

FAN COIL UFAD



VP/VP_Plus/VC

Underfloor Fan-Coil

Thermal and refrigerant power from 3,2 to 4,2 kW

Air flow 380 m³/h



Features

The V series fan coils are completely integrated into the raised access floor, arranged in the plenum under the floor. They are completely invisible thanks to the robust grilles on the floor for the air supply. When necessary they are equipped with an additional return air grille and can therefore be used as active elements of an island of thermal comfort, or, in the ducted variation, they can be active elements of an air treatment system always under the floor.

Of considerable power, they are designed to operate in heating and cooling. They allow a high level of comfort in air dehumidification thanks to the 3-row heat exchanger coil supplied with water.

The V series units were designed in 3 variations to best fit all plant requirements. They are available in the standard VP variant, in the ducted VC variant and in the VP_Plus variant with remote controller for a better customization of the environment comfort.

The V series fan coils are very versatile machines that can work as independent units (in the case of small/medium environment dimensions) or as active terminals in Ufad systems in conjunction to the EAM series conditioning machines, for the treatment of air in confined spaces and perimeter areas where it is necessary to ensure high thermal performance for an excellent level of comfort.

Self supporting **structure** made entirely in galvanized steel.

Forward blades centrifugal **fan** with double suction and directly coupled motor. The motor speed can be selected by choosing from 7 possible configurations. Available hydraulic head over 70 Pa.

3-row **battery** powered by water and made of copper tube with aluminum fins.

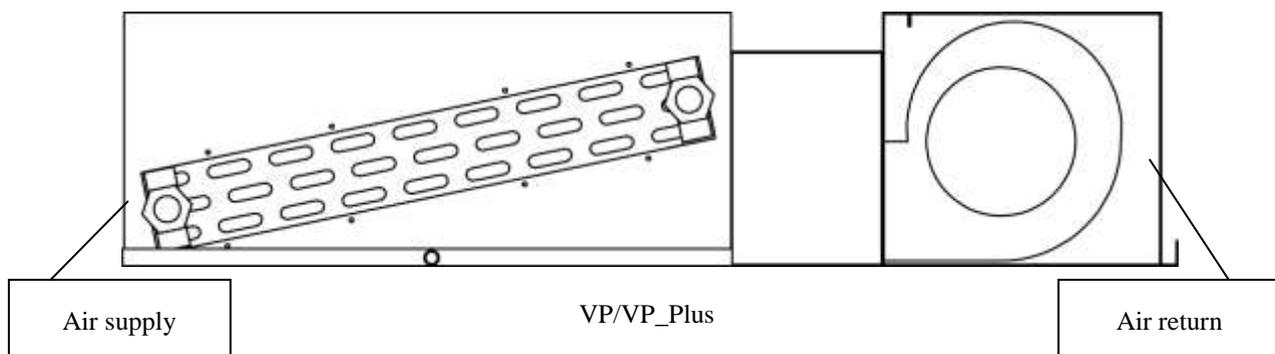
Condensate **drain pan** in galvanized steel.

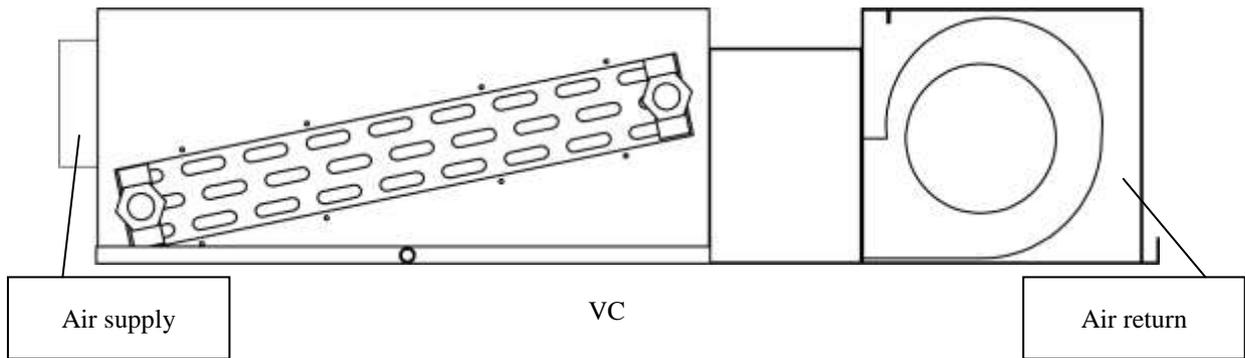
Management by room thermostat or by remote control (where provided).

Accessories

- **Condensate pump** to discharge the condensate from the machine.
- **Return and supply air walkable grille** in aluminum 600x300 (model BP).
- **Return and supply air walkable grille** in stainless steel 600x300 (model BPs).
- **Supply air walkable grille** in stainless steel 600x100 (for VC variant).
- Floor **plenum** with inlet hole Ø80 (for VC variant).

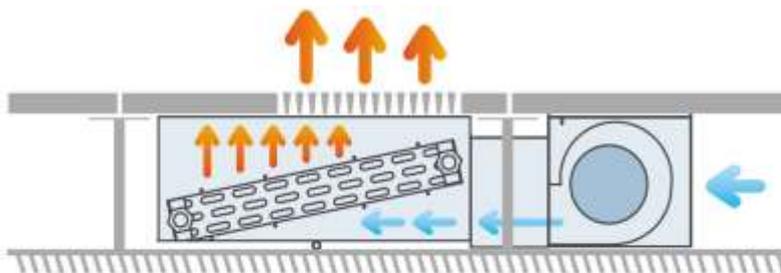
Manufacture





Configurations

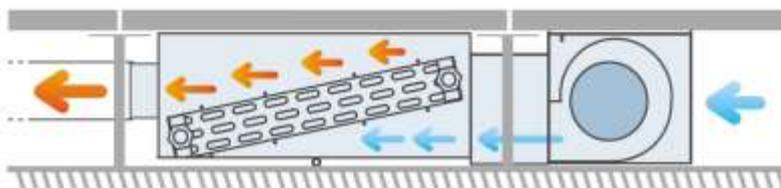
The V series fan coils were designed to be available in 3 different ways to best adapt to every type of installation.



VP/VP_Plus FAN-COIL

Functional layout: air aspirated from the underfloor plenum is ducted towards the delivery grille.

Schema funzionale di base: l'aspirazione dell'aria avviene nel plenum sottopavimento e canalizzata verso la griglia di uscita.



VC FAN-COIL

Functional layout: air aspirated from the underfloor plenum is pushed through the ducts towards the output grilles.

Schema funzionale di base: l'aria aspirata nel plenum sottopavimento e viene spinta attraverso i condotti verso le griglie di uscita.

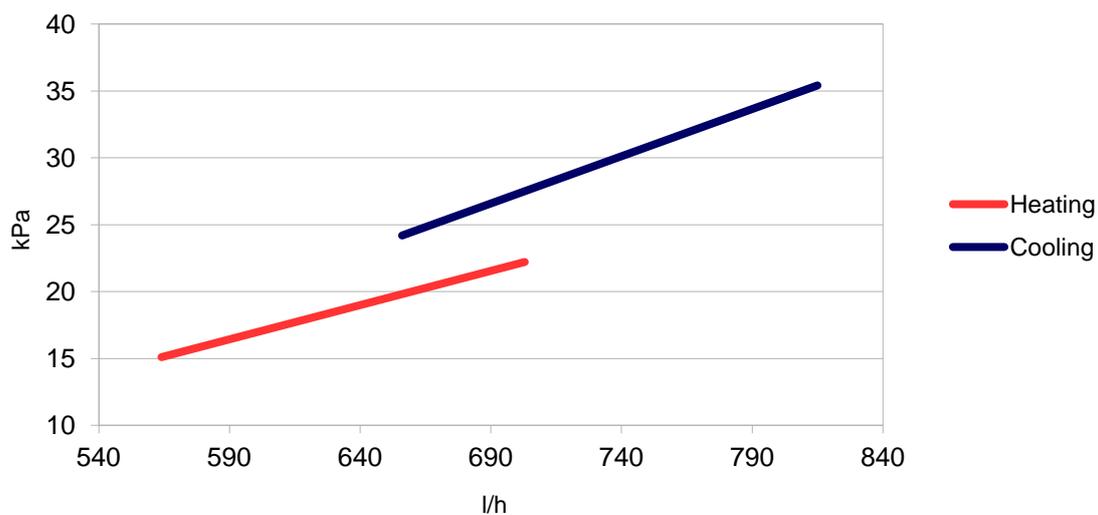
Technical data

		VP	VP_Plus	VC
VENTILATION - VENTILAZIONE				
Air Flow (max – med – min speed) - Portata Aria (max – med – min velocità)	m3/h	450 380 280	450 380 280	420 350 260
Fans - Ventilatori	n	1	1	1
Noisiness at the max speed at 1,5 m Rumorosità alla vel.max a 1,5 m	dB(A)	38,9	38,9	38,9
Residual Hydraulic Head - Prevalenza Utile Residua	Pa	70	70	70
COIL - BATTERIA				
N° Ranks - N° Ranghi	n	3	3	3
Connections - Attacchi		1/2"	1/2"	1/2"
Frontal surface – Superficie frontale	m2	0,25	0,25	0,25
Fins surface – Superficie alette	m2	10,37	10,37	10,37
Water content – Contenuto acqua	dm3	1,5	1,5	1,5
COOLING POWER – POTENZA FRIGORIFERA				
Inlet temperature / Outlet temperature Temperatura Entrata / Uscita Fluido	°C	7,0 / 12,0	7,0 / 12,0	7,0 / 12,0
Water Flow - Portata Acqua	l/h	654	654	648
Drop of Fluid Load - Perdita di Carico Fluido	kPa	23,1	23,1	23,1
Inlet Air temperature - Temperatura Entrata Aria	°C	27,0 50% U.R.	27,0 50% U.R.	27,0 50% U.R.
Outlet Air Temperature - Temperatura Uscita Aria	°C	9,8 60% U.R.	9,8 60% U.R.	9,8 60% U.R.
Total Refrigeration Power - Potenza Frigorifera Totale	kWf	4,20	4,20	3,80
Sensible Power - Potenza Sensibile	kWf	2,10	2,10	1,93
Corrective factor for yield at maximum speed – Fattore correttivo per resa alla massima velocità		1,09	1,09	1,09
Corrective factor for yield at minimum speed – Fattore correttivo per resa alla minima velocità		0,88	0,88	0,88
HEATING POWER – POTENZA RISCALDAMENTO				
Inlet / Outlet fluid temperature Temperatura Entrata / Uscita Fluido	°C	45,0 / 40,0	45,0 / 40,0	45,0 / 40,0
Water Flow - Portata Acqua	l/h	564	564	536
Drop of Fluid Load - Perdita di Carico Fluido	kPa	14,5	14,5	14,5
Inlet Air temperature - Temperatura Entrata Aria	°C	20,0	20,0	20,0
Outlet Air Temperature - Temperatura Uscita Aria	°C	40,0	40,0	40,0
Thermal Power -Potenza Termica	kWt	3,50	3,50	3,20
Corrective factor for yield at maximum speed – Fattore correttivo per resa alla massima velocità		1,10	1,10	1,10
Corrective factor for yield at minimum speed – Fattore correttivo per resa alla minima velocità		0,9	0,9	0,9
ELECTRICAL SUPPLY – ALIMENTAZIONE ELETTRICA				
Electrical Supply - Alimentazione Elettrica	V/F/Hz	230/1/50	230/1/50	230/1/50
Max Absorbed Power - Potenza Massima Assorbita	W	84	84	84
Absorbed Current - Corrente Assorbita	A	0,36	0,36	0,36
DIMENSIONS AND WEIGHT – DIMENSIONI E PESO				
Length – Lunghezza (L)	mm	800	800	800
Width – Larghezza (W)	mm	550	550	550
Height – Altezza (H)	mm	210	210	210

Weight - Peso	Kg	23	23	25
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Sound pressure level – Livello di pressione sonora									
	Hz	63	125	250	500	1000	2000	4000	Tot
Noise max speed		44,3	50,5	48,8	44,8	42,6	36,9	28,5	38,9
Noise medium speed	dB(A)	42,6	49,7	48,2	42,7	40,2	33,8	25	36,1
Noise min speed		38,6	44,1	44,9	37	33,4	24,9	17,3	34,3

FLOW-PRESSURE DROP



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