

BOLLYTERM® HP 2

POLYWARM® COATED WATER HEATER WITH INTEGRATED HEAT PUMP AND 2 FIXED HEAT EXCHANGERS



APPLICATION

Production and storage of domestic hot water (DHW).

MATERIAL

Mild steel Polywarm® coated (Attestation ACS - SSICA - EN 16421 - WRAS).

HEAT PUMP

The water inside the tank is warmed up by an integrated heat pump, equipped with external condensing coil. **A 1500 Watt electric resistance with "BOOST" option is already installed.**

Electronic central unit with graphic display allows controlling and scheduling.

INTEGRATIVE HEAT EXCHANGER:

N° 2 mild steel Polywarm® coated heat exchangers.

INSULATION

High thermal insulation with ecological polyurethane hard foam.

Upper cover and flange cover in ABS.

CATHODE PROTECTION

Magnesium anode.

DRAIN

External confluence through drain connection.

GASKET- FLANGE PLATE

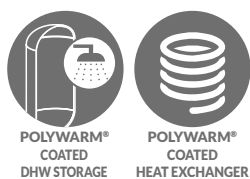
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Mild steel Polywarm® coated flange plate with electrical immersion resistance.

WARRANTY

5 years (tank). See general sales conditions and warranty for electrical parts.

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



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Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS
		Lower	Upper	
300	3180162330013	1,2	0,67	A+

Model	Net volume heated by heat pump [lt]	Room temperature output [°C]	C.O.P.	ErP Energy efficiency class (Reg EU 812/2013)	Ignition time (air temperature 20 °C - Water temperature from 15 °C to 55 °C) [min]	Electric integration power [W]	Maximum absorption	
							Heat pump	Total
200	176	-5/+43	2,98(*)	A+	236'	1500	805	2305
300	264		2,91(*)	A+	353'			

(*) Data obtained under the following conditions (T air 20 °C - T water from 15 °C to 55 °C)

INTEGRATED HEAT PUMP

The Bollyterm® HP produces DHW thanks to the heat energy naturally present in the air, allowing considerable energy savings. The functioning of the heat pump is based on the exploitation of R134a ecological gas that, through its compression and expansion, ensures high performance and cost efficiency. The energy (heat) is transferred from the air to the water through a condenser coil wrapped outside the tank, avoiding any possible contact between the fluid and the sanitary water, ensuring therefore maximum hygiene and safety. The output is indicated by the coefficient of performance C.O.P. indicating the relation between used and obtained energy.



Heat Pump TECHNICAL DATA						
Power supply	Max water temperature	Coolant type	Refrigerant charge	Max ducts length / Max static P	Minimum diameter pressure for duct	Acoustic level
[V / Ph / Hz]	[°C]	[type]	[g]	[m / Pa]	[mm]	[dB]
220-240 / 1 / 50	60	R134a	800	8 / 60	180	59 (*)

(*) Test in compliance with European standard EN 12102 – EN ISO 3741

ACCESSORIES

Electric immersion heater

Art. Nr.	Output	Size
5221000000064	2 kW	1" 1/2
5221000000066	3 kW	75-140 mm

See Accessories section

Thermometer

Art. Nr.
5032240000107
5 units box



Titanium anode

See Accessories section

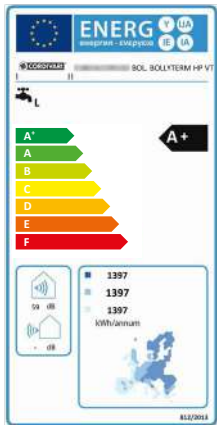


Electric immersion heater already installed - Art. Nr. for spare part only		
5221000000103	1,5 kW	75-140 mm

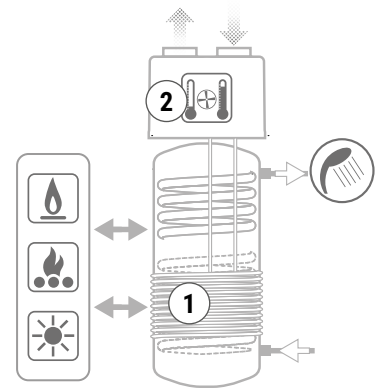
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AND 2 FIXED HEAT EXCHANGERS

STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
10 bar	90 °C	12 bar	110 °C



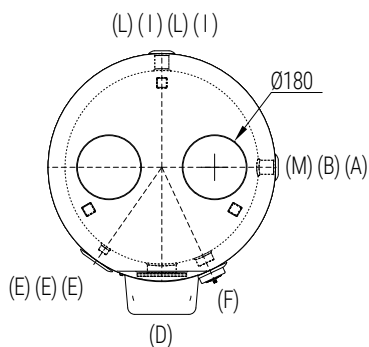
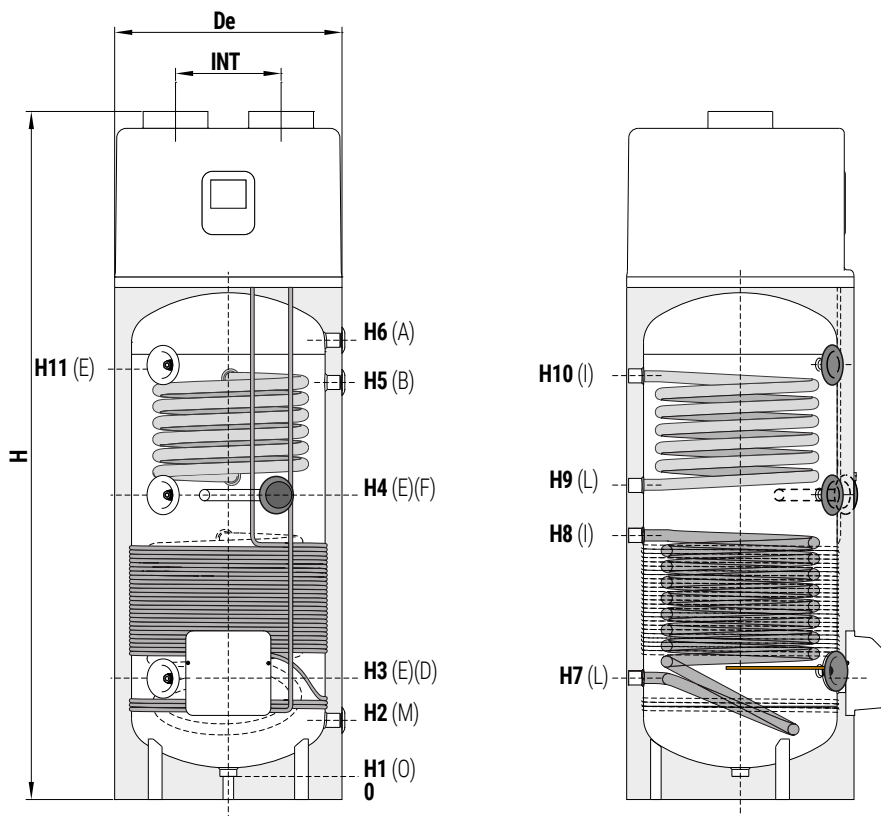
POLITECNICO DI MILANO
DIPARTIMENTO DI ENERGIA
REALAB- RENEWABLE
HEATING AND COOLING LAB



See TECHNICAL SUPPORT chapter
for example of installation

- 1 External to the storage, condensator coil avoiding any contact between coolant - D.H.W.
- 2 Electronic central unit (included):
 - set point hot water
 - self check
 - anti-legionellosis treatment
 - operating programs
 - "BOOST" mode

A	Domestic hot water outlet 1" F
B	Recirculation 1" F
D	Flange for inspection Ø 75 mm / Electric immersion heater
E	Connection for instrumentation 1/2" F
F	Connection for magnesium anode 1"1/4 F
I	Primary circuit inlet 1"1/4 G F
L	Primary circuit outlet 1"1/4 G F
M	Domestic cold water circuit inlet 1" F
O	Drain 1" 1/4 F



Model	Volume [lt]	De	INT	H	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11
300	293	640	340	1960	71	240	350	860	1190	1300	351	755	900	1140	1210

P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE