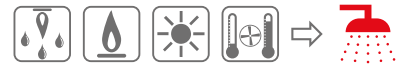


# BOLLY® 1 XL INOX

## STAINLESS STEEL 316L DOMESTIC HOT WATER CALORIFIER WITH 1 FIXED OVERSIZE STAINLESS STEEL HEAT EXCHANGER



### APPLICATION

Production and storage of domestic hot water (DHW). All the connections are aligned on the front and on the back for quick and easy installation.

### MATERIAL

Stainless Steel 316 L suitable for domestic hot water

### HEAT EXCHANGER

1 fixed oversize stainless steel heat exchanger with double spiral coil

### INSULATION

HARD: High thermal insulation with ecological polyurethane hard foam. SOFT: NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.

HARD FOAM (CLASS "A" MODELS): rigid polyurethane foam for high thermal insulation with a vacuum sheet of highly insulating material. Grey PVC external lining.

### CATHODE PROTECTION

Magnesium anode

Only on standard models > 800 n° N° 2 magnesium anodes.

### DRAIN

External confluence through drain connection

### GASKET- FLANGE PLATE

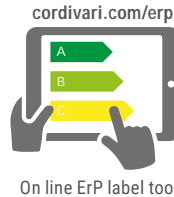
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Flange for inspection and counterflange (standard) with provision for electrical resistance 1"1/2

### WARRANTY

5 years (See general sales conditions and warranty)

### ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



### BOLLY® 1 XL XB

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS	
			ErP	CLASS
200	3104052010200	1,7	B	B
300	3104052010201	2,7	B	B
500	3104052010202	4	C	C



### BOLLY® 1 XL XC

Model	DISMOUNTABLE SOFT FLEECE INSULATION Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS	
			ErP	CLASS
800	3103052010485	5,8	C	C
1000	3103052010486	5,8	C	C



### BOLLY® 1 XL XB CLASS A

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS	
			ErP	CLASS
200	3104052010220	1,7	A	A
300	3104052010221	2,7	A	A
500	3104052010222	4	A	A

## ACCESSORIES

### ELECTRIC IMMERSION HEATERS

Mod.	Heated volume by electric immersion heater [lt]	MONOPHASE		
		1,5 kW	2 kW	3 kW
		5240000000051	5240000000052	5240000000053
		Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
200	161	288	216	144
300	237	425	319	213
500	417	746	560	373
800	668	1197	898	598
1000	874	1565	1174	783

	THREEPHASE				
	4 kW	5 kW	6 kW	9 kW	12 kW
	5240000000047	5240000000048	5240000000049	5240000000050	5240000000031
	Ignition time from 10 °C to 45 °C with electric immersion heaters [min]				
	//	//	//	//	//
	159	//	//	//	//
	280	224	//	//	//
	449	359	299	199	//
	587	470	391	261	196

### HEAT MANAGER kit + electric resistance with probe and 3m cable

Art. Nr.	ELECTRICAL RESISTANCE
5240000000074	1,5 kW
5240000000075	2 kW
5240000000076	3 kW



### Titanium electronic anode

For art. nr. and prices please see Accessories section



# BOLLY® 1 XL INOX

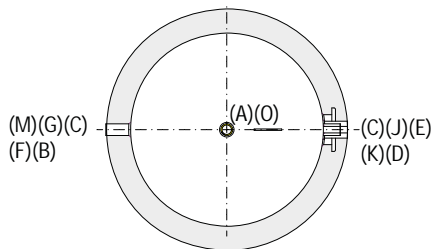
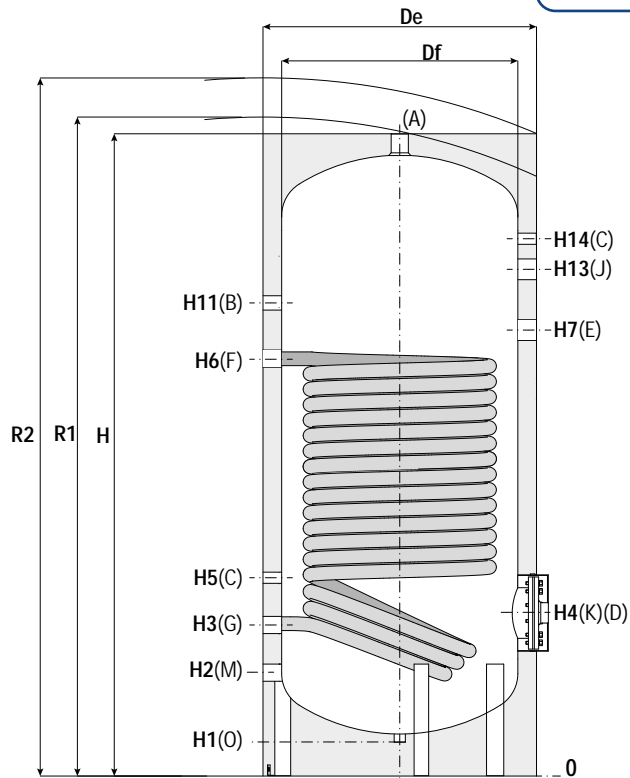
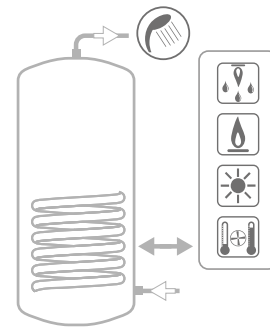
STAINLESS STEEL 316L DOMESTIC HOT WATER CALORIFIER  
WITH 1 FIXED OVERSIZE STAINLESS STEEL HEAT EXCHANGER

STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
6 bar	95 °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.



- A** Domestic hot water outlet
- B** Recirculation
- C** Connection for instrumentation 1/2" G F
- D** Connection for electric immersion heater
- E** Connection for magnesium anode 1"1/4 G F
- F** Primary circuit inlet 1" G F
- G** Primary circuit outlet 1" G F
- J** Connection for 2nd magnesium anode 1"1/4 G F (Only for models standard > 800)
- K** Flange for inspection and counterflange (standard) with provision for electrical resistance 1"1/2
- M** Domestic cold water circuit inlet
- O** Drain

## BOLLY® 1 XL INOX - 1 XL INOX CLASS A (HARD FOAM INSULATION-XB)

Model	Volume		Weight	Df	De	H	R2	H1	H2	H3	H4	H5	H6	H7	H11	H14
	[lt]	[kg]														
<b>200</b>	192	47		450	550	1440	1510	65	210	320	320	430	845	900	1090	1190
<b>300</b>	293	75		550	650	1495	1630	70	240	350	380	460	1059	1110	1170	1220
<b>500</b>	503	110		650	750	1796	1950	65	260	370	405	480	1285	1380	1400	1490

Model	A	B	C	D	Connections F					K
					F	G	M	O	[mm]	
<b>200</b>	1"	3/4"	1"1/2	1"1/2	1"1/4	1"	1"	3/4"	1/2"	Ø120/Øe180
<b>300</b>	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1/2"	Ø120/Øe180
<b>500</b>	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1/2"	Ø120/Øe180

## BOLLY® 1 XL INOX - DISMOUNTABLE SOFT FLEECE (XC)

Model	Volume		Weight	Df	De	H	R1	R2	H1	H2	H3	H4	H5	H6	H7	H11	H13	H14
	[lt]	[kg]																
<b>800</b>	759	169		790	990	1943	2180	2195	114	323	443	478	553	1403	1483	1513	//	1563
<b>1000</b>	902	183		790	990	2193	2410	2425	114	323	443	478	553	1613	1463	1613	1703	1813

Model	A	B	C	D	Connections F					K	
					F	G	J	M	O		[mm]
<b>800</b>	1"1/4	1"	1"1/2	2"	1"1/4	1"	1"	//	1"	3/4"	Ø120/Øe180
<b>1000</b>	1"1/2	1"	1"1/2	2"	1"1/4	1"	1"	1"1/4	1"1/4	3/4"	Ø120/Øe180

# BOLLY® 1 XL INOX

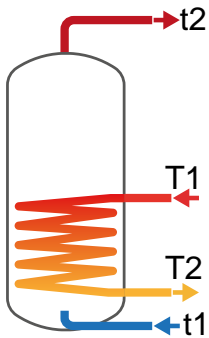
## HEAT EXCHANGERS TECHNICAL DATA



Data have been calculated on following basis:

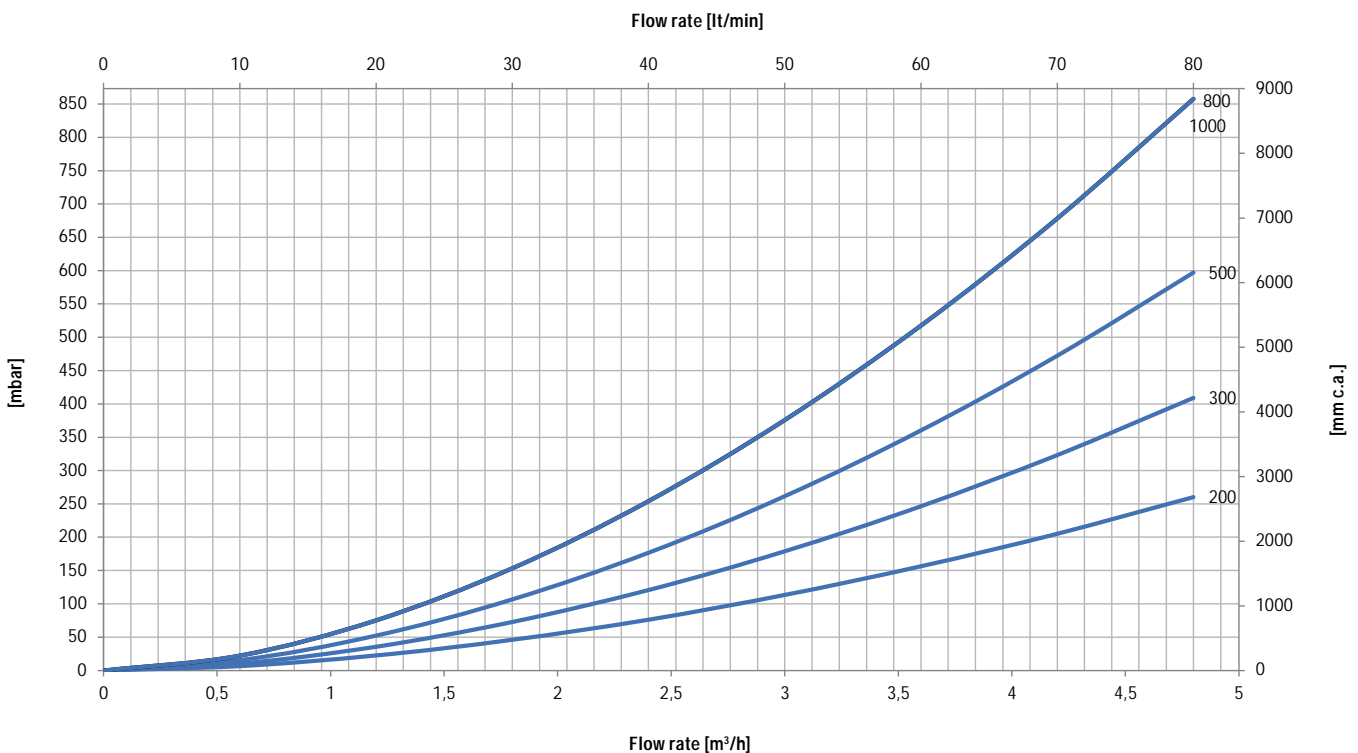
- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continuous from 10 °C to t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at t2, input 10 °C and output 45 °C;
- 4) Sanitary water according to UNI CTI 8065 (<15°fr).

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	3	47	49	34	22	15,6	19,7	25,1	35,0	334	338	433	606
	1,5	54	57	40	26	14,6	18,5	23,3	31,8	312	317	400	550
300	4	44	46	32	21	25,7	32,4	41,3	57,2	553	561	715	994
	2	51	54	38	25	24,0	30,6	38,3	52,0	519	528	663	902
500	5	52	54	38	25	38,1	48,1	61,0	84,3	823	835	1060	1468
	2,5	61	64	45	30	35,8	45,4	56,6	76,4	773	787	983	1329
800	6	55	57	41	27	55,1	69,6	87,9	120,9	1192	1210	1531	2107
	3	66	69	49	33	51,7	65,5	81,3	108,9	1118	1139	1416	1897
1000	6	65	68	48	32	55,1	69,6	87,9	120,9	1192	1210	1531	2107
	3	78	82	59	39	51,7	65,5	81,3	108,9	1118	1139	1415	1897



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 drop	
		T1/t2				T1/t2				[mm.c.a.]	[mbar]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
200	3	274	329	345	374	485	543	619	758	1155	113
	1,5	270	326	340	365	468	526	593	713	340	33
300	4	427	512	538	584	777	867	991	1214	3059	299
	2	421	507	529	569	750	841	949	1140	903	88
500	5	712	858	895	963	1233	1387	1567	1893	6614	648
	2,5	704	850	882	940	1193	1348	1505	1782	1957	192
800	6	1066	1286	1339	1435	1821	2052	2309	2770	13081	1283
	3	1054	1274	1320	1400	1762	1995	2217	2602	3875	380
1000	6	1230	1490	1544	1640	1984	2257	2513	2974	13081	1283
	3	1217	1478	1524	1605	1925	2200	2421	2806	3875	380

### HEAT EXCHANGERS PRESSURE DROP

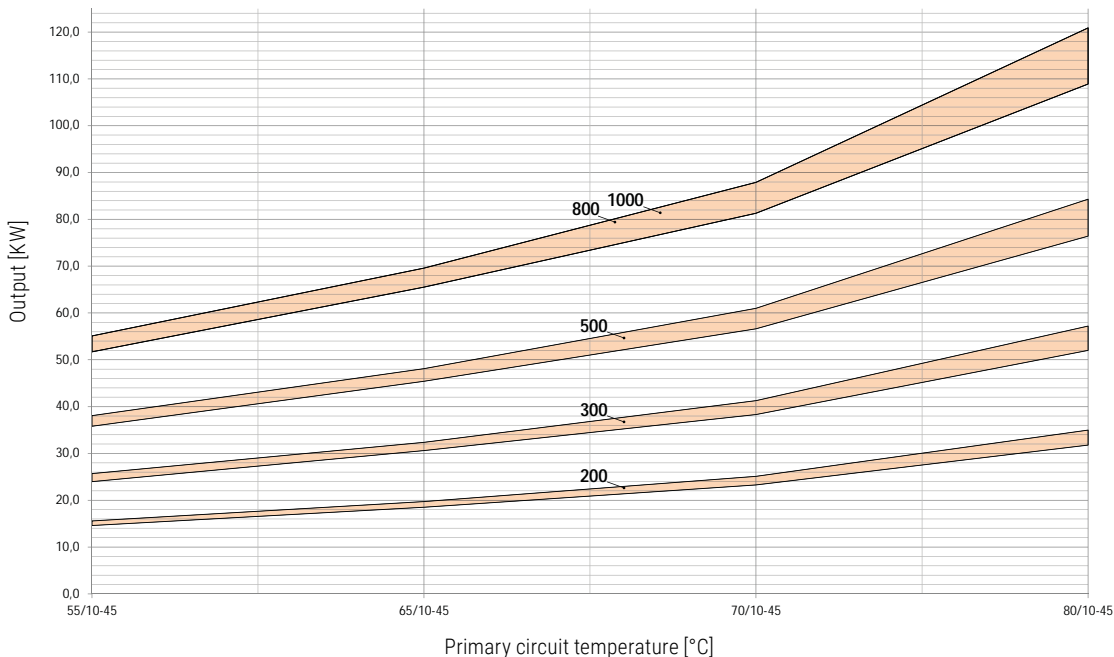


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## HEAT EXCHANGERS TECHNICAL DATA

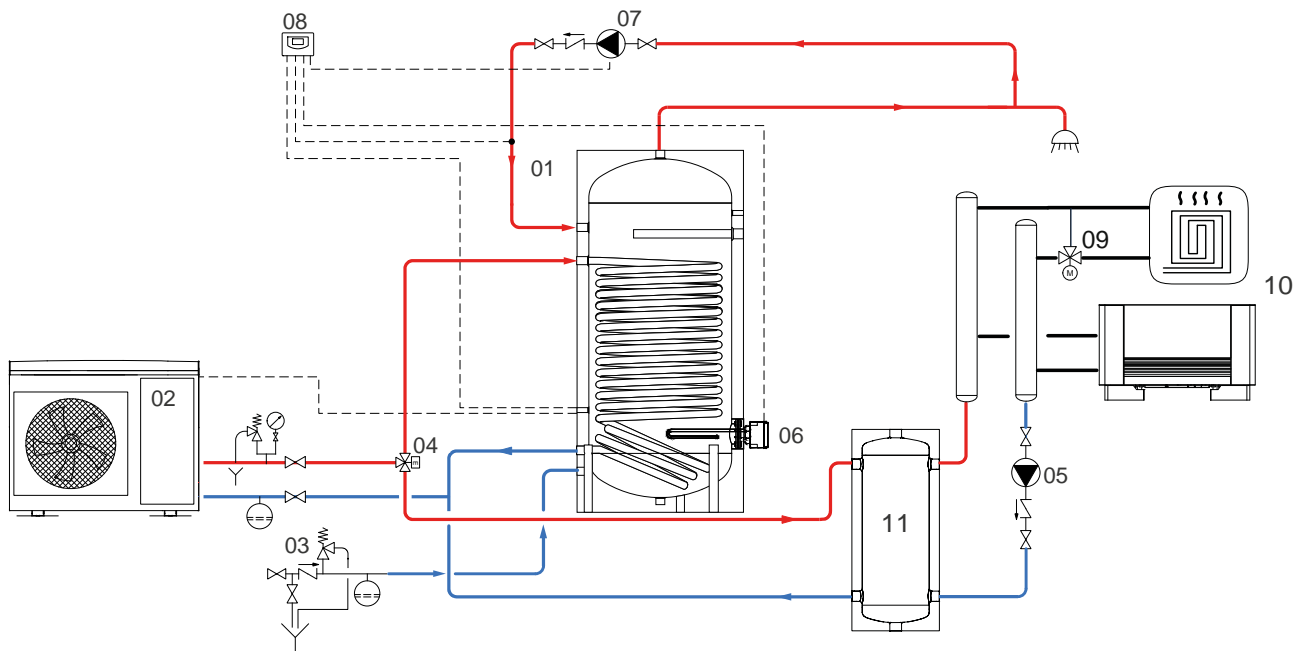


Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary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



Model	200		300		500		800		1000	
Bolly® 1 XL inox										
Flow rate [m³/h]	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	2,5	1,25	3	1,5	3,5	1,75	6	3	6	3

### EXAMPLE OF INSTALLATION WITH BOLLY® 1 XL INOX



1 BOLLY® 1 XL INOX	4 Motorized three-way valve	7 DHW recirculation	10 Heating units
2 Generator (Heat pump)	5 Circulation group for heating/cooling system	8 Electronic control /thermostat	11 Buffer tank
3 Hydraulic safety group	6 Electric immersion heater	9 Thermostatic mixing valve	

The following schemes are purely illustrative. To realize the installation, always refer to a qualified technician.