

# HUB RADIATOR TOP

Patented high-efficiency heat pump to direct exchange coolant / water to produce heating, cooling and domestic hot water for small and medium users



MADE IN ITALY  
PATENT



RENEWABLE  
ENERGY



TAXES  
REDUCING



ENERGY  
SAVING



HIGH  
EFFICIENCY



ECOLOGIC  
GAS



PHOTOVOLTAIC  
COMBINATION



DHW WITHOUT  
LEGIONELLA



HEATING 60 °C



CONDITIONING  
UP TO 4 °C

## Technical and construction features

HUB RADIATOR TOP is the most complete version of the patent created to better meet the demands of heating, cooling and domestic hot water for the home. The system consists of a double accumulation of 125 or 300 liters, one used for heating and the production of DHW and one for the conditioning.

Each accumulation will have one or more boosters dedicated to work in direct exchange.

This product represents the best solution for a total living comfort in both summer and winter during the coldest periods of the year where the thermal power of the machine doubles as the two radiators accumulators with open vessel will be connected via a system solenoid valves, generating a unique accumulation of 250 or 600 liters.

HUB RADIATOR TOP can be combined with our fancoils FIJI or FR offering comfortable warmth in winter, cooling and dehumidification of the premises in the summer.

This ideal combination allows for always inside the house a high thermal comfort.

The fancoils FIJI or FR are suitable for operation to produce both hot air with the most modern synthesis of design and technology to offer the best temperature uniformity and constant air filtering.

This system, very quick in full operation, it can also be combined with solar thermal (available as an accessory) which increases even more energy efficiency.

Model	Code	€
HUB RADIATOR TOP 3.0+3.0/125+125	77112528	9.024,00
HUB RADIATOR TOP 3.0+5.2/125+125	77112529	10.084,00
HUB RADIATOR TOP 3.0+7.8/125+125	77112530	10.310,00
HUB RADIATOR TOP 3.0+8.3/125+125	77112531	12.070,00
HUB RADIATOR TOP 5.2+5.2/125+125	77130030	11.12600
HUB RADIATOR TOP 5.2+7.8/125+125	77130031	11.386,00
HUB RADIATOR TOP 5.2+8.3/125+125	77130032	13.046,00
HUB RADIATOR TOP 7.8+7.8/125+125	77130046	11.522,00
HUB RADIATOR TOP 8.3+8.3/125+125	77112570	16.198,00
HUB RADIATOR TOP 3.0+3.0 U.E. recessed/125+125	77130070	15.584,00
HUB RADIATOR TOP 3.0+3.0/300+125	77112501	9.960,00
HUB RADIATOR TOP 3.0+5.2/300+125	77112502	11.020,00
HUB RADIATOR TOP 3.0+7.8/300+125	77112505	11.246,00
HUB RADIATOR TOP 3.0+8.3/300+125	77112506	13.006,00
HUB RADIATOR TOP 5.2+5.2/300+125	77112507	12.062,00
HUB RADIATOR TOP 7.8+7.8/300+125	77112511	12.458,00
HUB RADIATOR TOP 8.3+8.3/300+125	77112512	15.460,00
HUB RADIATOR TOP 3.0+(7.8+7.8)/125+300	77112513	14.574,00
HUB RADIATOR TOP 7.8+(7.8+7.8)/125+300	77112517	15.786,00
HUB RADIATOR TOP 3.0+(7.8+7.8)/300+300	77112519	15.508,00
HUB RADIATOR TOP 7.8+(7.8+7.8)/300+300	77112523	16.722,00

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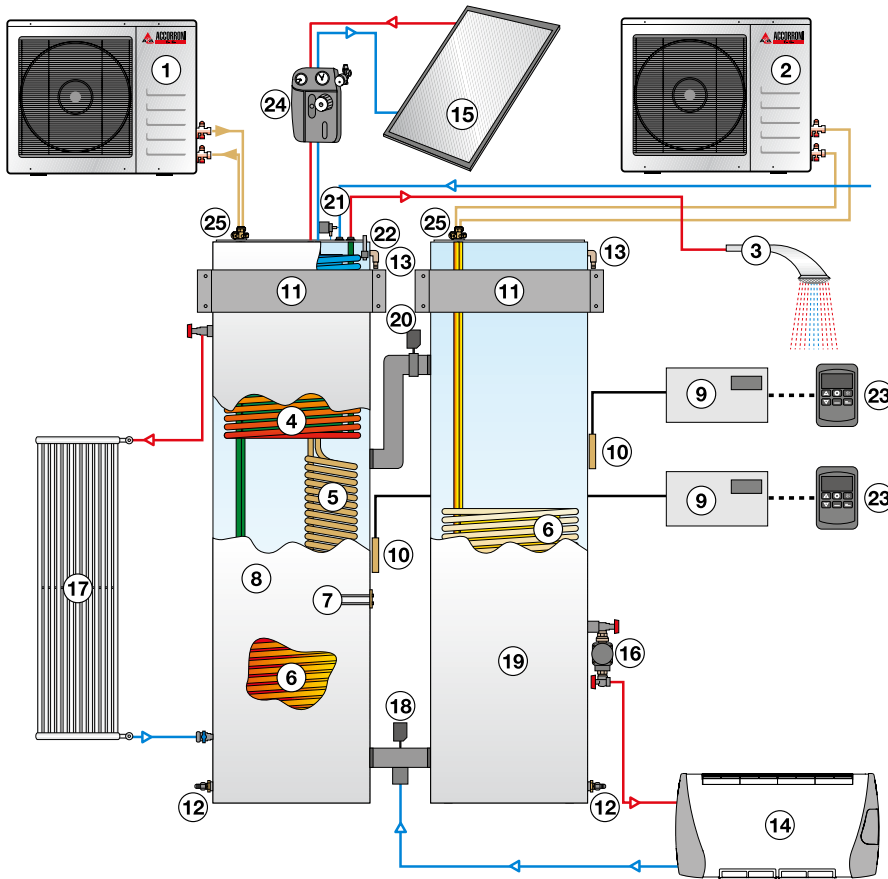
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Accessories HUB RADIATOR TOP			Code	€
	Circulator electronic inverter Additional heating only max 3.3 m³ / h max prevalence 6.2 m power consumption min. 4 W - 45 W max		<b>35006001</b>	<b>214,00</b>
	Circulator electronic inverter additional heating / cooling max 4,0 m³ / h max prevalence 6.0 m power consumption min. 4 W - 40 W max		<b>35006002</b>	<b>504,00</b>
	Wall thermostat to control circulating pump with digital display		<b>75100007</b>	<b>120,00</b>
	Solar heat exchanger	<b>mod. 0,75 m²</b>	<b>75100002</b>	<b>374,00</b>
	thermo or biomass	<b>mod. 1,50 m²</b>	<b>75101002</b>	<b>644,00</b>
	Control panel and remote control wall or recessed		<b>75100005</b>	<b>228,00</b>
	Anchor bracket for external Booster including rubber anti vibration	<b>mod. Booster 3.0</b>	<b>37081060</b>	<b>78,00</b>
		<b>mod. Booster 5.2-7.8-8.3</b>	<b>37081061</b>	<b>114,00</b>
	Single-phase 230 V electrical heater degree of protection IP 65	<b>mod. 1500 W</b>	<b>75050102</b>	<b>144,00</b>
		<b>mod. 2000 W</b>	<b>75050103</b>	<b>152,00</b>
		<b>mod. 3000 W</b>	<b>75060300</b>	<b>290,00</b>
	Additional capacitor Booster for just hot		<b>26505565</b>	<b>300,00</b>
	recessed template galvanized sheet with or without Closing panel sheet galvanized	<b>basic model:</b> <b>125+125 I (H 242 - L 150 - P 25)</b>	<b>75000300</b>	<b>450,00</b>
		<b>models with closing panels:</b> <b>125+125 I (H 242 - L 150 - P 25)</b>	<b>75102300</b>	<b>598,00</b>
	Support base with anti-vibration for external Booster		<b>75100020</b>	<b>384,00</b>
	Booster Kit muted		<b>75100001</b>	<b>184,00</b>
	Vibration damper kit for floor installation		<b>75100021</b>	<b>62,00</b>
	Kit timer		<b>35639900</b>	<b>110,00</b>

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## HUB RADIATOR TOP connection diagram



### Legend:

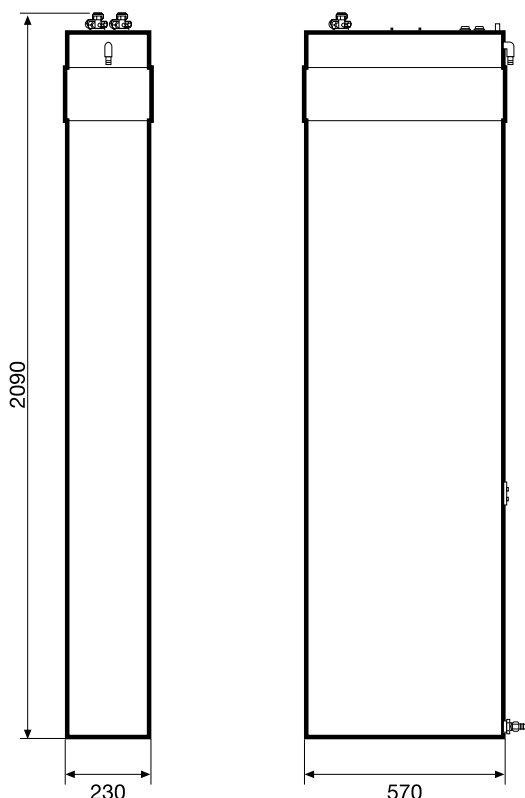
- 1 Moto-evaporating external (Booster) only warm
- 2 Moto-evaporating external (Booster) hot / cold
- 3 Supply hot water DHW
- 4 Exchanger quick DHW
- 5 Solar heat exchanger (accessory)
- 6 Exchanger refrigerant / water outdoor unit
- 7 Electrical resistance from 1.5 to 3 kW (As accessory)
- 8 Technique water storage Open Cup
- 9 Electrical control and monitoring
- 10 Temperature sensor technical water
- 11 Anti-tip bracket
- 12 Drain tap
- 13 Drain "Overflow"
- 14 Connection example with fancoil FIJI
- 15 Solar thermal collector (accessory)
- 16 Pump for fan
- 17 Example of radiator natural circulation (Maximum 1.5 meters)
- 18 Diverter motorized 3-way valve summer / winter
- 19 Radiator water storage technique hot / cold 125 liters Open Cup
- 20 Motorized 2-way valve summer / winter
- 21 Solenoid filling
- 22 Level technical water
- 23 Remote control as accessory
- 24 Solar station lifting UNIT 2 (As accessory)
- 25 Taps gas R410A



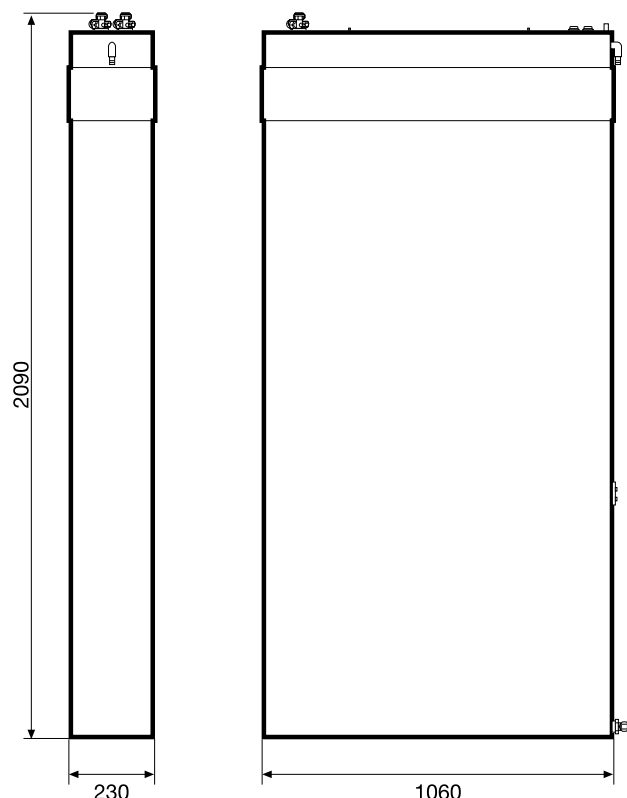
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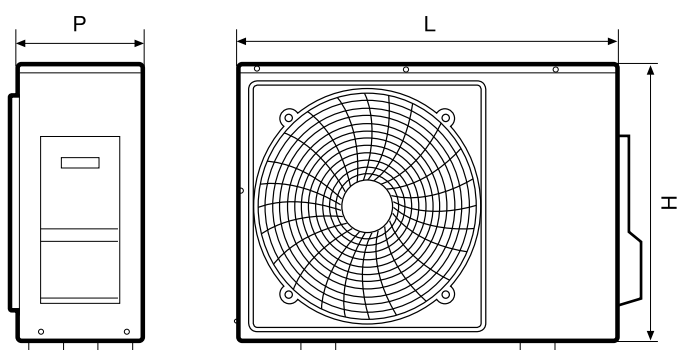
## Radiator size accumulator 125 liters



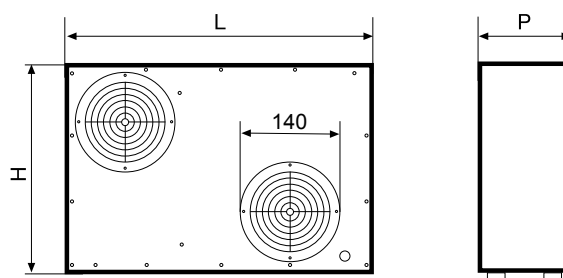
## Radiator size accumulator 300 liters



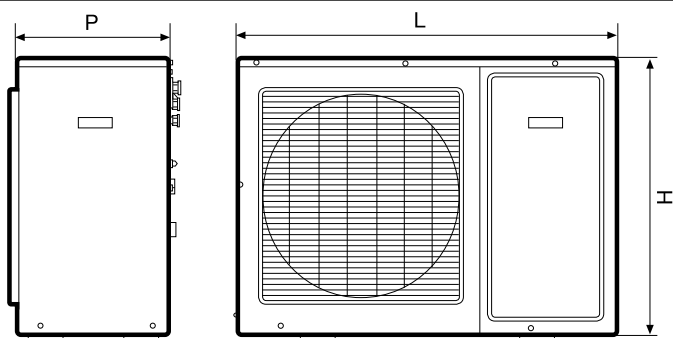
## Dimensions Booster external HR 3.0 - 7.8



## Dimensions Booster recessed HR 3.0



## Dimensions Booster external HR 5.2 - 8.3



Booster	L	H	P	kg
HR 3.0 external	700	552	256	33
HR 3.0 recessed	590	400	230	35
HR 5.2 external	950	690	360	55
HR 7.8 external	902	650	307	55
HR 8.3 external	925	872	368	76

Value in mm

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**Technical data table HUB RADIATOR TOP**

DESCRIPTION	U.M.	HR 3.0	HR 5.2	HR 7.8	HR 8.3	HR 3.0 INC.
Thermal power air 7 °C / water 35 °C	kW	3,11	5,51	8,12	9,12	3,12
COP	W/W	4,12	4,11	4,10	4,10	3,95
Cooling capacity 35 °C air / water 8 °C	kW	2,96	3,82	6,41	6,52	2,26
EER	W/W	2,78	2,52	2,65	2,62	2,77
Water temperature min - max	°C	4 - 58				
Power consumption in heating*	W	754	1340	1980	2224	790
Absorption in air conditioning**	W	812	1515	2203	2351	816
Fans	n.	1				
Air temperature	max	°C				42
	min	°C				-7
Compressor type		Rotary				
Refrigerant		R410A				
Power supply		230V/1/50Hz				
Current consumption in heating*	A	4,19	7,20	11,49	13,20	4,20
Current consumption in cooling**	A	3,70	660	10,10	11,80	3,70
Degree of protection		IP 24				
Water connecting	"	3/4				
Hydraulic connection for filling	"	1/2				
Connecting hot water	"	1/2				
Connection refrigerant	liquid	"	1/4		3/8	1/4
	gas	"	3/8	1/2	5/8	1/2
Maximum length of refrigerant pipes	m	15				
Sound pressure***	dB(A)	50	52	58	57	52
Water content accumulation HR 125	l	125				
Water content accumulation HR 300	l	300				
Pressure drop DHW circuit with flow rate of 10 l / m	kPa	38				
Electric power system circulator	W	3 - 40				
Max head circulating pump	m	6,0				
Max capacity circulating pump	m <sup>3</sup> /h	4,0				
Water quantity in single drawdown to 40 °C - HR 125 l	l	69	71	73		69
Water quantity in single drawdown to 40 °C - HR 300 l	l	130		132		130
Recovery time from 10 to 58 °C - HR 125 l	h	2,62	1,78	1,02	0,96	2,62
Recovery time from 10 to 58 °C - HR 300 l	h	5,21	3,51	2,06	1,98	5,18
Recovery time from 46 to 58 °C - HR 125 l	h	0,90	0,61	0,34	0,31	0,88
Recovery time from 46 to 58 °C - HR 300 l	h	1,81	1,23	0,72	0,65	1,81
Weight shipping unit 125	kg	87				
Weight shipping unit 300	kg	122				
Operating weight unit 125	kg	202				
Operating weight unit 300	kg	422				

Data referred to the following operating conditions

\*Winter heating: external air temperature 7 °C db - 6 °C h.b., storage temperature 55 °C

\*\*Summer conditioning: External air temperature 35 °C