

RED 120

Wall-mounted split heat pump water heater with sanitary storage



Technical and construction features

The RED 120 heat pump water heaters by A2B Accorroni E. G. are designed for the production of domestic hot water for domestic and commercial use. Thanks to their large 120-liter accumulation, it is possible to satisfy more contemporary withdrawals such as bathroom and kitchen. The thermodynamic cycle of the heat pump allows heat to be transferred from the external air to the water contained in the storage, increasing its temperature up to 55 °C.

Only a small amount of electricity is required for the operation of the compressor, in fact the thermal energy produced by the heat pump cycle is 3/4 times higher than that used for the operation of the compressor. The RED heat pump water heater consists of two main components:

- Outdoor unit that can also be installed on the wall, including the compressor, the exchanger-evaporator and the fan
- Indoor unit, consisting of accumulation with exchanger integrated capacitor and dedicated control electronics.

The two components are connected to each other with insulated copper pipes in which the refrigerant gas of the thermodynamic cycle flows. The storage of domestic hot water is made of steel protected by a high quality enamel, inside the storage there is a sacrificial magnesium anode.

The thermal insulation for maintaining the temperature of the domestic hot water consists of a layer of polyurethane foam covered externally with a steel sheet to which a layer of epoxy material has been coupled.

The water heaters are equipped with an additional electrical resistance that can be activated in an emergency.

Some advantages of the RED water heater are:

SAVINGS COMPARED TO THE TRADITIONAL WATER HEATER RED 120 has a coefficient of performance (COP) equal to 3.4 (water heating from 15 ° C to 55 ° C with 15 ° C of external temperature which allows to reach an energy saving of about 70%).

EASY INSTALLATION

Thanks to its compact size it is possible to install the new water heater in a simplified way even in the replacements of the old water heaters.

ELECTRONIC LAMINATION VALVE

This continuously adjustable valve guarantees the higher efficiency of the heat pump water heater even at the coldest outside temperatures.

INNOVATIVE CONDENSER

RED 120 is equipped with an aluminum heat exchanger wrapped outside the storage tank with a large exchange surface.

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THERMAL ANTI LEGIONELLA CYCLE

RED 120 automatically activates the electrical resistance to perform the anti-legionella heat treatment to ensure the hygiene of the domestic hot water.

HIGH EFFICIENCY INSULATION

Thanks to the thickness of the eco-polyurethane foam insulation, characterized by one of the best thermal resistance coefficients, RED 120 has negligible heat losses.



RENEWABLE ENERGY



ECOLOGICAL GAS



HIGH EFFICIENCY



ENERGY SAVING



DHW



INTEGRATED SIMPLE PROGRAMMING



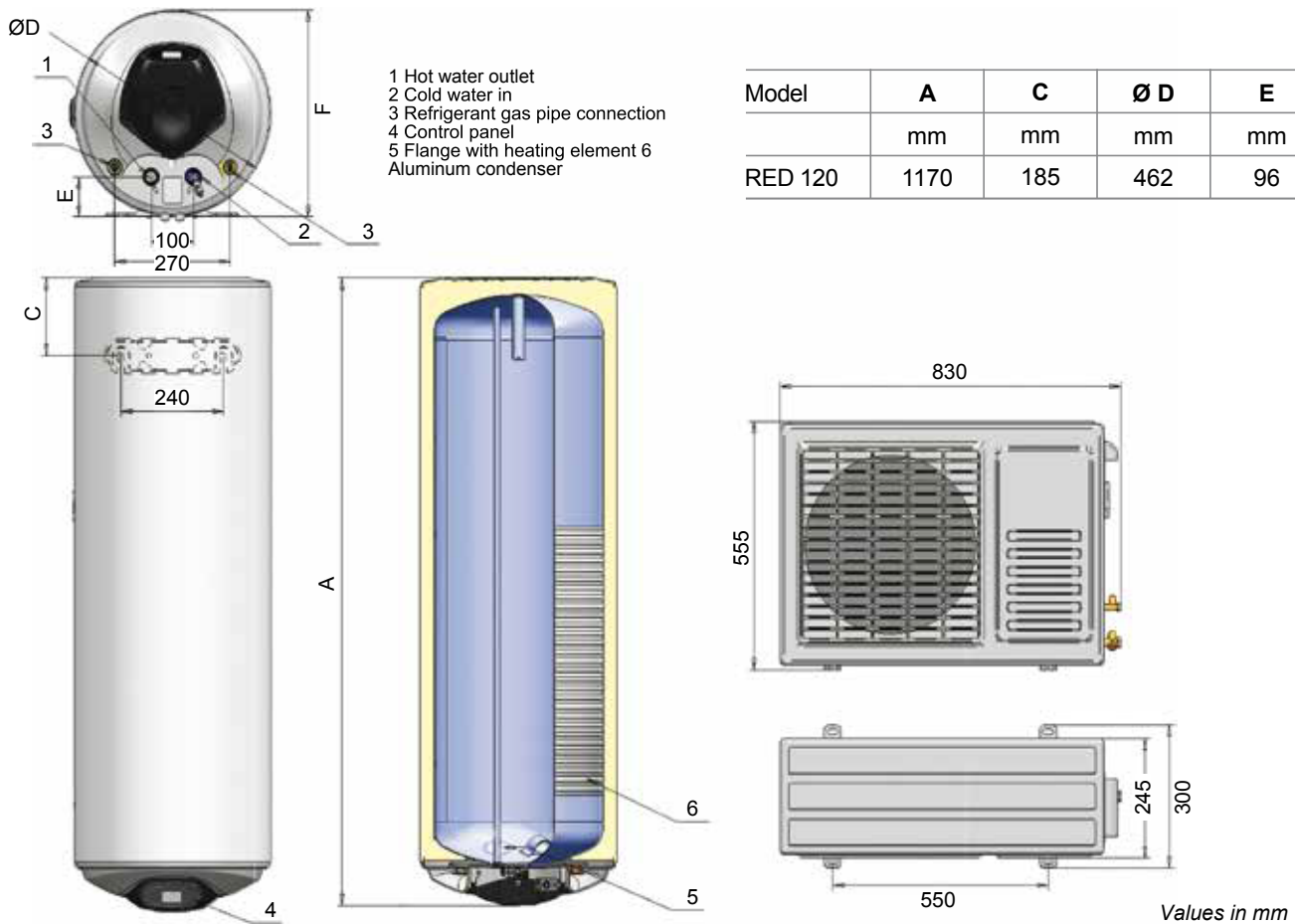
PHOTOVOLTAIC COMBINATION

Model	Code	€
RED 120	38010100	2.850,00

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Dimensions and overall dimensions of heat pump water heater RED 120



Model	A	C	Ø D	E	F
	mm	mm	mm	mm	mm
RED 120	1170	185	462	96	484

Heat pump water heater technical data table RED 120

Model	U.M.	RED 120
Volumetric unit	l	120
Nominal heat output of the heat pump	W	1500
Nominal power of the electrical resistance	W	2000
Nominal electrical power of the heat pump	W	500
Maximum electrical power of the heat pump	W	850
Power supply		230V/1/50Hz
COP*	W/W	3,40
Refrigerant gas charge R134a	kg	0,85
Operating temperature range	°C	-5 / +42
Factory setting of the temperature range	°C	-2 / +40
Max pressure with coolant	MPa	2,7
Min.pressure with coolant	MPa	0,8
Water accumulation nominal pressure	MPa	0,7
Recovery times (da 15 °C a 55 °C)	min	105
Inrush current	A	21,15
Degree of protection of the outdoor unit		IP X4
Indoor unit protection degree		IP X1
Sound level of outdoor unit**	dB(A)	49
Hot water outlet connections		G1/2" M
Cold water outlet - drain connections		G1/2" M
SAE threaded connection for refrigerant gas line R134a		3/8" M
SAE threaded connection for coolant line R134a		1/4" M
Indoor unit weight	kg	38
Outdoor unit weight	kg	27

*External air temperature 15 °C - Domestic water temperature 15 °C (inlet) 55 °C (outlet)
 ** Measured in free field conditions with a reference distance of 1 meter