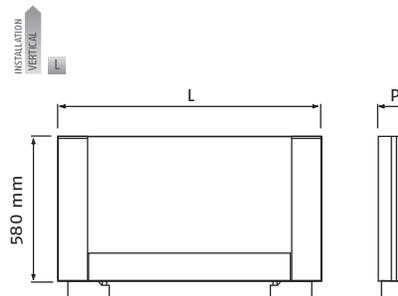


Fan coil

## Design Inverter Plus



- Tangential fan coils with radiant plate and Brushless inverter motor

Description	H mm	L mm	P mm
<b>DESIGN INVERTER PLUS 11</b>	580	760	130
<b>DESIGN INVERTER PLUS 21</b>	580	960	130
<b>DESIGN INVERTER PLUS 33</b>	580	1160	130
<b>DESIGN INVERTER PLUS 40</b>	580	1360	130
<b>DESIGN INVERTER PLUS 46</b>	580	1560	130

DESIGN INVERTER PLUS is the TOP of what Riello has to offer for fan coils. It is ideal for providing superior comfort in heating mode. DESIGN INVERTER PLUS unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room.

In addition to the radiating effect, the entire range is equipped with the DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity. The DESIGN INVERTER PLUS very quickly heat and cool any area, with the possibility of selecting between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the use of the DC Brushless motors, the DESIGN INVERTER PLUS save up to 50% on electricity compared to the fan coils with traditional motors (type ON/OFF). Just like the entire HELIOTERM range, the DESIGN INVERTER PLUS range has an ULTRA FLAT appearance, with a depth of just 13 cm and an automatic suction system.

The range is available in 5 models with two colours (white and silver), with outputs in cooling mode from 830 W up to 4560 W and in heating mode from 1150 W up to 4860 W.

The vast range of accessories and controls with touch DISPLAY support a wide range of applications. The versions that can be installed vertically with connections on the left.

The structure is made of galvanised sheet metal with sides made of ABS in the white version and in metal sheet in the silver version; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Available in two colours: white and silver
- Easy to remove and clean the filters
- Touch Display commands

**TECHNICAL DATA**

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Power heating 70 °C-60 °C (4) Watt	Maximum air flow rate (5) m³/h	Sound pressure irradiation max-min (6) dB(A)	Code
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**TECHNICAL DATA WITH PERFORMANCE SETTING (FOR COMMERCIAL ROOMS)**

WHITE FAN COIL WITH RADIANT HEAT PLATE AND AUTOMATIC AIR VENTILATION							
<b>DESIGN INVERTER PLUS 11B</b>	1095	1415	2420	540	197	42,2-24,2	<b>20116258</b>
<b>DESIGN INVERTER PLUS 21B</b>	2120	2775	4670	670	389	43,1-25,3	<b>20116260</b>
<b>DESIGN INVERTER PLUS 33B</b>	3310	3905	6635	780	560	45,5-25,6	<b>20116261</b>
<b>DESIGN INVERTER PLUS 40B</b>	3875	4665	7855	920	699	45,9-26,3	<b>20116263</b>
<b>DESIGN INVERTER PLUS 46B</b>	4560	5705	9645	1080	787	47,2-27,6	<b>20116264</b>
SILVER-GREY FAN COIL WITH RADIANT HEAT PLATE AND AUTOMATIC AIR VENTILATION							
<b>DESIGN INVERTER PLUS 11A</b>	1095	1415	2420	540	197	42,2-24,2	<b>20069338</b>
<b>DESIGN INVERTER PLUS 21A</b>	2120	2775	4670	670	389	43,1-25,3	<b>20069339</b>
<b>DESIGN INVERTER PLUS 33A</b>	3310	3905	6635	780	560	45,5-25,6	<b>20069340</b>
<b>DESIGN INVERTER PLUS 40A</b>	3875	4665	7855	920	699	45,9-26,3	<b>20069341</b>
<b>DESIGN INVERTER PLUS 46A</b>	4560	5705	9645	1080	787	47,2-27,6	<b>20069342</b>

**TECHNICAL DATA WITH COMFORT SETTING (FOR RESIDENTIAL ROOMS)**

WHITE FAN COIL WITH RADIANT HEAT PLATE							
<b>DESIGN INVERTER PLUS 11B</b>	830	1150	2020	540	162	39,4-24,2	<b>20116258</b>
<b>DESIGN INVERTER PLUS 21B</b>	1760	2460	4150	670	320	40,2-25,3	<b>20116260</b>
<b>DESIGN INVERTER PLUS 33B</b>	2650	3410	5800	780	461	42,2-25,6	<b>20116261</b>
<b>DESIGN INVERTER PLUS 40B</b>	3340	4400	7500	920	576	42,5-26,3	<b>20116263</b>
<b>DESIGN INVERTER PLUS 46B</b>	3800	5200	8600	1080	648	43,9-27,6	<b>20116264</b>
SILVER-GREY FAN COIL WITH RADIANT HEAT PLATE							
<b>DESIGN INVERTER PLUS 11A</b>	830	1150	2020	540	162	39,4-24,2	<b>20069338</b>
<b>DESIGN INVERTER PLUS 21A</b>	1760	2460	4150	670	320	40,2-25,3	<b>20069339</b>
<b>DESIGN INVERTER PLUS 33A</b>	2650	3410	5800	780	461	42,2-25,6	<b>20069340</b>
<b>DESIGN INVERTER PLUS 40A</b>	3340	4400	7500	920	576	42,5-26,3	<b>20069341</b>
<b>DESIGN INVERTER PLUS 46A</b>	3800	5200	8600	1080	648	43,9-27,6	<b>20069342</b>

Performance refer to the following conditions:

- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air temperature 20 °C; main fan in "off"
- (5) Air flow rate measured with cleaned filters
- (6) According to UNI EN ISO 7779:2001

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

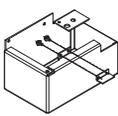
HOT AIR GENERATORS

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

## ACCESSORIES

Drawing	Description	Notes	Code
	CBD 25: TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		<b>20116409</b>
	CBD 35: TOUCH LCD electronic on board control panel with continuous modulation. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		<b>20116408</b>
	CPD 35 (MASTER): TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic board CSD 35.	(1)	<b>20116410</b>
	CSD 35 (SLAVE): Electronic remoting board with continuous modulation for remote connection with the wall-hung control CPD 35. It is possible to connect max 30 electronic board to one control panel CPD 35.	(1)(2)	<b>20116411</b>
	CDI 15: Electronic remoting board with dry contacts	(2)	<b>20116412</b>
	CDI 15: Electronic remoting board with input 0 - 10V		<b>20116413</b>
	CI 15: Control panel for recessed installation	(1)	<b>20147241</b>
	CDI 15: Electronic remoting board	(1)(2)	<b>20116412</b>
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		<b>20101063</b>
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		<b>4013453</b>
	2-ways taps kit.		<b>4013450</b>
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		<b>4013458</b>
	Silver-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		<b>4013459</b>
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		<b>20069422</b>
	Silver mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		<b>20069421</b>
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		<b>20069423</b>

(1) Both codes are necessary for the first fan coil

(2) It must be installed 1 piece for every remoted fan coil

(3) The accessory is necessary for the horizontal installation of fan coil

Drawing	Description	Size					Colour		Code
		11	21	33	40	46	Silver/Grey	White	
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus	•						•	20116460
		•					•		4013461
			•					•	20116461
			•				•		4013463
				•				•	20116462
				•			•		4013465
					•			•	20116463
					•		•		4013467
						•		•	20116464
							•	•	4013469

HEAT PUMPS

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