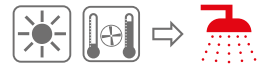


BOLLY® 1 XL

POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 1 FIXED HEAT EXCHANGER



APPLICATION

Production and storage of domestic hot water (DHW).

MATERIAL

Mild steel Polywarm® coated (Attestation ACS - SSICA - DVGW - W270 - WRAS)

HEAT EXCHANGER

Mild steel Polywarm® coated heat exchangers.

INSULATION

High thermal insulation with ecological polyurethane hard foam.

CATHODE PROTECTION

Magnesium anode.

DRAIN

External confluence through drain connection.

GASKET- FLANGE PLATE

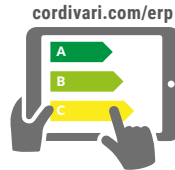
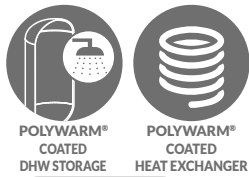
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE), max temperature up to 200°C. Mild steel inspection flange plate with Polywarm® treatment and connection for electric immersion heater.

WARRANTY

5 years - See general sales conditions and warranty

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



On line ErP label tool



BOLLY® 1 XL WB

Model	HARD FOAM insulation Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS
200	3105162320702	2	B
300	3105162320703	3,4	B
400	3105162320706	4,4	C
500	3105162320705	5,4	C
800	3105162320710	6,0	B
1000	3105162320711	6,5	B



BOLLY® 1 XL WC

Model	DISMOUNTABLE SOFT FLEECE insulation Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS
800	3103162321158	6,0	C
1000	3103162321159	6,5	C

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

ACCESSORIES

ELECTRIC IMMERSION HEATERS



Mod.	Heated volume by electric immersion heater [lt]
200	166
300	245
400	354
500	424
800	607
1000	783

MONOPHASE		
1,5 kW	2 kW	3 kW
5240000000051	5240000000052	5240000000053
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
298	223	149
439	329	219
634	476	317
759	569	380
989	742	495
1275	956	638

"Easy Control" Electronic Display-mounted on tank

ART. NR.	FOR MODELS
5005000310002	WC
5005000310003	WB

Thermometer

Art. Nr.
5032240000107
5 units box

Titanium electronic anode

See Accessories section



BOLLY® 1 XL

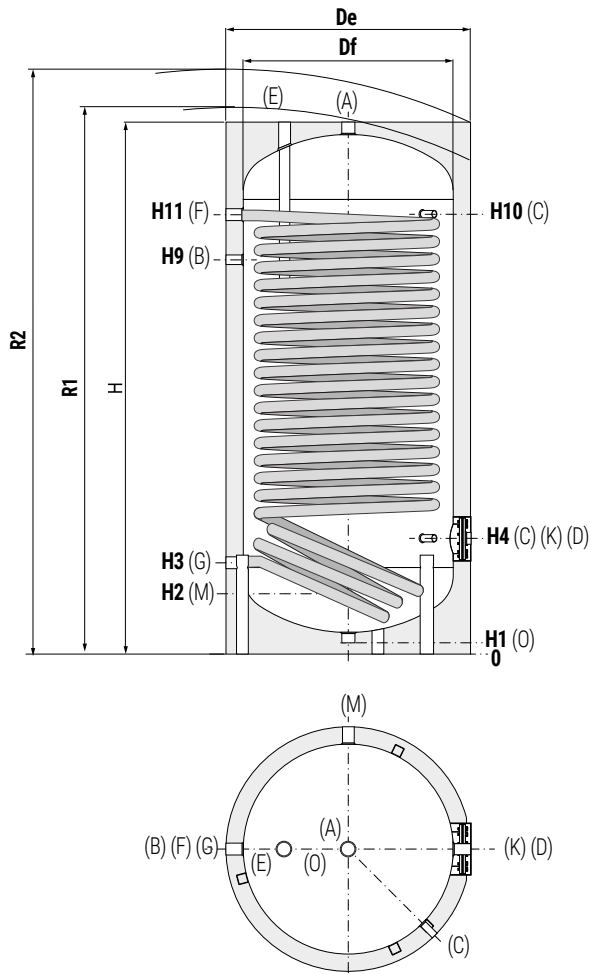
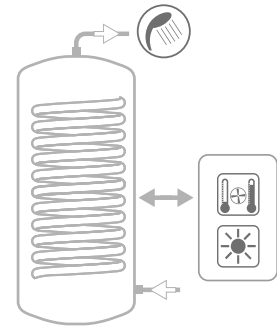
POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 1 FIXED HEAT EXCHANGER

Modello	STORAGE		HEAT EXCHANGER	
	Pmax	Tmax	Pmax	Tmax
200 ÷ 800	10 bar	90 °C	12 bar	110 °C
1000	8 bar			



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.



A	Domestic hot water outlet
B	Recirculation
C	Connection for instrumentation 1/2" F
D	Connection for electric immersion heater
E	Connection for magnesium anode 1"1/4 F
F	Primary circuit inlet 1"1/4 F
G	Primary circuit outlet 1"1/4 F
K	Blind flange for inspection
M	Domestic cold water circuit inlet
N	Connection for instrumentation 1/2" F
O	Drain 1"1/4 F, for models > 800 Lt 3/4" F

BOLLY® 1 XL WB - HARD FOAM INSULATION

Model	Volume [lt]	De	H	R2	H1	H2	H3	H4	H9	H10	H11	K	M	B	A	D
		[mm]											Connections F			
200	189	550	1440	1560	71	220	285	325	1055	1190	1190	Øi120/Øe180	3/4"	3/4"	1"1/4	1"1/2
300	291	650	1500	1650	71	246	321	381	1091	1211	1211	Øi120/Øe180	1"	1"	1"1/4	1"1/2
400	422	700	1766	1910	71	261	321	396	1316	1471	1471	Øi120/Øe180	1"	1"	1"1/4	1"1/5
500	498	750	1800	1960	71	271	346	411	1326	1486	1486	Øi120/Øe180	1"	1"	1"1/4	1"1/2
800	789	900	2180	2370	107	344	424	489	1604	1794	1814	Øi170/Øe240	1"	1"	1"1/4	2"
1000	1038	1000	2230	2460	95	365	445	505	1590	1825	1536	Øi170/Øe240	1"1/4	1"	1"1/2	2"

BOLLY® 1 XL WC - DISMOUNTABLE SOFT FLEECE INSULATION

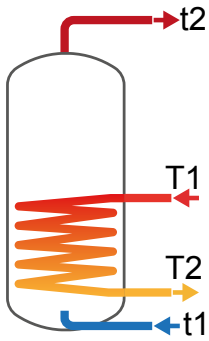
Model	Volume [lt]	Df	De	H	R1	R2	H1	H2	H3	H4	H9	H10	H11	K	M	B	A	D
		[mm]													Connections F			
800	789	750	970	2180	2210	2400	107	344	424	489	1604	1794	1814	Øi170/Øe240	1"	1"	1"1/4	2"
1000	1038	850	1070	2230	2265	2480	95	365	445	505	1590	1825	1536	Øi170/Øe240	1"1/4	1"	1"1/2	2"



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.

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	40	42	30	20	21	31	36	47	522	773	899	1153
	1,25	49	52	36	24	19	28	32	40	468	677	780	990
300	3	44	46	32	22	30	45	52	66	751	1104	1281	1640
	1,5	55	57	41	27	27	39	44	56	664	951	1093	1377
400	3,5	47	49	35	23	42	61	71	90	1033	1510	1747	2229
	1,75	59	62	44	30	37	53	60	75	915	1298	1486	1863
500	3,5	49	51	36	24	48	70	81	103	1198	1740	2009	2551
	1,75	62	65	47	31	43	60	68	85	1060	1487	1696	2114
800	5	59	61	43	29	64	93	107	136	1571	2291	2650	3372
	2,5	72	76	55	37	57	80	92	115	1412	1993	2277	2845
1000	8	65	68	48	32	72	106	124	158	1780	2632	3058	3925
	4	76	80	57	38	66	95	110	139	1642	2364	2720	3436

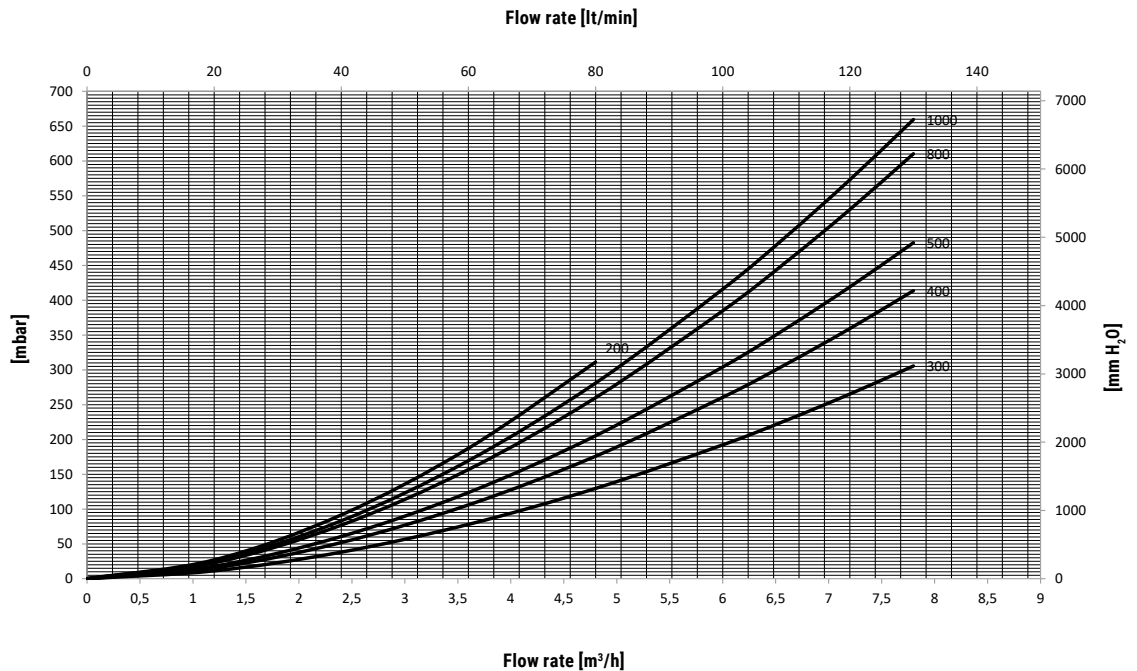


Model	Primary Flow rate [m³/h]	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure loss	
		T1/t2				T1/t2				[mm H ₂ O]	[mbar]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
200	2,5	221	399	420	462	241	888	989	1193	1062,3	104,2
	1,25	221	383	400	435	238	811	894	1062	309,7	30,4
300	3	340	600	629	689	368	1299	1441	1728	830,2	81,4
	1,5	339	574	598	645	363	1176	1290	1517	243,2	23,8
400	3,5	492	855	894	974	531	1811	2001	2386	1263,9	123,9
	1,75	491	819	850	913	524	1641	1791	2093	370,8	36,4
500	3,5	581	1001	1046	1137	625	2103	2319	2752	1263,9	123,9
	1,75	579	959	994	1064	617	1901	2068	2403	370,8	36,4
800	5	918	1510	1570	1691	977	2962	3249	3826	2976,1	291,9
	2,5	916	1461	1508	1603	967	2723	2950	3405	874,7	85,8
1000	8	1203	1920	1991	2136	1270	3587	3928	4621	7358,7	721,6
	4	1201	1875	1935	2054	1261	3372	3657	4230	2161,9	212,0

HEAT EXCHANGERS PRESSURE LOSS

Heat exchangers surface
[m²]

200	2
300	3,4
400	4,4
500	5,4
800	6
1000	6,5

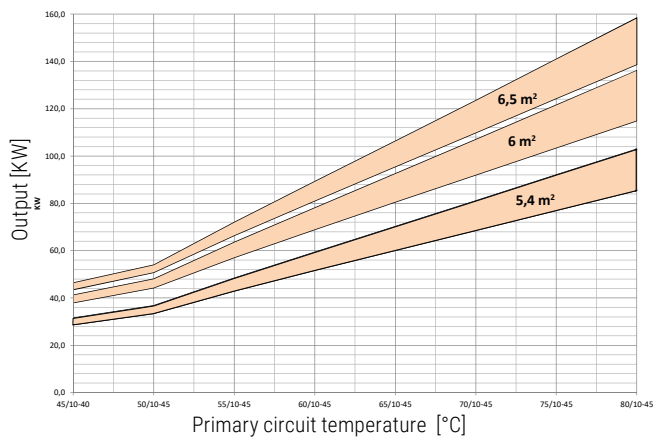
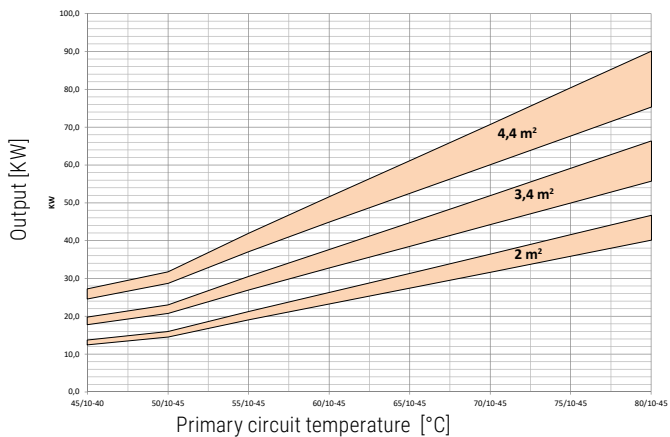


BOLLY® 1 XL

HEAT EXCHANGERS TECHNICAL DATA



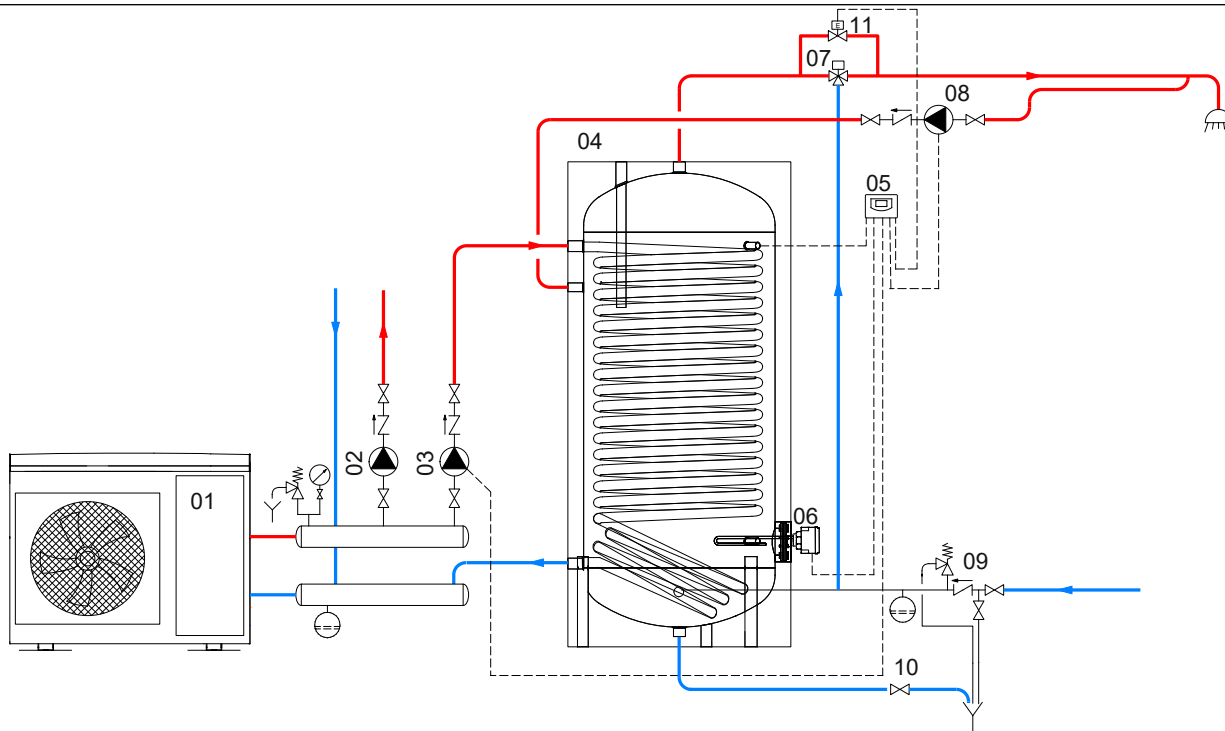
Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary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



Heat exchanger surface	2 m ²		3,4 m ²		4,4 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	2,5	1,25	3	1,5	3,5	1,75

Heat exchanger surface	5,4 m ²		6 m ²		6,5 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m ³ /h]	3,5	1,75	5	2,5	8	4

EXAMPLE OF INSTALLATION WITH BOLLY® 1 XL



01 Generator (Heat pump)	05 Easy Control electronic display/ thermostat	09 Hydraulic safety group
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® XL	08 D.H.W. recirculation group	