> MERCURY SP
DUCTED FAN COIL

NEW

* Units Series

Type unit
MERCURY SP horizontal unit

* Unit specifications

Ducted 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 ducted fan coil unit is a 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 amply configurable to meet the requirements of highly qualified designers.

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

Installation therefore only requires the electrical and hydraulic connections.

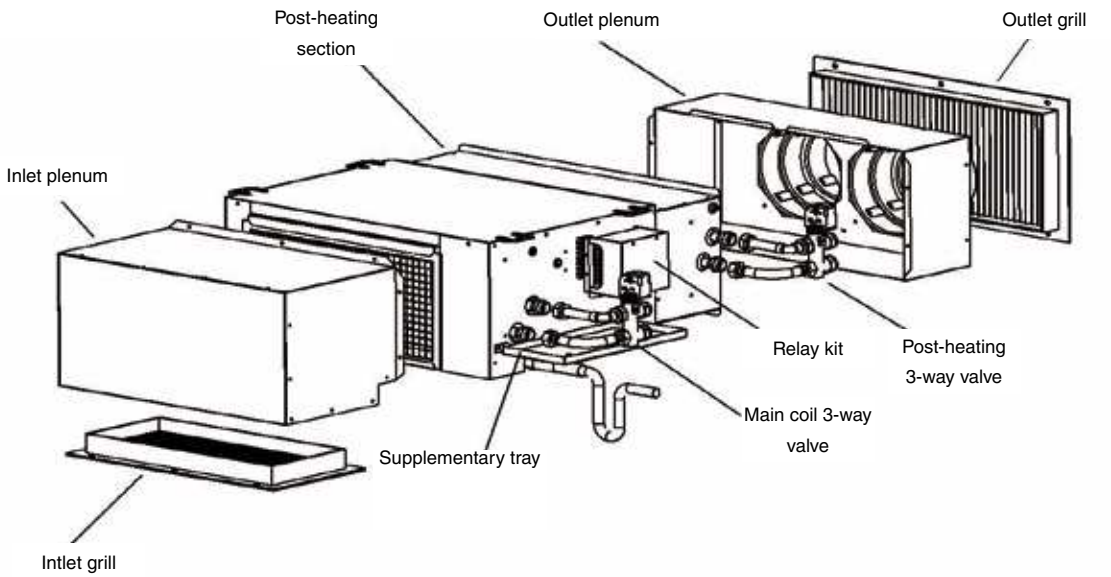
Construction characteristics

- 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 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
Post heating section
Post-heating 3-way valve
Outlet plenum
Inlet grill
Inlet plenum
Outlet grill
Standard air filter
Air filter Class G2

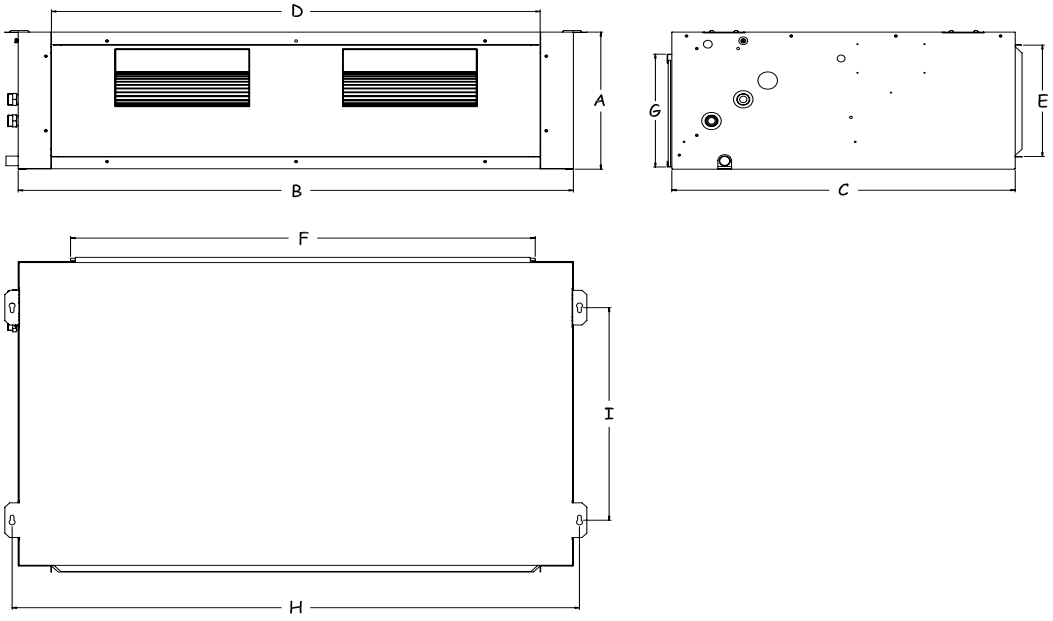
NB: In case of electrical connection of the unit to Ferroli thermostats, the unit must be fitted with the relay kit accessory (KR).



		05	07	11	13	17	19	21	23	
Cooling Capacity *	Max.	5.042	7.909	9.111	10.326	13.327	16.375	20.943	23.118	W
	Med.	4.882	7.423	8.667	9.393	11.847	12.839	20.472	22.502	W
	Min.	4.478	6.208	7.171	8.302	10.163	9.369	19.355	21.063	W
Water flow rate*		870	1.364	1.573	1.782	2.304	2.826	3.613	3.988	L/h
Water pressure drop *		39	38	34	40	40	39	38	34	Kpa
Heating Capacity **	Max.	5.598	8.158	9.379	10.598	13.571	17.222	22.037	23.950	W
	Med.	5.330	7.643	8.766	9.403	11.769	12.440	21.376	23.095	W
	Min.	4.981	6.330	6.855	7.984	9.634	8.508	19.784	21.178	W
Water flow rate **		963	1.404	1.614	1.823	2.335	2.963	3.791	4.120	L/h
Water pressure drop **		36	34	28	36	35	35	34	28	Kpa
Heating Capacity ***	Max.	11.460	16.444	18.906	21.357	27.348	34.741	44.455	48.277	W
	Med.	10.843	15.399	17.660	18.931	23.693	25.033	43.111	46.542	W
	Min.	10.201	12.736	13.785	16.057	19.367	17.082	39.876	42.652	W
Water flow rate ***		986	1.414	1.626	1.837	2.352	2.988	3.823	4.152	L/h
Water pressure drop ***		33	28	26	33	32	33	29	26	Kpa
Nº row coil		3	4	4	4	4	4	4	4	N
Supply		230/1/50								V-F-Hz
Air flow rate	Max.	840	1.200	1.260	1.430	1.700	2.400	3.050	3270	m3/h
	Med.	780	1.016	1.153	1.233	1.436	1.606	2.932	3115	m3/h
	Min.	724	807	868	1.015	1.130	1.039	2.667	2790	m3/h
External static pressure	Max.	90	90	90	90	90	90	90	90	Pa
Nº fans		1				2				n°
n° fan speed					3					n°
Power input motor		230	240	290	332	348	652	683	698	W
Max input current		1,8	1,8	1,8	2,1	2,1	3,7	4,8	4,8	A
SPL - Sound pressure level	Max.	46	49	50	52	53	55	57	58	dB(A)
	Med.	42	45	46	47	48	50	52	53	dB(A)
	Min.	36	38	39	41	41	43	45	45	dB(A)
Water connection		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	"
Water content		1,11	2,63	3,11	3,34	4,45	4,67	6	7,51	l
Weight		24	44	47	52	56	66	73	81	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.
SPL : sound pressure in a 100 m3 place with reverberation time of 0.5 seconds.

Dimensions



Mod		A	B	C	D	E	F	G	H	I
05	mm	290	640	475	550	235	475	260	665	320
07 - 11	mm	290	1005	650	915	235	950	260	1030	430
13 - 17	mm	315	1135	700	1000	260	950	260	1160	480
19 - 21	mm	360	1330	765	1200	300	1300	320	1355	540
23	mm	360	1635	765	1200	300	1300	320	1660	540