BOLLYTERM® **HP 2**

POLYWARM® COATED CALORIFIER 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 - DVGW - W270 - WRAS)
HEAT PUMP
The water inside the tank is warmed up by an integrated insulated compressor 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 planning.
HEAT EXCHANGER:
N° 2 Polywarm® coated fixed heat exchangers.
INSULATION
High thermal insulation with ecological polyurethane hard foam.
EXTERNAL LINING
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), max temperature up to 200°C. 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.

POLYWARM® COATED DHW STORAGE

POLYWARM® COATED HEAT EXCHANGER

STOCK AVAILABILITY

cordivari.com/erp

On line ErP label tool

Percorso Efficienza Innovazione
MCE - EXPOCOMFORT

BOLLYTERM® HP 2

Model	HARD FOAM insulation	HEAT EXCHANGER SURFACE Lower	Upper	ENERGY EFFICIENCY CLASS
	Art. Nr.	[m²]		
300	3180162330013	1,2	0,67	**A+**

Model	Net volume heated by heat pump	Room temperature output	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)	Electric integration power	Maximum absorption	
							Heat pump	Total
	[lt]	[°C]			[min]	[W]	[W]	
300	264	-5/+43	2,91(*)	A+	353'	1500	805	2305

(*) Data obtained under the following conditions: T air 20 °C - T water from 15 °C to 55 °C, according to EN 16147

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 a particular ecological gas (R134a) 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	Coolant Pressure	Max ducts length/ Max static P	Minimum pipes diameter	Acoustic level
[V / Ph / Hz]	[°C]	[tipo]	[g]	[m / Pa]	[mm]	[dB]
220-240 / 1 / 50	60	R134a	800	8 / 60	180	59 (*)

(*) Test complaint with European standard EN 12102:2013 – EN ISO 3741:2010

ACCESSORIES

Electric immersion heater

Art. Nr.	Power	Ø connection [mm]
5221000000103	1,5 kW	75-140
5221000000066	3 kW	75-140

Thermometer

Art. Nr.
5032240000107
5 units box

Titanium electronic anode

See Accessories section

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

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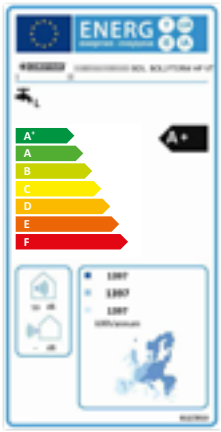
STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
10 bar	90 °C	12 bar	110 °C



CORDIVARI Lab

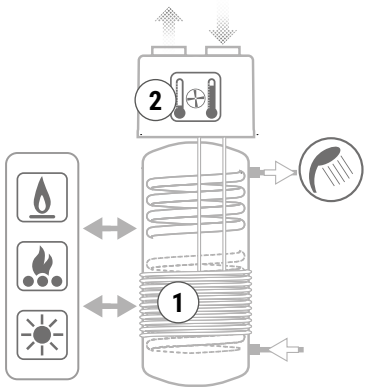
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by Ecodesign ErP Directive.

TESTED ErP

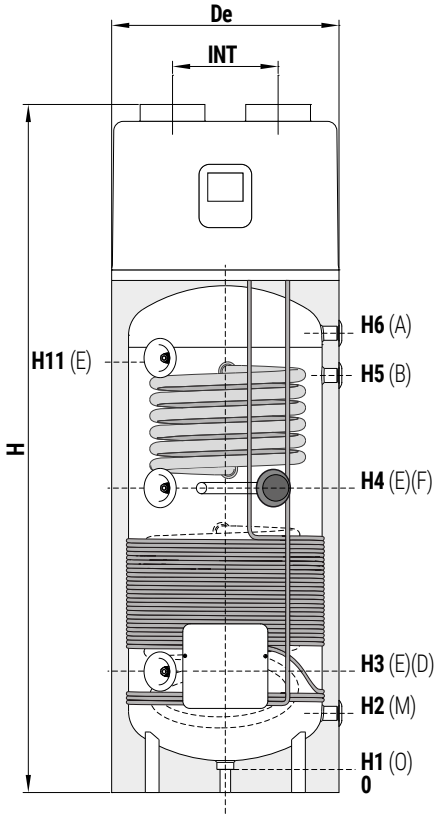
IMQ CLIMA

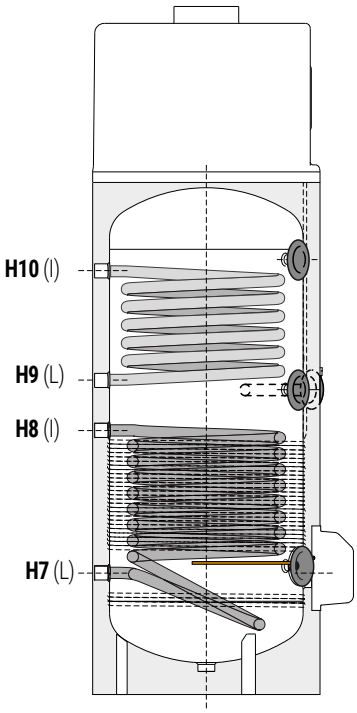
CENTRO DI INNOVAZIONE TECNOLOGICA AGEMONT

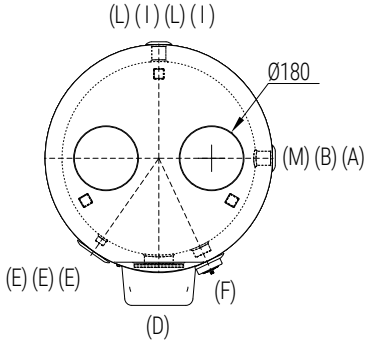
POLITECNICO DI MILANO
DIPARTIMENTO DI ENERGIA
REALAB- RENEWABLE HEATING AND COOLING LAB



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 treatement
- operating programs
- "BOOST" mode

A	Domestic hot water circuit outlet 1" F
B	Recirculation 1" F
D	Ispezione Ø 75 / Integrazione elettrica
E	Probe 1/2" F
F	Magnesium anode 1"1/4 F
I	Upper/Lower heat exchanger inlet 1" 1/4 F
L	Upper/Lower heat exchanger outlet 1" 1/4 F
M	Domestic cold water circuit inlet 1" F
O	Drain 1" 1/4 F

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

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