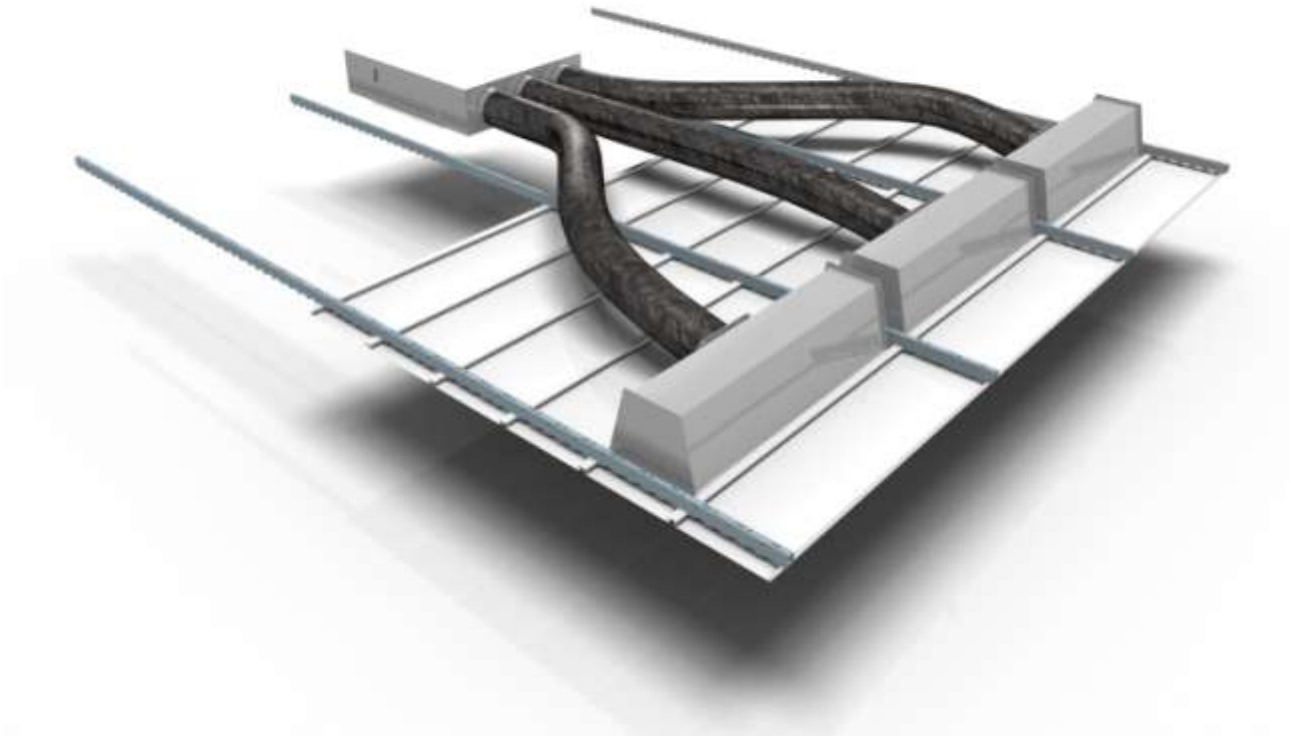
INVISIBLE AIR CONDITIONING

VS

The air system completely invisible

Thermal and refrigerant power from 3,0 to 3,5 kW

Air flow 350 m^3/h



Features

The VS fan coil is the active element of a canalized air distribution system designed by CBI Climate that once installed is perfectly integrated with the architecture of the environment that host it. Hide by the false ceiling, allow to spread the air at low speed through holes made in the false ceiling panels, both in wood and in metal.

The air diffusion plenum can be made in various dimensions, both square that rectangular to better adapt to each false ceiling panels shapes. By exploiting the holes in the false ceiling panels, the use of ceilings air diffusion nozzle is avoided, improving the architectural continuity and the shape cleaning of the false ceiling.

Of considerable power, it was designed to operate in heating and cooling. It allow a high level of comfort in air dehumidification thanks to the 3-row heat exchanger coil supplied with water. Used in conjunction with a radiant ceiling it allow a better heating and cooling distribution in the environment, as well as the air dehumidification, contributing to improve the thermal comfort for occupants.

Thanks it characteristics the VS fan coil is very versatile machine that can work as independent unit or as active terminals in an all-air system for the treatment of air to ensure constant air recirculation.

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.

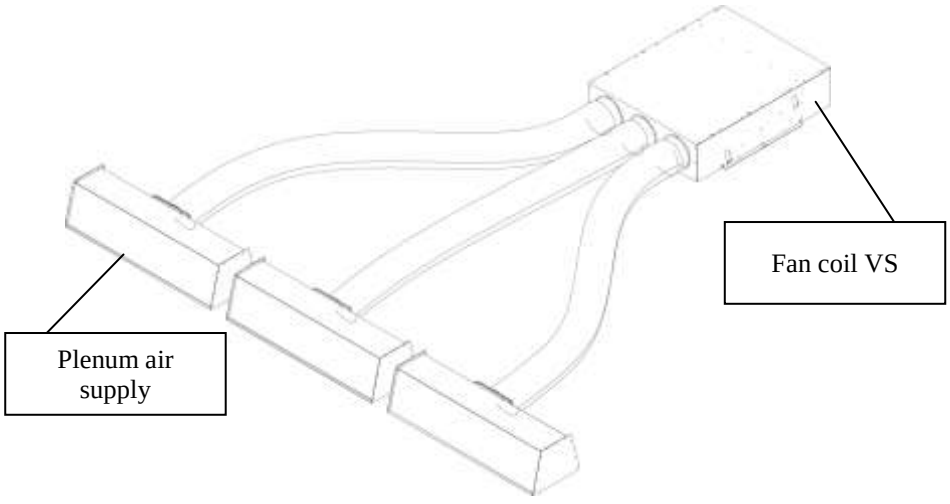
Condensate **drain pan** in galvanized steel.

Management by room thermostat.

Accessories

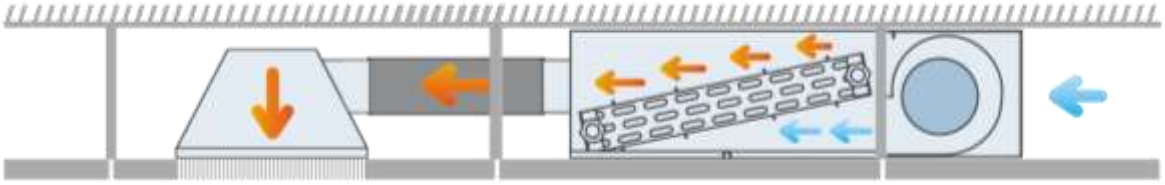
- **Condensate pump** to discharge the condensate from the machine.
- Insulated false ceiling **plenum** in galvanized steel in standard variation or customized.

Manufacture



Configurations

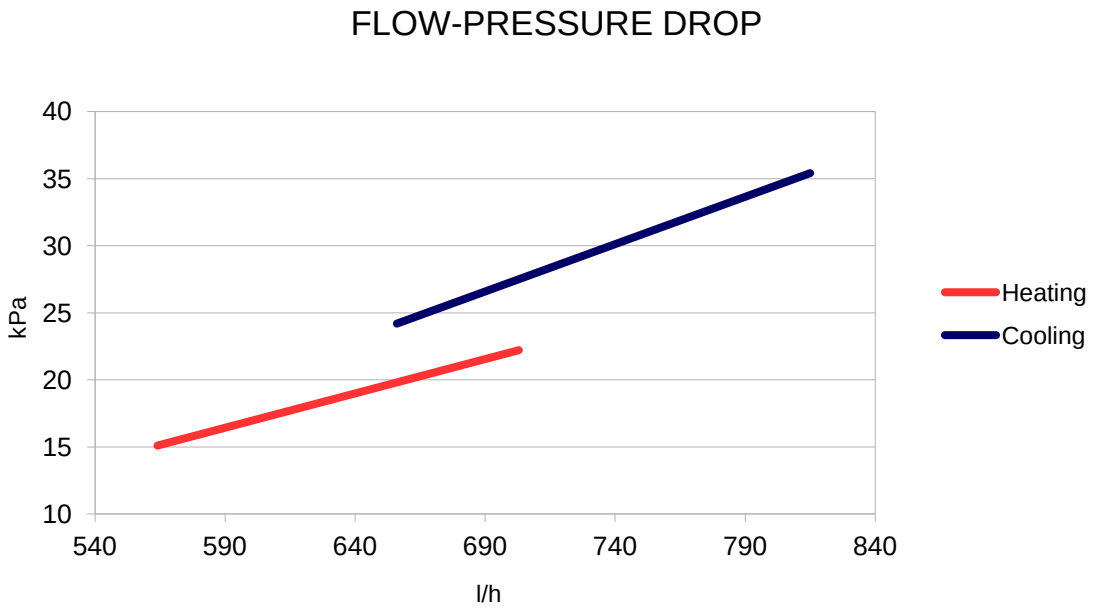
The VS fan coil is a product completely integrated with the false ceiling and allow an elevated flexibility to best adapt to a wide range of plant requirements.



Technical data

		VS	
		Cooling Condizionamento	**Heating Riscaldamento**
Air Flow (max – med – min speed) - Portata Aria (max – med – min velocità)	m3/h	420 350 260	
N° Ranks - N° Ranghi	n	3	3
Water Flow - Portata Acqua	l/h	654	564
Inlet temperature / Outlet temperature Temperatura Entrata / Uscita Fluido	°C	7,0 / 12,0	50,0 / 45,0
Drop of Fluid Load - Perdita di Carico Fluido	kPa	23,1	14,5
Inlet Air temperature - Temperatura Entrata Aria	°C	27,0 62% U.R.	20,0
Outlet Air Temperature - Temperatura Uscita Aria	°C	9,8 97% U.R.	47,4
Connections - Attacchi		½"	½"
Total Refrigeration Power - Potenza Frigorifera Totale	kWf	3,50	
Sensible Power - Potenza Sensibile	kWf	1,70	
Thermal Power -Potenza Termica	kWt		3,00
Corrective Factor to the Yield at Maximum Speed Fattore Correttivo per Resa alla Massima Velocità		1,09	1,10
Corrective Factor to the Yield at Minimum Speed Fattore Correttivo per Resa alla Minima Velocità		0,88	0,90
Residual Hydraulic Head - Prevalenza Utile Residua	Pa	80	80
Noisiness at the average speed at 1,5 m Rumorosità alla vel.media a 1,5 m	dB(A)	40	
Max Absorbed Power - Potenza Massima Assorbita	W	60	
Absorbed Current - Corrente Assorbita	A	0,27	
Electrical Supply - Alimentazione Elettrica	V/F/Hz	230 / 1 / 50	
Dimensions – Dimensioni (LxWxH)	mm	832 x 672 x 200	
Weight - Peso	Kg	24	

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**



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