

BOLLY® 1 AP - HIGH PERFORMANCES

POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER 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

1 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®

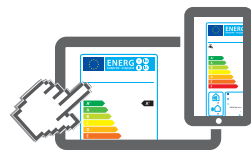
WARRANTY

5 years - See general sales conditions and warranty

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



HARD FOAM INSULATION



www.cordivari.com/erp

On line ErP label tool

BOLLY® 1 AP WB

Model	HARD FOAM insulation Art. Nr.	HEAT EXCHANGER SURFACE	ENERGY EFFICIENCY CLASS
		[m²]	
150	3105162320501	1,1	B
200	3105162320502	1,5	B
300	3105162320503	1,8	C
400	3105162320504	2	C
500	3105162320505	2,6	C

ELECTRICAL IMMERSION HEATERS

Mod.	Volume of water heated by the electrical immersion [lt]	MONOPHASE		
		1,5 kW	2 kW	3 kW
		5240000000051	5240000000052	5240000000053
Ignition time from 10 °C to 45 °C with immersion heaters [min]				
150	42	76	57	38
200	72	128	96	64
300	113	202	152	101
400	167	299	225	150
500	184	329	247	165

Accessories on request

"Easy Control" Electronic Display

ART. NR.	FOR MODELS
5005000310003	WB



Electrical immersion flange plate

See Accessories section



Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300
5200000000009	500

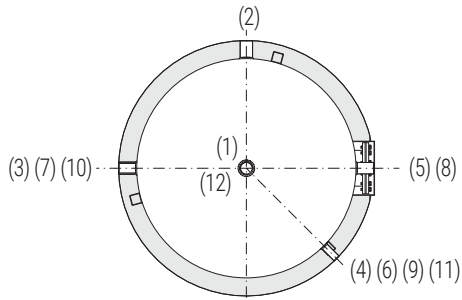
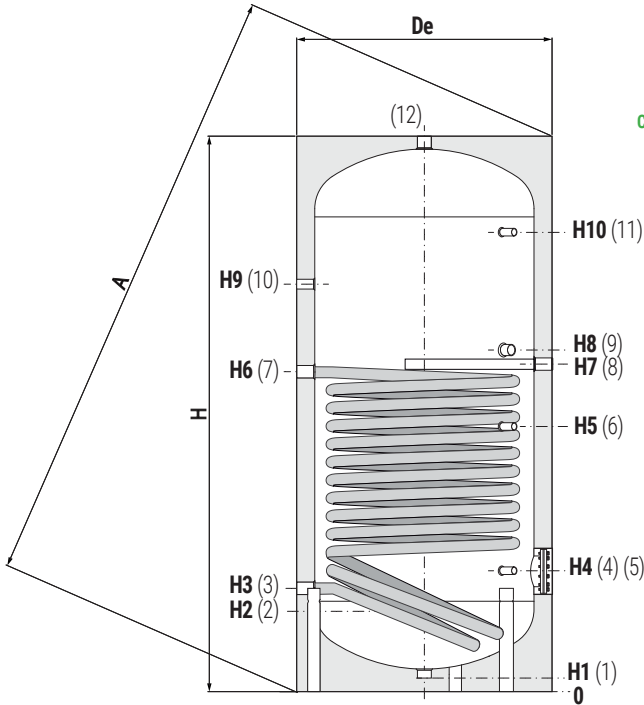
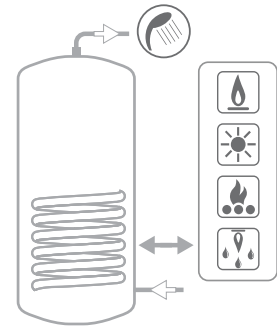


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STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
10 bar	90 °C	12 bar	110 °C

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 Heat exchanger outlet 1" 1/4 Gas F
- 4 Connection for instrumentation 1/2" Gas F
- 5 Blind flange for inspection Ø1 120
- 6 Connection for instrumentation 1/2" Gas F
- 7 Heat exchanger inlet 1" 1/4 Gas F
- 8 Connection for magnesium anode 1" 1/4 Gas F
- 9 Connection for electrical immersion 1" 1/2 Gas F
- 10 Recirculation
- 11 Connection for instrumentation 1/2" Gas F
- 12 Domestic hot water outlet 1" 1/4 Gas F

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

Model	Volume	Weight	De	H	A	H1	H2	H3
	[litres]	[Kg]						
150	148	54	500	1414	1500	71	210	275
200	189	63	550	1434	1536	71	220	285
300	291	75	650	1486	1622	71	246	311
400	422	93	700	1766	1900	71	261	339
500	498	118	750	1786	1937	71	271	346

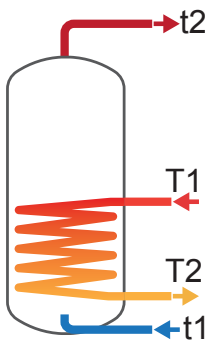
Model	H4	H5	H6	H7	H8	H9	H10	2-10 Connections Gas F
	[mm]							
150	315	725	888	956	1011	1065	1185	3/4"
200	325	735	1041	1155	1090	915	1195	3/4"
300	381	671	1020	1136	1071	1146	1221	1"
400	401	886	1116	1166	1236	1386	1486	1"
500	411	896	1135	1174	1142	1346	1486	1"

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® 1 AP- 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

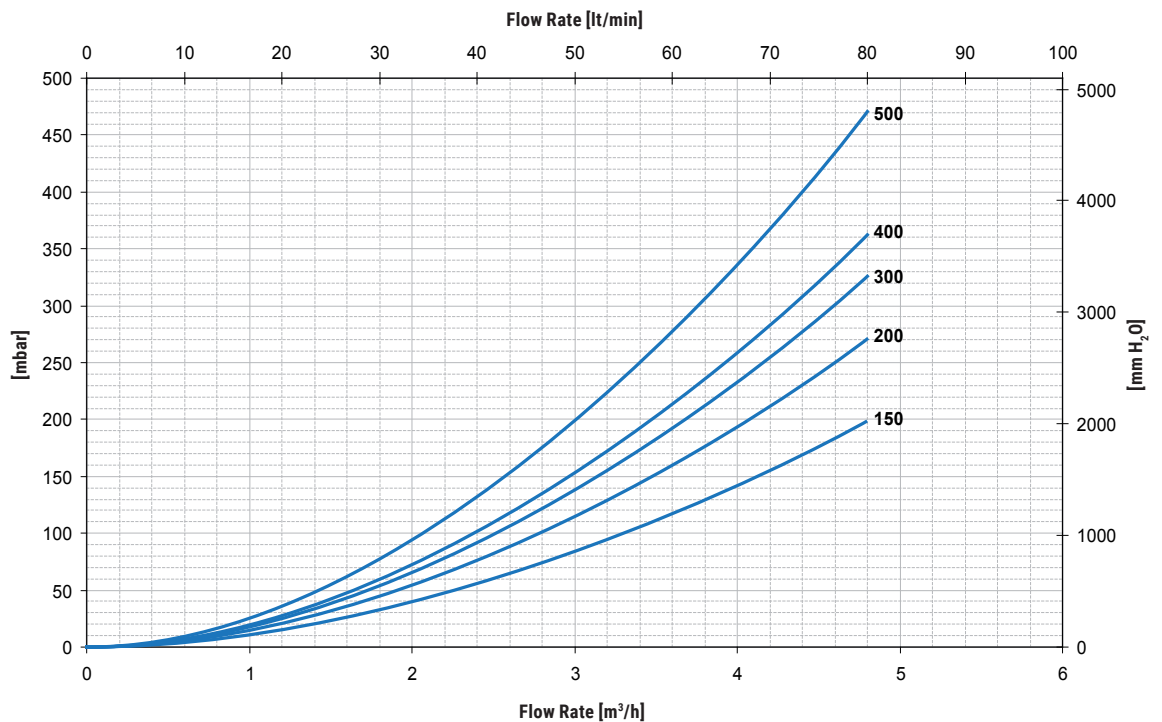
Model	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
	T1/t2				T1				T1			
	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
150	56	58	41	27	11,9	17,8	20,7	26,8	294	439	512	662
	65	68	48	32	10,8	15,8	18,3	23,4	266	390	452	577
200	51	53	37	25	16,4	24,4	28,5	36,7	405	603	703	908
	60	62	44	29	15	21,8	25,2	32,1	369	539	623	795
300	65	67	48	31	19,9	29,6	34,5	44,4	490	731	852	1099
	75	79	56	37	18,2	26,6	30,7	39,1	449	656	759	968
400	80	83	58	38	22,3	33,2	38,7	49,9	549	820	956	1234
	92	96	68	45	20,6	30	34,7	44,3	506	741	858	1095
500	79	82	58	38	28,6	42,3	49,2	63,2	705	1045	1216	1563
	93	98	69	46	26,2	37,8	43,6	55,2	645	933	1076	1365

PRESSURE LOSS - FIXED HEAT EXCHANGERS BOLLY® 1 AP



Heat exchanger surface [m²]

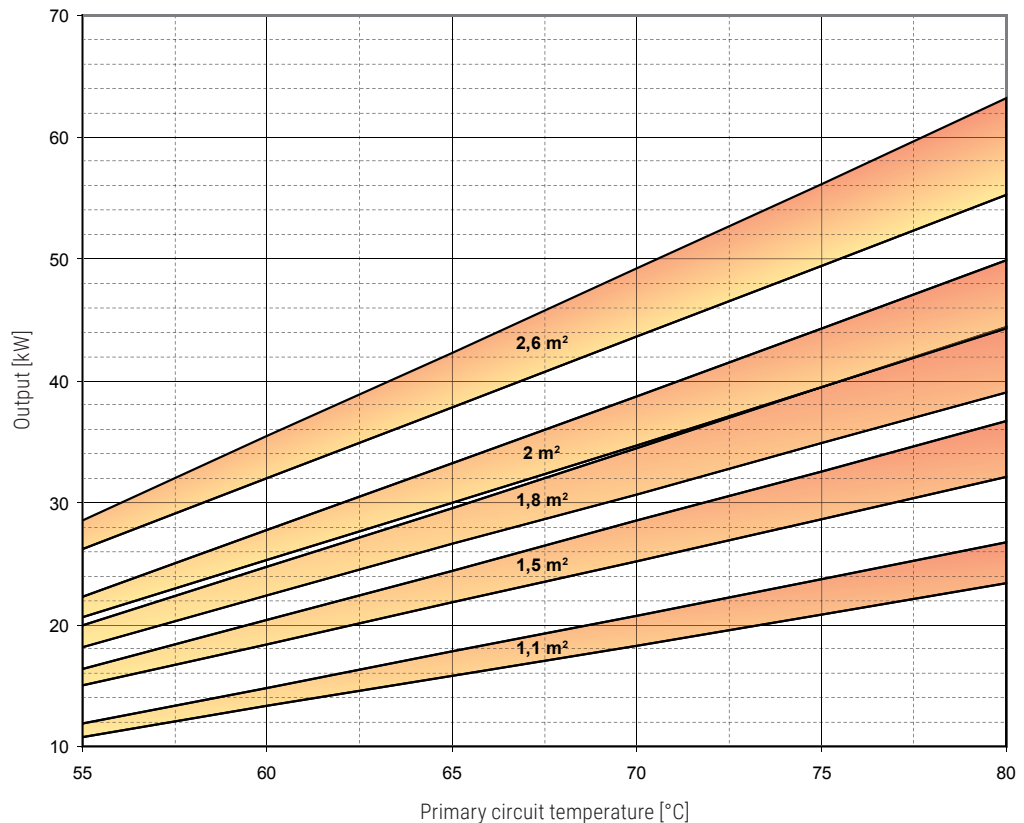
150	1,1
200	1,5
300	1,8
400	2
500	2,6



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			
217	283	295	320	403	561	620	740	2	401,22	39,35
212	275	285	306	381	522	572	672	1	111,14	10,90
284	371	387	421	540	752	832	996	2,5	827,10	81,11
278	360	374	403	511	701	768	906	1,25	229,11	22,47
414	538	558	599	725	1001	1097	1295	3	1391,18	136,43
407	525	542	577	692	941	1023	1190	1,5	385,37	37,79
573	738	761	807	920	1257	1366	1589	3,5	2056,48	201,67
565	725	744	784	886	1194	1288	1477	1,75	569,66	55,86
686	884	913	971	1132	1546	1683	1960	3,5	262,17	2673,43
676	866	889	938	1084	1456	1571	1802	1,75	72,62	740,56

HEAT EXCHANGERS OUTPUT CHART BOLLY® 1 AP

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	1,1 m ²		1,5 m ²		1,8 m ²		2 m ²		2,6 m ²	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Flow rate [m³/h]	2	1	2,5	1,25	3	1,5	3,5	1,75	3,5	1,75