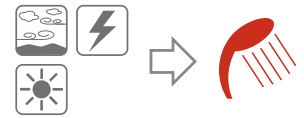


# BOLLYTERM® HP

## THERMODYNAMIC CALORIFIER WITH HEAT PUMP



**Product component of a complete Sun Solution Solar Thermal System**  
Please refer Sun Solution Cordivari catalogue

Capacity	BOLLYTERM HP	Room temperature min/max	Heat Pump thermal output	Average electrical power absorbed by the Heat Pump	Electrical integration power
[liters]	ART. NR.	[°C]	[W]	[W]	[W]
200	3180162330002	7/32	2427	639	1500
300	3180162330003				

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

For temperature of exchanger > 110°C see page 102

Capacity	BOLLYTERM HP (with 1 fixed coil)	Heat Exchanger Surface for Solar collector circuit	Suggested Solar Collectors surface	Room temperature min/max	Heat Pump thermal output	Average electrical power absorbed by the Heat Pump	Electrical integration power
[liters]	ART. NR.	[m²]	[m²]	[°C]	[W]	[W]	[W]
200	3181162330002	0,8	4	7/32	2427	639	1500
300	3181162330003	1,2	6				

### Technical descriptions

Carbon steel Polywarm® coated thermodynamic calorifier suitable for drinkable water in accordance to D.M. n.174 dated 2004.

### Application

Production and Storage of sanitary hot water for domestic and industrial uses with double energy source.

### Heat exchanger (only integrated coil version):

1 fixed coil in carbon steel coated with Polywarm® suitable for drinkable water according to D.M. n.174 dated 2004.

### Electrical resistance (included):

Power: 1500 Watt - "plug&play" model

### Insulation

Ecological hard polyurethane foam, thickness 50 mm with high thermal insulation and thermal conductivity 0,023 W/m.K.

### External lining

PVC grey.

### Drain pipe

External confluence through jointable pipe.

### Cathode protection

Magnesium anode Anoden-tester which allows to check easily the real consumption of the magnesium bar.  
Electronical anode on demand (see page 75)

### Gasket-Flange Plate

- Silicone gaskets suitable for alimentary use for max temperature up to 200°C. (D.M. n.174 dated 2004);  
- Flange Polywarm®.

### Warranty

- 5 years for the calorifier  
- 2 years for Heat Pump  
See general sales conditions and warranty.

## INTEGRATED HEAT PUMP

The Bollyterm HP produces DHW thanks to the heat energy naturally present in the air, allowing considerable energy savings.

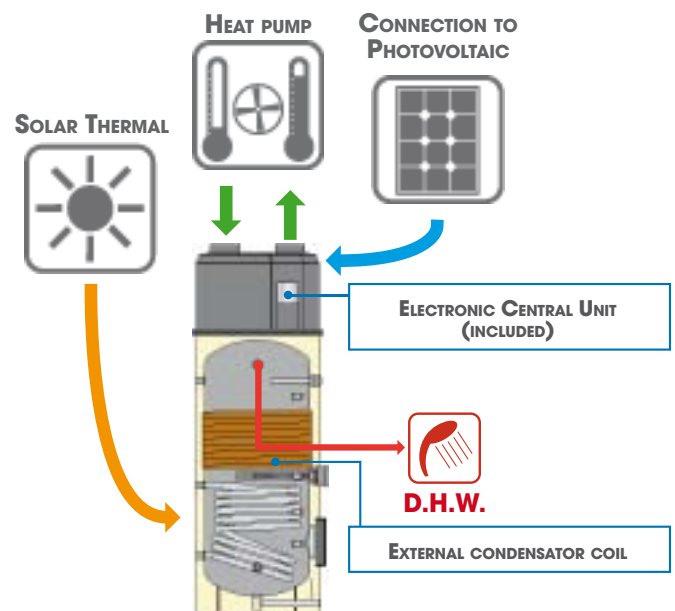
The functioning of heat pump is based on the exploitation of a particular ecological gas (R134) that, through its compression and expansion, ensures high performance and cost efficiency.

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. The C.O.P. on Bollyterm is 3.8.

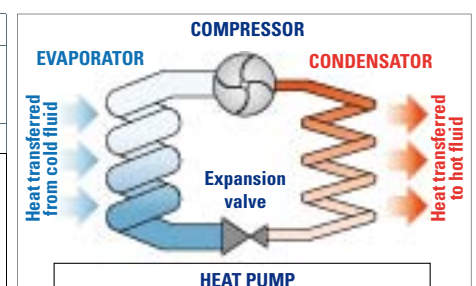
Besides, the Bollyterm HP is already equipped with additional electrical immersion of 1500 watt back up system.

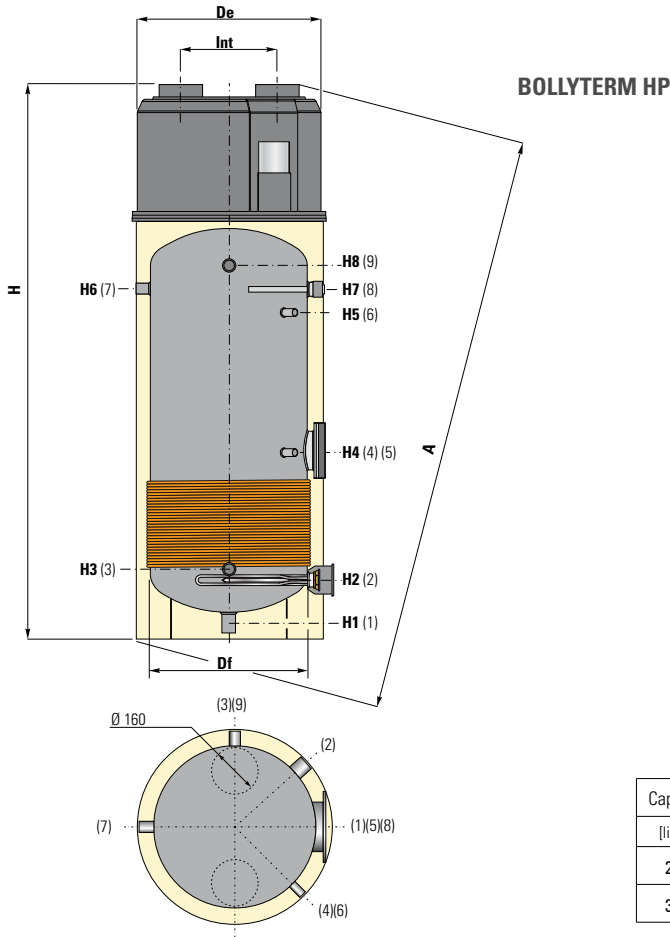
Bollyterm HP is also available with solar coil version for integration with Cordivari Solar Collector, with further advantage in terms of efficiency and comfort.

- (\*) C.O.P. 3,8 according to EN 255-3 (T air 15 °C T water 15-50°C)
- Electrical power absorb 655 W -> Electrical power output 1940 W
- Insulated compressor with ecological coolant R134A
- Heat pump condenser coil external to the tank avoiding any contact Gas-domestic hot water
- Air-rate adjustable radial ventilator



HEAT PUMP TECHNICAL DATA								
Power supply	Max water temperature	Coolant	Coolant Pressure	Acoustic level	C.O.P. (*) (45°C)	Inlet and outlet air capacity	Max pipes lenght	Minimum pipes diameter
[V / Ph / Hz]	[°C]	[type]	[g]	db (A)		[m³/h]	[m]	[mm]
230 / 1 / 50	60	R134a	950	52	3,8	450	10	160

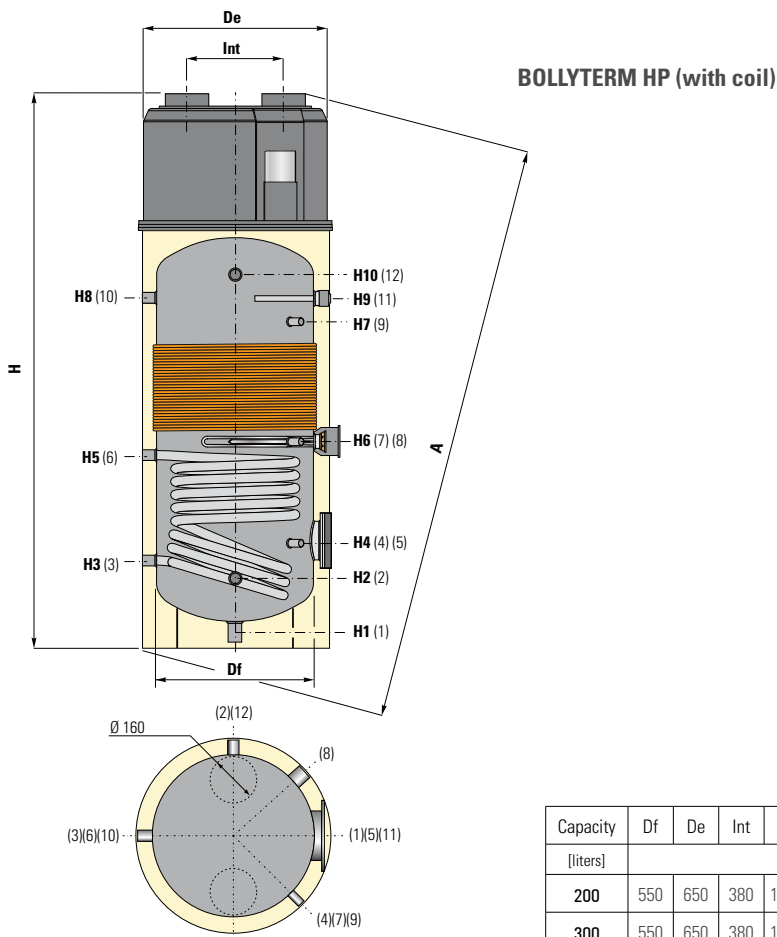




**BOLLYTERM HP**

CONNECTIONS	
1	Drain 1 ¼" Gas F
2	Connection for elect. immersion 1"1/2 Gas F
3	Domestic Cold Water Circuit Inlet 1" Gas F
4	Connection for Instrumentation 1/2" Gas F
5	Blind flange for inspection ø 120
6	Connection for Instrumentation 1/2" Gas F
7	Additional connection 1" Gas F
8	Connection for anode 1 ¼" Gas F
9	Domestic Hot water outlet 1" Gas F

Capacity	Df	De	Int	H	A	H1	H2	H3	H4	H5	H6	H7	H8
[liters]	[mm]												
200	550	650	380	1620	1750	71	230	240	715	895	915	915	980
300	550	650	380	1920	2030	71	230	240	715	1165	1205	1205	1280



**BOLLYTERM HP (with coil)**

CONNECTIONS	
1	Drain 1 ¼" Gas F
2	Domestic Cold Water Circuit Inlet 1" Gas F
3	Outlet integration 1" Gas F
4	Connection for Instrumentation 1/2" Gas F
5	Blind flange for inspection ø 120
6	Inlet integration 1" Gas F
7	Connection for Instrumentation 1/2" Gas F
8	Connection for elect. immersion 1"1/2 Gas F
9	Connection for Instrumentation 1/2" Gas F
10	1" Gas F
11	Connection for anode 1 ¼" Gas F
12	Domestic Hot water outlet 1" Gas F

Capacity	Df	De	Int	H	A	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
[liters]	[mm]														
200	550	650	380	1620	1750	71	240	295	365	570	600	985	985	985	985
300	550	650	380	1920	2030	71	240	305	375	715	745	1165	1205	1205	1280