

BOLLY® XL

POLYWARM® COATED CALORIFIERS WITH 1 FIXED HEAT EXCHANGER



APPLICATION

Production and storage of domestic hot water.

MATERIAL

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

HEAT EXCHANGER

Polywarm® coated fixed heat exchanger.

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 alimentary use for max temperature up to 200°C. Mild steel inspection flange plate with Polywarm® treatment and connection for electrical immersion heater.

WARRANTY

5 years - See general sales conditions and warranty

ACCESSORIES AND SPARE PARTS : See Accessories section for the entire list.

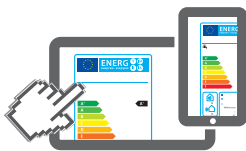


HARD FOAM INSULATION

BOLLY® XL WB

HEAT EXCHANGER SURFACE ENERGY EFFICIENCY CLASS

Model	HARD FOAM insulation Art. Nr.	[m ²]	ErP
200	3105162320702	2	B
300	3105162320703	3,4	C
400	3105162320706	4,4	C
500	3105162320705	5,4	C



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On line ErP label tool

ELECTRICAL IMMERSION HEATERS

MONOPHASE

Mod.	Volume of water heated by the electrical immersion [lt]	1,5 kW	2 kW	3 kW
		5240000000051	5240000000052	5240000000053
Ignition time from 10 °C to 45 °C with immersion heaters [min]				
200	166	298	223	149
300	245	439	329	219
400	354	634	476	317
500	424	759	569	380

Accessories on request

"Easy Control" Electronic Display

ART. NR.
5005000310003



Thermometer

Art. Nr.
5032240000107
5 units box



Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300, 400
5200000000009	500



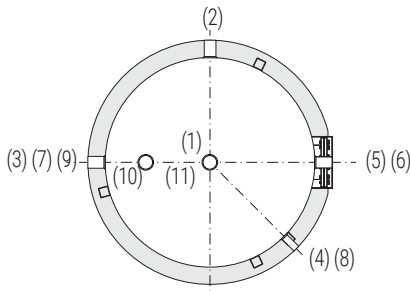
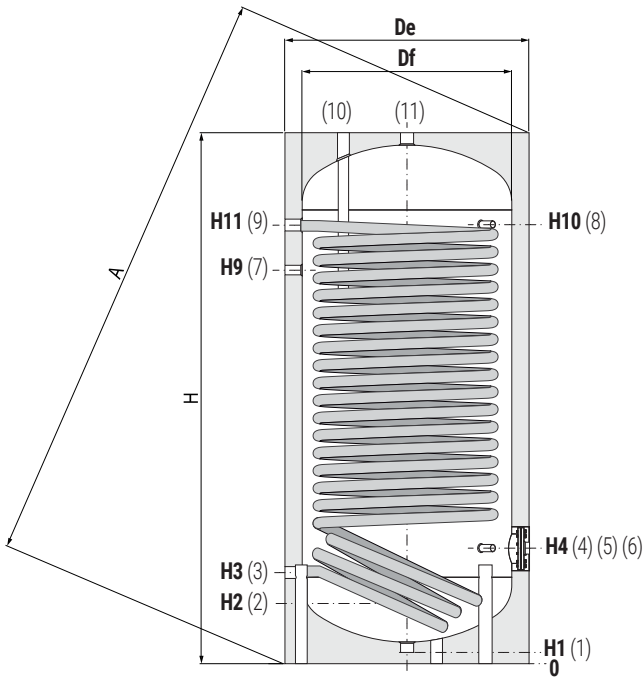
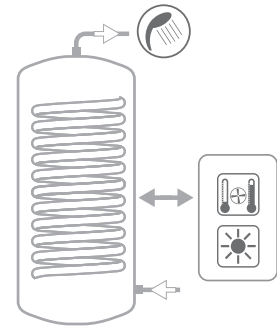
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STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
10 bar	90 °C	12 bar	110 °C



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.



- | | |
|----|---|
| 1 | Drain 1"1/4 Gas F |
| 2 | Domestic cold water circuit inlet |
| 3 | Primary circuit outlet |
| 4 | Connection for instrumentation 1/2" Gas F |
| 5 | Blind flange for inspection Øi 120 mm |
| 6 | Connection for electrical immersion 1"1/2 Gas F |
| 7 | Recirculation |
| 8 | Connection for instrumentation 1/2" Gas F |
| 9 | Primary circuit inlet |
| 10 | Connection for magnesium anode 1"1/4 Gas F |
| 11 | Domestic hot water outlet 1"1/4 Gas F |

Model	Volume	De	H	A	H1	H2
	[litres]					
200	189	550	1440	1541	71	220
300	291	650	1492	1627	71	246
400	422	700	1766	1900	71	261
500	498	750	1792	1943	71	271

Model	H3	H4	H9	H10	H11	Connections Gas F	
	[mm]					2 - 7	3 - 9
200	285	325	1055	1190	1190	3/4"	1" 1/4
300	321	381	1091	1211	1211	1"	1" 1/4
400	336	396	1316	1471	1471	1"	1" 1/4
500	346	411	1326	1486	1486	1"	1" 1/4

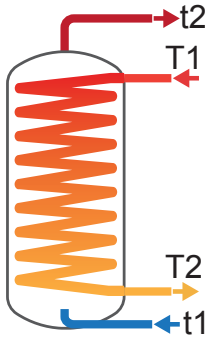
P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE

EXTRA- BOLLY® CALORIFIERS
BOLLYTERM® CALORIFIERS
STAINLESS STEEL CALORIFIERS
CALORIFIERS FOR HEAT PUMP
MULTIFUEL ENERGY CYLINDERS - PUFFER
HYDRONIC
INERTIAL TANKS
WATER PRESSURE TANKS
COMPRESSED AIR RECEIVERS
ACCESSORIES AND SPARE PARTS
TECHNICAL SUPPORT

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

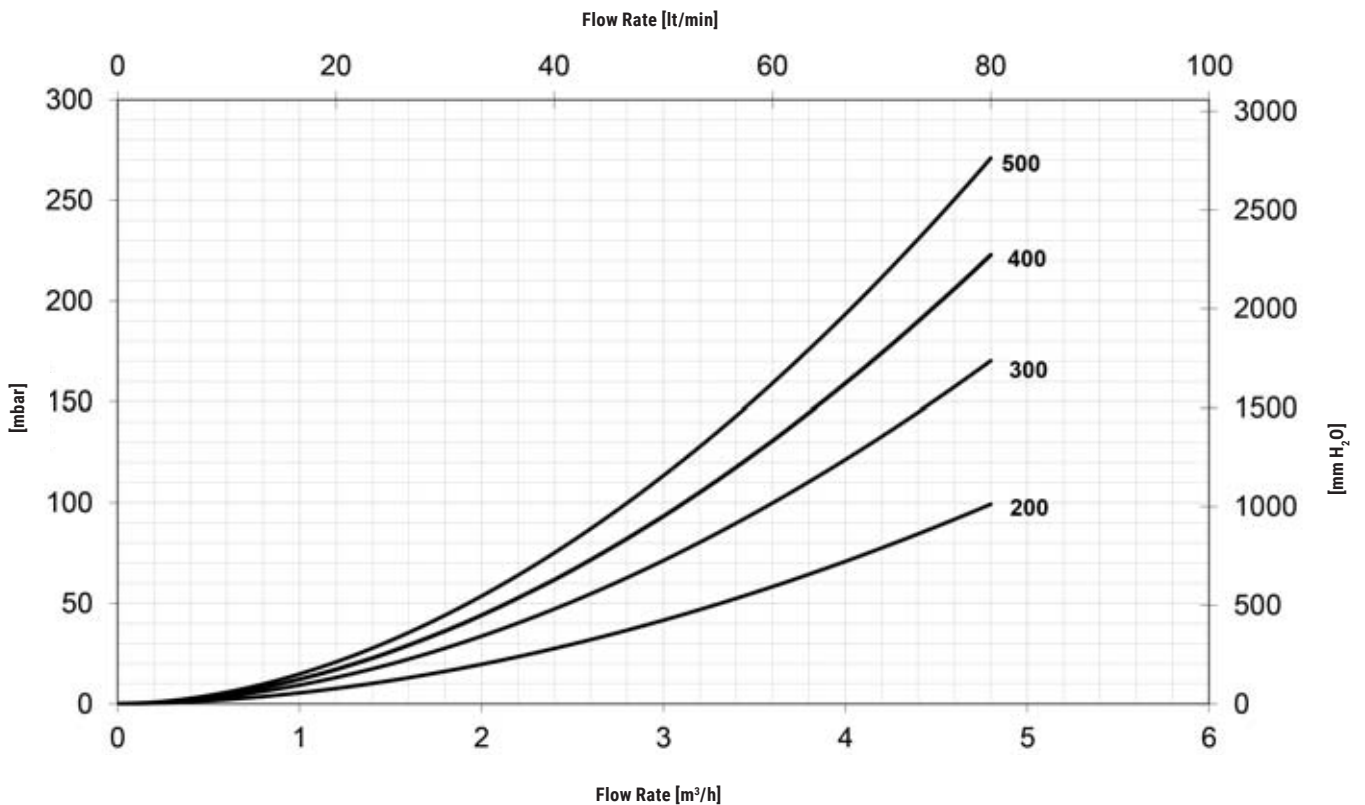
Model	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
	T1/t2				T1				T1			
	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
200	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	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
400	40	46	33	22	46	66,4	76,7	97,5	1129	1642	1899	2416
	55	58	41	28	40	57	65	81	999	1047	1608	2009
500	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 EXCHANGERS BOLLY[®] XL



Heat exchanger surface [m²]

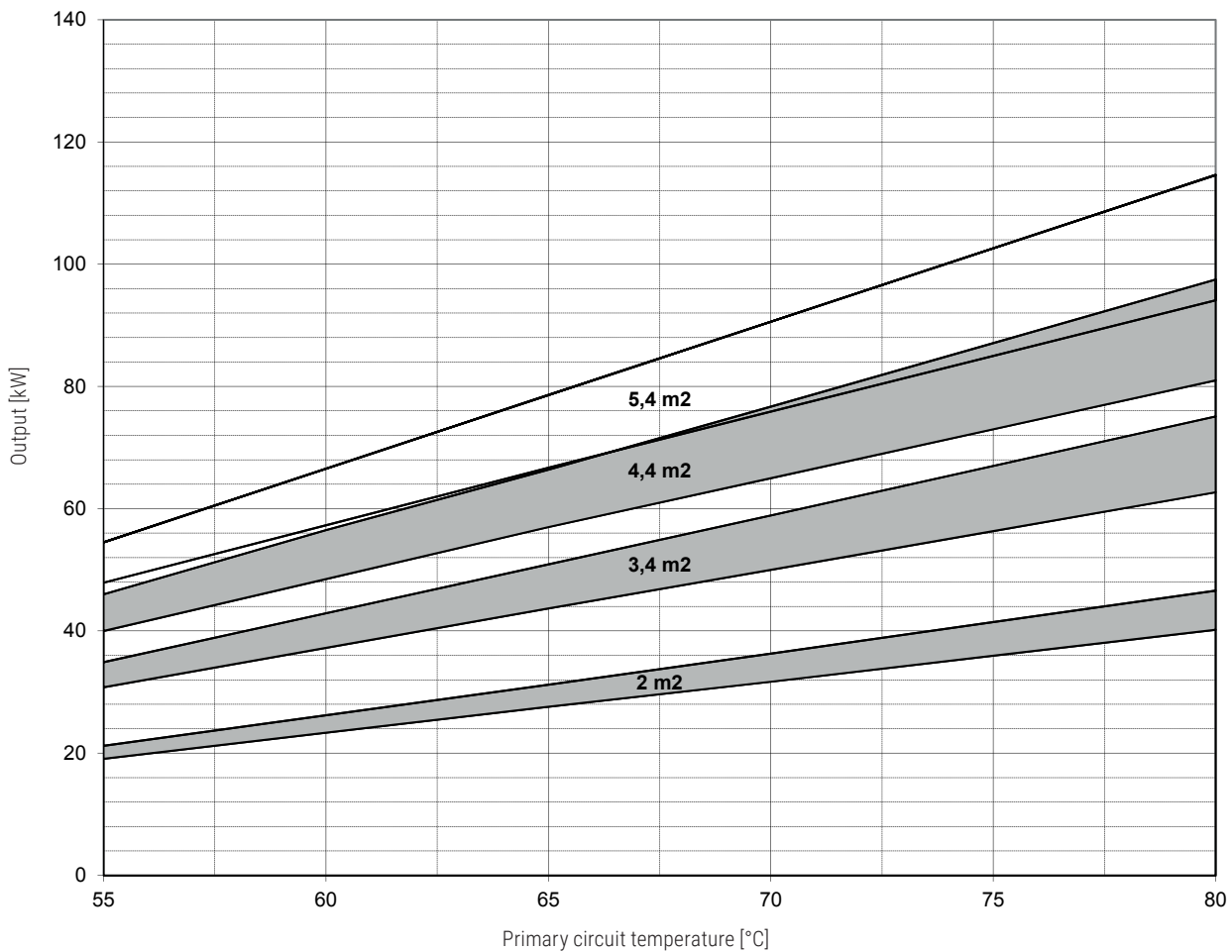
200	2
300	3,4
400	4,4
500	5,4



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 [m³/h]	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			
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
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
188	274	317	403	903	1314	1519	1933	3,5	1266,07	124,15
649	777	871	938	1281	1440	1889	2210	1,75	350,94	34,41
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 EXCHANGERS 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	2 m²		3,4 m²		4,4 m²		5,4 m²	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m³/h]	2,5	1,25	3	1,5	3,5	1,75	3,5	1,75