

BOLLY® 2 HY XL INOX

STAINLESS STEEL 316L CALORIFIER FOR DHW PRODUCTION

WITH 2 FIXED EXCHANGERS AND INTEGRATED BUFFER SPECIFIC FOR HEAT PUMPS



APPLICATION

Production and storage of domestic hot water (DHW). Heating/cooling buffer tank for heat pumps.

MATERIAL

- **D.H.W. STORAGE:** Stainless Steel 316 L suitable for domestic hot water

- **BUFFER TANK:** mild steel

HEAT EXCHANGER:

Nr. 2 fixed oversize stainless steel heat exchangers with double spiral coil

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 (DHW STORAGE)

Magnesium anode.

GASKET- FLANGE PLATE

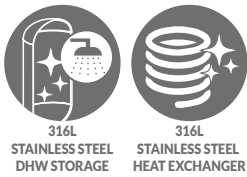
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE); Flange for inspection and counterflange (standard) with provision for electric immersion heater.

WARRANTY

5 years (See general sales conditions and warranty)

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



BOLLY® 2 HY XL INOX

Model	HARD FOAM INSULATION Art. Nr.	Power of combinable heat pump [kWt]	316L STAINLESS STEEL HEAT EXCHANGERS SURFACE		ENERGY EFFICIENCY CLASS
			Upper [m²]	Lower	
300	3134052010100	9-14	2,7	0,8	C
500	3134052010101	14-20	4,0	1,4	C



BOLLY® 2 HY XL INOX CLASS A

Model	HARD FOAM INSULATION Art. Nr.	Power of combinable heat pump [kWt]	316L STAINLESS STEEL HEAT EXCHANGERS SURFACE		ENERGY EFFICIENCY CLASS
			Upper [m²]	Lower	
300	3134052010105	9-14	2,7	0,8	A
500	3134052010106	14-20	4,0	1,4	A

ACCESSORIES

ELECTRIC IMMERSION HEATERS

Mod.	MONOPHASE			THREEPHASE				
	1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW	9 kW	12 kW
Heated volume by electric immersion heater [lt]	5240000000051	5240000000052	5240000000053	5240000000047	5240000000048	5240000000049	5240000000050	5240000000031
Ignition time from 10 °C to 45 °C with electric immersion heaters [min]								
	425	319	213	159	//	//	//	//
	500	417	746	560	373	280	224	//

HEAT MANAGER + electric immersion heater 1,5 kW + probe +3m cable

Art. Nr.	ELECTRIC IMMERSION HEATER
5240000000074	1,5 kW
5240000000075	2 kW
5240000000076	3 kW



Thermometer

Art. Nr.
5032240000107
5 units box

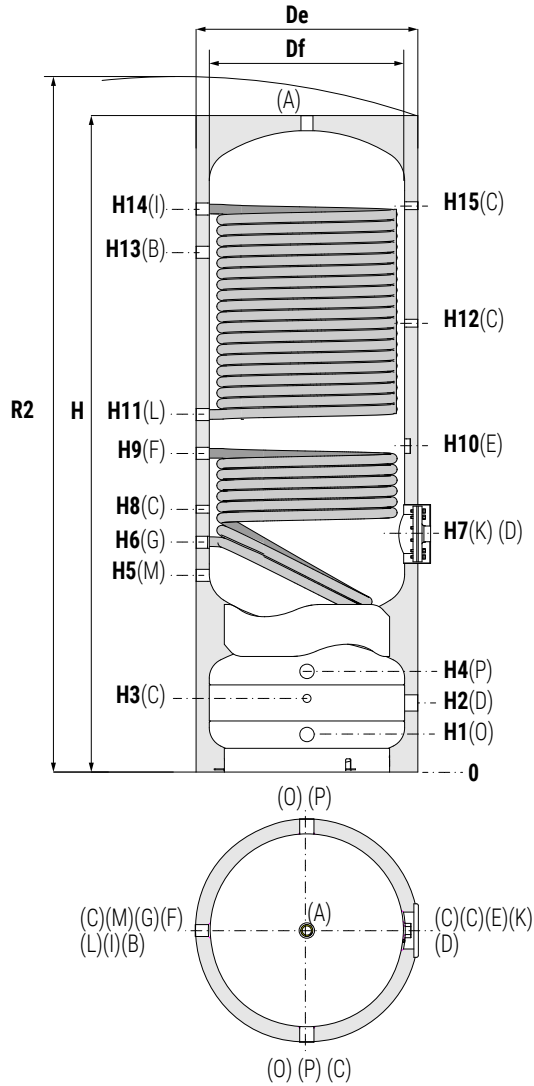
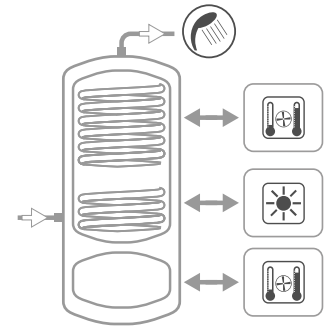


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STAINLESS STEEL 316L CALORIFIER FOR DHW PRODUCTION

WITH 2 FIXED EXCHANGERS AND INTEGRATED BUFFER SPECIFIC FOR HEAT PUMPS

STORAGE		HEAT EXCHANGER		BUFFER TANK	
Pmax	Tmax	Pmax	Tmax	Pmax	Tmax
6 bar	95 °C	12 bar	110 °C	4 bar	-10/+95 °C



A	Domestic hot water outlet
B	Recirculation / Domestic hot water outlet
C	Connection for instrumentation
D	Connection for for electric immersion heater
E	Connection for magnesium anode 1"1/4 G F
F	Lower heat exchanger inlet
G	Lower heat exchanger outlet
K	Flange for inspection and counterflange (standard) with provision for electric immersion heater 1"1/2
M	Domestic cold water circuit inlet
O	Heating return/to generator
P	Heating delivery/from generator
L	Upper heat exchanger outlet
I	Upper heat exchanger inlet

Model	DHW Volume	Buffer tank volume [lt]	Weight [kg]	Df	De	H	R2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15
				[mm]																		
300	293	85	101	550	650	1895	2000	110	232	264	354	640	746	780	860	960	990	1070	1296	1510	1620	1630
500	503	115	152	650	750	2185	2310	125	230	245	335	655	765	795	875	1061	1085	1190	1494	1730	1874	1885

Model	A	B	C	D	E	F	G	M	O	P	L	I	K
	Connections F												[mm]
300	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1"1/4	1"1/4	1"	1"	Ø1120/Øe180
500	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1"1/4	1"1/4	1"	1"	Ø1120/Øe180

BOLLY® 2 HY XL INOX

HEAT EXCHANGERS TECHNICAL DATA

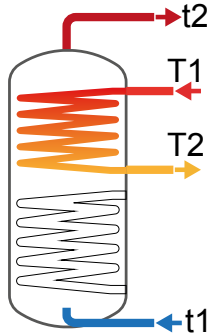


Data have been calculated on following basis:

- 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) Non-scaling sanitary water

UPPER HEAT EXCHANGER

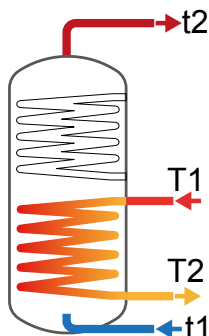
Model	Primary flow rate	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
	[m³/h]	55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
300	4	30	31	22	14	20,4	25,8	32,8	45,7	438	444	567	792
	2	35	36	26	17	18,8	23,9	29,9	40,9	403	410	517	709
500	5	35	36	26	17	32,7	41,2	52,3	72,5	704	714	908	1261
	2,5	41	43	31	20	30,2	38,3	47,8	64,9	651	663	830	1128



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				[mmH ₂ O]	[mbar]
	[m³/h]	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
300	4	302	303	323	361	579	584	682	862	2517	247
	2	296	297	315	347	551	557	642	796	742	73
500	5	539	540	573	632	985	993	1148	1430	5813	570
	2,5	530	532	560	609	942	952	1085	1324	1719	169

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
300	4	147	153	104	67	7,6	9,5	12,2	17,3	158	160	208	296
	2	163	171	116	75	7,1	8,9	11,4	15,9	147	150	192	272
500	5	138	143	100	65	13,5	17,1	21,9	30,8	288	292	376	532
	2,5	154	160	111	73	12,7	16,1	20,4	28,4	270	274	350	490



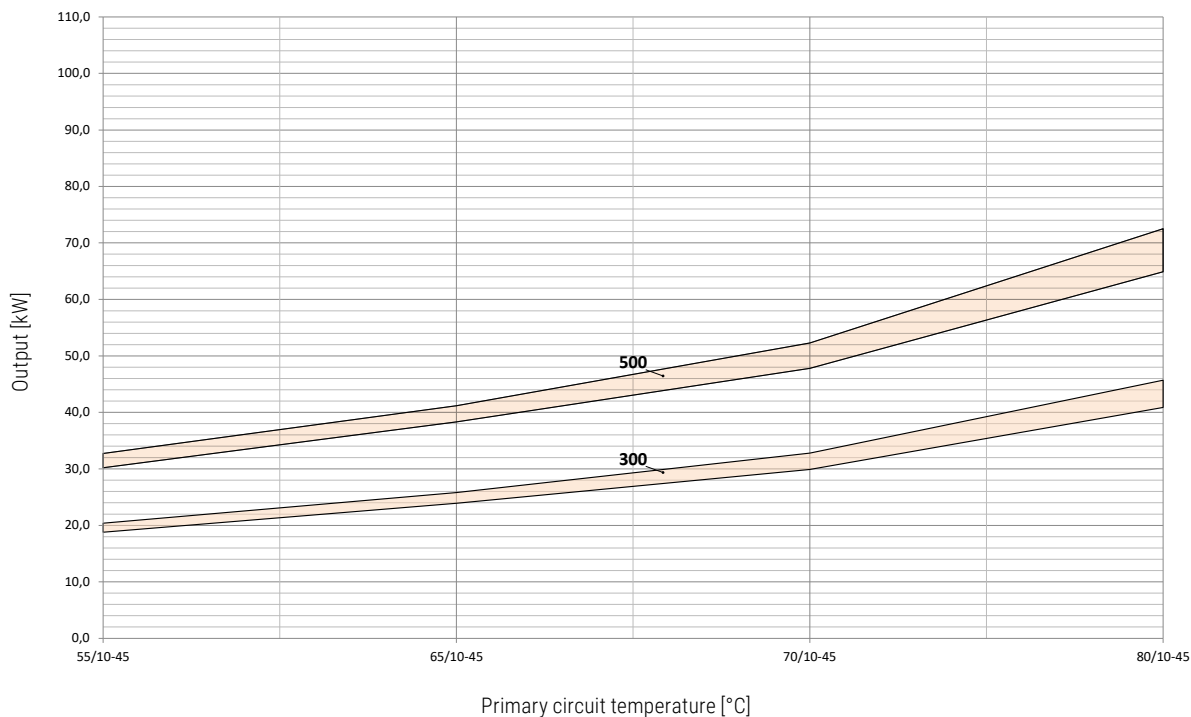
Model	Primary flow rate	DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1				DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1				Heat exchanger pressure drop	
		T1/t2				T1/t2				[mmH ₂ O]	[mbar]
	[m³/h]	55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
300	4	445	445	453	468	545	547	585	655	999	98
	2	443	444	451	464	536	539	572	636	291	28
500	5	767	767	781	807	949	952	1019	1144	2481	243
	2,5	764	764	777	800	935	938	999	1111	728	71

BOLLY® 2 HY XL INOX

UPPER HEAT EXCHANGERS TECHNICAL DATA

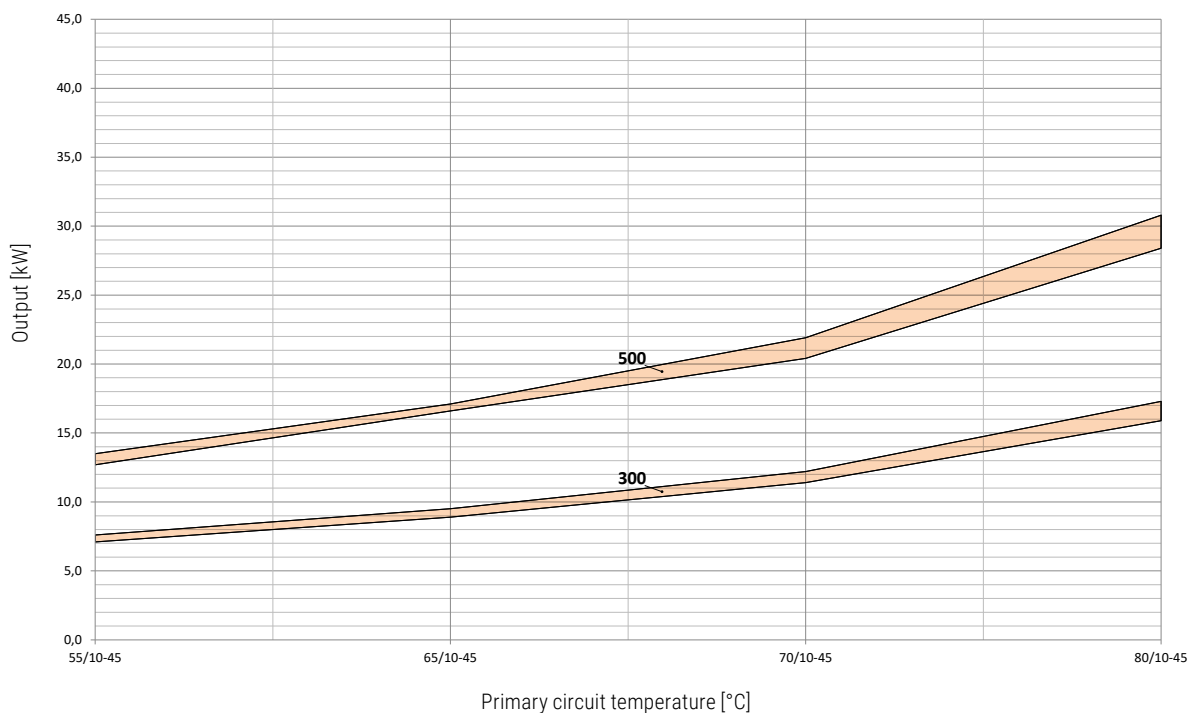


Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary flow rate)



Model Bolly® 2 HY XL INOX	300		500	
Flow rate [m³/h]	MAX	MIN	MAX	MIN
	3	1,5	3,5	1,75

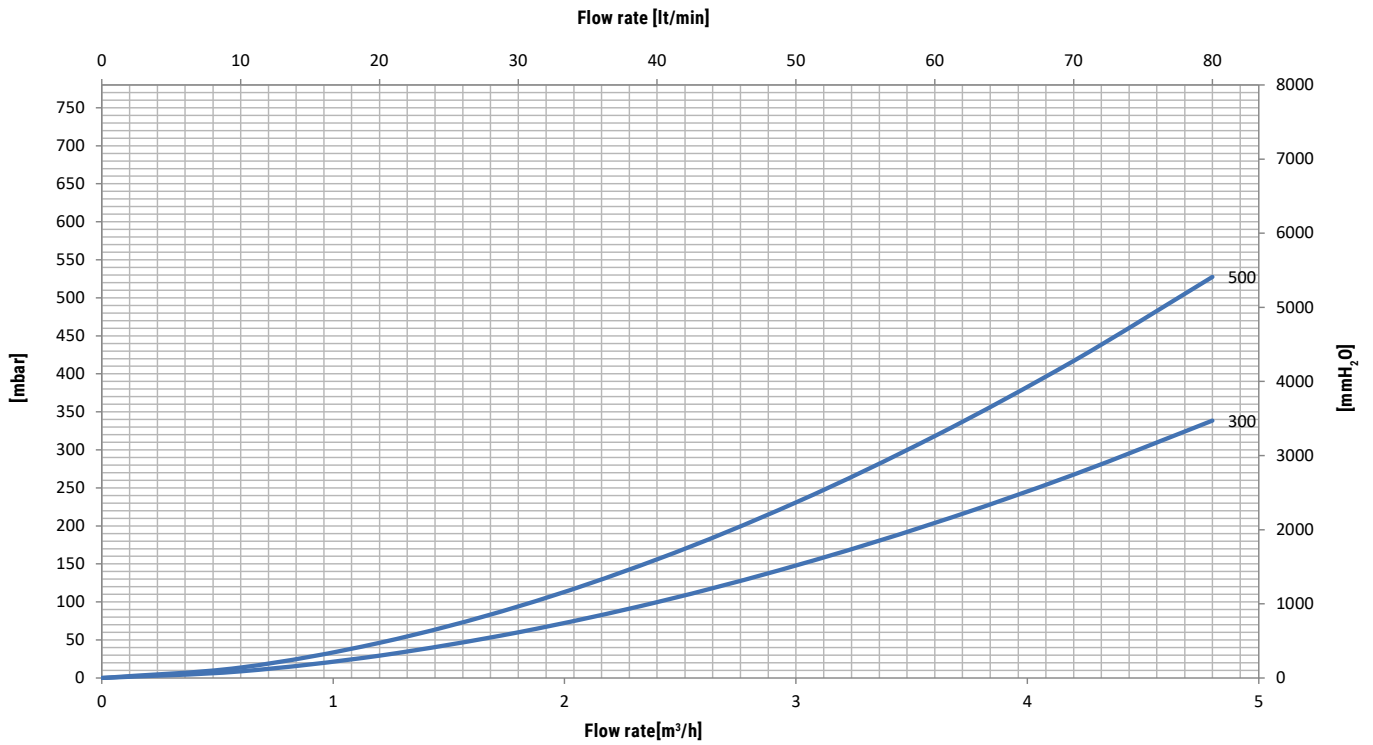
LOWER HEAT EXCHANGERS TECHNICAL DATA



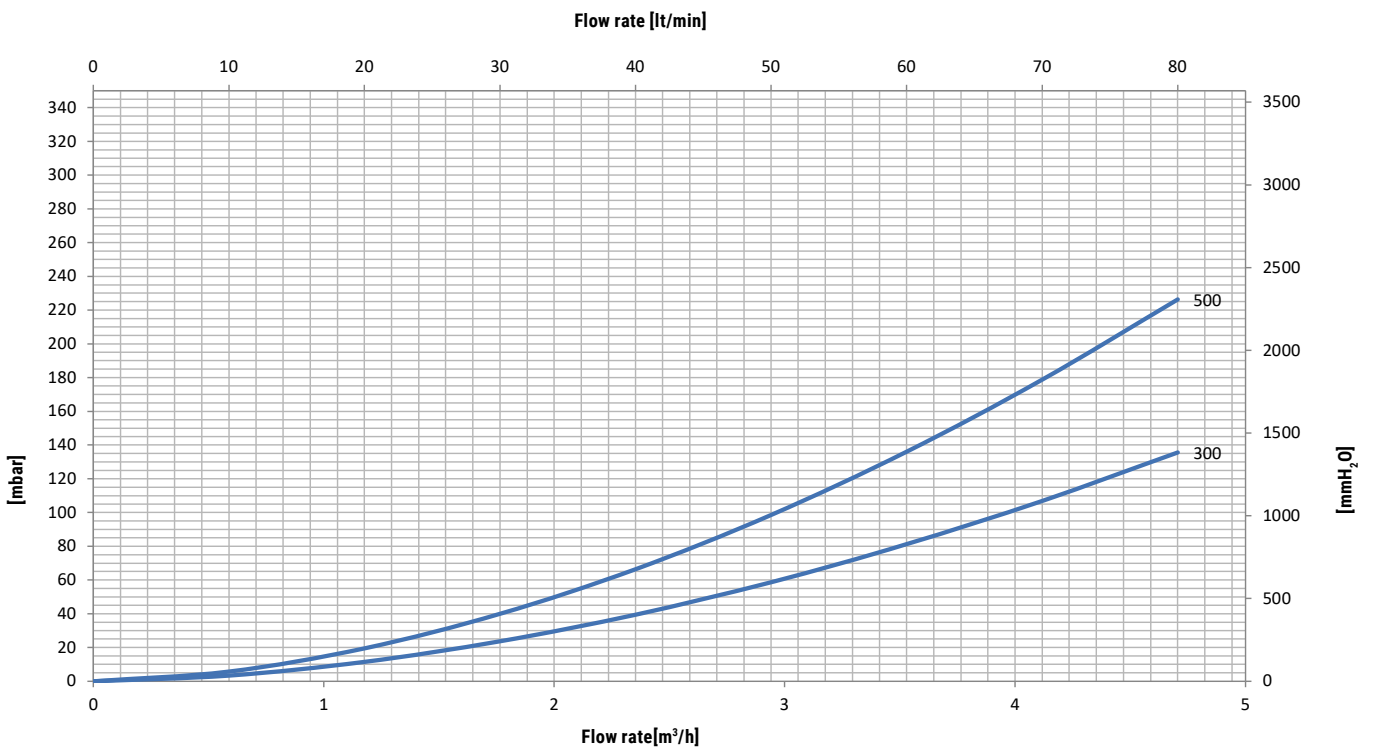
Model Bolly® 2 HY XL INOX	300		500	
Flow rate [m³/h]	MAX	MIN	MAX	MIN
	3	1,5	3,5	1,75

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UPPER HEAT EXCHANGERS TECHNICAL DATA



LOWER HEAT EXCHANGERS TECHNICAL DATA

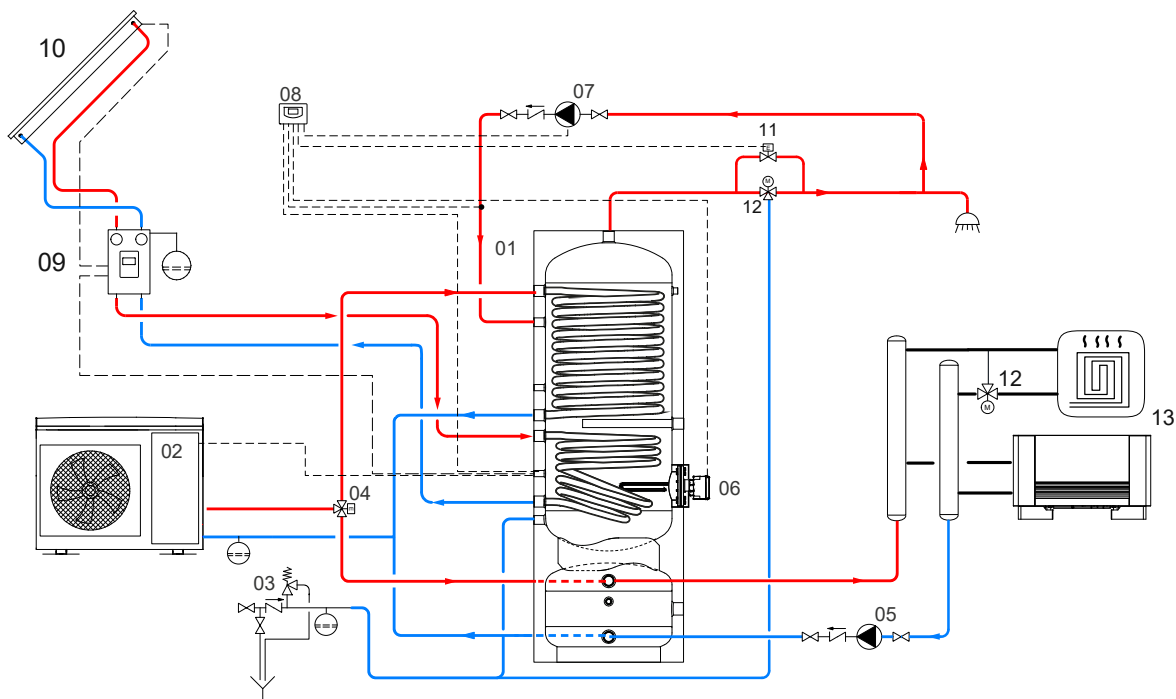


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EXAMPLE OF INSTALLATION



EXAMPLE OF INSTALLATION WITH BOLLY® 2 HY XL INOX



1	Bolly 2 HY XL	5	Circulation group for heating/cooling system	9	Solar system circulation group	13	Heating units
2	Generator (Heat pump)	6	Electric immersion heater	10	Solar panels		
3	Hydraulic safety group	7	D.H.W. recirculation group	11	By-pass solenoid valve		
4	Motorized 3-way valve	8	Electronic Control/thermostat	12	Thermostatic mixing valve		

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