

FR - FC - FCO - FCR

Wall, ceiling and built-in hydronic fan coils



Basic version FR (wall and ceiling)



FR G version with cover cabinet complete with front intake grille and air filter

Technical and construction characteristics

The pleasantly soft and elegant line of the FR models, which can be installed on both the wall and the ceiling, integrates perfectly into any environment intended for commercial and residential activities, such as hotels, residences, offices, shops and homes. The battery is reversible, the covering cabinet is made of galvanized sheet metal and pre-painted in RAL 9002 colour, protected by transparent adhesive film to avoid damage during transport and installation phases.

Upon request, the version with cover cabinet equipped with front air intake grille, complete with filter, for floor and ceiling installation is supplied.

The air delivery grille is made up of modular elements in heat-resistant plastic material in RAL 7032 colour.

The right and left end elements include the seat for the control panel and the related access doors, equipped with an exclusive snap closure system. In environments where access to the control panel is desired (public places, schools, etc.) the doors can be blocked using a screw with a specific hole cover. The FR fan coils are supplied as standard with provisions for housing the control panel on the right side.

On request, versions with personalized cape with various color patterns are also available with a small surcharge.

The extremely silent operation, the rational construction and a wide choice of controls complete the versatility of these devices, created to guarantee maximum comfort even in all those environments where a low sound level is required.



MADE IN ITALY



SILENT VENTILATION



INSTALLABLE ON WALL AND CEILING



REVERSIBLE BATTERY



EFFICIENT AND QUICK HEATING



COOLS AND DEHUMIDIFIES

Model	Battery water content
200	0,882 l
300	1,090 l
400	1,300 l
600	1,700 l
800	1,700 l

Model	Thermal power kW	Cooling power kW	Code	€
Wall and ceiling fan coil FR 200	4,98	2,10	36220110	520,00
Wall and ceiling fan coil FR 300	5,64	2,73	36240110	580,00
Wall and ceiling fan coil FR 400	7,05	3,11	36260110	590,00
Wall and ceiling fan coil FR 600	9,77	4,66	36280110	640,00
Wall and ceiling fan coil FR 800	12,33	5,14	36300110	750,00

Version with cover cabinet complete with front intake grille and air filter

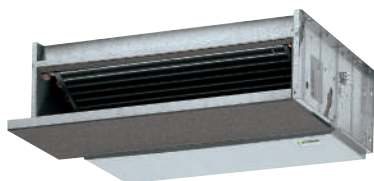
Model	Thermal power kW	Cooling power kW	Code	€
Wall and ceiling fan coil FR 200 G	4,98	2,10	36220111	570,00
Wall and ceiling fan coil FR 300 G	5,64	2,73	36240111	620,00
Wall and ceiling fan coil FR 400 G	7,05	3,11	36260111	640,00
Wall and ceiling fan coil FR 600 G	9,77	4,66	36280111	700,00
Wall and ceiling fan coil FR 800 G	12,33	5,14	36300111	800,00

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mod. FC recessed wall vertical launch



mod. FCR ceiling recessed



mod. FCO recessed wall horizontal launch

Technical and construction characteristics

The supporting structure is made of galvanized sheet metal of adequate thickness and is designed for fixing the unit to the wall or ceiling with bayonet slots, as well as for the assembly of the various components and accessories. The internal walls are appropriately insulated with self-extinguishing closed cell material.

The heat exchange coil is of the type for 2-pipe systems, made up of 3 rows of copper pipes and continuous aluminum fins.

The aluminum finned pack is integral with the tube bundle through mechanical expansion of the tubes themselves.

The frame is made of galvanized steel and the manifolds are made of cast brass, equipped with G 1/2" female threaded connections and G 1/8" manual air vent valves.

The fan coils are supplied as standard with hydraulic connections on the left side.

The fan unit is made up of one (size 200) or two double inlet centrifugal fans, with high air flow and low noise level, with impellers and augers made of plastic material. The groups are electronically balanced even after mounting on the units.

The 230 V single-phase electric motors, with permanently inserted capacitor and built-in thermal protection, have 6 speeds, obtained via autotransformer, three of which are connected as standard and selectable from the control panel.

The motor, directly coupled to the fan(s), is mounted on elastic supports and the group is assembled with the appropriately insulated condensate collection tray.

The electrical connection with the control panel is ensured by a polarized quick-fit connector.

The air filter is made of synthetic fibre, mounted on a metal frame with containment mesh on both sides and can be removed using special tabs to be unlocked using a tool.


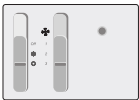



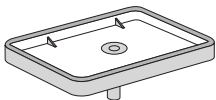
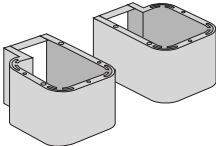

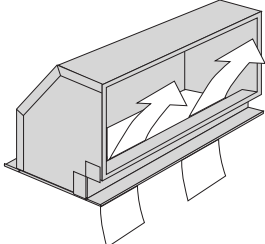
In the built-in versions FC - FCO - FCR the air filter is supplied on request. The FC - FCO - FCR vertical and horizontal built-in models, extremely practical and functional, are equipped with a complete range of accessories that allow you to solve any system problem and are particularly suitable in all those cases where it is necessary to take up as little space as possible on the floor and ceiling. The units are designed for use in 2-pipe systems. For 4-pipe systems with two independent circuits, an additional heat exchange coil is available on request.

Model	Thermal power kW	Cooling power kW	Code	€
Wall-mounted fan coil FC 200	4,98	2,10	36220200	490,00
Wall-mounted fan coil FC 300	5,64	2,73	36240200	550,00
Wall-mounted fan coil FC 400	7,05	3,11	36260200	570,00
Wall-mounted fan coil FC 600	9,77	4,66	36280200	640,00
Wall-mounted fan coil FC 800	12,33	5,14	36300200	730,00
Wall-mounted fan coil FCO 200	4,98	2,10	36220201	490,00
Wall-mounted fan coil FCO 300	5,64	2,73	36240201	540,00
Wall-mounted fan coil FCO 400	7,05	3,11	36260201	560,00
Wall-mounted fan coil FCO 600	9,77	4,66	36280201	640,00
Wall-mounted fan coil FCO 800	12,33	5,14	36300201	700,00
Ceiling recessed fan coil FCR 200	4,98	2,10	36220300	490,00
Ceiling recessed fan coil FCR 300	5,64	2,73	36240300	550,00
Ceiling recessed fan coil FCR 400	7,05	3,11	36260300	570,00
Ceiling recessed fan coil FCR 600	9,77	4,66	36280300	640,00
Ceiling recessed fan coil FCR 800	12,33	5,14	36300300	730,00

FR - FC - FCO - FCR

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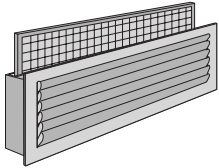
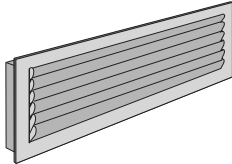
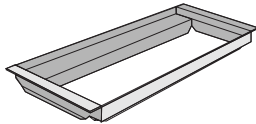
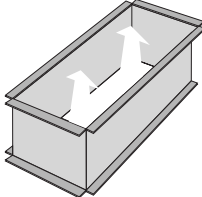
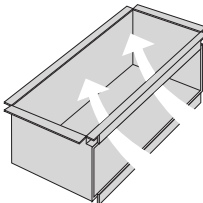
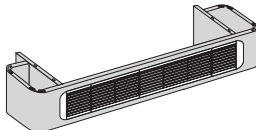
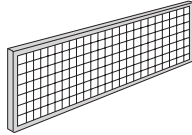
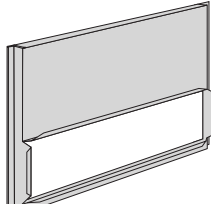
Accessories FR - FC - FCO - FCR

		Code	€
	Digital room thermostat on board the machine with battery probe included	36205226	148,00
	Basic control on the machine for managing the 3 speeds and for winter/summer selection	36205212	52,00
	Wall-mounted electronic room thermostat with summer-off-winter selector and 3-speed switch (with valve control complete with 4m cable)	36205221	82,00
	Mechanical consensus thermostat for wall-mounted electronic room thermostat or basic control	36205214	36,00
	Wall-mounted digital room thermostat with LCD display for daily/weekly time programming and built-in consensus probe	36205224	140,00
	Auxiliary condensate collection tray for the FR - FC - FCO vertical versions	36200501	22,00
	Pair of sockets for FR version	36200512	50,00
	Valve kit for standard 3-row coil only complete with 1/2" pipes and fittings	36205303	230,00
	90° air delivery fitting mod. FC - FCR for built-in versions	mod. 200 36222201 38,00 mod. 300 36242201 42,00 mod. 400 36262201 86,00 mod. 600 36282201 96,00 mod. 800 36282201 96,00	

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		Code	€
	Air intake grille mod. FC - FCR in aluminum with fixed fins complete with filter for built-in versions	mod. 200 36221502	98,00
		mod. 300 36241502	120,00
		mod. 400 36261502	124,00
		mod. 600 36281502	136,00
		mod. 800 36281502	136,00
	Air delivery grille mod. FC - FCR in aluminum with adjustable fins for built-in versions	mod. 200 36221501	64,00
		mod. 300 36241501	70,00
		mod. 400 36261501	74,00
		mod. 600 36281501	84,00
		mod. 800 36281501	84,00
	Lower air intake panel mod. FCR	mod. 200 36220007	40,00
		mod. 300 36240007	46,00
		mod. 400 36260007	52,00
		mod. 600 36280007	54,00
		mod. 800 36280007	54,00
	Straight air delivery fitting mod. FC - FCR for FC - FCR built-in versions	mod. 200 36222202	40,00
		mod. 300 36242202	42,00
		mod. 400 36262202	48,00
		mod. 600 36282202	70,00
		mod. 800 36282202	70,00
	90° air intake fitting mod. FC - FCO - FCR for built-in versions	mod. 200 36222203	90,00
		mod. 300 36242203	92,00
		mod. 400 36262203	100,00
		mod. 600 36282203	108,00
		mod. 800 36282203	108,00
	Plinth complete with grid mod. FR	mod. 200 36220019	124,00
		mod. 300 36240019	140,00
		mod. 400 36260019	146,00
		mod. 600 36280019	170,00
		mod. 800 36280019	170,00
	Air filter for built-in versions mod. FC - FCO - FCR	mod. 200 36225601	16,00
		mod. 300 36245601	18,00
		mod. 400 36265601	18,00
		mod. 600 36285601	20,00
		mod. 800 36285601	20,00
	Front air intake panel mod. FC	mod. 200 36220006	54,00
		mod. 300 36240006	66,00
		mod. 400 36260006	78,00
		mod. 600 36280006	90,00
		mod. 800 36280006	90,00

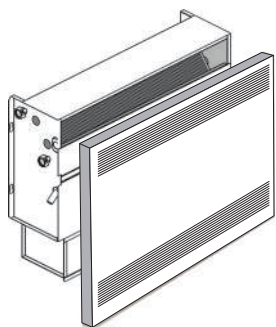
FR - FC - FCO - FCR

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Accessories FR - FC - FCO - FCR

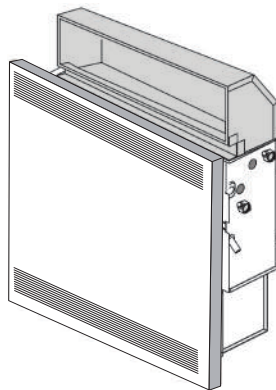
Code

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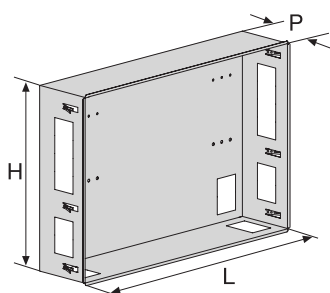
Front panel
mod. FCO
for wall recessed template
in pre-painted sheet metal

mod. 200	36220404	100,00
mod. 300	36240404	114,00
mod. 400	36260404	128,00
mod. 600	36280404	150,00
mod. 800	36280404	150,00



Front panel
mod. FC
for wall recessed template
in pre-painted sheet metal

mod. 200	36220504	108,00
mod. 300	36240504	120,00
mod. 400	36260504	134,00
mod. 600	36280504	160,00
mod. 800	36280504	160,00

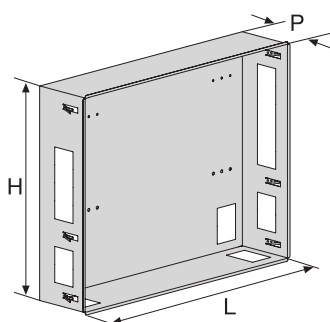


Built-in template mod. FCO in galvanized sheet metal

Mod.	200	300	400	600	800
P	235	235	235	235	235
L	742	852	962	1182	1182
H	730	730	730	730	730

Values in mm

mod. 200	36220403	144,00
mod. 300	36240403	152,00
mod. 400	36260403	170,00
mod. 600	36280403	182,00
mod. 800	36280403	182,00



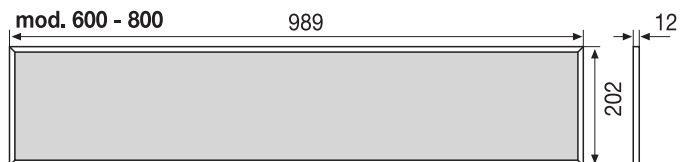
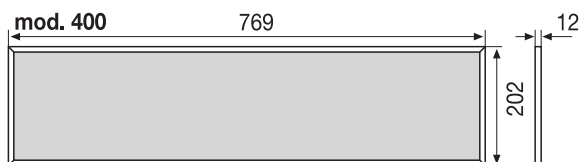
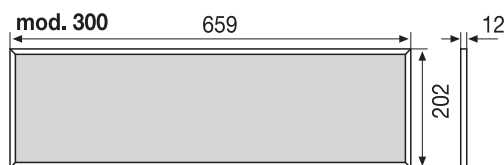
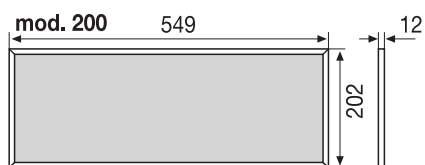
Built-in template mod. FC in galvanized sheet metal

Mod.	200	300	400	600	800
P	235	235	235	235	235
L	742	852	962	1182	1182
H	900	900	900	900	900

Values in mm

mod. 200	36220503	168,00
mod. 300	36240503	172,00
mod. 400	36260503	190,00
mod. 600	36280503	210,00
mod. 800	36280503	210,00

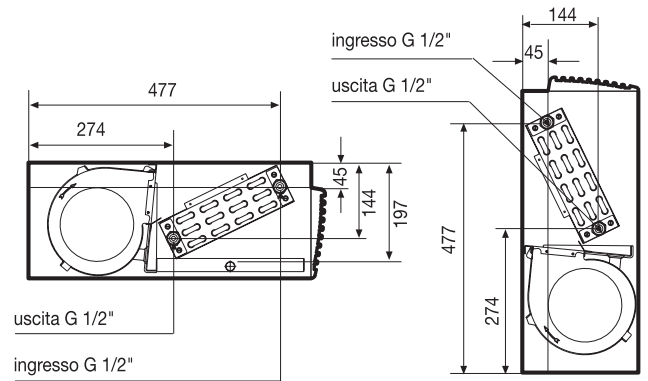
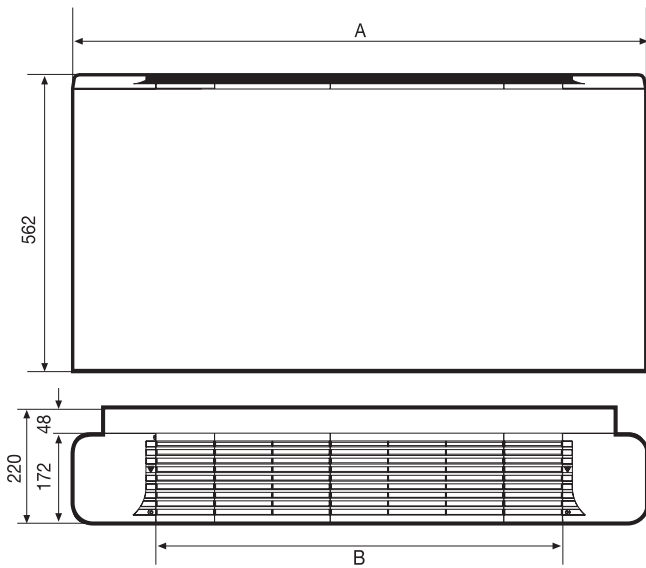
Air filter dimensions FR - FC - FCO - FCR



FR - FC - FCO - FCR

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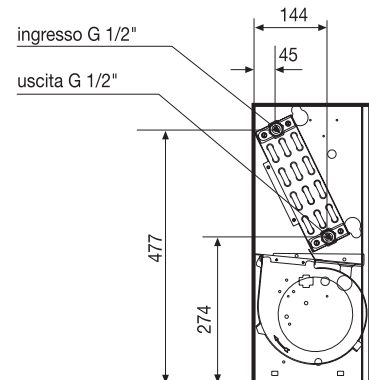
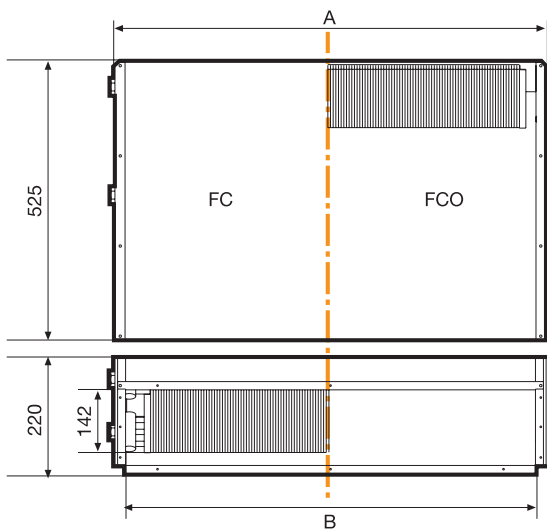
Dimensions of wall-mounted FR models



Mod.	200	300	400	600	800
A	870	980	1090	1310	1310
B	550	660	770	990	990

Values in mm

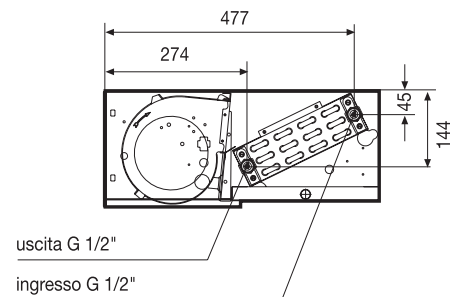
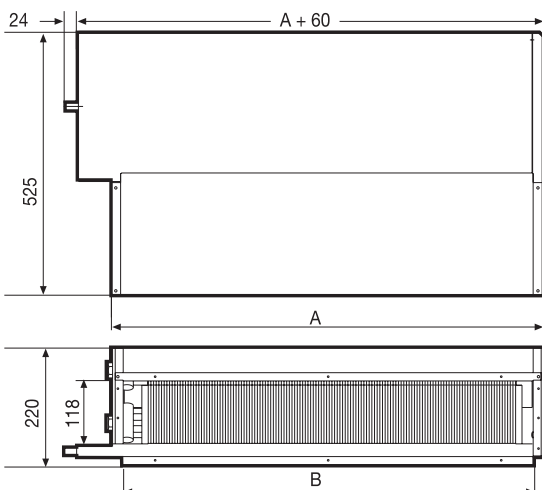
Dimensions of FC models - vertical built-in FCO



Mod.	200	300	400	600	800
A	590	700	810	1030	1030
B	550	660	770	990	990

Values in mm

Dimensions of horizontal built-in FCR models



Mod.	200	300	400	600	800
A	590	700	810	1030	1030
B	550	660	770	990	990

Values in mm

FR - FC - FCO - FCR

Wall, ceiling and built-in hydronic fan coils

Technical data table FR - FC - FCO - FCR

DESCRIPTION	U.M.		200	300	400	600	800
Thermal power (inlet water 70 °C)	W	max	4980	5640	7050	9770	12330
		med	4250	5140	6290	8860	11230
		min	3840	4670	5230	7480	10580
Water flow max	l/h		423	485	606	825	1060
Max water pressure drops 70 °C	kPa		3,90	7,30	11,45	23,50	33,00
Thermal power (inlet water 50 °C)	W	max	2700	3370	4050	5190	6050
		med	2250	3070	3640	4640	5610
		min	2060	2790	3240	4070	5090
Max water pressure drops 50 °C	kPa		2,27	6,45	8,90	22,25	27,20
Total cooling capacity	W	max	2100	2730	3110	4210	5140
		med	1780	2410	2880	3820	4740
		min	1640	2190	2630	3420	4360
Sensible cooling capacity	W	max	1600	2220	2550	3370	4150
		med	1350	1940	2180	2980	3670
		min	1200	1720	1970	2640	3340
Max cooling water flow	l/h		359	460	552	790	868
Max cooling water pressure drops	kPa		2,70	7,65	10,55	26,45	31,00
Air flow	m ³ /h	max	356	450	560	760	1.000
		med	324	400	485	630	890
		min	289	340	434	540	780
Number of fans			1		2		
Sound pressure	dB(A)	max	42,4	40,7	42,3	44,7	50,0
		med	39,5	37,4	39,4	41,8	48,1
		min	37,1	34,2	36,7	38,1	45,5
Sound power	dB(A)	max	50,9	49,2	50,8	53,2	58,5
		med	48,0	45,9	47,9	50,3	56,6
		min	45,6	42,7	45,2	46,6	54,0
Power supply			230V/1/50Hz				
Max. engine power	W		57	58	77	100	123
Max. absorbed current	A		0,27	0,25	0,34	0,47	0,59
Weight (referred to the F version)	Kg		19,0	22,0	24,6	28,8	30,2

Summer cooling: Winter ambient air temperature: 27 °C d.b., 19 °C b.w.
 water temperature: inlet 7 °C, outlet 12 °C at max speed. ambient
 heating: air temperature: 20 °C
 water temperature: inlet 70 °C, ΔT 10 °C at max. speed.
 (with inlet water temperature at 50 °C same water flow rate as in speed cooling. max.)