

GREEN 500 S NEW

Monobloc heat pump water heater with sanitary storage with additional exchanger



Technical and construction features

Following major investments in the development of new technologies aimed at the use of renewable energy and energy saving, the A2B Accorroni E.G. has created a new range of high efficiency monobloc heat pump water heaters with a high content of domestic water, GREEN 500 S NEW series with integrated solar thermal exchanger.

The GREEN 500 S NEW heat pump water heater represents the ecological evolution of the traditional water heater, which uses a renewable energy thermodynamic system to absorb heat directly from the outside air heated for free by the sun. GREEN 500 S NEW can access the Thermal Account 2.0 incentive issued to encourage all those interventions aimed at increasing the energy efficiency of existing buildings. The GREEN 500 S NEW heat pump water heater is characterized in particular by ease of installation, silent operation and great reliability.

GREEN 500 S NEW has the following technical characteristics:

- Time programming, to take advantage of any time slots
- Advantageous on the electricity tariff
- Different operating modes: maximum savings with use of the compressor only or maximum speed to produce large quantities of DHW in a short time, using the heat pump and integrative electric resistance at the same time
- There is no possibility of contamination between water and fluid refrigerant, the heat exchanger is external to the tank
- Water sterilization programs (anti-legionella cycle: the danger of the legionella bacterium is averted thanks to periodic cycles that raise the temperature of the storage water over 65 °C)
- Standard titanium anode that protects the tank from action corrosive. Compared to the solution with magnesium anode, greater reliability is guaranteed, with lower maintenance costs.



RENEWABLE ENERGY



ECOLOGIC GAS



ENERGY EFFICIENCY



NO OUTDOOR UNIT



HIGH EFFICIENCY



ENERGY SAVING



SOLAR THERMAL COMBINATION



TANK IN STAINLESS STEEL



DHW



NOMINAL COP 2,66



EASY INSTALLATION

Model

GREEN 500 S NEW

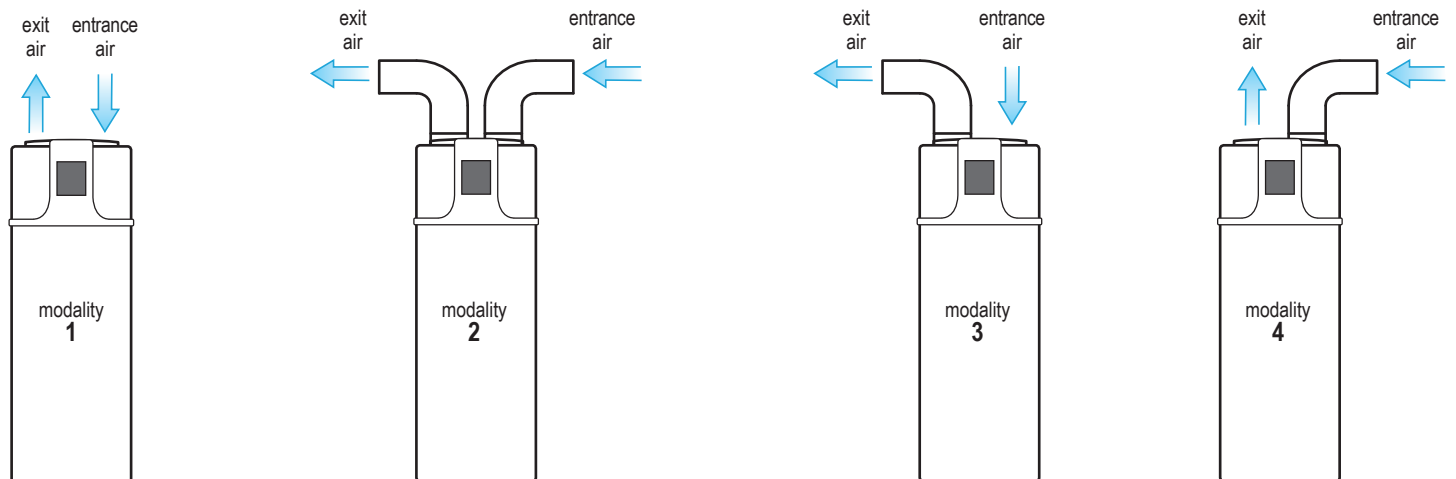
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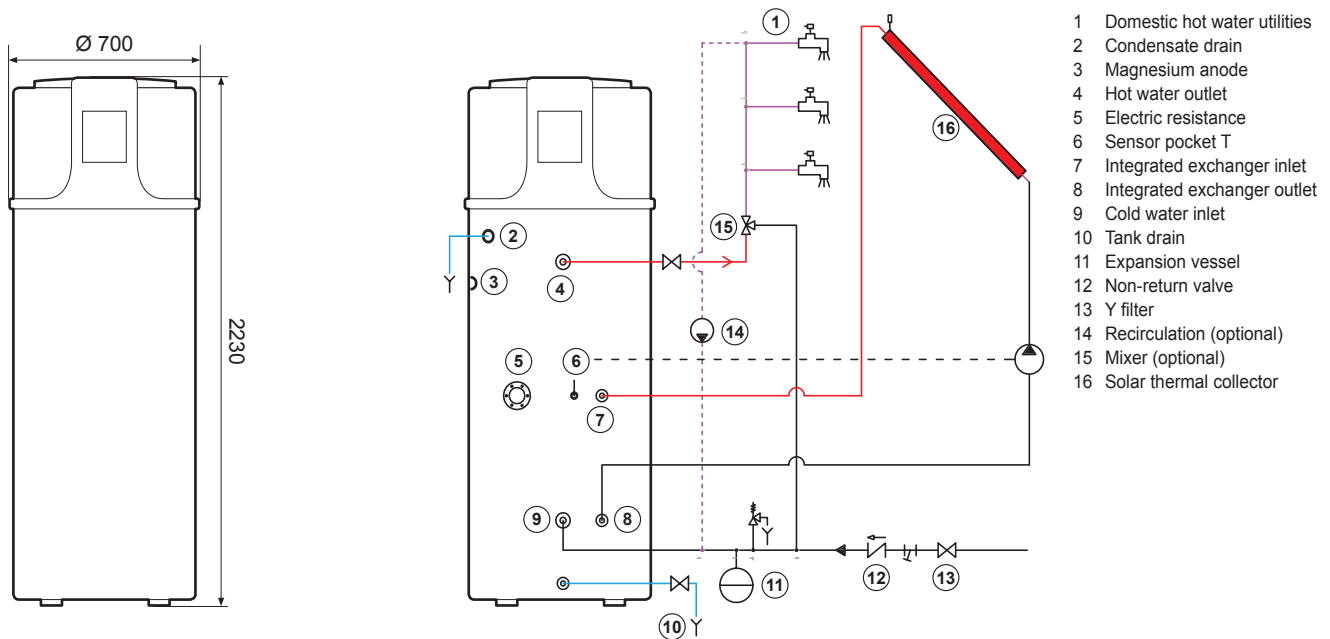
Installation methods GREEN 500 S NEW



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Dimensions and hydraulic connections GREEN 500 S NEW



Heat pump water heater technical data table GREEN 500 S NEW

Model	U.M.	GREEN 500 S NEW
Tank volume	l	500
Solar integration coil	m ²	1,0
Nominal heat output (1)	W	3800
Nominal electrical absorption (1)	W	945
Nominal DHW production capacity (1)	l/h	82,0
Nominal COP (1)	W/W	4,02
DHW COP (2)	W/W	2,66
Test run profile (2)		XXL
Hot water volume at 40 °C (2)	l	594
Energy efficiency class (3)		A
Degree of protection (3)		IPX1
Hot water temperature adjustment range	°C	10÷70 (50 default)
Maximum hot water temperature only compressor	°C	60
Power supply		230V/1/50Hz
Integrative electrical resistance	W	1500
Max current (PdC + resistance)	A	13
Refrigerant gas type (GWP) (4)		R134a (1430)
Refrigerant gas quantity	Kg	1,6
Amount of equivalent CO ₂ gas	t	2,280
Compressor		Rotary ON - OFF
Dimensions Ø x H	mm	700 x 2230
Sound power level	dB(A)	59,2
Average sound pressure level	dB(A)	37,2
Tank material		Stainless steel 304
DHW hydraulic connections		1" DN25
Solar exchanger hydraulic connections		3/4" DN20
Titanium anode with alarm led		G3/4 - Ø 3x480
Max accumulation operating pressure	bar	10
Operating range	°C	-
Air flow (with ducting)	m ³ /h	800
Fan head	Pa	60
Duct connection diameter	mm	177
Max length of ducting	m	6
Net weight	kg	122

1) Conditions: intake air 20 °C DB (15 °C BU), water inlet 15 °C / outlet 55 °C

2) Test according to EN16147: air 7 °C.

3) Directive 2009/125 / EC - ERP EU no. 814/2013 (TUV Sud certification for all models)

4) Leakage of refrigerant contributes to climate change. In case of release into the atmosphere, refrigerants with a global warming potential (GWP) more low contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant fluid with a GWP of 1430. If 1 kg of this refrigerant fluid were released into the atmosphere, then, the impact on global warming would be 1430 times higher than 1 kg of CO₂, for a period of 100 years. In no case should the user try to intervene on the refrigerant circuit or disassemble the product. In case of need it is necessary always contact qualified personnel.