

GREEN 500 S NEW

Monobloc heat pump water heater with DHW storage with additional exchanger



Technical and construction characteristics

Following major investments in the development of new technologies aimed at the use of renewable energies and energy saving, A2B Accorroni E.G. has created a new range of high efficiency packaged heat pump water heaters with a high domestic water content 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 thermodynamic system with renewable energy to absorb heat directly from the outside air heated free of charge by the sun.

GREEN 500 S NEW can access the Conto Termico 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 particularly characterized by ease of installation, silent operation and great reliability.

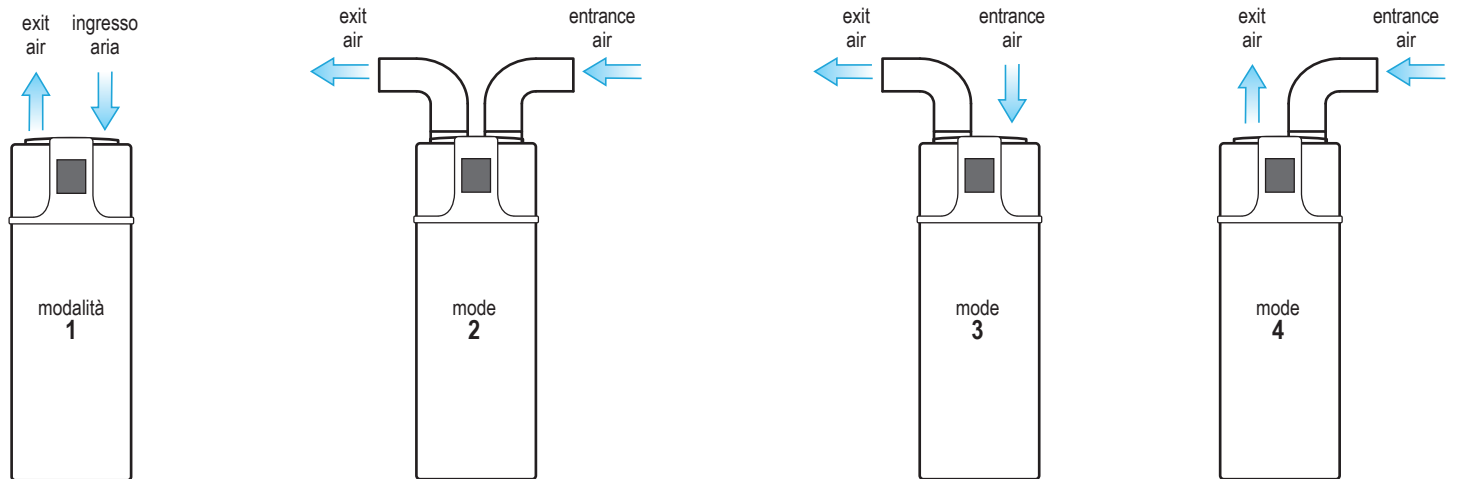
GREEN 500 S NEW has the following technical characteristics:

- Hourly 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 amount of ACS in a short time, using at the same time heat pump and integrative electrical resistance
- 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 cycles cycles that raise the temperature of the storage water over 65 °C)
- Standard titanium anode that protects the tank from the action corrosive. Compared to the solution with a magnesium anode, it comes guaranteed greater reliability, with lower maintenance costs.



Model	Code	€
GREEN 500 S NEW	37030505	6.800,00

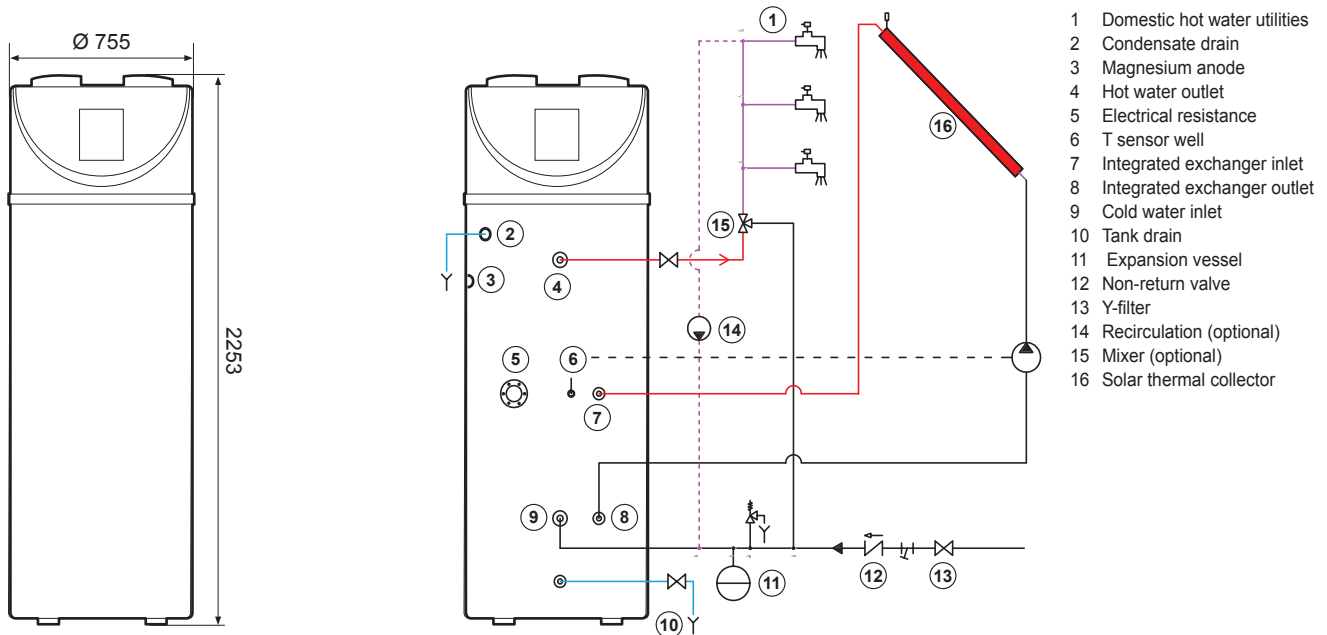
GREEN 500 S NEW installation methods



GREEN 500 S NEW

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Net dimensions and hydraulic connections GREEN 500 S NEW



GREEN 500 S NEW heat pump water heater technical data table

Models	U.M.	GREEN 500 S NEW	
Pickup profile ⁽²⁾		XXL	
Tank accumulation capacity	l	500	
Heating ⁽¹⁾	Capacity	kW	3,09 (+1,5*)
	Average absorbed power	kW	0,876
	Total heating time	h	8,50
	Energy consumption	kW/h	7,068
	COP at 7°C (ENI16147)	kW/h / kW/h	2,66
Heating ⁽²⁾	Mixed water at 40 °C	l	596,00
	Capacity	kW	3,08 (+1,5*)
	Average absorbed power	kW	0,945
	Total heating time	h	6,12
	Energy consumption	kW/h	5,784
Average annual consumption ⁽³⁾	COP	W/W	4,02
	Mixed water at 40 °C	l	596,00
Average annual consumption ⁽³⁾	kW/h / anno		1829
Rated current	A		6,2 (+6,5)
Maximum energy consumption	kW		2800
Energy efficiency (heating)	%		109,50
Power Supply			220-240/1/50Hz
max temperature outgoing water (without electric resistance)	°C		60
Sound power level	dB(A)		59
Net dimensions (LxDxH)	mm		Ø 700 x 2253
Packing dimensions (LxDxH)	mm		755 x 755 x 2385
Water tank capacity	l		490
Nominal water yield	l/h		82
Tank material			GX2CrNiMoN22-5-3
Maximum operating water pressure	Mpa		1
Nominal water pressure	Mpa		0,6
Compressor			Rotary
Refrigerant (Type / Charged Volume)	Kg		R134a / 1,60
Set point relief valve	Mpa		0,7
Fan			Centrifugo
Air flow	m ³ /h		800
Temperature range (operation only in HP)	°C		da -5 a 43
LWT range	°C		da 40 a 60
Surface of auxiliary exchanger	m ²		0,7
Net weight	Kg		117

¹ Capacity and power consumption based on the following conditions: ambient temperature 7 °C DB/6 °C WB, water temperature 10 °C to 55 °C.

² Capacity and power consumption based on the following conditions: ambient temperature 20 °C DB, water temperature 15 °C to 55 °C.

³ Energy efficiency in heating according to ERP standards in average conditions

* 1.5 kW auxiliary exchanger