.916	6.682	8.144	9.401	11.978	13.339	15.556	18.209
	med	W	3.154	4.146	5.185	5.852	7.551	8.718	11.176	12.447	14.508	16.983
	min	W	2.745	3.606	4.406	4.972	6.519	7.533	9.250	10.295	12.329	14.431
Pressure drop Cooling (*)		kPa	14,5	18,1	20,5	23,0	25,1	26,8	27,2	30,0	31,9	32,4
Pressure drop Heating (3) (*)		kPa	15,9	19,2	20,1	20,0	20,9	23,2	22,6	22,6	23,8	22,9
Air flow (*)	max	m³/h	370	400	500	550	670	720	1.000	1.050	1.280	1.310
	med	m³/h	285	308	400	440	590	634	890	935	1.139	1.166
	min	m³/h	226	244	305	336	462	497	650	683	870	891
Water flow rate Cooling (*)		l/h	272	362	458	547	679	769	999	1.162	1.363	1.633
Water flow rate Heating (3) (*)		l/h	322	422	514	577	702	812	1.032	1.144	1.333	1.557
Sound pressure (4)	dB(A)		24	25	30	31	26	27	34	35	39	40
			31	31	38	38	33	34	41	41	46	46
			38	38	44	45	37	37	43	45	48	49
Power supply	V~/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Water connections	"G	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Condensing drain ø	mm	20	20	20	20	20	20	20	20	20	20	20
Electric motors	n°	1	1	1	1	1	1	1	1	1	1	1
Power input (*)	W	55	55	85	85	75	75	145	145	175	175	175
Fans	n°	1	1	1	1	2	2	2	2	2	2	2
Energy performance in 4-pipes version												
Cooling capacity (1) (*)	W	1.450	1.940	2.470	2.920	3.650	4.110	5.390	6.230	7.350	8.810	
Sensible capacity (1) (*)	W	1.240	1.570	2.020	2.220	2.780	3.110	4.210	4.640	5.520	6.440	
Heating capacity (2) (*)	W	940	990	1.590	1.675	2.190	2.275	3.145	3.230	3.995	4.055	
Heating capacity (3) (*)	W	1.880	1.980	3.180	3.350	4.380	4.550	6.290	6.460	7.990	8.110	
Pressure drop (3) (*)	kPa	7,3	8,0	11,7	12,9	21,3	22,9	41,1	43,3	37,7	38,8	
BRUSHLESS **												
Cooling cap. (1)	range	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	6.820-3.470	7.440-3.780	8.790-4.460
Heating capacity (2)	range	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	2.174-7.149	3.388-7.650	3.898-8.800
Heating capacity (3)	range	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	14.300-6.350	15.300-6.780	17.600-7.800
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	3.561-1.590	4.045-1.790	4.045-1.795
Hot water exchanger (3)	W		2.440-1.030	2.440-1.030	3.730-1.610	3.730-1.610	5.800-2.280	5.800-2.280	7.140-3.170	7.140-3.170	8.090-3.590	8.090-3.590
Air flow	m³/h		537-127		625-153		1.021-215		1.184-306		1.184-306	
Power input (5)	W		9		9		10		11		11	
Sound pressure (5)	dB(A)		23		26		22		24		25	
Power supply	V~/Ph/Hz		230/1/50									
Signal	Vdc		0-10									
Motors	n°		1									
Fans	n°		1	1	1	1	2	2	2	2	2	2
Version S ***												
Sound pressure (4)	dB(A)		10	10	14	14	12	12	17	17	15	15
			11	11	16	16	13	13	19	19	18	18
			16	16	22	22	18	18	25	25	24	24
Version S MB ***												
Sound pressure (4)	dB(A)		10	10	10	10	11	12	11	12	10	10
			17	18	22	22	21	22	26	28	27	28
			30	31	34	36	30	31	35	36	39	40

**Water connections left side**

Note: Air yields and flow rates reported under conditions of a prevalence of 0 Pa. For different useful widths refer to the air flow variation diagrams.

\*\* Data for 2-tube version only. Refer to the product manual for different versions.

\*\*\* Technical data refer to the product manual.

(1) Inlet air temperature: 27°C b.s./19.5°C b.u.

Water inlet/outlet temperature: 7°C / 12°C

(2) Inlet air temperature: 20°C b.s.

Water inlet/outlet temperature: 45°C / 40°C

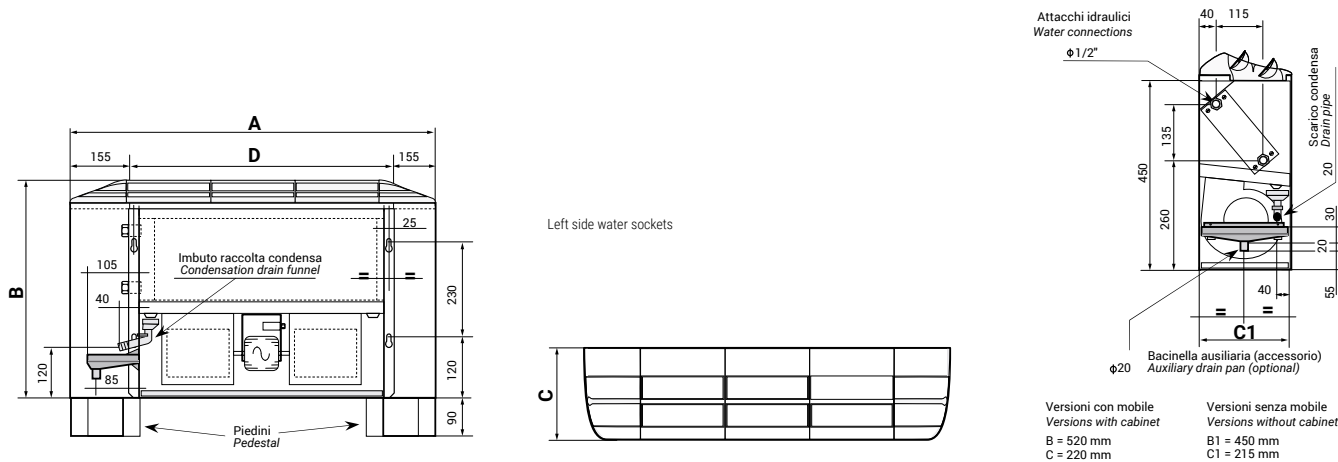
(3) Inlet air temperature: 20°C b.s.

Water inlet/outlet temperature: 70°C / 60°C

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

(5) With 3Vdc input signal

(\*) Maximum speed



**Dimensions - With cabinet**

VE		13	23	33	43	53	63	73	83	93	103
A*	mm	670	670	870	870	1.070	1.070	1.270	1.270	1.470	1.470
B	mm	520	520	520	520	520	520	520	520	520	520
C	mm	220	220	220	220	220	220	220	220	220	220
Weight	kg	13,5	14	16,4	17,2	22,5	23,5	26	27,5	30	31,5

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

**Dimensions - Naked Version**

VE		13	23	33	43	53	63	73	83	93	103
D*	mm	425	425	625	625	825	825	1.025	1.025	1.225	1.225
C1	mm	215	215	215	215	215	215	215	215	215	215
Weight	kg	11	11,6	14	15	20	21	23,5	25	27,5	29

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

**Accessories**



**P** Pedestal (Supplied separately)



**PCPB** Central closing back panel



**PCPF** Central closing back panel



**PCB** Bottom closing panel without grill



**PMP1** Condensate pump (max water flow rate 8 l/h with 0 m.c.a., water flow rate 6,5 l/h with 1 m.c.a., water flow rate 4 l/h with 3 m.c.a., water flow rate 0 l/h with 6 m.c.a.) fitted with alarm contact 8A@250V (suitable for all VERTICAL versions)



**PMP2** Condensate pump (max water flow rate 8 l/h with 0 m.c.a., water flow rate 6,5 l/h with 1 m.c.a., water flow rate 4 l/h with 3 m.c.a., water flow rate 0 l/h with 6 m.c.a.) fitted with alarm contact 8A@250V (suitable for all HORIZONTAL versions)

## Accessories

	<b>VA</b>	Auxiliary drain pan for vertical versions (included in horizontal versions)		<b>CVC</b>	On board mounted electronic control 230Vac with off/summer/winter+3speeds+thermostat with-without valves (Mammoth terminal board already included)
	<b>CVA</b>	OFF/3-speed switch (Mammoth terminal board already included)		<b>CBB</b>	On board brushless control 2/4pipes unit with-without valves (Mammoth terminal board already included). Compatible with TMB or SND-W4.
	<b>CVB</b>	OFF/3-speed switch Winter-Summer switch+Bulb room thermostat (Mammoth terminal board already included) Compatible with TMB.		<b>CVD1</b>	On board control 230 Vac for control 2/4 pipes unit with/without valves (Mammoth terminal board already included). Compatible with TMB or SND-W4.
	<b>TMB</b>	Water low temperature thermostat automatically shuts down the ventilation when the inlet water temperature to the coil is below 32°C in heating mode (Winter mode).		<b>SND-W4</b>	Water temperature probe (type NTC 4700 Ohm @ 25°C) with minimum temperature settable. Cable length 1 meter. Alternative to TMB thermostat.
	<b>SDI.4 X3A</b>	4-output relay board. Suitable for controlling up to 4 3-speed motors. Only for AC motors. Maximum capacity: 4x3 A 230Vac		<b>MOR</b>	"Mammoth" type terminal box included in the case of purchase of the fan coil unit complete with on-board control. To be ordered separately for wall-mounted controls.
	<b>2V2</b>	2-way valve with actuator 230V for 2 pipes units		<b>3V2</b>	3-way valve with actuator 230V for 2 pipes units
	<b>2V4</b>	2-way valve with actuator 230V for 4 pipes units		<b>3V4</b>	3-way valve with actuator 230V heating coil for 4 pipes units
	<b>TEL</b>	Remote control management system. Motherboard + Air sensor + Water sensor - I.R. reciever + I.R. Remote control (control 2-4 pipe units, with/without valves). Fan 7A-230Vac. Valves: 2A-230Vac.		<b>RA</b>	Electrical heater 230V (0,7 kW - 2 kW). Power relay and safety thermostat included. Not available separately.
	<b>RB</b>	Electrical heater 230V (1 kW - 3 kW). Power relay and safety thermostat included. Not available separately.			

# VE: VII, VIF, OIP, OII

Range of built-in fan coils,  
equipped with AC or DC Brushless motor

1,4 kW ÷ 10,7 kW

## Technical features

- Galvanised sheet metal construction, complete with insulation. Complete with regenerable filter
- Standard natural drain condensate tray (**only for horizontal units**).
- Centrifugal type fans with 6 speeds, 3 of which are connected in the standard configuration (**no MB**).
- Three-row heat exchanger coils in copper tubes and aluminium fins with hydrophilic surface treatment for rapid condensate drainage.
- it is recommended to install the valve kits on any type of system.

## MB version

- Brushless motor
- Fan modulation 0-100%.

## S version

- Version with silenced motor, reduced capacitor.
- Thermal-acoustic insulation with reinforced vibration damper

## 4 version

- Version with second hydronic coil



For 4-pipe systems  
Additional coil for heating only

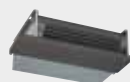
## P version

- Electric AC motor, asynchronous single-phase squirrel cage motor
- TH thermal protection (Klixon)
- Run capacitor always on
- 4 poles, IP42, Class B, double insulation, 230Vac-1Ph-50/60Hz

## Configurations



**VII** Fitted vertical units, bottom inlet



**OIP** Fitted horizontal units, rear inlet



**VIF** Fitted vertical units, front inlet



**OII** Fitted horizontal units, bottom inlet

## Versions

### Powered

<b>VE VII P</b>	Fitted vertical units, bottom inlet powered
<b>VE VIF P</b>	Fitted vertical units, front inlet powered
<b>VE OIP P</b>	Fitted horizontal units, rear inlet powered
<b>VE OII P</b>	Fitted horizontal units, bottom inlet powered

### Powered with Brushless Motor

<b>VE VII P MB</b>	Fitted vertical units, bottom inlet powered with brushless motor
<b>VE VIF P MB</b>	Fitted vertical units, front inlet powered with brushless motor
<b>VE OIP P MB</b>	Fitted horizontal units, rear inlet powered with brushless motor
<b>VE OII P MB</b>	Fitted horizontal units, bottom inlet powered with brushless motor

### Silenced

<b>VE VII S</b>	Fitted vertical units, bottom inlet silenced
<b>VE VIF S</b>	Fitted vertical units, front inlet silenced
<b>VE OIP S</b>	Fitted horizontal units, rear inlet silenced
<b>VE OII S</b>	Fitted horizontal units, bottom inlet silenced

### Silenced with Brushless Motor

<b>VE VII S MB</b>	Fitted vertical units, bottom inlet silenced with brushless motor
<b>VE VIF S MB</b>	Fitted vertical units, front inlet silenced with brushless motor
<b>VE OIP S MB</b>	Fitted horizontal units, rear inlet silenced with brushless motor
<b>VE OII S MB</b>	Fitted horizontal units, bottom inlet silenced with brushless motor

Available in 4-pipes version. Check the codes on the price-list.

VE: VII, VIF, OIP, OII												
Energy performance in 2-pipe version												
VE			13	23	33	43	53	63	73	83	93	103
Cooling capacity (1) (*)	max	W	1.579	2.105	2.663	3.179	3.947	4.474	5.811	6.758	7.926	9.495
	med	W	1.317	1.755	2.264	2.702	3.521	3.991	5.211	6.062	7.107	8.515
	min	W	1.169	1.557	1.970	2.354	3.111	3.528	4.442	5.169	6.201	7.431
Heating capacity (2) (*)	max	W	1.870	2.455	2.990	3.355	4.080	4.720	6.000	6.650	7.750	9.050
	med	W	1.572	2.067	2.585	2.918	3.765	4.347	5.573	6.207	7.235	8.469
	min	W	1.369	1.799	2.198	2.481	3.252	3.757	4.614	5.136	6.151	7.199
Heating capacity (3) (*)	max	W	3.740	4.910	5.980	6.710	8.160	9.440	12.000	13.300	15.500	18.100
	med	W	3.154	4.146	5.185	5.852	7.551	8.718	11.176	12.447	14.508	16.983
	min	W	2.745	3.606	4.406	4.972	6.519	7.533	9.250	10.195	12.329	14.431
Pressure drop Cooling (*)		kPa	14,5	18,1	20,5	23,0	25,1	26,8	27,2	30,0	31,9	32,4
Pressure drop Heating (3) (*)		kPa	15,9	19,2	20,1	20,0	20,9	23,2	22,6	22,6	23,8	22,9
Water flow rate Cooling (*)		l/h	272	362	458	547	679	769	999	1.162	1.363	1.633
Water flow rate Heating (3) (*)		l/h	322	422	514	577	702	812	1.032	1.144	1.333	1.557
Air flow (*)	max	m <sup>3</sup> /h	370	400	500	550	670	720	1.000	1.050	1.280	1.310
	med	m <sup>3</sup> /h	285	308	400	440	590	634	890	935	1.139	1.166
	min	m <sup>3</sup> /h	226	244	305	336	462	497	650	683	870	891
Sound pressure (4)		dB(A)	24	25	30	31	26	27	34	35	39	40
			31	31	38	38	33	34	41	41	46	46
			38	38	44	45	37	37	43	45	48	49
Power supply	V~/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Water connections		"G	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F
Condensing drain ø		mm	20	20	20	20	20	20	20	20	20	20
Electric motors		n°	1	1	1	1	1	1	1	1	1	1
Power input (*)		W	55	55	85	85	75	75	145	145	175	175
Fans		n°	1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)		Pa	60	60	60	60	60	60	60	60	60	60
Energy performance in 4-pipes version												
Cooling capacity (1) (*)		W	1.450	1.940	2.470	2.920	3.650	4.110	5.390	6.230	7.350	8.810
Sensible capacity (1) (*)		W	1.240	1.570	2.020	2.220	2.780	3.110	4.210	4.640	5.520	6.440
Heating capacity (2) (*)		W	940	990	1.590	1.675	2.190	2.275	3.145	3.230	3.995	4.055
Heating capacity (3) (*)		W	1.880	1.980	3.180	3.350	4.380	4.550	6.290	6.460	7.990	8.110
Pressure drop (3) (*)		kPa	7,3	8,0	11,7	12,9	21,3	22,9	41,1	43,3	37,7	38,8
Energy performance in BRUSHLESS version **												
Cooling cap. (1)	range	W	1.810	2.320	2.830	3.220	4.630	5.070	6.010	6.820	7.440	8.790
Heating capacity (2)	range	W	985	1.233	1.670	1.557	2.063	2.285	2.949	2.174	3.388	3.898
Heating capacity (3)	range	W	4.680	5.860	6.840	7.250	10.510	11.650	13.280	14.300	15.300	17.600
Air flow		m <sup>3</sup> /h	537	536	625	627	1.018	1.022	1.180	1.187	1.255	1.255
Power input (5)		W	9	9	9	9	10	10	11	11	11	11
Sound pressure (5)		dB(A)	23	23	26	26	22	22	24	24	25	25
Power supply		V~/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Signal		Vdc	0-10									
Motors		n°	1									
Fans		n°	1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)		Pa	70	70	70	70	70	70	70	70	70	70
Energy performance in BRUSHLESS 4-pipe version												
Hot water exchanger (2)		W	895	938	1.479	1.556	2.087	2.163	2.959	3.057	3.633	3.687
Hot water exchanger (3)		W	1.800	1.880	2.960	3.120	4.180	4.330	5.920	6.120	7.270	7.370

**Left-hand side water connections**

Note: Yields and air flow rates refer to 0 Pa head conditions. For different useful heads refer to air flow rate variation diagrams.

\*\* Data referring to the 2-pipe silenced version only. For different versions refer to the product manual.

(1) Inlet air temperature: 27°C b.s./19.5°C b.u.

Inlet/outlet water temperature: 7°C / 12°C

(2) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 45°C / 40°C

(3) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 70°C / 60°C

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

(5) Rated power consumption

(6) Version 4

(7) Refer to product manual for yields.

(\*) Maximum speed

## VE: VII, VIF, OIP, OII version P

## Energy performance in 2-pipe powered version

VE			13	23	33	43	53	63	73	83	93	103
Cooling capacity (1) (*)	max	W	1.683	2.296	2.899	3.255	4.163	4.701	6.164	7.150	8.568	10.337
	med	W	1.577	2.141	2.812	3.242	3.851	4.357	5.848	6.800	8.082	9.770
	min	W	1.387	1.879	2.650	3.062	3.345	3.807	5.075	5.910	7.060	8.499
Heating capacity (2) (*)	max	W	2.000	2.692	3.260	3.553	4.317	4.976	6.389	7.061	8.415	9.895
	med	W	1.852	2.477	3.157	3.410	3.936	4.545	6.000	6.651	7.849	9.253
	min	W	1.592	2.124	2.942	3.187	3.335	3.878	5.078	5.637	6.693	7.851
Heating capacity (3) (*)	max	W	4.000	5.380	6.510	7.100	8.630	9.950	12.760	14.120	16.830	19.790
	med	W	3.704	4.954	6.313	6.821	7.872	9.090	12.000	13.300	15.700	18.506
	min	W	3.184	4.249	5.885	6.374	6.671	7.757	10.156	11.276	13.388	15.704
Pressure drop Cooling (*)		kPa	14.7	19.4	21.6	23.0	25.1	26.5	27.5	30.3	33.7	34.6
Pressure drop Heating (3) (*)		kPa	18.1	23.0	23.8	22.3	23.4	25.8	25.6	25.6	28.0	27.4
Water flow rate Cooling (*)		l/h	273	375	471	547	679	767	1.006	1.168	1.400	1.689
Water flow rate Heating (3) (*)		l/h	344	463	560	611	742	856	1.098	1.214	1.447	1.702
Air flow (*)	max	m <sup>3</sup> /h	410	460	570	600	730	780	1.100	1.150	1.450	1.500
	med	m <sup>3</sup> /h	360	400	540	560	625	670	990	1.040	1.290	1.340
	min	m <sup>3</sup> /h	280	310	480	500	475	515	750	790	990	1.020
Sound pressure (4)		dB(A)	29	30	41	42	25	27	37	38	43	44
			36	38	44	45	32	34	43	44	44	49
			39	42	45	47	37	39	47	48	51	52
Power supply	V~/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Water connections	"G		1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F
Condensing drain ø	mm		20	20	20	20	20	20	20	20	20	20
Electric motors	n°		1	1	1	1	1	1	1	1	1	1
Power input (*)	W		55	55	125	125	115	115	195	195	230	230
Fans	n°		1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)	Pa		87	87	105	105	100	100	103	103	115	115

## Energy performance in 4-pipes powered version

Cooling capacity (1) (*)	W	1.550	2.120	2.680	3.150	3.890	4.330	5.710	6.640	7.970	9.620
Sensible capacity (1) (*)	W	1.330	1.740	2.220	2.430	2.990	3.300	4.500	4.990	6.050	7.130
Heating capacity (2) (*)	W	1.009	1.090	1.739	1.820	2.345	2.405	3.347	3.460	4.350	4.450
Heating capacity (3) (*)	W	2.010	2.180	3.470	3.640	4.690	4.810	6.690	6.910	8.700	8.900
Pressure drop (3) (*)	kPa	8,3	9,7	13,9	15,3	24,4	25,6	46,5	49,6	44,7	46,8

## Energy performance in BRUSHLESS powered version \*\*

Cooling cap. (1)	range	W	1.670	2.220	2.830	3.280	4.310	4.880	6.010	6.970	8.470	10.210
Heating capacity (2)	range	W	2.096	2.749	3.372	3.679	4.736	5.468	6.579	7.262	8.793	10.325
Heating capacity (3)	range	W	4.190	5.490	6.740	7.330	9.470	10.930	13.150	14.520	17.580	20.640
Air flow	m <sup>3</sup> /h		440	475	600	630	840	900	1.150	1.200	1.550	1.600
Power input (5)	W		55	55	65	65	85	85	90	90	180	180
Sound pressure (5)	dB(A)		13	13	16	16	16	16	17	17	20	20
			29	30	33	35	29	31	36	37	43	44
			40	43	47	48	42	44	48	49	52	53
Power supply	V~/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Signal	Vdc							0-10				
Motors	n°		1	1	1	1	1	1	1	1	1	1
Fans	n°		1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)	Pa		103	103	111	112	120	120	137	138	174	175

## Energy performance in BRUSHLESS 4-pipes powered version

Hot water exchanger (2)	W	1.052	1.107	1.822	1.861	2.573	2.635	3.440	3.542	4.552	4.689
Hot water exchanger (3)	W	2.100	2.210	3.640	3.720	5.070	5.270	6.880	7.080	9.100	9.370

## Left-hand side water connections

Note: Yields and air flow rates refer to 0 Pa head conditions. For different useful heads refer to air flow rate variation diagrams.

\*\* Data referring to the 2-pipe silenced version only. For different versions refer to the product manual.

(1) Inlet air temperature: 27°C b.s./19.5°C b.u.

Inlet/outlet water temperature: 7°C / 12°C

(2) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 45°C / 40°C

(3) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 70°C / 60°C

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

(5) Rated power consumption

(6) Version 4

(7) Refer to product manual for yields.

(\*) Maximum speed

VE: VII, VIF, OIP, OII version S												
Energy performance in 2-pipe silenced version												
VE			13	23	33	43	53	63	73	83	93	103
Cooling capacity (1) (*)	max	W	1.030	1.390	1.810	2.160	2.690	3.050	3.900	4.590	4.860	5.960
	med	W	932	1.276	1.653	1.965	2.514	2.880	3.641	4.277	4.453	5.460
	min	W	831	1.154	1.532	1.834	2.386	2.747	3.427	4.042	4.156	5.118
Heating capacity (2) (*)	max	W	1.247	1.656	2.088	2.348	2.856	3.309	4.143	4.649	4.858	5.818
	med	W	1.050	1.419	1.770	1.977	2.490	2.917	3.597	4.029	4.129	4.942
	min	W	917	1.262	1.620	1.823	2.342	2.759	3.350	3.770	3.808	4.582
Heating capacity (3) (*)	max	W	2.500	3.320	4.180	4.700	5.720	6.620	8.290	9.300	9.720	11.640
	med	W	2.099	2.839	3.541	3.954	4.981	5.834	7.195	8.059	8.259	9.885
	min	W	1.834	2.524	3.240	3.647	4.685	5.519	6.701	7.542	7.617	9.164
Pressure drop Cooling (*)		kPa	6,2	7,9	9,4	10,6	11,6	12,4	12,2	13,8	12,0	12,7
Pressure drop Heating (3) (*)		kPa	7,1	8,7	9,8	9,8	10,3	11,4	10,8	11,1	9,4	9,5
Water flow rate Cooling (*)		l/h	177	239	311	372	463	525	671	789	836	1.025
Water flow rate Heating (3) (*)		l/h	215	286	359	404	492	569	713	800	836	1.001
Air flow (*)	max	m³/h	200	220	290	320	390	420	570	610	630	670
	med	m³/h	150	170	220	240	310	340	450	480	480	510
	min	m³/h	120	140	190	210	280	310	400	430	420	450
Sound pressure (4)		dB(A)	10	10	14	14	12	12	17	17	15	15
			11	11	16	16	13	13	19	19	18	18
			16	16	22	22	18	18	25	25	24	24
Power supply	V~/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Water connections	"G		1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F	1/2" F
Condensing drain ø	mm		20	20	20	20	20	20	20	20	20	20
Electric motors	n°		1	1	1	1	1	1	1	1	1	1
Power input (*)	W		55	55	80	80	80	80	145	145	180	180
Fans	n°		1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)	Pa		60	60	60	60	63	63	75	75	78	78
Energy performance in 4-pipes silenced version												
Cooling capacity (1) (*)	W		1.000	1.350	1.760	2.080	2.600	2.960	3.820	4.450	4.760	5.790
Sensible capacity (1) (*)	W		810	1.030	1.380	1.500	1.880	2.130	2.830	3.150	3.350	3.970
Heating capacity (2) (*)	W		628	670	1.115	1.166	1.526	1.604	2.179	2.256	2.517	2.595
Heating capacity (3) (*)	W		1.260	1.340	2.230	2.340	3.060	3.210	4.360	4.520	5.040	5.190
Pressure drop (3) (*)	kPa		3,3	3,7	5,7	6,3	10,4	11,4	19,7	21,1	15,0	15,9
Energy performance in BRUSHLESS silenced version **												
Cooling cap. (1)	range	W	1.430	1.910	2.380	2.820	3.600	4.070	5.230	6.070	6.860	8.240
Heating capacity (2)	range	W	1.769	2.332	2.79189	3.109	3.897	4.501	5.659	6.269	7.014	8.210
Heating capacity (3)	range	W	3.540	4.670	5.580	6.220	7.800	9.010	11.320	12.540	14.030	16.430
Air flow		m³/h	340	370	450	490	625	670	915	960	1.100	1.130
Power input (5)		W	55	55	65	65	85	85	90	90	90	90
Sound pressure (5)		dB(A)	10	10	10	10	11	12	11	12	10	10
			17	18	22	22	21	22	26	28	27	28
			30	31	34	36	30	31	35	36	39	40
Power supply	V~/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Signal	Vdc							0-10				
Motors	n°							1				
Fans	n°		1	1	1	1	2	2	2	2	2	2
Maximum useful static pressure (7)	Pa		72	72	79	80	85	85	86	86	73	83
Energy performance in BRUSHLESS 4-pipes silenced version												
Hot water exchanger (2)	W		895	938	1.479	1.556	2.087	2.163	2.959	3.057	3.633	3.687
Hot water exchanger (3)	W		1.800	1.880	2.960	3.120	4.180	4.330	5.920	6.120	7.270	7.370

**Left-hand side water connections**

Note: Yields and air flow rates refer to 0 Pa head conditions. For different useful heads refer to air flow rate variation diagrams.

\*\* Data referring to the 2-pipe silenced version only. For different versions refer to the product manual.

(1) Inlet air temperature: 27°C b.s./19.5°C b.u.

Inlet/outlet water temperature: 7°C / 12°C

(2) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 45°C / 40°C

(3) Inlet air temperature: 20°C b.s.

Inlet / outlet water temperature: 70°C / 60°C

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

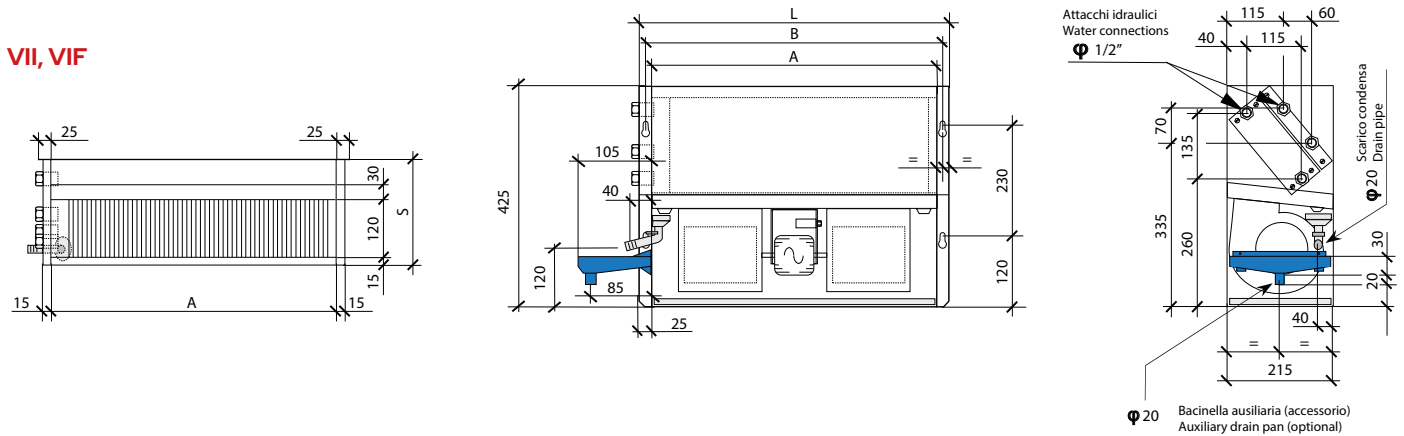
(5) Rated power consumption

(6) Version 4

(7) Refer to product manual for yields.

(\*) Maximum speed

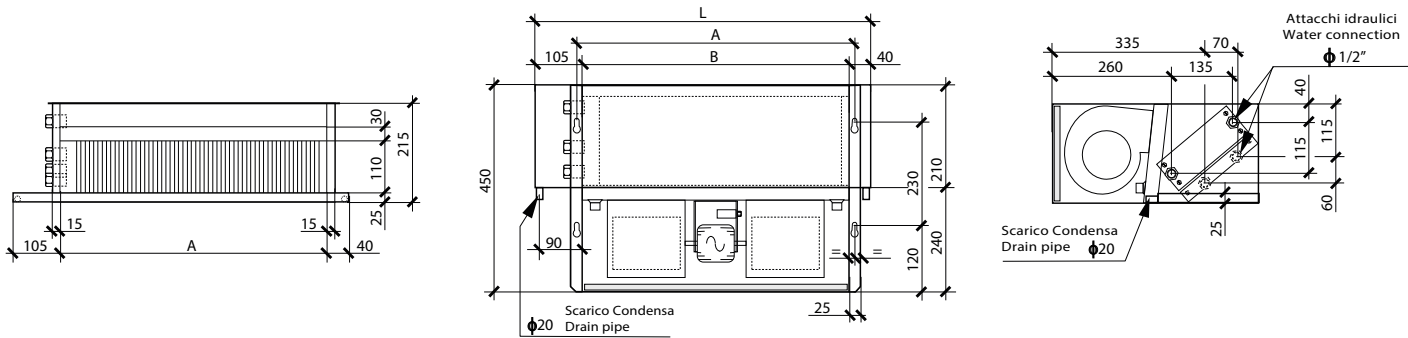
VII, VIF



Dimensions vertical versions

	VE	13	23	33	43	53	63	73	83	93	103
A	mm	400	400	600	600	800	800	1.000	1.000	1.200	1.200
B	mm	425	425	625	625	825	825	1.025	1.025	1.225	1.225
L	mm	450	450	650	650	850	850	1.050	1.050	1.250	1.250

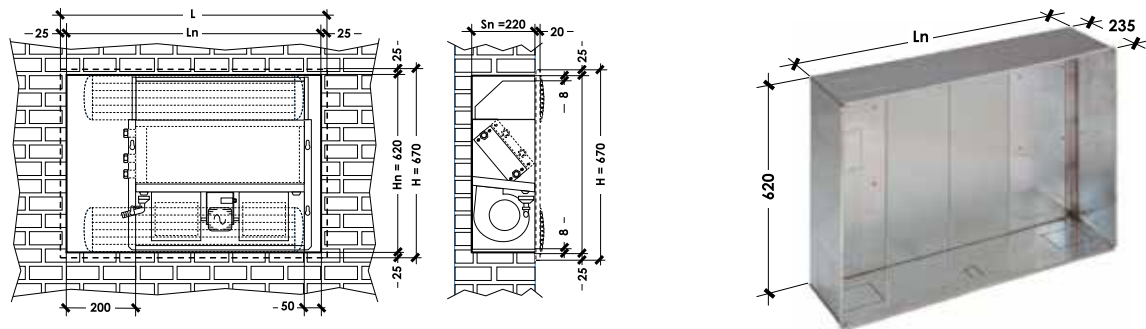
OII, OIP



Dimensions horizontal versions

	VE	13	23	33	43	53	63	73	83	93	103
A	mm	400	400	600	600	800	800	1.000	1.000	1.200	1.200
B	mm	425	425	625	625	825	825	1.025	1.025	1.225	1.225
L	mm	545	545	745	745	945	945	1.145	1.145	1.345	1.345

FTI



Dimensions		13/23	33/43	53/63	73/83	93/103
Ln	mm	650	850	1.050	1.250	1.450
L	mm	700	900	1.100	1.300	1.500

**Accessories**

	<b>PA</b>	Suction plenum with circular connections						
			Size	13/23	33/43	53/63	73/83	93/103
			No. of couplings fitted with concentric collars Ø 200/180/160 mm	1	2	2	3	4
	<b>PM</b>	Outlet plenum with circular connections						
	<b>P1</b>	Aesthetic panel in pre-painted sheet metal complete with suction and delivery grille.		<b>P2</b>	Aesthetic panel in pre-painted sheet metal complete with suction and delivery grille. Equipped with control access flaps			
	<b>PMI</b>	Plenum 90° outlet		<b>FTI</b>	Galvanised sheet metal installation frame. Suitable for installation niche			
	<b>PMP1</b>	Condensate lifting pump. Max. water flow rate 8 l/h with 0 m.c.a., water flow rate 6.5 l/h with 1 m.c.a., water flow rate 4 l/h with 3 m.c.a., water flow rate 0 l/h with 6 m.c.a.. Equipped with 8A@250V alarm contact (suitable for all VERTICAL versions)		<b>PMP2</b>	Condensate lifting pump. Max. water flow rate 8 l/h with 0 m.c.a., water flow rate 6.5 l/h with 1 m.c.a., water flow rate 4 l/h with 3 m.c.a., water flow rate 0 l/h with 6 m.c.a.. Equipped with 8A@250V alarm contact (suitable for all HORIZONTAL versions)			
	<b>TMB</b>	Bimetal minimum thermostat: automatically stops ventilation if the temperature of the water entering the coil drops below 32°C in heating mode (winter).		<b>SND-W4</b>	Water temperature probe (type NTC 4700 Ohm@25°C) with adjustable minimum, cable length 1 m. Alternative to TMB thermostat.			
	<b>SDI.4 X3A</b>	4-output relay board. Suitable for controlling up to 4 3-speed motors. Only for AC motors. Maximum capacity: 4x3 A 230Vac		<b>MOR</b>	"Mammoth" type terminal box included in the case of purchase of the fan coil unit complete with on-board control. To be ordered separately for wall-mounted controls.			
	<b>2V2</b>	2-way valves for 2-pipe system, with servo control 230V		<b>3V2</b>	3-way valves for 2-pipe system, with 230V servo control			
	<b>2V4</b>	2-way valves for 4-pipe system, with 230V servo control		<b>3V4</b>	3-way valves for 4-pipe system, with 230V servo control			
	<b>TEL</b>	System for management with remote control. Motherboard+Air probe+Water probe+R.i.receiver+Remote control (2/4 pipe management, with/without valves). Fan 7A-230Vac. Valves: 2A-230Vac.		<b>RA</b>	230 V electric heater (0.7 kW - 2 kW). Power relay and safety thermostat included. Cannot be ordered separately.			