



- R-AQUA
- Heat pump water heater
- Floor mounting



Heat pump water heaters with extra heat exchanger (solar) floor model type HPB-S 300

Boiler heat pump for the production of domestic hot water. The heat pump is very energy efficient and has the A+ energy label. Sound insulation ensures silent operation of the boiler. The tank is made of enamelled steel and has a volume 293 liters, which allows the production of domestic hot water. The device is equipped with a micro-channel heat exchanger which are made of aluminum. The main advantage being the absence of contact with water.

Brand

- R-AQUA

Application

- Production of domestic hot water for household use

Product

- Smart Grid Ready
- Enamelled steel water tank of 293 liters (enamelling process at 860°C)
- The aluminum heat exchanger of the heat pump is located around the water tank instead of in the water tank: this ensures a separation between the refrigerant and the domestic hot water
- The S version is equipped with an additional heat exchanger for the connection of another heat source, for example solar panels.
- Energy label A+ with a COP up to 3.02 according to EN16147
- Low-noise operation of only 38.1 dB (A)
- Production of domestic hot water possible from 38°C to 55°C (75°C with resistance)
- Anti-legionella cycle
- Heating capacity of the heat pump: 1,5 kW
- Electric back-up resistance of 1,5 kW
- Protection through a magnesium anode
- Economy, smart or boost function
- Holiday mode
- Attention : The safety group (max. pressure 7 bar) is not included. To be provided by the installer and to be mounted on the cold water supply pipe - To be connected to the drain pipe.

Refrigerant

- R290

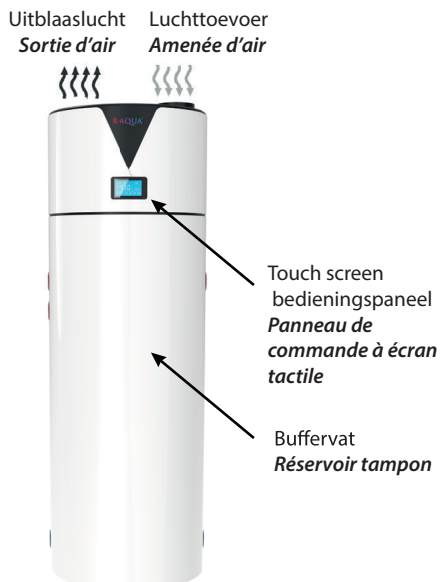
Installation

- Floor mounting

Accessories

- WiFi module, type **HPB(-S) WIFI**
- Insulation coupling, type **ISC**
- Safety group, type **PSG**
- Siphon for pressure safety group, type **SSG**
- Expansion vessel for sanitary water, type **SEV**
- Connection kit for sanitary expansion vessel, type **EVC SAN**
- Pressure regulator, type **PRV**
- Insulated duct (2m), type **ISDR 200/170**
- Insulated bend, type **ISDR BD90/45° 200/170**
- Connection piece, type **ISDR M**
- Wall passage, type **ISDR BLR 200/170**
- Roof passage, type **ISDR DDI 200/170**
- Suspension bracket, type **OBMC 200**, for mounting of ducts with outer diameter 200

Technical data		
		HPB-S 300
Volume	l	293
Max. heating capacity heat pump + electrical resistance	W	3000
Heating capacity heat pump *	W	1500
Absorbed power compressor	W	410
Built-in electrical backup resistance	W	1500
Operating temperature range	°C	-5 ~ 43
Temperature DHW with heat pump	°C	38 ~ 55
Flow rate	m ³ /h	350
Static fan pressure***	Pa	40
Sound pressure level at 1 m	dB(A)	38,10
Refrigerant (GWP)		R290 (3)
Precharged quantity of refrigerant	g(CO ₂ eq-kg)	150 (0,45)
Heating time*	h	9h19
COP (outdoor temperature +7°C)**		3,02
COP (indoor temperature +15°C)**		3,51
Seasonal energy efficiency ratio (outdoor temperature +7°C)**	%	124,70
Energy class (outdoor temperature +7°C)**		A+
Dimensions	mm	Ø640 X 1905 H
Weight (net)	kg	119
Connection diameter of air duct (supply/discharge)	mm	2 x 150
Hydraulic connection diameter	inch	3/4"
Power supply	V / Ph / Hz	230/1/50
Automatic fuse	A	16
Protection class		IPX1
Tank material		Enamelled steel
Maximum operating pressure with safety group	bar	7
Maximum temperature with electrical backup resistance	°C	75
Built-in heat exchanger	m ²	1,5
Connection diameter built-in heat exchanger	inch	3/4"
* Test conditions: ambient temp.: 20°C D.B. /15°C W.B., water inlet/outlet temp.: 15°C /55°C		
** Test conditions according to standard EN 16147: ambient temp.: 20°C D.B. /15°C W.B., water inlet/outlet temp.: 10°C /55°C		
*** Static fan pressure: possible up to 120 Pa, but this will change the sound pressure level up to 55 dB(A)		





		Dimensions	
			HPB-S 300 R-AQUA
A	mm		1905
B	mm		1467
C	mm		1208
D	mm		1088
E	mm		128
F	mm		Ø640
G	mm		Ø150