

# GREEN 300 - 300 S - 300 2S

Monobloc heat pump water heater with domestic hot water storage with or without additional exchangers



POWER RENEWABLE



GAS ECOLOGICAL



PROGRAMMING SIMPLE INTEGRATED



NO UNITS EXTERNAL



HIGH EFFICIENCY



SAVINGS ENERGY



COMBINATION SOLAR THERMAL



COMBINATION PHOTOVOLTAIC



HOT WATER HEALTH



RESISTENCE OF BACKUP



INSTALLATION FACILITATED

## Technical and construction characteristics




Following important investments in the development of new technologies aimed at the use of renewable energy and energy saving, A2B Accorroni E.G. has created a new range of high efficiency monobloc heat pump water heaters GREEN 300 - GREEN 300 S - GREEN 300 2S series. The GREEN heat pump water heater represents the ecological evolution of the traditional water heater, which uses a renewable energy system that absorbs heat directly from the external air heated free of charge by the sun. This innovative system allows you to obtain domestic hot water at 60 °C with average coefficients of performance (C.O.P.) > 3. Thanks to these high yields, all models in the GREEN series can access the 65% tax deduction introduced by Directive 2010/31/EC issued to encourage all those interventions aimed at increasing the energy efficiency of existing buildings. The GREEN heat pump water heater is characterized by ease of installation, silent operation and great reliability. GREEN has the following technical characteristics:

- Condenser wrapped outside the boiler protected by

- any encrustation phenomenon that prevents the refrigerant gas - sanitary water contamination
- Additional exchanger for possible integration with solar thermal system, biomass or boiler (GREEN 300 S - GREEN 300 2S version)
- Tank made of steel and internally treated with double layer vitrification
- Anti-corrosion sacrificial magnesium anode (optional)
- External covering made of high quality expanded polyurethane thermal insulation coefficient
- High efficiency rotary compressor that uses gas ecological R134A
- Automatic adjustment of the electrical resistance thanks to a special external temperature probe
- Radial inverter fans positioned directly on the part upper part of the storage together with the other components of the thermodynamic circuit in HP which communicate with the outside via special insulated PVC pipes.

Model	Code	€
<b>GREEN 300</b>	<b>37010100</b>	<b>3.480,00</b>
<b>GREEN 300 S</b>	<b>37010200</b>	<b>3.770,00</b>
<b>GREEN 300 2S</b>	<b>37010300</b>	<b>3.970,00</b>

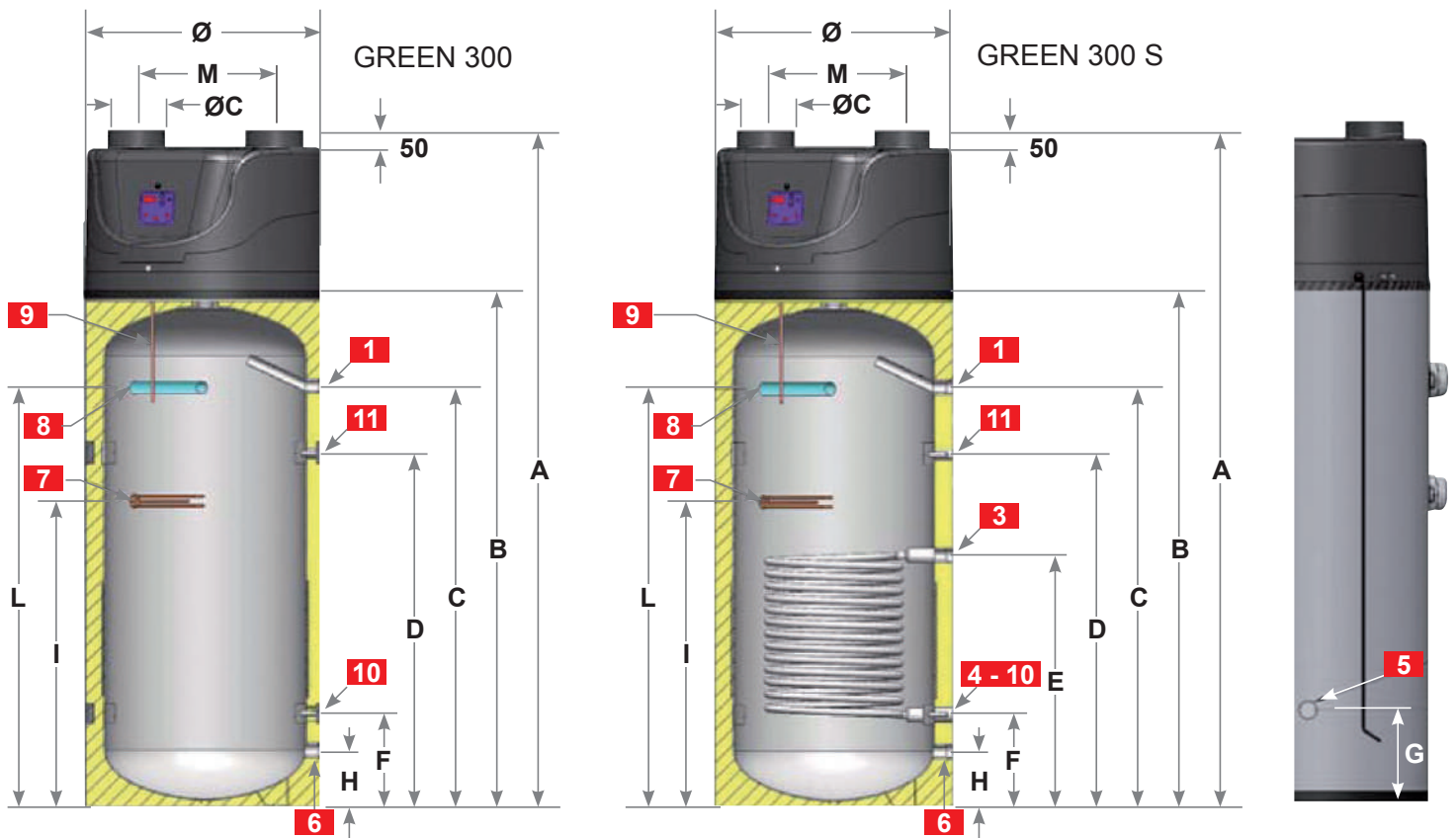
## Accessories GREEN 300 - GREEN 300 S - GREEN 300 2S

	Sacrificial electronic anode	<b>37010401</b>	<b>198,00</b>
	Ultra flexible polyethylene ducted hose double thermal-phonoc wall, internal diameter 160 mm, length 10 metres	<b>37900196</b>	<b>180,00</b>
	Square grille with built-in windproof protection in white ABS plastic mod. 152 with connection collar diameter 150 mm	<b>37900260</b>	<b>30,00</b>

# GREEN 300 - 300 S - 300 2S

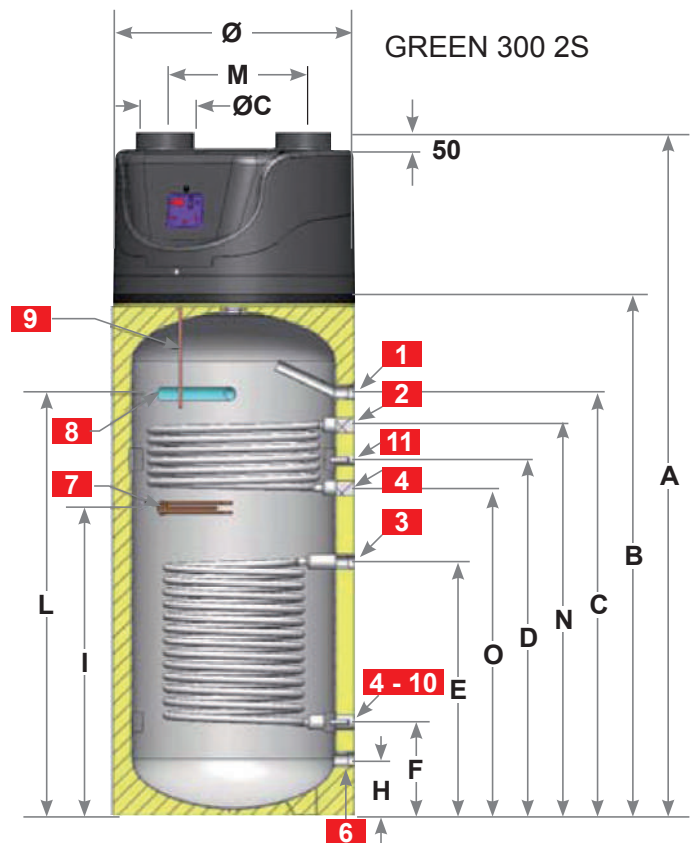
Monobloc heat pump water heater with domestic hot water storage with or without additional exchangers

## Dimensions and dimensions of heat pump water heater GREEN 300 - GREEN 300 S - GREEN 300 2S



	U.M.	300	300 S	300 2S
A	mm	1845	1845	1845
B	mm	1410	1410	1410
C	mm	1150	1150	1150
D	mm	965	965	965
E	mm	-	690	690
F	mm	-	255	255
G	mm	-	365	365
H	mm	155	155	155
I	mm	835	835	835
L	mm	1145	1145	1145
M	mm	425	425	425
N	mm	-	-	1060
O	mm	-	-	890
ØC	mm	160	160	160
Ø	mm	660	660	660

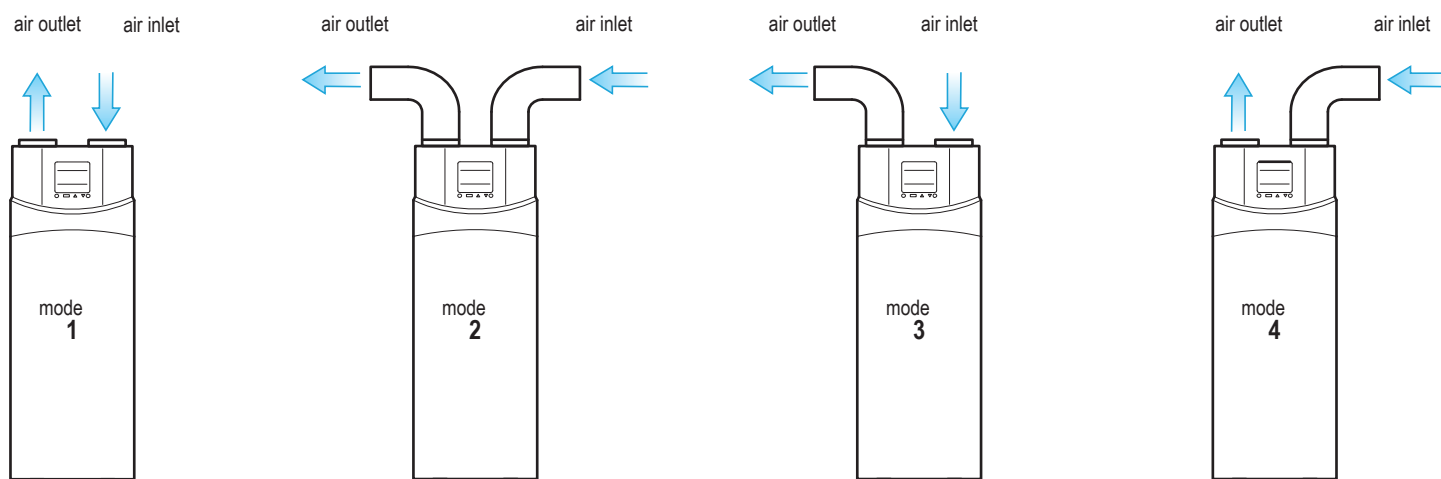
	DESCRIPTION	DIMENSIONS
1	Hot water	1"
2	Heating flow	1"
3	Alternative energy delivery	1"
4	Heating return	1"
5	Condensate drain	Ø 20 mm
6	Cold water inlet	1"
7	Electrical resistance	1" 1/4
8	Anode	1" 1/4
9	Control probe well	Ø 12 mm
10	Probe well	Ø 12 mm
11	Recirculation	1/2"



# GREEN 300 - 300 S - 300 2S

Monobloc heat pump water heater with domestic hot water storage with or without additional exchangers

## Installation methods GREEN 300 - 300 S - 300 2S



## Technical data table for heat pump water heaters GREEN

Model	U.M.	GREEN 300	GREEN 300 S	GREEN 300 2S
Thermal power (1)	W		2427	
Absorbed power (1)	W		639	
COP (2)	W/W		3,25	
Power supply			230V/1/50Hz	
Current consumption	A		3,19	
Warm-up time (2)	h		5,42	
Heating energy (2)	kWh		3,46	
Stand-by consumption	W		38	
Class of use			L	
Max HP temperature + electrical resistance	°C		60	
Max operating temperature only HP	°C		55	
Maximum quantity of usable water (3)	l		379	
Thermal power of electrical resistance	kW		1,50	
Current absorbed electrical resistance	A		6,52	
Max absorbed power PDC+resistance	kW		2,14	
Max current absorbed PDC+resistor	A		9,71	
Accumulation volume	l	273	268	265
Maximum operating pressure	bar		6	
Maximum air flow	m <sup>3</sup> /h		450	
Minimum air flow	m <sup>3</sup> /h		137	
Air duct diameter	mm		160	
Maximum length of air ducts	m		10	
Solar thermal exchanger	m <sup>2</sup>	-	1,5	1,5
Biomass exchanger - boiler	m <sup>2</sup>	-	-	0,6
Flow Rate Solar thermal exchanger	m <sup>3</sup> /h	-	1,6	1,6
Flow rate Solar biomass exchanger	m <sup>3</sup> /h	-	-	0,6
Sound level (4)	dB(A)		49	
Maximum operating pressure	bar		10	
Solar exchanger pressure drops	kPa	-	38	38
Biomass exchanger pressure drops	kPa	-	-	22
Empty weight	kg	112	127	145
Operating weight	kg	385	395	410

(1) Data according to ISO 255-3 with average storage temperature 50 °C

(2) Data according to EN 16147 - Ambient temperature 15 °C - Initial domestic hot water temperature 10 °C / final 55 °C

(3) Water flow rate 600 l/h

(4) Value measured at a distance of 2 meters in a free, non-ducted field