

> VHF3

CEILING CONCEALED FAN COIL

NEW



* Units Series

Type unit	
VHF3 2T	2 pipes systems
VHF3 4T	4 pipes systems

* Unit specifications

Ceiling concealed fan coil, complying with Machine Directive 89/392 EEC and amendments 91/368 EEC, 93/44 EEC, 93/68 EEC, Low-Voltage Directives 72/23 EEC and Electromagnetic Compatibility Directives EMC 89/36 EEC.

The ceiling concealed fan coil unit terminal for the treatment of room air in the summer season (coil supplied with cold water) and in winter (coil supplied with hot water).

These units are suitable for indoor installation, very compact and are built to adapt to the various types of system design and meet the requirements of highly qualified designers.

The careful design of the main components, refined styling and the flexibility of the product make it suitable for any type of installation in residential, commercial or industrial applications.

Installation therefore only requires the electrical and hydraulic connections.

Construction characteristics of versions

■ **SUPPORT STRUCTURE:** in aluzink sheet, lined with a suitable thickness of polyethylene and polyester to prevent heat loss, condensation and for soundproofing.

■ **AIR FILTER:** easily removed from bottom or side, it can be cleaned simply by washing with water.

■ **HEAT EXCHANGE COIL:** made with copper pipes arranged in staggered rows to increase heat exchange efficiency along with aluminium fins, locked by the expansion of the pipes during production. Complete with water inlet/outlet manifolds.

■ **CONDENSATE TRAY:** made in galvanised sheet steel, complete with section for connection to the discharge line.

■ **FAN MOTOR:** direct drive type, the unit is equipped with a three-speed fan motor assembly with internal thermal protection and a startup capacitor always on, with a blade that is statically and dynamically balanced to minimise noise and vibration.

■ **ELECTRICAL CONNECTIONS:** The unit comes complete with a protected electrical terminal block for making the connection to the various available adjustment controls.

* Main accessories/Options

Remote [switch](#)

Remote [standard thermostat](#)

Remote [advanced thermostat](#)

[Hot-start consent thermostat](#)

[4XUT system](#)

[Relay Kit](#)

[8SF Zone Master control](#)

[8SF main power module](#)

[8SF local unit](#)

[Expansion](#) for systems with 4 pipes

[Expansion](#) for electrical resistance management

[KNX expansion](#)

[Supplementary tray](#)

[Main coil 3-way valve](#)

[Outlet plenum](#)

[Inlet grill](#)

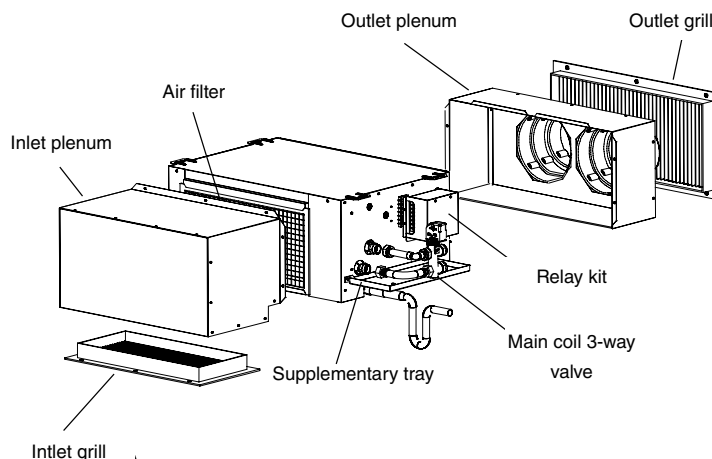
[Inlet plenum](#)

[Outlet grill](#)

[Standard air filter](#)

[Air filter Class G2](#)

NB: In case of electrical connection of the unit to Ferroli thermostats, the unit must be fitted with the relay kit accessory (KR).

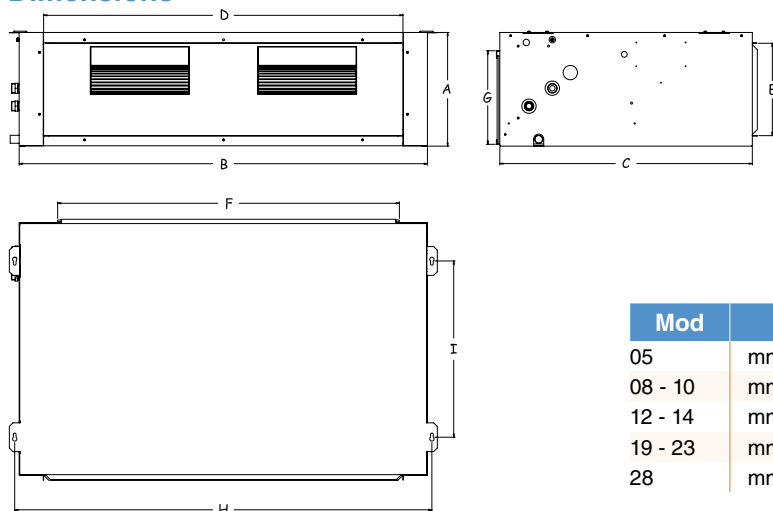


Common data		05	08	10	12	14	19	21	28		
		2T - 4T	2T - 4T	2T - 4T	2T - 4T	2T - 4T	2T - 4T	2T - 4T	2T - 4T		
Air flow rate	Max	800	1.100	1.300	1.750	1.800	2.700	3.400	4.000	m³/h	
	Med	630	850	950	1.100	1.150	2.250	2.700	3.400	m³/h	
	Min	430	630	730	750	800	1.700	2.100	2.900	m³/h	
External static pressure****		50	50	50	50	50	50	50	50	Pa	
Supply		230-150								V-Ph-Hz	
N° fans		1	2	2	2	2	2	2	2	N°	
N° motor		1	1	1	1	1	1	1	1	N°	
n° speed		3	3	3	3	3	3	3	3	N°	
Power input motor		100	109	115	220	225	345	450	730	W	
2 - PIPES		05-2T	08-2T	10-2T	12-2T	14-2T	19-2T	23-2T	28-2T		
Heating Capacity *	Max	5.800	9.900	10.900	14.300	16.100	22.300	27.200	32.600	W	
	Med	4.850	7.850	8.550	9.650	10.500	19.200	23.400	29.900	W	
	Min	3.600	6.050	6.700	6.900	7.200	15.700	20.200	26.200	W	
Water flow rate*	Max	826	1.393	1.703	2.116	2.356	3.285	3.922	4.799	l/h	
Water pressure drop *		29	32	40	46	34	42	37	38	kPa	
	Total	Max	4.800	8.100	9.900	12.300	13.700	19.100	22.800	27.900	W
Cooling Capacity ***	Sensible	Max	3.460	5.600	6.800	8.590	9.540	13.400	16.400	19.700	W
	Total	Med	4.200	7.150	7.800	9.100	9.800	16.800	20.100	25.600	W
	Sensible	Med	2.950	4.830	5.240	6.100	6.650	11.550	14.100	17.900	W
	Total	Min	3.250	5.700	6.150	6.500	6.950	14.200	17.800	23.700	W
Sensible	Min	2.200	3.780	4.050	4.280	4.550	9.560	12.250	16.330	W	
Water flow rate	Max	826	1.393	1.703	2.116	2.356	3.285	3.922	4.799	l/h	
Water pressure drop		35	39	49	56	42	52	45	47	kPa	
N° Rows coil		3	4	4	4	4	4	4	4	N°	
Water content		1,11	2,63	3,11	3,34	4,45	4,67	6	7,51	l	
Water connection	F	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	"	
Weight unit		20	32	35	48	52	61	68	81	Kg	
4 - PIPES		05-4T	08-4T	10-4T	12-4T	14-4T	19-4T	23-4T	28-4T		
Heating Capacity **	Max	4.050	6.100	7.450	9.450	11.550	14.000	17.900	21.300	W	
	Med	3.400	4.950	5.800	6.700	8.200	12.300	15.400	18.800	W	
	Min	2.600	3.900	4.600	4.800	5.900	10.100	12.600	16.800	W	
Water flow rate **	Max	348	525	641	813	993	1.204	1.539	1.832	l/h	
Water pressure drop **		34	11	20	10	24	11	30	24	kPa	
	Total	Max	3.450	6.700	7.950	9.850	11.700	14.800	18.400	22.100	W
Cooling Capacity ***	Sensible	Max	2.850	5.180	6.050	7.700	9.050	11.750	14.520	17.250	W
	Total	Med	3.100	5.700	6.500	7.500	9.000	13.300	16.200	20.300	W
	Sensible	Med	2.450	4.300	4.840	5.540	6.700	10.350	12.480	15.520	W
	Total	Min	2.500	4.720	5.400	5.500	6.900	11.250	14.050	18.600	W
Sensible	Min	1.940	3.450	3.940	4.100	4.980	8.450	10.450	14.050	W	
Water flow rate***	Max	593	1.152	1.367	1.694	2.012	2.546	3.165	3.801	l/h	
Water pressure drop **		36	38	28	48	34	34	36	34	kPa	
N° Rows heating coil		1	1	1	1	1	1	1	1	N°	
Water content heating coil		0,37	0,66	0,78	0,84	1,11	1,17	1,5	1,88	l	
Water connection heating coil	F	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	"	
N° Rows cooling coil		2	3	3	3	3	3	3	3	N°	
Water content cooling coil		0,74	1,97	2,33	2,51	3,34	3,5	4,5	5,63	l	
Water connection cooling coil	F	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	"	
Weight unit		21	33	36	49	53	63	70	83	Kg	

NOTES:

- *** Room Air T=27°C D.B. / 19°C W.B. , IN/OUT water 7°/12°C, nominal air flow-rate; For medium and minimum fan speed, water delivery as in maximum speed.
- ** Room Air T=20°C D.B. , IN/OUT water 70°/60°C, nominal air flow-rate; for medium and minimum fan speed, water delivery as in maximum speed.
- * Room Air T=20°C D.B. , inlet water 50°C, water delivery as in cooling; Values referred to nominal air flow-rate.
- **** Units at various speeds without filter

Dimensions



Mod		A	B	C	D	E	F	G	H	I
05	mm	290	640	475	550	235	475	260	665	320
08 - 10	mm	290	1005	650	915	235	950	260	1030	430
12 - 14	mm	315	1135	700	1000	260	950	260	1160	480
19 - 23	mm	360	1330	765	1200	300	1300	320	1355	540
28	mm	360	1635	765	1200	300	1300	320	1660	540