



### APPLICATION

Production and storage of sanitary hot water

### MATERIAL

Material and finishings, suitable drinkable water according to D. M. n. 174 dated 06.04.04.:

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

### HEAT EXCHANGER

1 Polywarm® coated fixed heat exchanger

### INSULATION

Ecological hard polyurethane foam, thickness 50 mm with high thermal insulation and thermal conductivity 0,023 W/mK.

Grey PVC external lining complete with top and flange cover.

### CATHODE PROTECTION

Magnesium anode with Anoden Tester

### DRAIN

External confluence through drain connection.

### GASKET- FLANGE PLATE

Silicone gaskets suitable for alimentary use for max temperature up to 200°C. Flange plate.

### WARRANTY

- 5 years (Polywarm®)

See general sales conditions and warranty

**ACCESSORIES AND SPARE PARTS** : See page 216



### PROMPT DELIVERY

1-5 days to dispatch  
(delivery time excluded)



### BOLLY XL WB

Heat exchanger surface

D.H.W. Storage: <b>POLYWARM® coated</b> Heat exchanger <b>POLYWARM® coated</b>			Lower
Model	Art. Nr.		[m²]
200	3105162320702		2
300	3105162320703		3,4
500	3105162320705		5.4

Model	Energy loss (EN 12897:2006)	EXCHANGER: Output power arising from performance tests carried out as prescribed in paragraph A. 4 EN 12897:2006 (primary temperature 80 °C, production D.H.W. from 15 to 60 °C and subsequent withdrawal of water with generator switched off)			
		Surface	Output	Primary flow rate	ΔP Primary circuit
	[Kwh/24h]	[m²]	[Kw]	[m³/h]	[mbar]
200	1,46	2,0	23,6	1,2	7,6
300	1,87	3,4	35,2	1,4	17,4
500	2,45	5,4	58,8	1,8	44,1

### Accessories on request

#### "Easy Control" Electronic Display

ART. NR.
5005000310003
Mounted and connected



#### Thermometer

Art. Nr.
5032240000107
5 units box



#### Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300
5200000000009	500



Suitable for Polywarm® coated models

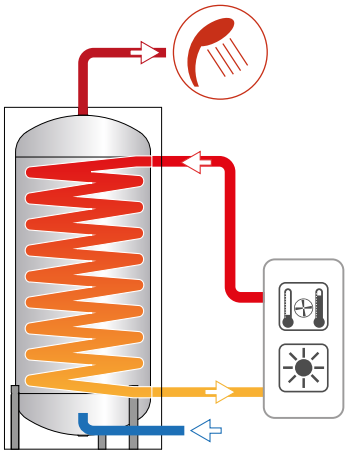
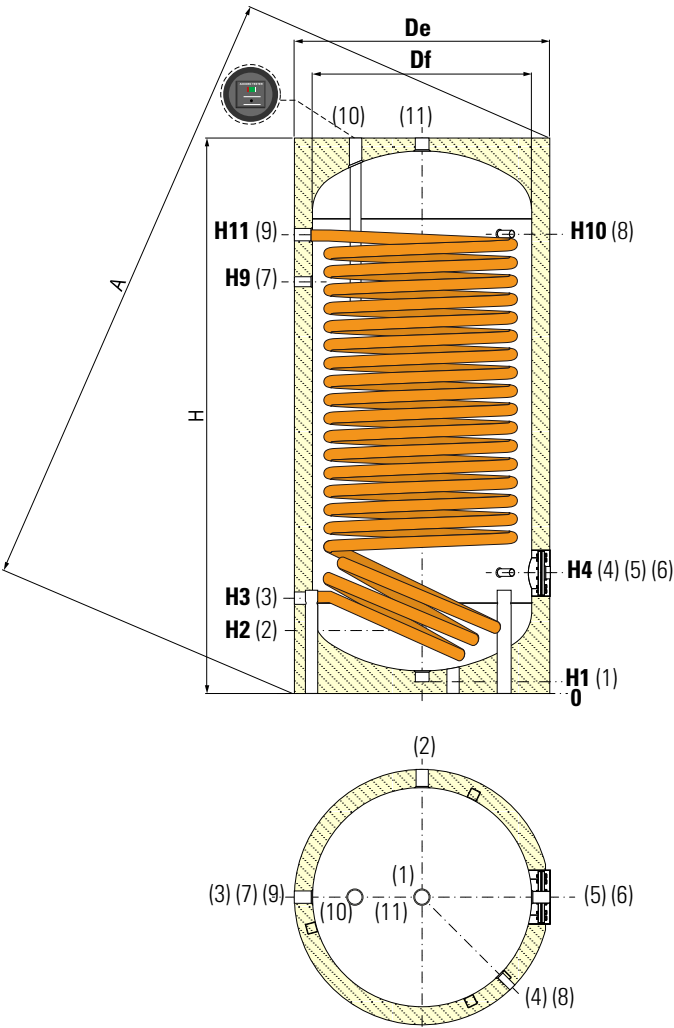


#### Electrical immersions kit available

Mod.	Quantity of water affected by the electric heater [lt]	MONOPHASE			THREEPHASE				
		1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW	9 kW	12 kW
		52400000000034	52400000000035	52400000000036	52400000000027	52400000000028	52400000000029	52400000000030	52400000000031
Ignition time from 10 °C to 45 °C with immersion heaters [min]									
200	166	298	223	149	112	//	//	//	//
300	245	439	329	219	165	132	//	//	//
500	424	759	569	380	285	228	190	//	//

BOLLY® XL
POLYWARM® COATED CALORIFIERS WITH 1 FIXED HEAT EXCHANGER

Table with 4 columns: STORAGE, HEAT EXCHANGERS, Pmax, Tmax. Values include 10 bar, 90 °C, 12 bar, 110 °C.



Legend table mapping numbers 1-11 to specific components: 1 Drain 1 1/4 Gas F, 2 Domestic cold water circuit inlet, 3 Primary circuit heat exchanger outlet, 4 Connection for instrumentation 1/2 Gas F, 5 Blind flange for inspection Øi 120 mm, 6 Connection for electrical immersion resistance 1 1/2 Gas F, 7 Recirculation, 8 Connection for instrumentation 1/2 Gas F, 9 Primary circuit heat exchanger inlet, 10 Connection for magnesium anode 1 1/4 Gas F, 11 Domestic hot water circuit outlet 1 1/4 Gas F.

Table with 9 columns: Model, Net Volume [liters], Weight [Kg], Df, De, H, A, H1, H2. Rows for models 200, 300, and 500.

Table with 8 columns: Model, H3, H4, H9, H10, H11, 2 - 7, 3 - 9. Rows for models 200, 300, and 500.

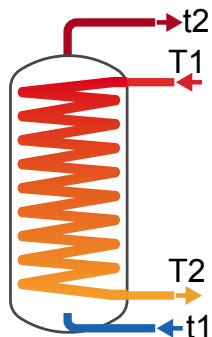
P.E.D. product planned and produced in conformity to the article 3.3 of directive 92/23/CE

Bolly® - INTERKA
CALORIFIERS

# BOLLY® XL - HEAT EXCHANGERS TECHNICAL DATA

Data have been calculated on following basis:

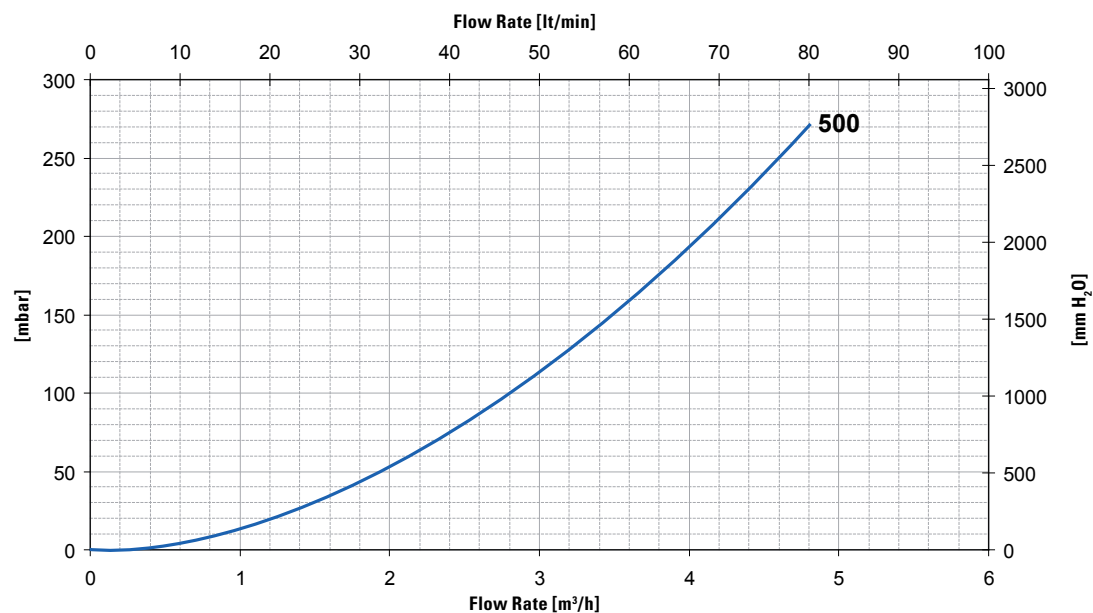
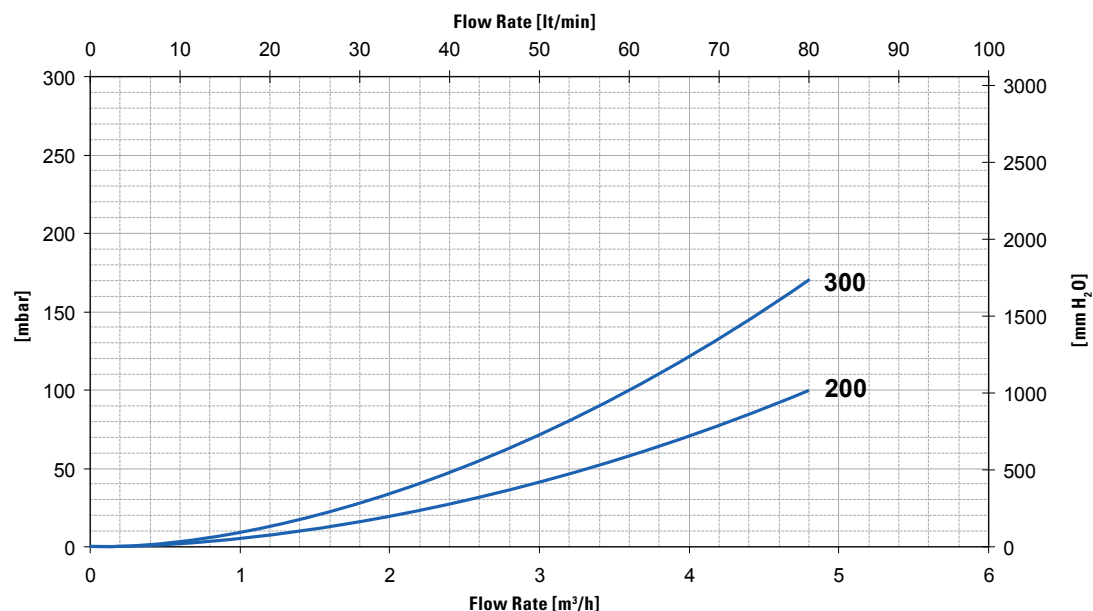
- 1) Primary circuit at T1 and proper energy source;
- 2) Production of DHW in continue way from 10 °C at t2;
- 3) DHW that can be taken in the first 10' and in the first hour from storage at 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.



## FIXED HEAT EXCHANGER

Model	Storage Volume [liters]	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	189	40	42	30	20	21,2	31,2	36,3	46,6	522	773	899	1153
		48	50	36	24	19,1	27,6	31,7	40,2	472	681	785	995
300	291	39	40	29	19	34,9	50,9	58,9	75,1	862	1260	1459	1860
		48	51	36	24	30,8	43,7	50	62,7	762	1081	1238	1552
500	497	44	46	33	22	54,5	78,6	90,6	114,6	1349	1946	2243	2838
		57	60	43	29	47,9	66,7	75,9	94,1	1185	1651	1877	2330

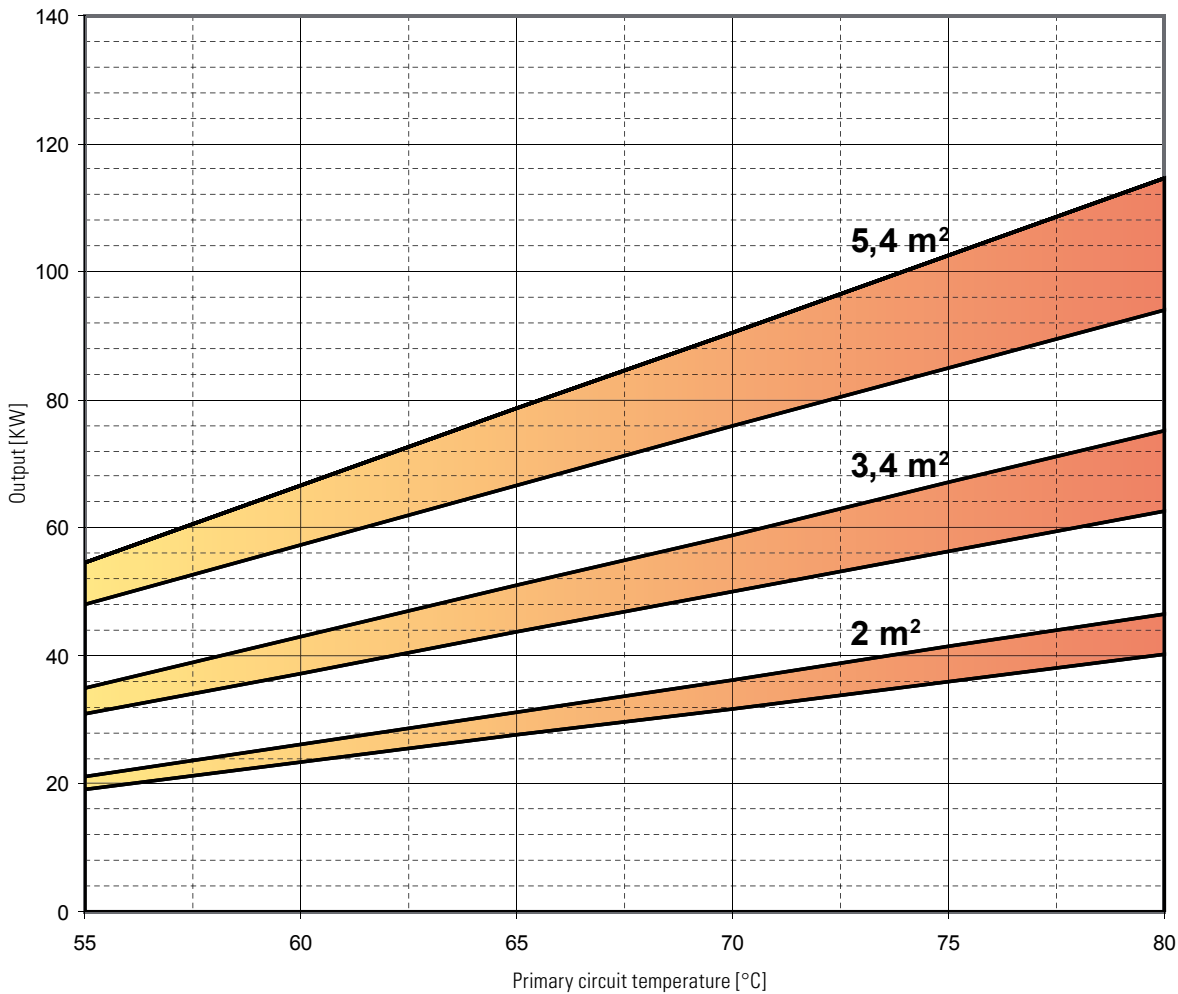
## PRESSURE LOSS - FIXED HEAT EXCHANGER BOLLY® XL



Model	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				Flow rate	Exchanger pressure loss	
	T1/t2				T1/t2				[m³/h]	[mm.H <sub>2</sub> O]	[mbar]
	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
200	303	399	420	462	634	888	989	1192	2,5	325,22	29,66
	295	384	401	436	594	815	898	1066	1,25	83,78	8,22
300	476	626	659	726	1022	1424	1583	1904	3	726,71	71,27
	460	596	622	674	942	1281	1406	1657	1,5	201,30	19,74
500	793	1034	1084	1183	1647	2267	2504	2980	3,5	1539,43	150,97
	766	985	1023	1098	1516	2031	2212	2574	1,75	426,43	41,82

HEAT EXCHANGER OUTPUT CHART BOLLY® XL

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 CURVE REFERS TO THE MINIMUM PRIMARY FLOW RATE)



Heat exchanger surface	2 m²		3,4 m²		5,4 m²	
Primary flow rate [m³/h]	MAX	MIN	MAX	MIN	MAX	MIN
	2,5	1,25	3	1,5	3,5	1,75