

BOLLY® 2 AP INOX - HIGH PERFORMANCES

STAINLESS STEEL 316L DOMESTIC HOT WATER CALORIFIER
WITH 2 FIXED STAINLESS STEEL HEAT EXCHANGERS



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

2 fixed stainless steel 316L heat exchanger

INSULATION

HARD: High thermal insulation with ecological polyurethane hard foam. 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.

DRAIN

External confluence through drain connection

GASKET- FLANGE PLATE

Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Stainless steel exchanger head.

WARRANTY

5 years (See general sales conditions and warranty)

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.

NEW



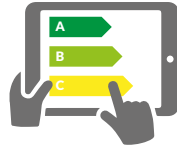
316L
STAINLESS STEEL
DHW STORAGE

316L
STAINLESS STEEL
HEAT EXCHANGER

ALIGNED



cordivari.com/erp



On line ErP label tool

BOLLY® 2 AP XB

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS ErP
		Upper	Lower	
		[m ²]		
150	3134052010300	0,6	1,0	B
200	3134052010301	0,7	1,2	B
300	3134052010302	0,9	1,5	B
400	3134052010303	1,3	2,0	C
500	3134052010304	1,4	2,2	C

BOLLY® 2 AP XB CLASS A

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS ErP
		Upper	Lower	
		[m ²]		
200	3134052010310	0,7	1,2	A
300	3134052010311	0,9	1,5	A
500	3134052010312	1,4	2,2	A

ACCESSORIES

ELECTRIC IMMERSION HEATERS



Mod.	Position of the electric heater	Heated volume by electric immersion heater [lt]
150	1	126
	2	54
200	1	161
	2	65
300	1	237
	2	113
400	1	356
	2	171
500	1	417
	2	188

MONOPHASE

1,5 kW	2 kW	3 kW
5240000000051	5240000000052	5240000000053
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
225	169	113
97	73	49
288	216	144
117	88	58
425	319	213
203	152	101
637	478	318
307	230	154
746	560	373
337	253	168

THREEPHASE

4 kW	5 kW	6 kW
5240000000047	5240000000048	5240000000049
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]		
//	//	//
37	//	//
//	//	//
44	//	//
159	//	//
76	61	//
239	//	//
115	92	//
280	224	//
126	101	84

Titanium electronic anode

For art. nr. and prices please see Accessories section



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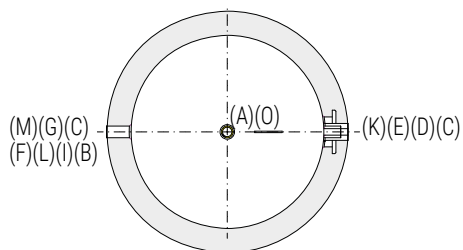
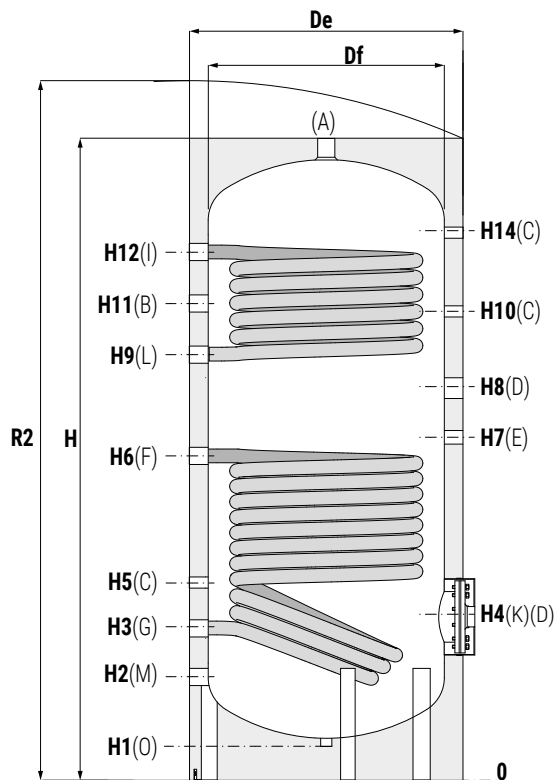
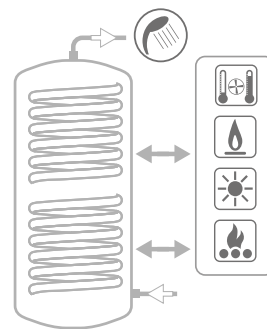
STAINLESS STEEL 316L DOMESTIC HOT WATER CALORIFIER
WITH 2 FIXED STAINLESS STEEL HEAT EXCHANGERS

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 Lower heat exchanger inlet 1" G F
- G Lower heat exchanger outlet 1" G F
- K Flange for inspection
- M Domestic cold water circuit inlet
- L Upper heat exchanger outlet 1" G F
- I Upper heat exchanger inlet 1" G F
- O Drain

BOLLY® 2 AP INOX - 2 AP INOX CLASS A (HARD FOAM INSULATION-XB)

Model	Volume		Df	De	H	R2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H14
	[lt]	[kg]																	
150	150	42	400	500	1420	1510	65	205	310	340	480	718	750	890	935	1030	1060	1180	1180
200	192	49	450	550	1440	1540	65	215	320	310	430	488	810	930	962	1070	1094	1200	1200
300	293	70	550	650	1495	1630	70	245	350	380	460	755	780	910	957	1050	1110	1230	1230
400	425	95	600	700	1170	1360	65	255	360	390	470	895	925	1050	1082	1190	1325	1480	1480
500	503	101	650	750	1796	1950	65	265	370	400	480	923	970	1105	1155	1266	1335	1479	1490

Model	A	B	C	D	E	Connections F					L	I	K
						F	G	M	O	[mm]			
150	1"	3/4"	1/2"	1 1/2"	1 1/4"	1"	1"	3/4"	1/2"	1"	1"	1"	Øi120/Øe180
200	1"	3/4"	1/2"	1 1/2"	1 1/4"	1"	1"	3/4"	1/2"	1"	1"	1"	Øi120/Øe180
300	1"	1"	1/2"	1 1/2"	1 1/4"	1"	1"	1"	1/2"	1"	1"	1"	Øi120/Øe180
400	1"	1"	1/2"	1 1/2"	1 1/4"	1"	1"	1"	1/2"	1"	1"	1"	Øi120/Øe180
500	1"	1"	1/2"	1 1/2"	1 1/4"	1"	1"	1"	1/2"	1"	1"	1"	Øi120/Øe180



BOLLY® 2 AP INOX - HIGH PERFORMANCES

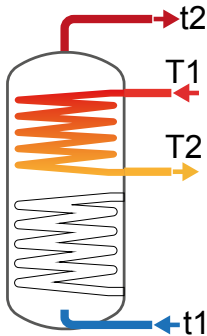
HEAT EXCHANGERS TECHNICAL DATA



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).

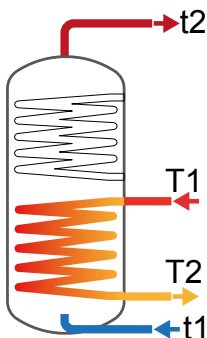
UPPER HEAT EXCHANGER



Model	Primary Flow rate	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			
	[m³/h]	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
150	2	32	33	22	14	5,6	7,1	9,1	12,8	116	118	153	218
	1	36	38	25	16	5,3	6,6	8,4	11,7	108	110	141	198
200	2,5	36	38	25	16	6,2	7,8	10,0	14,1	128	130	169	241
	1,25	40	42	28	18	5,8	7,4	9,4	13,1	120	122	157	222
300	3	39	40	28	18	8,6	10,9	14,0	19,7	182	184	238	337
	1,5	43	45	31	20	8,2	10,3	13,1	18,2	171	174	223	312
400	3,5	46	48	33	22	12,5	15,8	20,2	28,4	266	269	347	489
	1,75	52	54	37	24	11,9	15,0	19,0	26,2	251	255	325	452
500	3,5	45	47	33	21	13,5	17,0	21,7	30,4	286	290	373	526
	1,75	51	53	37	24	12,7	16,1	20,3	28,1	270	275	349	485

Model	Primary Flow rate	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]
	[m³/h]	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
150	2	71	84	90	101	144	146	174	226	226	22
	1	69	83	88	97	138	139	164	210	65	6
200	2,5	88	105	111	123	169	170	201	259	361	35
	1,25	86	103	109	120	162	164	192	244	105	10
300	3	131	156	165	182	246	248	291	370	664	65
	1,5	129	155	163	178	237	240	279	350	194	19
400	3,5	219	263	276	300	388	390	452	566	1217	119
	1,75	217	261	273	294	376	379	435	536	357	35
500	3,5	232	278	292	318	413	416	482	605	1302	128
	1,75	229	276	288	311	400	404	463	572	382	37

LOWER HEAT EXCHANGER

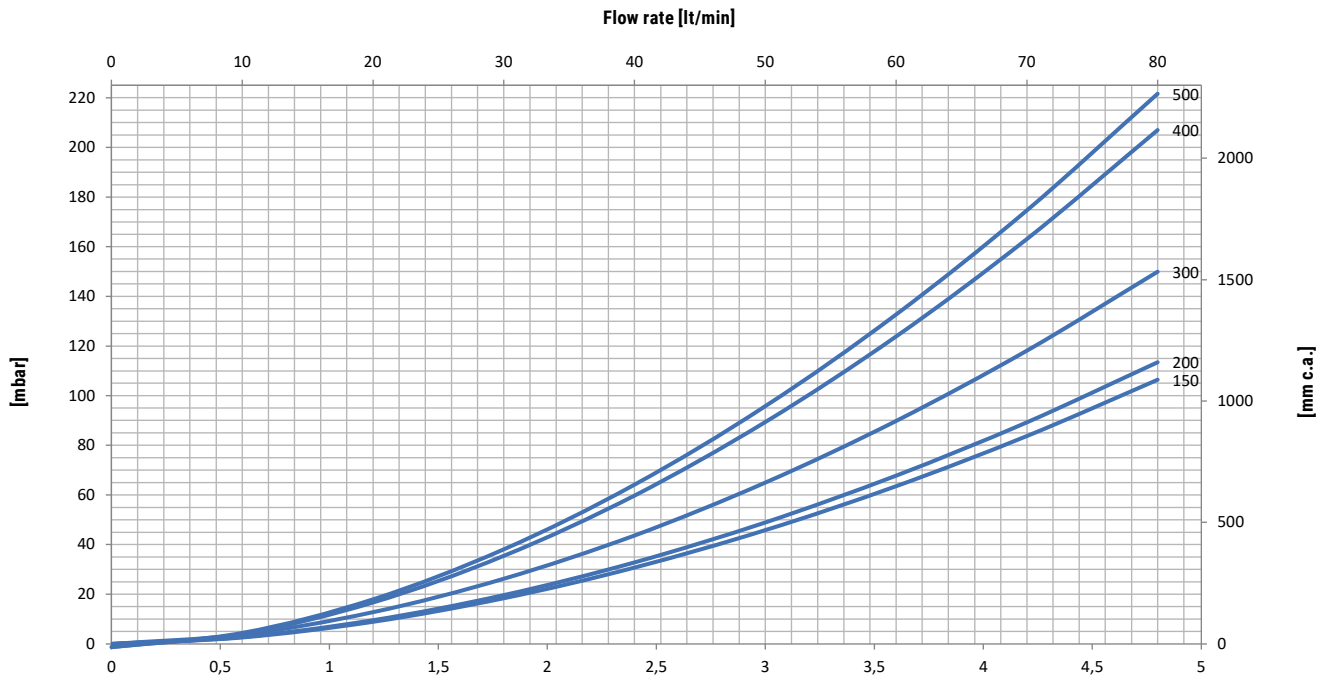


Model	Primary Flow rate	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
	[m³/h]	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
150	2	65	68	47	30	8,9	11,3	14,4	20,1	188	191	245	345
	1	76	78	55	36	8,3	10,5	13,2	18,1	173	176	224	310
200	2,5	65	68	47	31	11,3	14,3	18,2	25,4	240	243	315	438
	1,25	75	78	55	36	10,6	13,4	16,8	23,1	223	227	287	397
300	3	79	82	57	37	14,3	18,0	22,9	32,0	304	308	394	553
	1,5	90	94	66	43	13,4	16,9	21,3	29,2	284	289	366	504
400	3,5	85	89	62	41	19,1	24,0	30,1	42,7	408	414	529	739
	1,75	99	103	72	48	17,9	22,6	28,4	38,9	383	389	491	673
500	3,5	93	96	68	45	20,9	26,4	33,6	46,6	448	454	580	809
	1,75	108	113	80	53	19,6	24,8	31,1	42,3	420	427	537	734

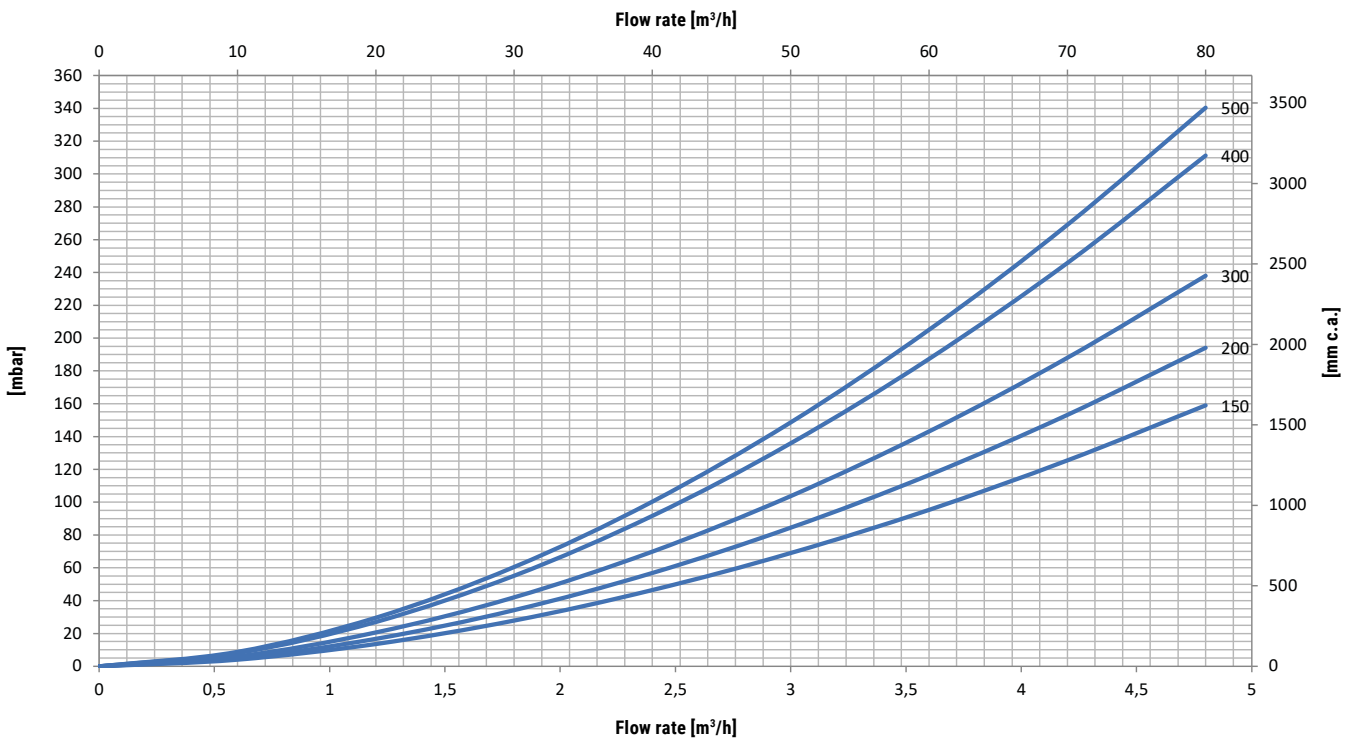
Model	Primary Flow rate	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure drop	
		T1/t2				T1/t2				[mm.c.a.]	[mbar]
	[m³/h]	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
150	2	202	245	254	270	321	323	366	446	342	34
	1	199	242	250	265	309	311	349	418	100	10
200	2,5	258	313	325	346	410	413	470	569	623	61
	1,25	255	311	321	339	397	400	448	536	183	18
300	3	386	470	484	511	578	581	650	777	1057	104
	1,5	382	467	480	503	562	566	628	738	311	30
400	3,5	554	676	695	730	812	817	909	1077	1817	178
	1,75	550	672	689	719	792	797	879	1024	536	53
500	3,5	650	794	815	853	933	938	1039	1222	1989	195
	1,75	645	790	808	841	911	916	1004	1162	587	58

BOLLY® 2 AP INOX - HIGH PERFORMANCES

UPPER HEAT EXCHANGERS PRESSURE DROP

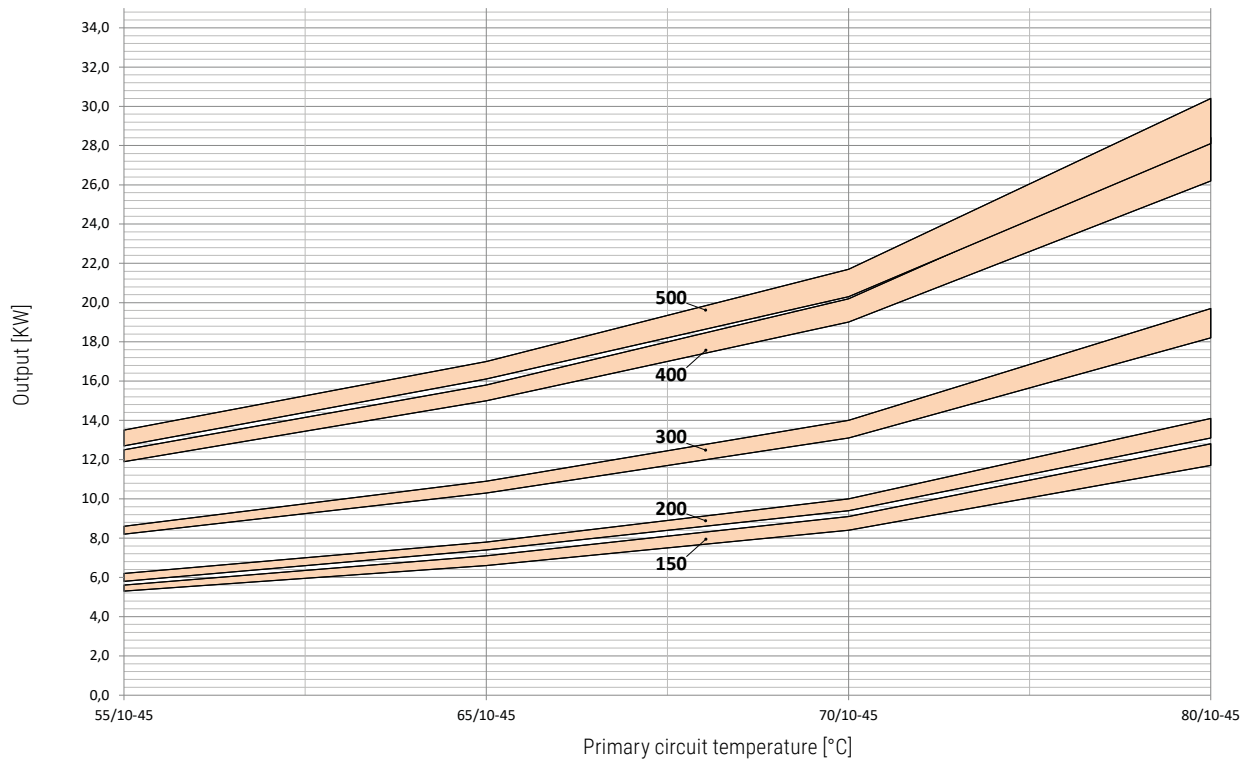


LOWER HEAT EXCHANGERS PRESSURE DROP



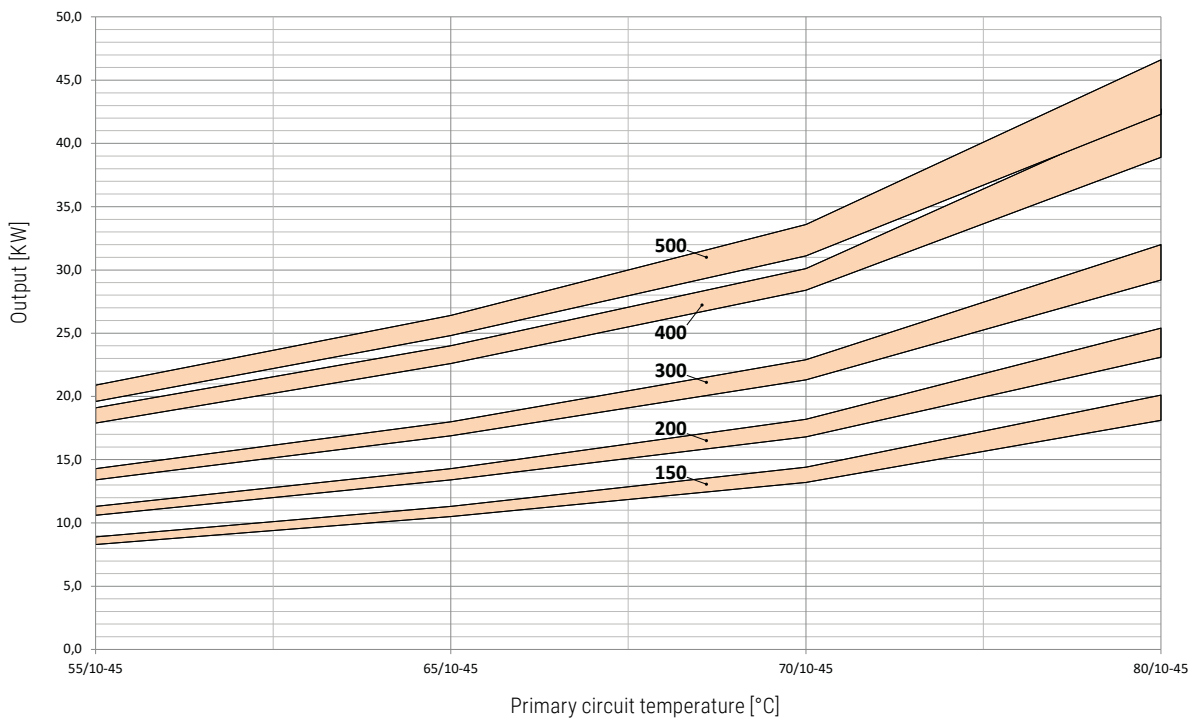
BOLLY® 2 AP INOX - HIGH PERFORMANCES

UPPER HEAT EXCHANGERS TECHNICAL DATA



Model Bolly® 2 AP INOX	150		200		300		400		500	
Flow rate [m³/h]	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	2	1	2,5	1,25	3	1,5	3,5	1,75	3,5	1,75

LOWER HEAT EXCHANGERS TECHNICAL DATA



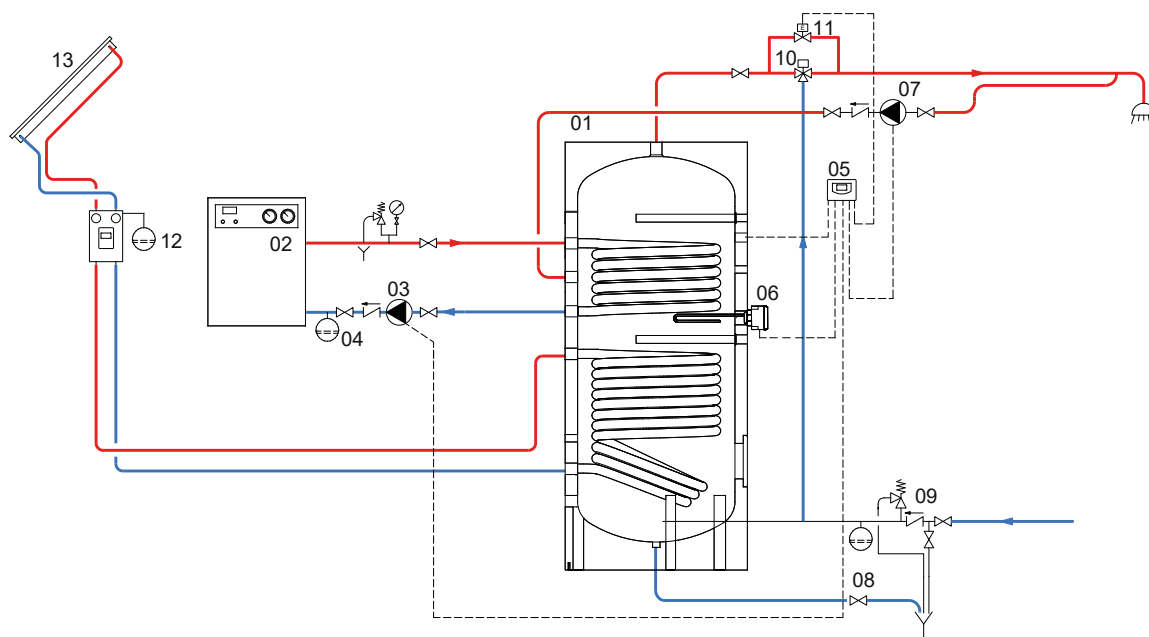
Model Bolly® 2 AP INOX	150		200		300		400		500	
Flow rate [m³/h]	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	2	1	2,5	1,25	3	1,5	3,5	1,75	3,5	1,75

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).

BOLLY® 2 AP INOX - HIGH PERFORMANCES



EXAMPLE OF INSTALLATION WITH BOLLY® 2 AP INOX



1	Bolly® 2 AP inox	5	Electronic control /thermostat	9	Hydraulic safety group	13	Solar panels
2	Generator	6	Electric immersion heater (optional)	10	Thermostatic mixing valve		
3	Circulation group	7	D.H.W. recirculation group	11	By-pass solenoid valve		
4	Expansion vessel	8	Blowdown valve	12	Solar system circulation group		

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