

BOLLY® 2 ST

POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 2 FIXED HEAT EXCHANGERS



APPLICATION

Production and storage of domestic hot water.

MATERIAL

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

HEAT EXCHANGER

2 Polywarm® coated fixed heat exchangers.

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.

Grey PVC external lining complete with top and flange cover

CATHODE PROTECTION

Magnesium anode.

DRAIN

External confluence through drain connection.

Models > 500 external confluence through drain pipe.

GASKET- FLANGE PLATE

Silicone gaskets suitable for alimentary use for max temperature up to 200°C. Mild steel inspection flange plate with Polywarm®

WARRANTY

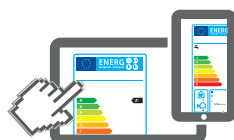
5 years - See general sales conditions and warranty

ACCESSORIES AND SPARE PARTS :

See Accessories section for the entire list.



HARD FOAM INSULATION



www.cordivari.com/erp

On line ErP label tool

SOFT FLEECE INSULATION



BOLLY® 2 ST WB

HEAT EXCHANGER SURFACE

ENERGY EFFICIENCY CLASS

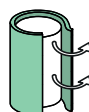
HARD FOAM insulation		Upper	Lower	
Model	Art. Nr.	[m²]		
150	3135162321201	0,4	0,6	B
200	3135162321202	0,5	0,8	B
300	3135162321203	0,7	1,2	C
400	3135162321204	1	1,5	C
500	3135162321205	1	1,8	C
800	3134162331206	1,6	2,7	C
1000	3134162331207	1,8	3,5	C
1500	3134162331208	1,9	3,8	C

BOLLY® 2 ST WC

HEAT EXCHANGER SURFACE

ENERGY EFFICIENCY CLASS

DISMOUNTABLE SOFT FLEECE insulation		Upper	Lower	
Model	Art. Nr.	[m ²]		
800	3138162321226	1,6	2,7	C
1000	3138162321227	1,8	3,5	C
1500	3138162321228	1,9	3,8	C



ELECTRICAL IMMERSION HEATERS

MONOPHASE

Mod.	Volume of water heated by the electrical immersion [lt]	MONOPHASE		
		1,5 kW	2 kW	3 kW
		52400000000051	52400000000052	52400000000053
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
800	313	560	420	280
1000	383	686	514	343
1500	557	998	749	499

THREEPHASE

4 kW	5 kW	6 kW	9 kW	12 kW
52400000000047	52400000000048	52400000000049	52400000000050	52400000000031
Ignition time from 10 °C to 45 °C with immersion heaters [min]				
//	//	//	//	//
//	//	//	//	//
//	//	//	//	//
//	//	//	//	//
//	//	//	//	//
257	206	171	114	86
374	299	250	166	125

Accessories on request

"Easy Control" Electronic Display

ART. NR.	FOR MODELS
5005000310002	WC
5005000310003	WB



Electrical immersion flange plate

See Accessories section



Titanium electronic anode

See Accessories section



BOLLY® 2 ST

POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 2 FIXED HEAT EXCHANGERS

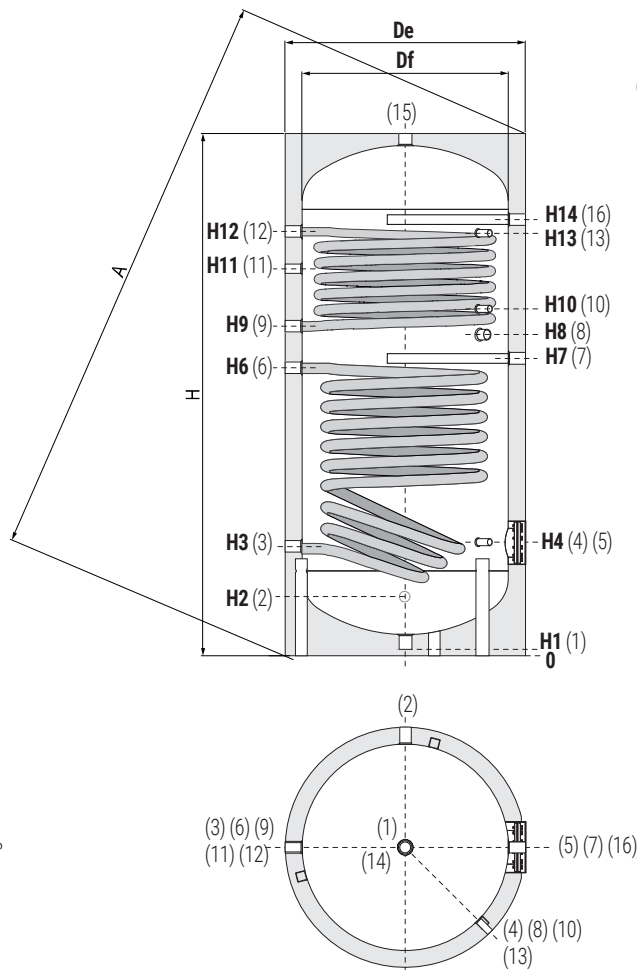
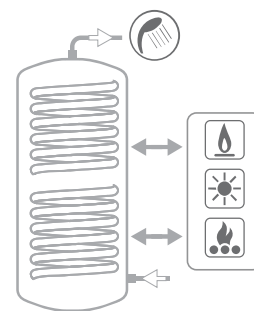
	STORAGE		HEAT EXCHANGER	
Model	Pmax	Tmax	Pmax	Tmax
150 + 800	10 bar	90 °C	12 bar	110 °C
1000 + 1500	8 bar			



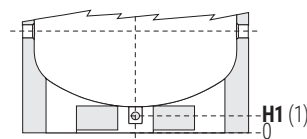
CORDIVARI Lab
TÜV Rheinland Energie
und Umwelt GmbH states
that test procedures and
Cordivari LAB are certified conforming
to European standard EN 15332, as
indicated by Ecodesign ErP Directive.



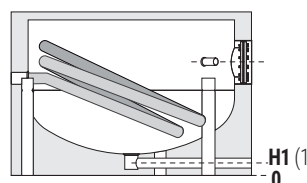
ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS



- 1 Drain 1 1/4" Gas F (3/4" su 800 e 1000.) (1" su 1500)
- 2 Domestic cold water circuit inlet
- 3 Lower heat exchanger outlet
- 4 Connection for instrumentation 1/2" Gas F
- 5 Blind flange for inspection
- 6 Lower heat exchanger inlet
- 7 Connection for magnesium anode 1 1/4" Gas F
- 8 Connection for electrical immersion
- 9 Upper heat exchanger outlet
- 10 Connection for instrumentation 1/2" Gas F
- 11 Recirculation
- 12 Upper heat exchanger inlet
- 13 Connection for instrumentation 1/2" Gas F
- 15 Domestic hot water outlet
- 16 Connection for 2nd anode 1 1/4" Gas F (only for models > 500)



Models 1500 have two grippos on the bottom which allow the use of forklift when handling and drain pipe already fitted.



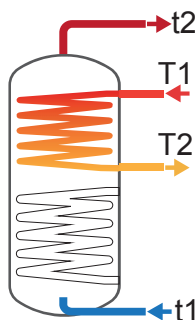
Model	Volume [litres]	Weight [Kg]	Df (vers. WC) [mm]	De (vers. WC) [mm]	De (vers. WB) [mm]	H	A	H1	H2	H3	H4	H6	H7
150	148	54	//	//	500	1414	1500	70	210	275	315	759	815
200	189	65	//	//	550	1434	1536	70	220	285	325	811	855
300	291	83	//	//	650	1486	1622	70	246	311	381	832	871
400	422	112	//	//	700	1766	1900	70	261	326	396	988	1033
500	498	134	//	//	750	1786	1937	70	271	346	411	1036	1076
800	789	232	750	950	900	2163	2343	101	493	428	483	1181	1243
1000	1038	272	850	1050	1000	2217	2432	89	524	439	499	1279	1309
1500	1443	351	950	1150	1100	2440	2654	109	450	425	575	1403	1450

Model	H8	H9	H10	H11	H12	H13	H14	5	1	2	3-6 9-12	8	11	15
	[mm]								Connections Gas F					
150	885	945	1035	1065	1185	1185	//	Ø 120	1 1/4"	3/4"	1 1/4"	1"	3/4"	1 1/4"
200	915	960	1105	1089	1195	1195	//	Ø 120	1 1/4"	3/4"	1 1/4"	1"	3/4"	1 1/4"
300	931	981	1076	1101	1221	1221	//	Ø 120	1 1/4"	1"	1 1/4"	1"	1"	1 1/4"
400	1091	1143	1286	1286	1486	1486	//	Ø 120	1 1/4"	1"	1 1/4"	1"	1"	1 1/4"
500	1144	1186	1296	1331	1476	1476	//	Ø 120	1 1/4"	1"	1 1/4"	1"	1"	1 1/4"
800	1308	1362	1579	1598	1770	1788	1808	Ø 160	3/4"	1"	1 1/4"	2"	1"	1 1/4"
1000	1364	1399	1609	1584	1819	1819	1839	Ø 160	3/4"	1 1/4"	1 1/4"	2"	1"	1 1/2"
1500	1515	1550	2045	1825	2065	1735	2065	Ø 300	1"	1 1/2"	1 1/4"	2"	1"	2"

BOLLY® 2 ST- HEAT EXCHANGERS TECHNICAL DATA

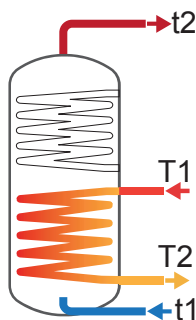
Data have been calculated on following basis:

- 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.



UPPER 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	47	49	34	22	4,5	6,8	7,9	10,3	109	165	194	254
	52	64	38	24	4,1	6,2	7,2	9,4	100	151	177	231
200	46	48	33	21	5,7	8,6	10	13,1	138	210	247	322
	51	53	37	24	5,3	7,9	9,3	12	129	194	227	296
300	51	53	37	24	8	12,1	14,1	18,4	195	296	347	453
	57	59	41	27	7,5	11,2	13,1	16,9	183	274	321	416
400	55	57	40	26	11,4	17,2	20,2	26,2	279	423	496	646
	61	63	44	29	10,7	16	18,6	24	262	392	458	592
500	61	64	44	29	11,4	17,2	20,2	26,2	279	423	496	646
	68	70	49	32	10,7	16	18,6	24	262	392	458	592
800	68	71	49	32	18,3	27,6	32,3	41,9	447	677	794	1034
	75	78	54	36	17,2	25,6	29,8	38,5	419	628	733	949
1000	79	82	57	37	20,5	30,9	36,1	46,9	501	759	889	1157
	87	91	64	42	19,2	28,5	33,3	42,9	469	701	818	1057
1500	87	90	63	41	26	39	45,6	59,1	636	959	1123	1457
	97	102	71	46	24,2	35,8	41,6	53,6	592	879	1024	1318



LOWER 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	99	102	71	46	6,6	10	11,7	15,2	162	246	288	371
	111	116	81	53	6,1	9,1	10,6	13,2	149	223	260	336
200	92	95	66	43	9	13,5	15,8	20,5	220	332	389	506
	103	107	75	49	8,3	12,3	14,4	18,5	203	303	354	456
300	97	101	70	45	13,5	20,2	23,6	30,6	331	498	583	756
	106	111	78	51	12,5	18,5	21,5	27,5	307	455	529	680
400	105	110	76	50	16,9	25,4	29,6	38,3	416	625	731	947
	117	122	86	57	15,4	23,2	26,9	34,5	387	571	664	853
500	111	116	81	53	20,2	30,1	35,1	45,3	496	742	867	1121
	126	131	93	61	18,7	27,3	31,7	40,6	459	674	782	1000
800	116	120	84	55	30,3	45,4	53	68,6	746	1120	1309	1695
	131	136	96	64	28,2	41,4	48,1	61,6	692	1021	1186	1521
1000	114	119	84	56	38,9	57,9	67,5	87	958	1429	1667	2151
	132	138	98	65	35,5	52,2	60,4	77	882	1288	1492	1903
1500	162	168	119	78	41	61	71	91,5	1009	1504	1753	2261
	189	197	139	92	37,7	54,9	63,4	80,7	927	1352	1564	1993

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 ₂ O]	[mbar]
55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
73	96	101	111	142	201	224	272	2	145,90	14,31
72	94	98	107	135	189	210	253	1	40,41	3,96
92	121	127	139	179	254	283	343	2,5	275,70	27,04
90	118	124	135	172	241	267	323	1,25	76,37	7,49
141	185	194	211	265	373	413	498	3	541,01	53,06
139	181	189	205	255	355	393	469	1,5	149,87	14,70
211	276	288	313	388	544	603	723	3,5	1028,24	100,84
208	271	282	304	374	519	572	679	1,75	284,83	27,93
229	299	311	336	406	567	625	745	3,5	1028,24	100,84
227	294	305	327	392	542	595	702	1,75	284,83	27,93
401	521	541	581	684	950	1044	1236	6	911,70	89,41
397	513	531	567	662	911	995	1168	3	252,55	24,77
508	657	678	723	825	1137	1241	1456	6	1025,66	100,58
502	647	666	706	799	1091	1184	1376	3	284,12	27,86
691	891	919	974	1094	1499	1630	1897	6	1310,57	128,52
684	878	902	951	1059	1435	1551	1786	3	363,04	35,60

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 ₂ O]	[mbar]
55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60			
195	251	258	272	298	407	440	507	2	218,85	21,46
193	247	253	266	287	388	418	479	1	60,62	5,95
253	325	335	354	392	536	581	675	2,5	441,12	43,26
250	321	329	346	378	512	553	635	1,25	122,19	11,98
388	499	513	542	597	814	882	1021	3	927,45	90,95
384	492	504	529	578	780	839	960	1,5	256,91	25,19
550	706	723	759	814	1101	1186	1359	3,5	1480,67	145,20
546	697	712	744	791	1058	1133	1284	1,75	410,16	40,22
651	834	855	897	965	1304	1404	1607	3,5	1850,84	181,50
645	822	840	877	935	1249	1336	1510	1,75	512,70	50,28
1026	1314	1345	1410	1499	2023	2174	2483	6	1538,50	150,87
1017	1297	1325	1381	1455	1944	2076	2344	3	426,18	41,79
1345	1720	1759	1840	1952	2625	2815	3202	6	1994,35	195,58
1332	1696	1730	1799	1891	2512	2675	3004	3	552,45	54,18
1870	2378	2419	2504	2509	3330	3530	3936	6	2108,31	206,75
1856	2352	2388	2459	2443	3209	3378	3722	3	584,02	57,27