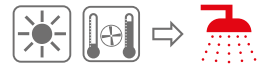


# BOLLY® 2 XL

POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 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 EXCHANGER

N° 2 mild steel Polywarm® coated heat exchangers.

### INSULATION

High thermal insulation with ecological polyurethane hard foam.

Grey PVC external lining.

### 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 inspection flange plate with Polywarm®.

### WARRANTY

5 years - See general sales conditions and warranty

### ACCESSORIES AND SPARE PARTS

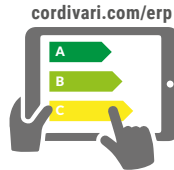
See Accessories section for the entire list.



POLYWARM®  
COATED  
DHW STORAGE




POLYWARM®  
COATED  
HEAT EXCHANGER



On line ErP label tool



## BOLLY® 2 XL WB

Model	HARD FOAM insulation Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS 
		Upper	Lower	
<b>200</b>	3135162320510	1,4	0,4	<b>B</b>
<b>300</b>	3135162320511	1,9	0,9	<b>B</b>
<b>500</b>	3135162320512	3,1	1,4	<b>C</b>

For technical data and performance charts see  
**CALORIFIERS FOR HEAT PUMPS section**

## ACCESSORIES

### ELECTRIC IMMERSION HEATERS



Mod.	Heated volume by electric immersion heater [lt]
<b>200</b>	127
<b>300</b>	173
<b>500</b>	313

### MONOPHASE

1,5 kW	2 kW	3 kW
5240000000051	5240000000052	5240000000053
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
207	155	104
281	211	140
509	382	255

### "Easy Control" Electronic Display-mounted on tank

ART. NR.	FOR MODELS
5005000310003	WB



### Electric immersion heater flange plate

See Accessories section
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### Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300
5200000000009	500



# BOLLY® 2 XL

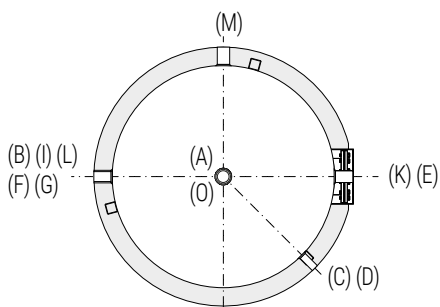
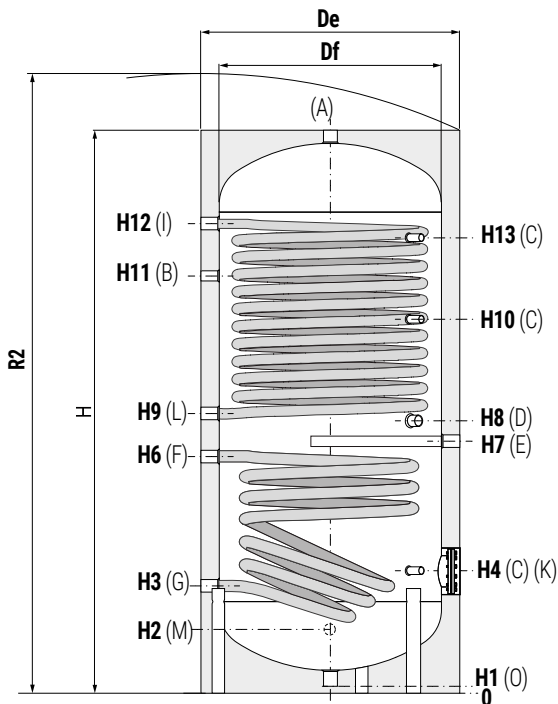
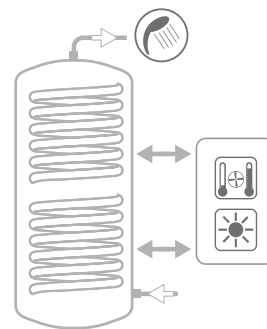
## POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 2 FIXED HEAT EXCHANGERS

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.



<b>A</b>	Domestic hot water outlet
<b>B</b>	Recirculation
<b>C</b>	Connection for instrumentation 1/2" F
<b>D</b>	Connection for electric immersion heater
<b>E</b>	Connection for magnesium anode 1"1/4 F
<b>F</b>	Lower heat exchanger inlet 1"1/4 F
<b>G</b>	Lower heat exchanger outlet 1"1/4 F
<b>I</b>	Upper heat exchanger inlet 1"1/4 F
<b>J</b>	Connection for 2nd magnesium anode 1"1/4 F (only for models >500)
<b>K</b>	Blind flange for inspection
<b>L</b>	Upper heat exchanger outlet 1"1/4 F
<b>M</b>	Domestic cold water circuit inlet
<b>N</b>	Connection for instrumentation 1/2" F
<b>O</b>	Drain 1" 1/4 F

Model	Volume [lt]	Weight [Kg]	DE	H	R2	H1	H2	H3	H4	H6	H7	H8	H9	H10
<b>200</b>	189	65	550	1440	1540	65	220	285	325	475	500	535	570	1105
<b>300</b>	291	83	650	1486	1620	65	246	311	381	596	616	651	686	1076
<b>500</b>	498	134	750	1786	1940	65	271	346	411	671	691	726	761	1296

Model	H11	H12	H13	K	O	M	Connections F			A
							[mm]			
<b>200</b>	1089	1200	1195	Ø1120/Øe180	1"1/4	3/4"	1"1/2	3/4"	1"1/4	
<b>300</b>	1090	1226	1196	Ø1120/Øe180	1"1/4	1"	1"1/2	1"	1"1/4	
<b>500</b>	1091	1473	1197	Ø1120/Øe180	1"1/4	1"	1"1/2	1"	1"1/4	

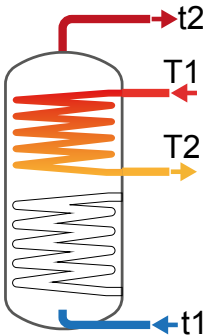


Data have been calculated on following basis:

- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continuous way from 10 °C at t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.

UPPER  
HEAT EXCHANGER

Model	Primary Flow rate	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
	[m³/h]	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
200	2,5	37	38	27	18	15	23	27	34	377	564	659	851
	1,25	42	44	31	21	14	21	24	30	346	507	586	749
300	3	43	45	31	20	20	30	35	46	501	747	871	1123
	1,5	50	52	37	24	18	27	31	39	454	661	765	975
500	3,5	46	48	34	22	33	49	56	72	812	1198	1392	1786
	1,75	47	49	35	23	30	42	49	62	732	1050	1208	1525



Model	Primary Flow rate	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure loss	
		T1/t2				T1/t2				[mm H <sub>2</sub> O]	[mbar]
	[m³/h]	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
200	2,5	149	275	291	323	163	633	708	862	163,5	16,0
	1,25	149	266	279	306	162	587	651	781	45,6	4,5
300	3	226	400	421	463	245	873	972	1174	88,4	8,7
	1,5	225	386	403	438	242	805	888	1056	24,5	2,4
500	3,5	329	601	633	699	360	1360	1515	1830	70,2	6,9
	1,75	328	576	603	656	355	1242	1368	1621	20,9	2,0

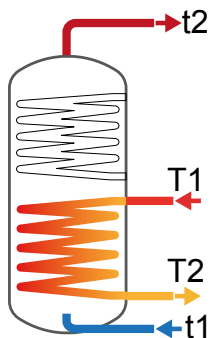


Data have been calculated on following basis:

- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continuous way from 10 °C at t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.

LOWER  
HEAT EXCHANGER

Model	Primary Flow rate [m³/h]	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
		55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
200	2,5	182	189	130	84	4,8	6,9	8,1	10,5	110	168	198	259
	1,25	225	241	151	95	4,4	6,4	7,5	9,7	99	152	179	235
300	3	127	132	92	60	9,9	15,0	17,5	22,8	243	368	431	561
	1,5	150	157	107	69	9,1	13,6	15,8	20,4	220	330	385	499
500	3,5	141	146	102	67	15,5	23,2	27,1	35,1	380	572	669	868
	1,75	139	145	101	66	14,2	21,0	24,4	31,3	346	514	598	771



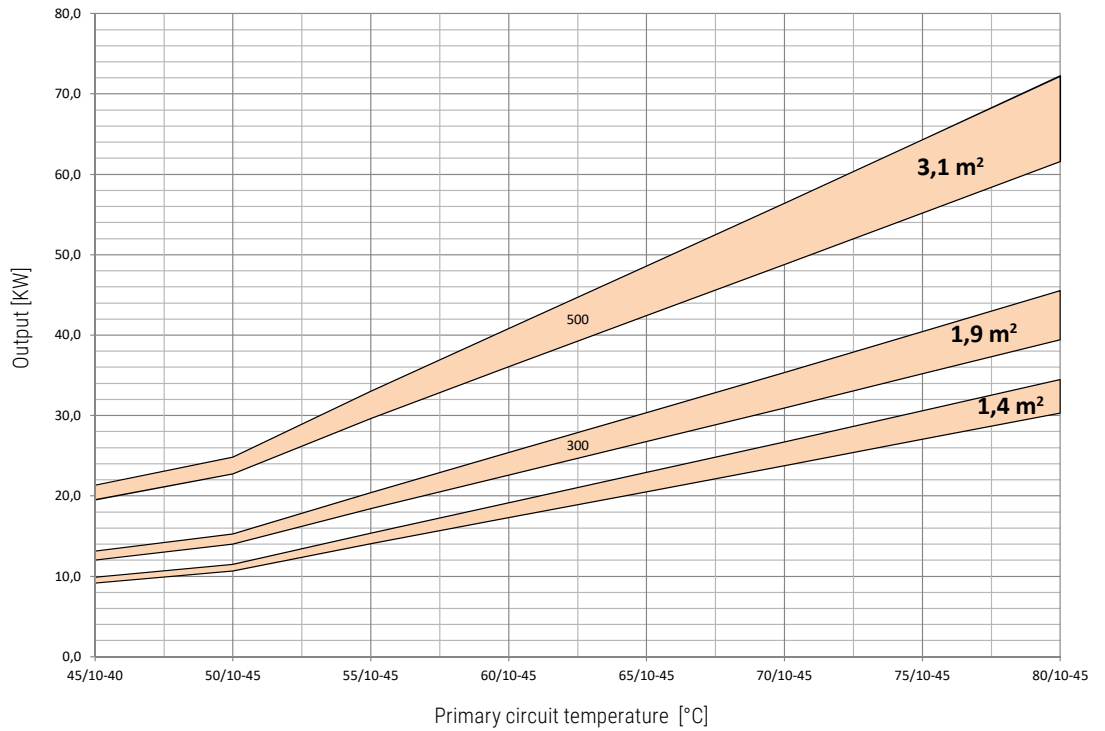
Model	Primary Flow rate [m³/h]	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure loss	
		T1/t2				T1/t2				[mm H <sub>2</sub> O]	[mbar]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
200	2,5	217	298	303	313	222	405	428	477	92,7	9,1
	1,25	217	295	300	309	221	392	413	458	24,5	2,4
300	3	335	477	488	509	345	710	761	865	61,5	6,0
	1,5	335	471	480	499	343	679	724	815	16,5	1,6
500	3,5	486	698	714	748	501	1060	1138	1297	100,1	9,8
	1,75	486	688	703	731	499	1014	1082	1219	27,4	2,7



Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary flow rate)



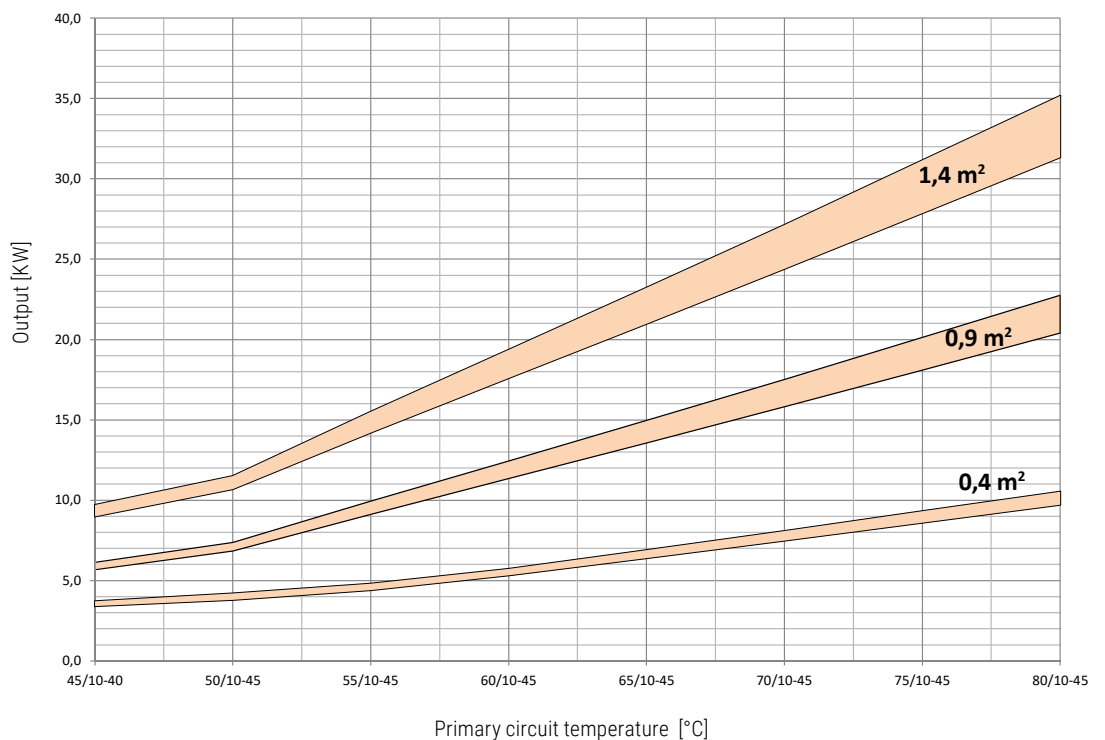
### UPPER HEAT EXCHANGERS



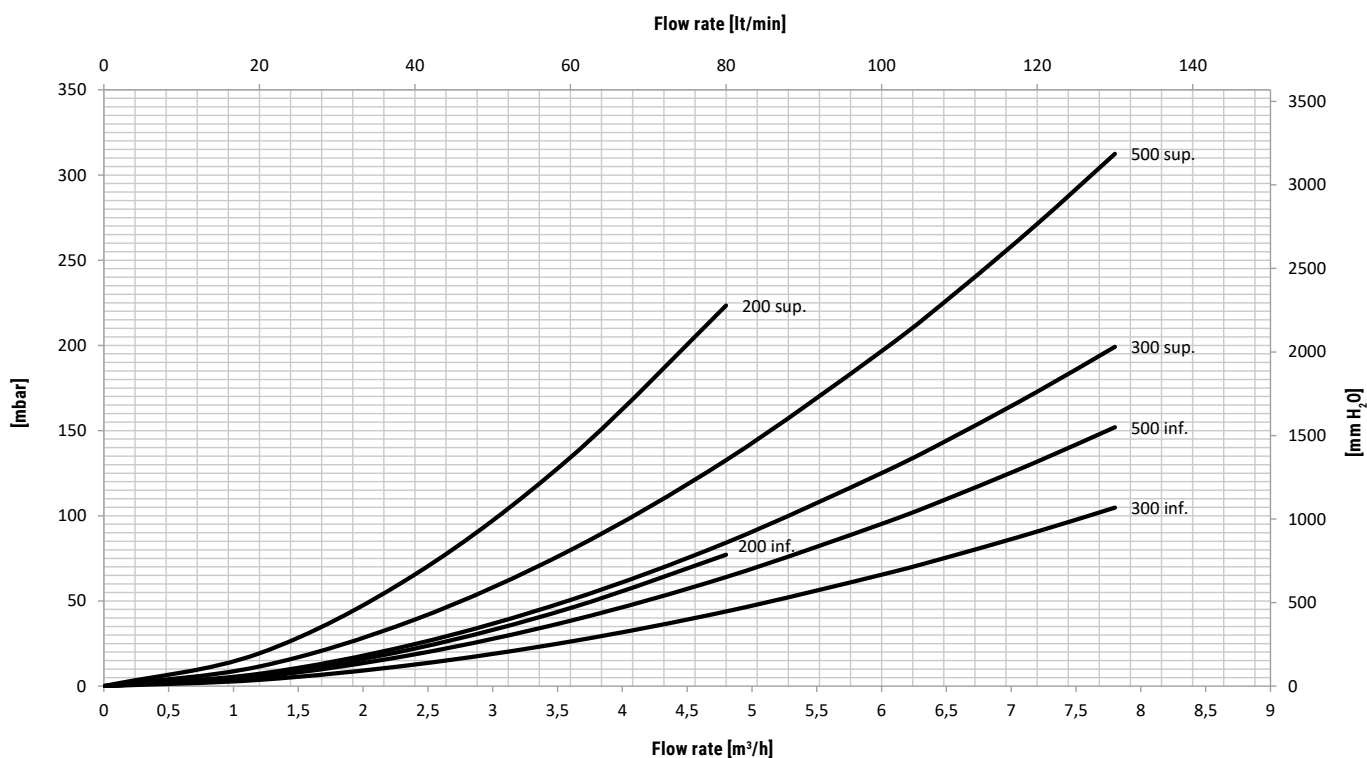
Upper heat exchangers	1,4 m <sup>2</sup>		1,9 m <sup>2</sup>		3,1 m <sup>2</sup>	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	2,5	1,25	3	1,5	3,5	1,75



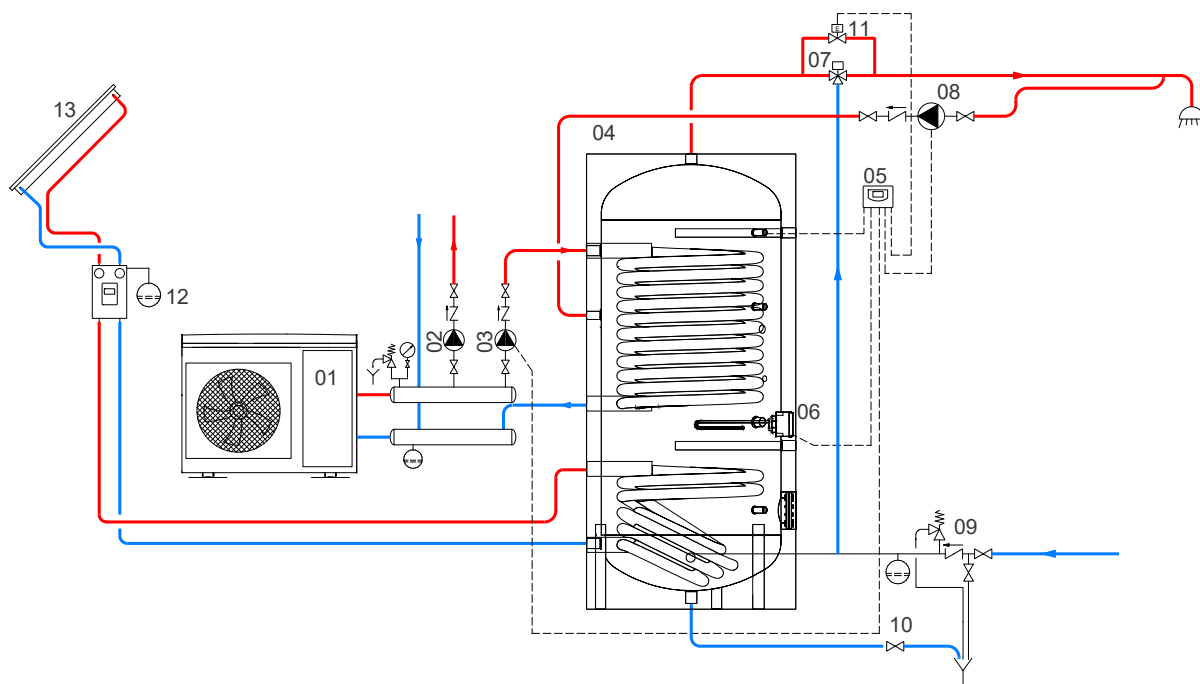
### LOWER HEAT EXCHANGERS



Lower heat exchangers	0,4 m <sup>2</sup>		0,9 m <sup>2</sup>		1,4 m <sup>2</sup>	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m <sup>3</sup> /h]	2,5	1,25	3	1,5	3,5	1,75



**EXAMPLE OF INSTALLATION WITH BOLLY® 2 XL**



01	Generator (Heat pump)	05	Easy Control electronic display/thermostat	09	Hydraulic safety group	13	Solar panels
02	Heating system circulation group	06	Electric immersion heater (optional)	10	Blowdown valve		
03	D.H.W. circulation group	07	Thermostatic mixing valve	11	By-pass solenoid valve		
04	BOLLY® 2 XL	08	D.H.W. recirculation group	12	Solar system circulation group		