

SOLAR THERMAL SYSTEM BOLLYTERM® HP

FORCED CIRCULATION SYSTEM WITH HEAT PUMP WATER HEATER



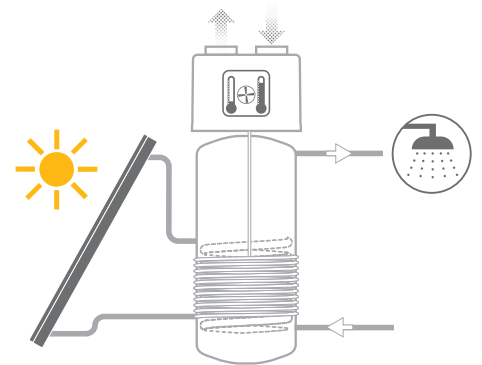
BOLLYTERM® HP 1 - HP 2



HEAT PUMP
WATER
HEATER

SYSTEM WITH
ENERGY EFFICIENCY

**CLASS
A+++**



The solar thermal system **BOLLYTERM® HP** guarantees the total coverage of the DHW requirements with renewable energy source through the integrated heat pump and solar collectors.

The elevated C.O.P of the thermodynamic water heater ensures maximum energy savings in support of the solar collectors by configuring a system with energy efficiency class A+++.

SOLAR COLLECTOR

- Insulation in mineral wool

- Anodized aluminum structure
- Highly selective absorber
- Impact test according to EN 12975 and EN 9806
- Tempered glass according to EN 12150

CHARACTERISTICS OF THE CALORIFIER

- Model **BOLLYTERM® HP** with fixed solar heat exchanger and integrated heat pump with condenser coiled outside the storage tank
- Tank in carbon steel
- 1500 watt electrical heater integration included with boost function

- Insulation of rigid polyurethane foam with high thermal insulation. External PVC cover.
- Internal Polywarm coating, suitable for drinking water according to 98/83/CE and subsequent amendments and DHW certification of internal Polywarm treatment DHW - SSICA - DVGW -W270 - UBA - WRAS

WARRANTY

5 years - See general sales and warranty conditions

INTEGRATED HEAT PUMP

The Cordivari calorifier with integrated heat pump **BOLLYTERM® HP** produces domestic hot water using the heat naturally present in the air, allowing significant energy and economic savings.

The principle of the heat pump is based on the exploitation of a particular ecological gas (R134a), thanks to compression and expansions, allows high and advantageous energy efficiency. The heat taken from the air is transferred to the water by means of a condenser coil that is wrapped around the outside of the tank. In this way any contact between the heat transfer fluid and the domestic hot water is avoided as a guarantee of maximum safety and hygiene. The efficiency is indicated by the coefficient of performance (C.O.P) that indicates the ratio between the energy used and the one obtained to heat the water contained in the tank.



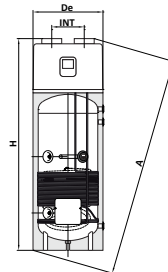
ALWAYS ASK FOR
CERTIFIED LABORATORIES
DATA RESULTS

CORDIVARI Lab

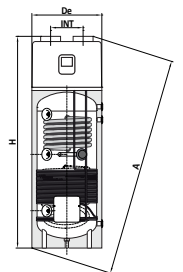
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



BOLLYTERM® HP 1
WITH 1 HEAT EXCHANGER



BOLLYTERM® HP 2
WITH 2 HEAT EXCHANGERS



SYSTEM COMPONENTS

INCLUDED

Highly selective solar collector	✓
BOLLYTERM® HP heat pump water heater (HP1 or HP2)	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Expansion vessel lt 24	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve	✓
Fixing kit and fittings	✓
1500 W electrical heater	✓

BOLLYTERM® HP 1

MODEL	INT	De	H	A	ENERGY EFFICIENCY CLASS
200	340	640	1585	1684	A+
300	340	640	1960	2040	A+

BOLLYTERM® HP 2

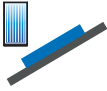

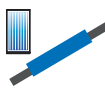
300	340	640	1960	2040	A+
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For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

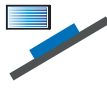


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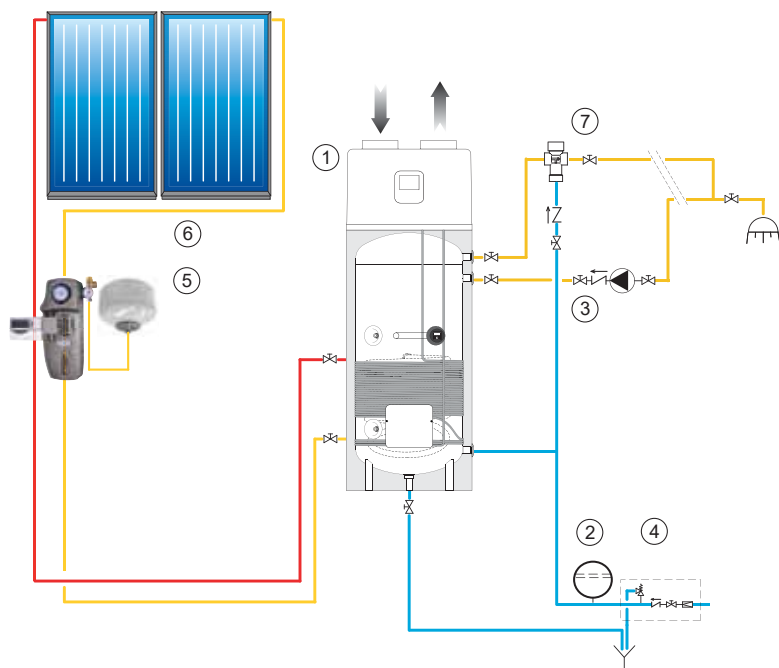


Calorifier type: BOLLYTERM® HP 1				 VT COLLECTORS - PITCHED ROOF	 VT COLLECTORS - FLAT ROOF	 VT COLLECTORS - ON ROOF
Calorifier model	Nr. of collectors m ²	Total surface area m ²	Nr. Recommended users	Description/ Art. Nr.	Description/ Art. Nr.	Description/ Art. Nr.
200	2x2,5	5	4-5	200HP1 5MQ TF 3410316617405	200HP1 5MQ TP 3410316617415	200HP1 5MQ INCAS. 3410316617425
300	2x2,5	5	5-6	300HP1 5MQ TF 3410316617407	300HP1 5MQ TP 3410316617417	300HP1 5MQ INCAS. 3410316617427
Calorifier type: BOLLYTERM® HP 2						
300	2x2,5	5	5-6	300HP2 5MQ TF 3410316617438	300HP2 5MQ TP 3410316617439	300HP2 5MQ INCAS. 3410316617440

EXECUTIONS ON REQUEST

Calorifier type: BOLLYTERM® HP 1				 OR COLLECTORS - PITCHED ROOF	 OR COLLECTORS - FLAT ROOF	 VT COLLECTORS - WALL MOUNTED	SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS
Calorifier model	Nr. of collectors m ²	Total surface area m ²	Nr. Recommended users	Description/ Art. Nr.	Description/ Art. Nr.	Description/ Art. Nr.	Description/ Art. Nr.
200	2x2,5	5	4-5	200HP1 5MQ TF OR ON REQUEST	200HP1 5MQ TP OR ON REQUEST	200HP1 5MQ VT ON REQUEST	200HP1 5MQ SZ CARP. 3410316617435
300	2x2,5	5	5-6	300HP1 5MQ TF OR ON REQUEST	300HP1 5MQ TP OR ON REQUEST	300HP1 5MQ VT ON REQUEST	300HP1 5MQ SZ CARP. 3410316617437
Calorifier type: BOLLYTERM® HP 2							
300	2x2,5	5	5-6	300HP2 5MQ TF OR ON REQUEST	300HP2 5MQ TP OR ON REQUEST	300HP2 5MQ VT ON REQUEST	300HP2 5MQ SZ CARP. 3410316617441

For fixing kit and other components see accessories section.



LEGEND

- 1 BOLLYTERM® HP heat pump water heater
- 2 Expansion vessel
- 3 DHW circulation group pump
- 4 Hydraulic safety group
- 5 Complete solar circulation group
- 6 Solar collector/s
- 7 Solar thermostatic mixing valve

NOTE: The shown installation examples are for illustrative purposes only. For the correct configuration always refer to a qualified installer.