

# SOFI<sup>®</sup> HORIZONTAL HC

THE VENTILATED RADIATOR FOR HEATING / COOLING



EUROPEAN  
WARRANTY

**NEW**

**DESCRIPTION:**

SOFI<sup>®</sup> is the brand new radiator with high power and efficiency, which combines the features and appearance of a traditional radiator with the functions and performance of a fan coil. Ideal for functioning even at low temperatures. SOFI<sup>®</sup> is a system that can be used in both, heating and cooling.

**FIXING KIT:**

Wall fixing plate and wall plugs suitable for compact or hollow brick walls.

**PACKAGING:**

The radiator is protected by recyclable carton box. User notice included.

**PAINTING PROCESS:**

Painted with ecological epoxy powders. (Certificate DIN 55900-1,-2)

**COLOURS:**

Radiator and accessories: standard white colour RAL 9010-R01.

Suitable for PICTURE version

For other colours see Colour chart chapter.

**CLEANING:**

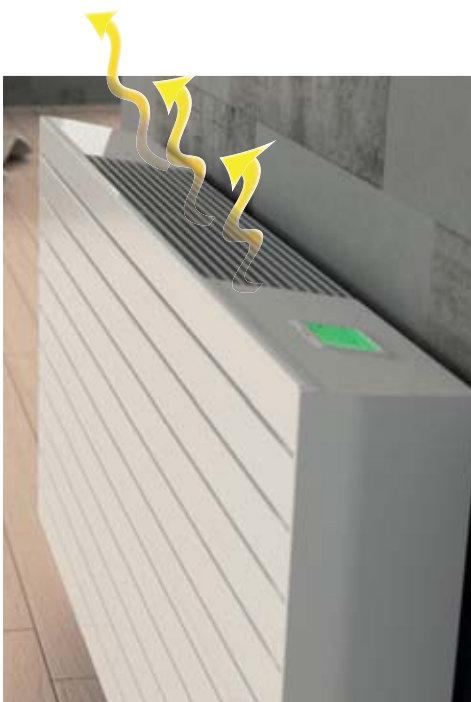
Folding front panel to allow accurate cleaning of the entire radiator.

Filters are easily removable, washable or replaceable.

Hot water working conditions:	Connections: 2 x 1/2" gas	P. Max: 5 bar	T. Max: 110° C
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Class protection:	CLASS 1	Power supply: 230V/50Hz
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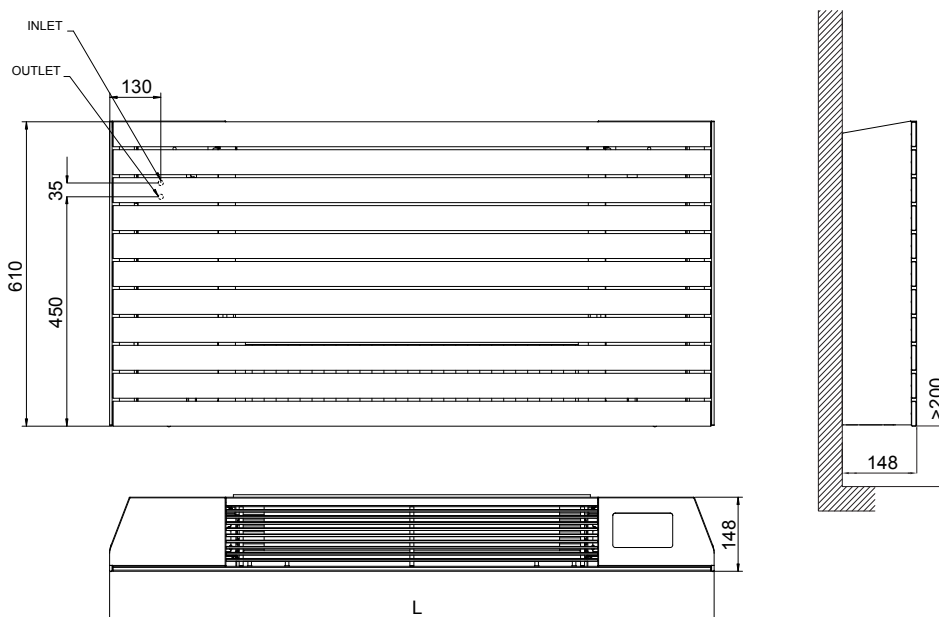
## CERTIFICATIONS



- HIGH EFFICIENCY RADIATOR
- DC INVERTER BRUSHLESS MOTOR
- 3-WAY BY-PASS VALVE HOT/ COLD
- VARIABLE SPEED BLOWER
- DIGITAL CONTROL UNIT AND ECO FUNCTION
- AVAILABLE IN 80 COLORS

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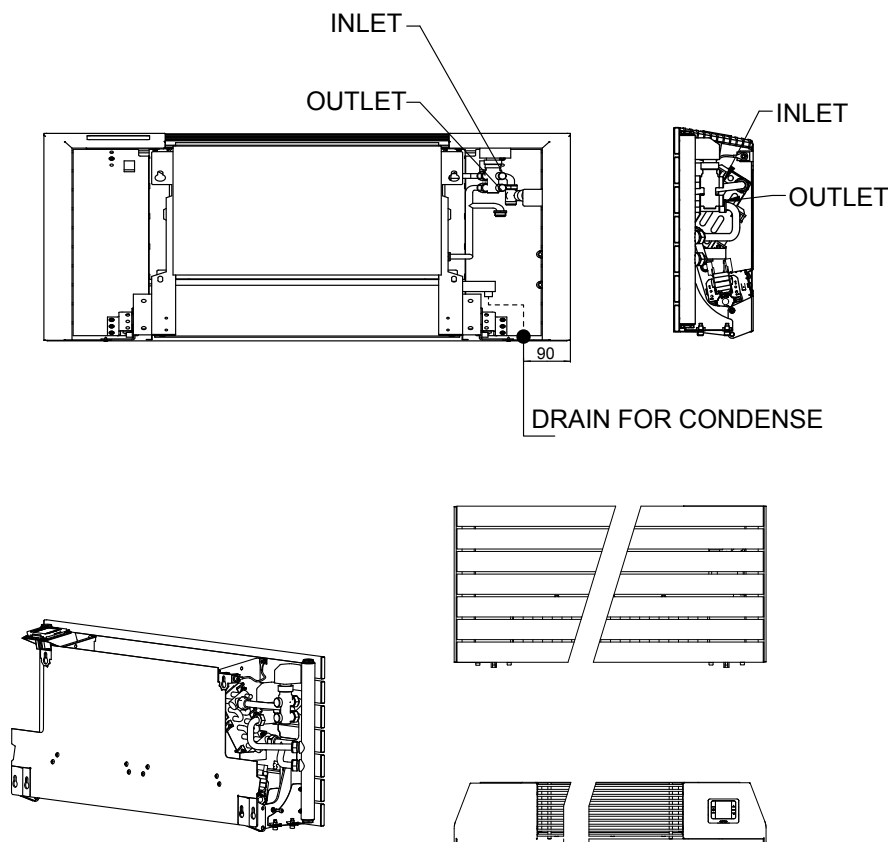
WIDTH L [mm]	Height H [mm]	Art. nr.	Thermal output in heating [Watt]										
			THERMAL OUTPUT IN HEATING			MEDIUM VENTILATION			MAXIMUM VENTILATION				
			T1 =70	T1 =60	T1= 50	T1 =70	T1 =60	T1= 50	T1= 45	T1 =70	T1 =60	T1= 50	T1 = 45
<b>800</b>	610	3605776101001	1040	792	585	1952	1532	1175	987	2049	1627	1233	1015
<b>1000</b>	610	3605776101002	1709	1311	991	3533	2791	2170	1839	3726	3021	2286	1895
<b>1200</b>	610	3605776101003	2423	1997	1377	5079	4210	3035	2504	5372	4404	3196	2662
<b>1400</b>	610	3605776101004	3145	2591	1829	7202	5694	4085	3682	7202	6049	4645	3736

## SOFI<sup>®</sup> HORIZONTAL HC TECHNICAL CHARACTERISTICS

Model L [mm]	<b>800</b>		<b>1000</b>		<b>1200</b>		<b>1400</b>	
Fan speed	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
	<b>HEATING T1=70°C</b>							
Output [watt]	1585	2049	2798	3726	4103	5372	5422	7202
Ambient temperature [°C]	20°C							
Flow rate [l/h]	162		343		471		600	
Pressure drop [kPa]	7,0		7,5		19,0		25,0	
	<b>heating T1=50°C</b>							
Output [watt]	931	1233	1683	2286	2395	3196	3240	4645
Ambient temperature [°C]	20°C							
Flow rate [l/h]	142		302		453		573	
Pressure drop [kPa]	6,5		7,0		18,5		24,5	
	<b>COOLING 7°C</b>							
Total Cooling Capacity [watt]	574	748	1148	1496	1834	2154	2536	3120
Sensible Cooling Capacity [watt]	470	610	941	1250	1503	1900	2079	2600
	<b>COOLING 12° C</b>							
Output [watt]	376	480	752	960	1058	1412	1590	2066
Ambient temperature [°C]	27 - 19 °C							
Flow rate [l/h]	142		302		453		573	
Pressure drop [kPa]	7		9		22		28	
	<b>OTHER DATA</b>							
Air flow heating [m3/h]	0	160	0	320	0	460	0	580
Air flow cooling [m3/h]	50	160	150	320	200	460	300	580
Sound pressure heating [db(A)]	0	44	0	44	0	44	0	44
Sound pressure cooling [db(A)]	28	44	28	44	28	44	28	44
Maximum electrical power absorbed [watt]	14		23		27		33	
Water content [lt]	5,2		5,6		7,4		8,4	
Dry weight [Kg]	33,5		43,1		52,8		60,4	

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- High efficiency radiator
- DC inverter Brushless motor
- 3-Way by-pass valve hot/cold
- Variable speed blower
- Digital control unit and ECO function



## FEATURES

- Heating mode
- Cooling mode
- Auto mode
- Dehumidification mode
- Fan mode
- Electric valve 1 and 2
- Timer
- Electric heater
- Night mode
- Display touchpad block
- Fan mode
- Air inlet temperature and set temperature

## IDEAL FOR HEAT PUMPS WITH ( $\Delta T$ 30°C)

The radiator SOFI is suitable for installations working at low temperatures, such as condensing boilers, heat pumps and solar thermal, allowing considerable energy and cost savings.

## HIGH EFFICIENCY ALSO WITH TRADITIONAL INSTALLATIONS

With systems that exploit traditional boilers, SOFI, thanks to its power and reduced thermal inertia, is the most efficient solution for maximum comfort in the shortest possible time, even with fewer terminals.

## INDICATED FOR RENOVATIONS

Sofi<sup>®</sup> offers the opportunity to take advantage of new technologies for low temperatures efficiently and economically, without the need to intervene with heavy plant operations, thanks to the flexibility of connections.

## MAXIMUM SILENCE

Even in ventilation mode, the SOFI offers maximum quietness of the devices. In addition, its electricity consumption is remarkably low (9.9 watts) thanks to the DC Inverter Brushless motor.

## CLIMATE COMFORT MAINTENANCE

Climate comfort during nighttime with switched off ventilation, is granted by the plate of the radiator and by the finned coils through radiation and convection.

## MAXIMUM HYGIENE AND EASY TO CLEAN

Sofi<sup>®</sup> is equipped with filters able to keep dust, dust mites, bacteria and odors to ensure maximum environments hygiene, limiting the allergenic making the air more breathable. The filters are easily removable, cleanable and replaceable. The radiator can be fully inspected for cleaning.

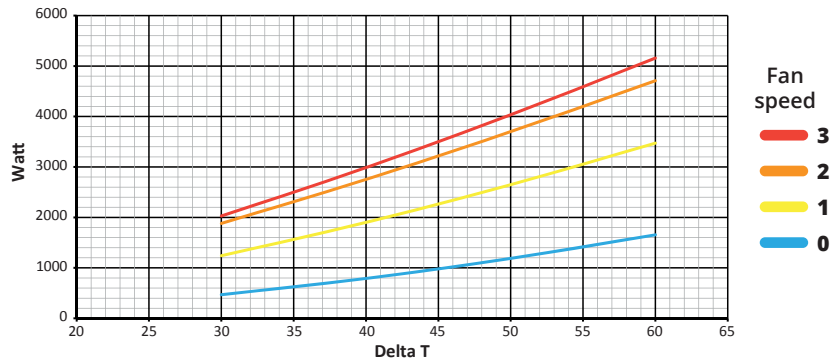
## REDUCED DIMENSIONS, MAXIMUM VERSATILITY

Sofi<sup>®</sup> satisfies every need, thanks to the reduced dimensions, the elegant design, the 80 available colors and picture version.

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SOFI<sup>®</sup> 800 x 610 thermal output (ΔT 50)



Standard EN 16430 - Fan Assisted Radiators/Convectors  
Following the scheme of Case 1



$$\Phi_{16430} = K_{m,16430} \cdot (\Delta T)^{n_{m,16430}}$$

Insert values calculated at the end of the test. Data Input (yellow field)

Test n°1:	17851	Thermal Output Δt=30 K:	1878 W
Value of constant: $K_{m,16430}$	36.61075	Thermal Output Δt=60 K:	4190 W
Value of exponent: $n_{m,16430}$	1.16771		
Nominal Thermal Output value: $\Phi_{16430,16430}$	3392,5	W	

- 1 Monobloc air/water heat pump
- 2 Eventual condensing boiler for back up
- 3 DHW calorifier BOLLY PDC specific for heat pump
- 4 Inertial accumulation pad/volano termico
- 5 High efficiency terminal SOFI<sup>®</sup>
- 6 Solar collectors

