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Vega I

Fan coil with centrifugal fan

VEGA I
TOP NOTCH PRODUCTS ALWAYS

VERSION VN

VERSION VM

New series of fan coil units with **centrifugal fan with** high efficiency DC brushless motor.
Characterised by a maximum depth of 200 mm in the cased models and a particularly attractive aesthetic line, they are intended for residential heating and air conditioning applications. Available in 5 sizes with cooling capacities from **1.50** to **5.60** kW and air flow rates from **255** to **1190 m³/h**. In the standard version they are proposed with a single 3-row coil to which can be combined as an accessory, in the case of 4-pipe systems, an additional 1-row coil. Available in the two versions, **VM** with casing and **VN** without shell for recessed applications.
The units can be installed in both vertical and horizontal positions.

AVAILABLE VERSIONS

The range of centrifugal fan coil units includes two versions; each of them is available in different capacities.

VM - Fan coil unit with suction casing at the bottom

Composed of a sheet metal casing, a supply grille with doors to access the control, if required, in thermoplastic material and a regenerable e air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.

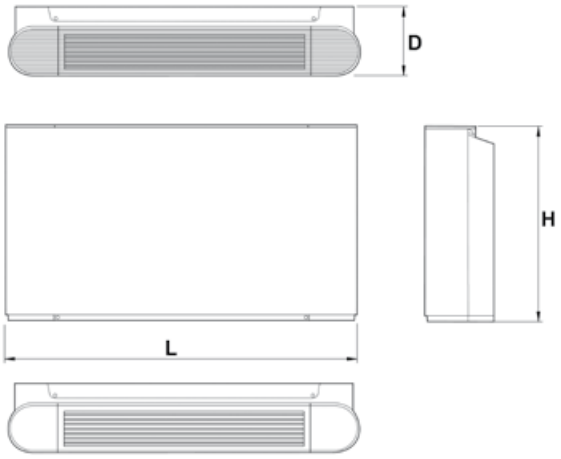
VN - Fan coil unit without casing for recessed applications

Without cover casing with regenerable air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.

CONSTRUCTION FEATURES

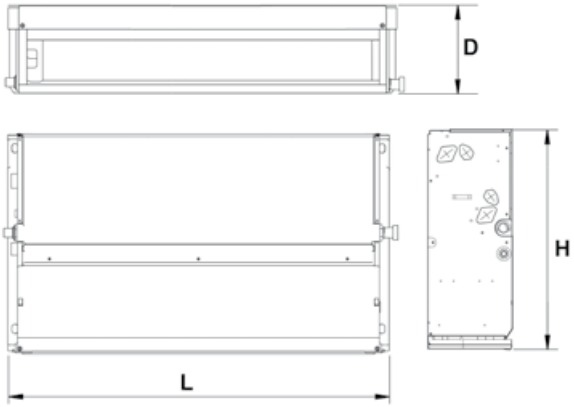
UNIT DIMENSIONS / SPECIFICATIONS

VERSION VM



Mod.	150	250	350	500	700
L (mm)	790	1020	1240		1360
H (mm)	495				
D (mm)	200				

VERSION VN



Mod.	150	250	350	500	700
L (mm)	637	867	1087		1207
H (mm)	455				
D (mm)	200				

BEARING STRUCTURE

It is made of galvanized sheet metal of adequate thickness.
There are slots at the rear to fix the unit. For models without a cover casing, there is a front mounted fan unit closing panel.

HEAT EXCHANGE COIL

3-row copper tube coil with aluminium fins blocked by mechanical expansion of the tubes. The manifolds in the upper part of the coil are equipped with air vents, while the lower part has a water drain tap*.

* The default hydraulic connection for the coil is on the LEFT. However it is possible to turn the coil and modify it to the RIGHT (see Installation Manual).

CONDENSATE DRIP TRAY

Made of thermoplastic material to avoid corrosion it allows the machine to be installed in either vertical or horizontal positions. In particular, in the horizontal installation, its shape makes it possible to collect the drops of condensate that form on the collectors during cold operation. The drain hole is made directly from the condensate drip tray and allows it to be removed during cold operation. It is present on both sides of the machine to facilitate the rotation of the coil.

FAN MOTOR

The electric motor is a DC brushless type with continuous speed regulation at high efficiency and is directly coupled to the fans and cushioned by elastic supports.

CENTRIFUGAL FAN

The fan unit consists of double inlet centrifugal fans with blades developed in length to obtain high flow rate at low speed.

AIR FILTER

Easily removable and regenerable by simply washing with water.

COVER CASING (VM only)

Made of steel sheet part painted with epoxy powder to ensure high resistance to corrosion and part in anti-UV thermoplastic material to ensure resistance to ultraviolet rays. The air diffusion grilles and the door to access the control panel, both made of anti-UV thermoplastic material are inserted in the upper part.

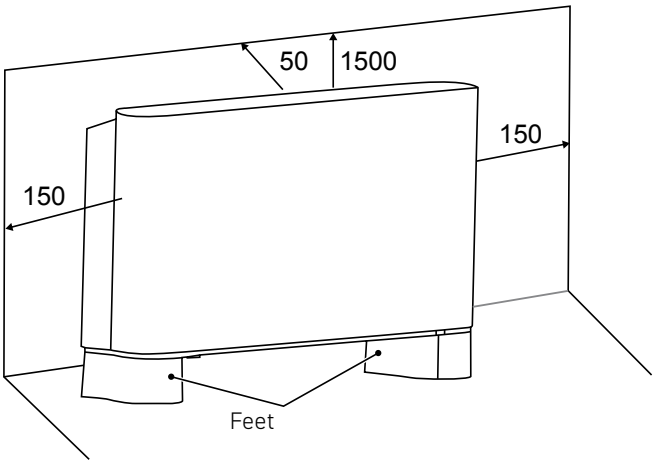
HYDRAULIC CONNECTIONS

The connections, located on the left side, are of ¾" gas female type. It is possible to rotate the coil, which is supplied as standard with left side connections, by moving the hydraulic connections to the right side.

INSTALLATION EXAMPLES

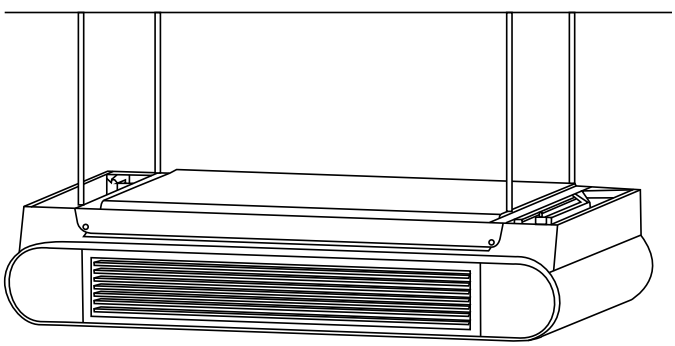
These new units are characterized by an elegant aesthetic design and multiple insertion possibilities in different types of installations. The cased models can be wall-hung or recessed (raised or supported by feet), or suspended horizontally from the ceiling. The models without casing are particularly suitable for vanishing solutions in recessed or in false ceilings.

VM UNIT WITH CASING



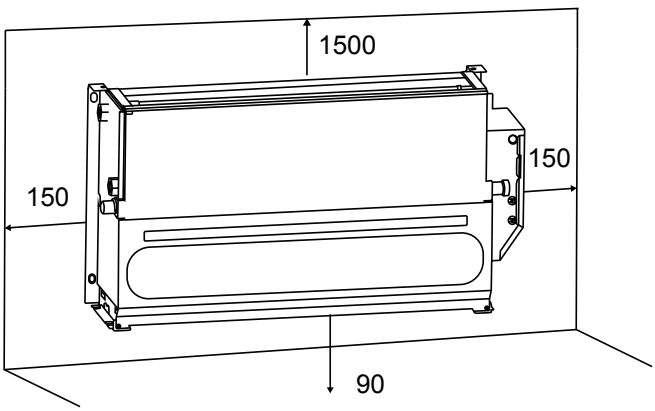
WALL-HUNG INSTALLATION

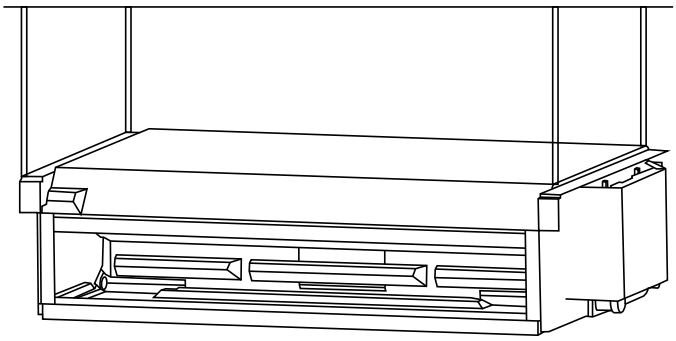
CEILING INSTALLATION



VN RECESSED UNIT

VANISHING INSTALLATION



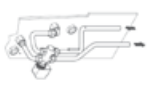


FALSE CEILING INSTALLATION

AVAILABLE ACCESSORIES

CONTROLS - INSTALLATION - HYDRAULIC CONNECTIONS

CONTROL ACCESSORIES							
MODEL		DESCRIPTION	150	250	350	500	700
TE / TER		**Thermostat with display** for on board unit or remote wall-hung installation. Allows to: 1. Turn the unit on or off 2. Choose Hot-Cool-Airing-Dehumidification mode of operation 3. Display the room temperature and set the setpoint 4. Select the fan speed	•	•	•	•	•
502-503		**Wall adapter for boxes** Adapter kit for wall installation of the TE/TER thermostat in case you want to use it on a recessed box mod. 503 (fixing centre distance 83.5 mm)	•	•	•	•	•
GC01		**Central unit module** - Allows to connect in serial network up to 16 fan coils that will be controlled as a single unit with a single TE/TER thermostat.	•	•	•	•	•
GCM09		**Wall-hung centralized control** It allows to connect up to 64 fan coils in a serial network and therefore allows, in unit or singularly for all connected fan coils, to: 1. Turn the units on or off 2. Choose the Hot-Cold mode of operation 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Weekly schedule	•	•	•	•	•

MODEL		DESCRIPTION	150	250	350	500	700
FCPW		**Support feet** in case the unit rests on the floor	•	•	•	•	•
1R FC150 COIL		**Auxiliary 1-row coil**	•				
1R FC250 COIL				•			
1R FC350-500 COIL					•	•	
1R FC700 COIL							•
FC 3R COIL		**3-way valve kit 3-way main coil**	•	•	•	•	•
FC 1R COIL		**3-way valve kit auxiliary 1-row coil**	•	•	•	•	•
FC		**Condensate drip tray** for the installation of the 3-way valve auxiliary kit	•	•	•	•	•

TECHNICAL DATA
SUMMARY TABLE

MODEL			150	250	350	500	700
Power supply		V-ph-Hz			230-1-50		
WATER: IN 7° - OUT 12°C - ROOM AIR: 27°C D.B 19°C W.B.							
Total cooling capacity	max	kW	1.50	2.35	3.50	4.30	5.60
	med	kW	1.06	1.94	2.89	3.48	4.47
	min	kW	0.92	1.19	2.22	2.71	3.14
Sensible cooling capacity	max	kW	1.14	1.79	2.65	3.25	4.62
	med	kW	0.77	1.44	2.14	2.56	3.6
	min	kW	0.66	0.86	1.57	1.91	2.43
Water flow rate	max	l/h	258	404	602	740	963
	med	l/h	182	334	497	599	769
	min	l/h	158	205	382	466	540
Water side pressure drops	max	kPa	13.94	13.33	34.08	54.22	50.67
	med	kPa	8.21	9.98	24.63	36.22	33.38
	min	kPa	6.16	4.59	15.39	22.78	17.73
WATER: IN 45/70°C - OUT 40/60°C - ROOM AIR: 20°C							
Heat output	max	kW	1.57 / 3.18	2.60 / 5.26	3.80 / 7.68	4.70 / 9.47	6.00 / 12.18
	med	kW	1.07 / 2.18	2.11 / 4.28	3.10 / 6.3	3.70 / 7.48	4.77 / 9.69
	min	kW	0.92 / 189	1.34 / 2.71	2.35 / 4.74	2.81 / 4.74	3.36 / 6.81
Water flow rate	max	l/h	270 / 270	447 / 450	654 / 660	808 / 820	1032 / 1050
	med	l/h	184 / 190	363 / 370	533 / 540	636 / 650	820 / 830
	min	l/h	158 / 160	230 / 230	404 / 410	483 / 500	578 / 590
Water side pressure drops	max	kPa	15 / 8.62	14 / 10.28	35 / 26.48	54 / 38.23	55 / 30.5
	med	kPa	8 / 4.5	10 / 7.18	24 / 18.64	37 / 25.3	38 / 20.35
	min	kPa	6 / 3.51	5 / 3.26	15 / 11.34	22 / 15.9	19 / 10.98
WATER: IN 70°C - OUT 60°C - AMBIENT AIR: 20°C							
Auxiliary coil heat output	max	kW	1.82	2.46	3.78	4.4	5.87
	med	kW	1.61	1.91	3.3	3.75	5.22
	min	kW	1.27	1.32	2.63	3.15	4.19
Auxiliary coil water flow rate	max	l/h	120	200	250	290	390
	med	l/h	110	150	210	250	340
	min	l/h	80	100	170	200	260
Water side pressure drops auxiliary coil	max	kPa	12.54	29.06	61.88	80.05	145.93
	med	kPa	10.25	19.07	49.07	61.91	118.24
	min	kPa	6.89	10.13	32.61	44.87	79.31
GENERAL DATA							
Air flow rate	max	m³/h	255	400	595	790	1190
	med	m³/h	170	315	470	580	855
	min	m³/h	150	190	340	410	505
Air flow with main coil only for static pressure available 0/12/30 Pa	max	m³/h	333/280/146	489/392/32	683/570/261	893/812/656	1350/1258/1091
	med	m³/h	276/210/43	345/128/24	538/367/31	666/552/237	1029/899/630
	min	m³/h	192/77/24	232/19/19	397/197/25	475/258/28	677/451/31
Air flow rates with main and auxiliary coils for static pressure available 0/12/30 Pa	max	m³/h	318/264/131	465/373/47	641/527/258	845/764/606	1198/1112/949
	med	m³/h	265/198/31	327/164/25	508/339/31	631/516/229	897/774/554
	min	m³/h	186/76/24	222/20/20	357/95/24	452/251/228	574/386/32
Absorbed power	max/med/min	W	15/9/ 8	17/12/7	26/17/10	50/25/14	96/44/17
Maximum current consumption	max	A	0.18	0.20	0.26	0.49	0.85
Sound power	max/med/min	dB(A)	47/36/34	43/37/29	52/44/36	59/51/43	64/56/45
Sound pressure (measured at 1 m distance in reverberation chamber)	max/med/min	dB(A)	34/24/21	29/24/18	38/32/23	46/38/30	50/42/31
Motor		type			DC brushless		
No. of fans (centrifugal)		No.	1	2	2	2	3
Maximum operating pressure		bar			16		
Main 3R coil water content		l	0.46	0.68	0.90	0.90	1.02
Auxiliary 1R coil water content		l	0.15	0.23	0.30	0.30	0.34
Main 3R coil connections	F	"	3/4" G	3/4" G	3/4" G	3/4" G	3/4" G
Auxiliary 1R coil connections	F	"	1/2" G	1/2" G	1/2" G	1/2" G	1/2" G
Condensate discharge connections		mm			18.5		
Gross/net weight VM version		kg	23.5/18	27.5/21.5	32.5/25.5	32.5/25.5	36/28.5
Gross/net weight VN version		kg	19.5/14	22.5/16.5	26.5/19.5	26.5/19.5	29.5/22

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