

# SOLAR THERMAL SYSTEM BOLLYTERM® HP CVT

FORCED CIRCULATION SYSTEM WITH HEAT PUMP WATER HEATER



## BOLLYTERM® HP 1 - HP 2

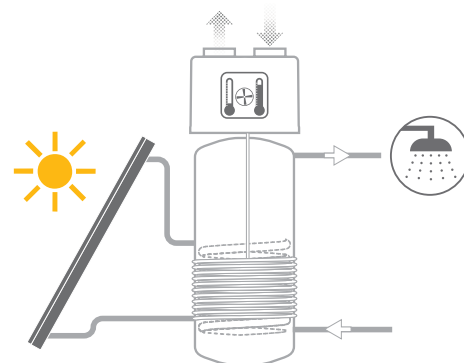


HEAT PIPE

HEAT PUMP  
WATER  
HEATER

SYSTEM WITH  
ENERGY EFFICIENCY

CLASS  
A+++



The solar thermal system **BOLLYTERM® HP CVT** guarantees total coverage of DHW demand even in the most difficult climatic conditions with renewable energy sources through the integrated heat pump and the solar collectors with Cordivari vacuum technology CVT.

The high C.O.P guarantees maximum energy savings in support of the CVT collectors and the specific calorifier for solar systems that maximizes the performances of both energy sources by configuring a system with energy efficiency class A+++.

### SOLAR COLLECTOR

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology.

- Anodized aluminum structure.
- Parabolic concentrator mirror CPC
- Impact test according to EN 12975 and EN 9806

### 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

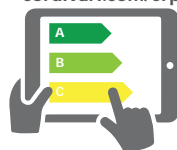
5 years - See general sales and warranty conditions

### 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.

[cordivari.com/erp](http://cordivari.com/erp)



ON LINE ErP LABEL  
TOOL

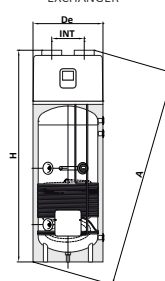
ALWAYS ASK FOR  
CERTIFIED LABORATORIES  
DATA RESULTS

**CORDIVARI Lab**

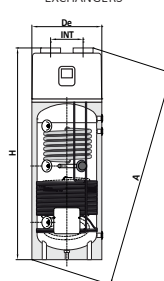
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



**BOLLYTERM® HP 1**  
WITH 1 HEAT  
EXCHANGER



**BOLLYTERM® HP 2**  
WITH 2 HEAT  
EXCHANGERS



ENERGY  
EFFICIENCY  
CLASS

### BOLLYTERM® HP 1

MODEL	INT	De	H	A	TESTED ErP 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.

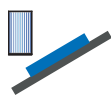
### SYSTEM COMPONENTS

INCLUDED

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology	✓
BOLLYTERM® HP 1 or HP 2	✓
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	✓

# SOLAR THERMAL SYSTEM BOLLYTERM® HP CVT

FORCED CIRCULATION SYSTEM WITH HEAT PUMP WATER HEATER



VT COLLECTORS - PITCHED ROOF



VT COLLECTORS - FLAT ROOF

Calorifier type:

## BOLLYTERM® HP 1

Calorifier model	Nr. of collectors (*)	Total surface area m <sup>2</sup>	Nr. Recommended users	Description/ Art. Nr.	Description/ Art. Nr.
200	1x10	2,17	4-5	200HP1 CVT10 TF	200HP1 CVT10 TP
				3410316618939	3410316618943
200	1x15	3,22	5-6	200HP1 CVT15 TF	200HP1 CVT15 TP
				3410316618940	3410316618944
300	2x10	4,34	5-6	300HP1 2CVT10 TF	300HP1 2CVT10 TP
				3410316618941	3410316618945
300	2x15	6,44	6-7	300HP1 2CVT15 TF	300HP1 2CVT15 TP
				3410316618942	3410316618946

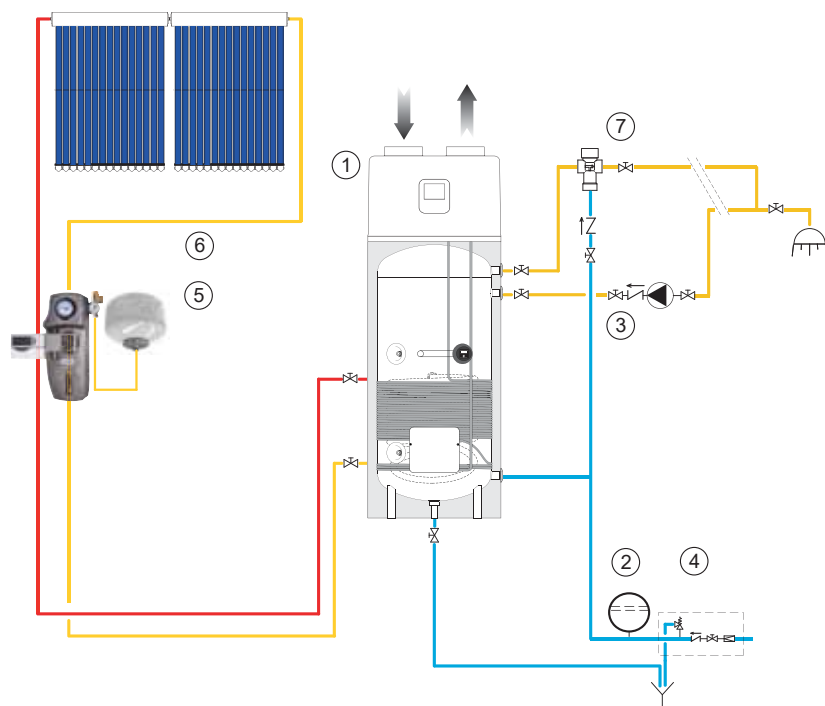
Calorifier type:

## BOLLYTERM® HP 2

300	2x10	4,34	5-6	300HP2 2CVT10 TF	300HP2 2CVT10 TP
				3410316618947	3410316618949
300	2x15	6,44	6-7	300HP2 2CVT15 TF	300HP2 2CVT15 TP
				3410316618948	3410316618950

(\*) Cordivari vacuum tubes collector – (Vacuum tube with heat pipe technology).

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.