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
- *DHW STORAGE:* Stainless Steel 316 L suitable for domestic hot water
- *Buffer tank:* Mild steel, internamente non trattato.
HEAT EXCHANGER
2 fixed oversize stainless steel heat exchanger 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 electrical resistance 1"1/2
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

cordivari.com/erp

On line ErP label tool

BOLLY® 2 HY XL INOX

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

BOLLY® 2 HY XL INOX CLASS A

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

ACCESSORIES

ELECTRIC IMMERSION HEATERS

Mod.	Heated volume by electric immersion heater [lt]	MONOPHASE			THREEPHASE	
		1,5 kW	**2** kW	**3** kW	**4** kW	**5** kW
		5240000000051	5240000000052	5240000000053	5240000000047	5240000000048
		Ignition time from 10 °C to 45 °C with electric immersion heaters [min]			Ignition time from 10 °C to 45 °C with electric immersion heaters [min]	
300	237	425	319	213	159	//
500	417	746	560	373	280	224

HEAT MANAGER kit + electric resistance with probe and 3m cable

Art. Nr.	ELECTRICAL RESISTANCE
5240000000074	1,5 kW
5240000000075	2 kW
5240000000076	3 kW

See Accessories section

Thermometer

Art. Nr.
5032240000107
5 units box

CORDIVARI

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

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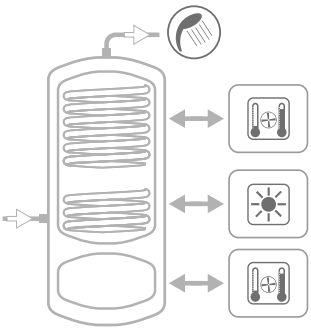
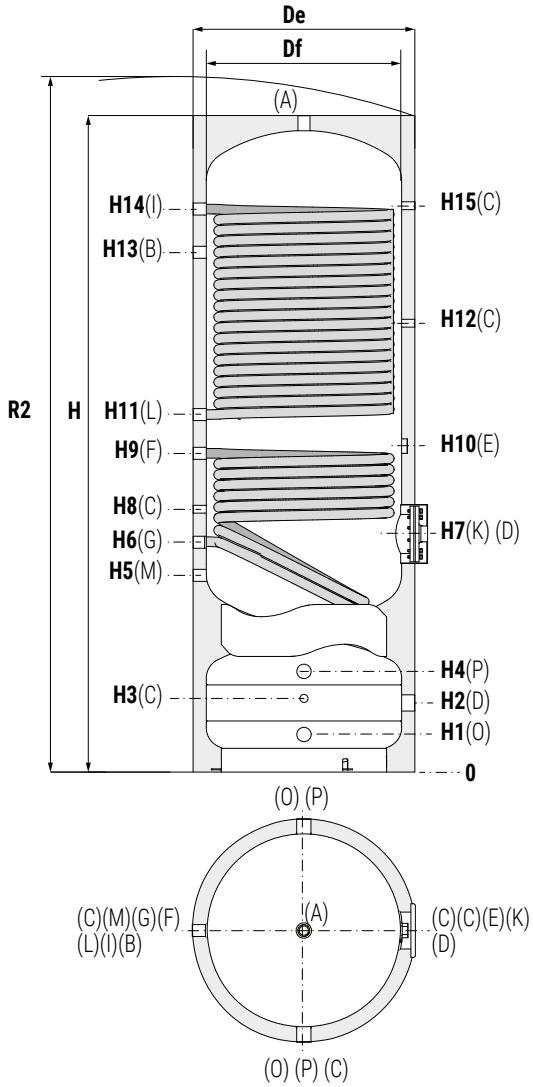
STORAGE		HEAT EXCHANGER		Buffer tank	
Pmax	Tmax	Pmax	Tmax	Pmax	Tmax
6 bar	95 °C	12 bar	110 °C	4 bar	-10/+95 °C

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.

TESTED ErP





A	Domestic hot water outlet
B	Recirculation / Domestic hot water outlet
C	Connection for instrumentation
D	Connection for electric immersion heater (buffer tank)
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 with provision for electrical resistance 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 storage volume	Buffer tank volume	Weight
	[lt]		[kg]
300	300	85	101
500	500	115	152

Df	De	H	R2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	H15
[mm]																		
650	750	1895	2000	110	232	264	354	640	746	780	860	960	990	1070	1296	1510	1620	1630
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"	Øi120/Øe180
500	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1"1/4	1"1/4	1"	1"	Øi120/Øe180

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

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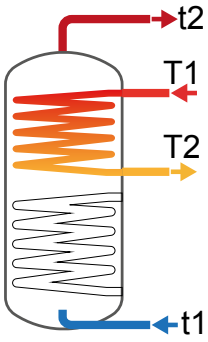
BOLLY® **2 HY XL INOX**

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) Sanitary water according to UNI CTI 8065 (<15°fr).

UPPER HEAT EXCHANGER

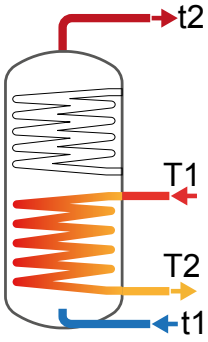
Model	Primary Flow rate	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
	[m³/h]	T1/t2				T1				T1			
		55/50	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	
	[m³/h]	T1/t2				T1/t2				[mm.c.a.]	[mbar]
		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			
	[m³/h]	T1/t2				T1				T1			
		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	
	[m³/h]	T1/t2				T1/t2				[mm.c.a.]	[mbar]
		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

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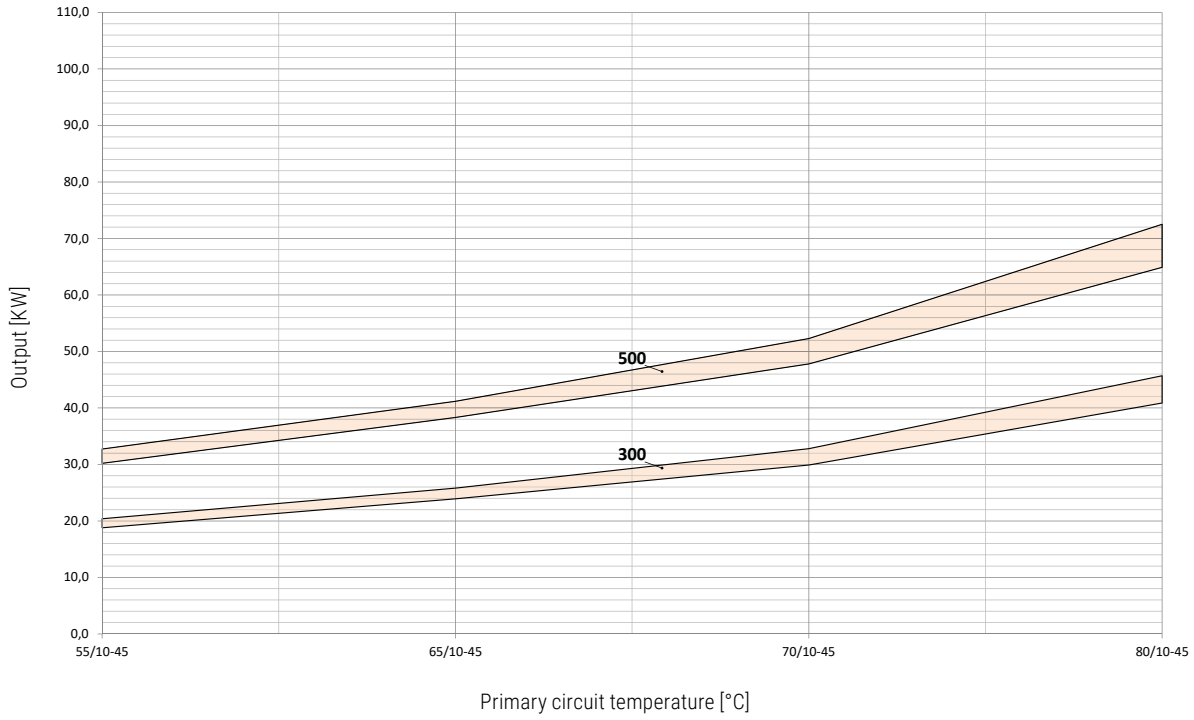
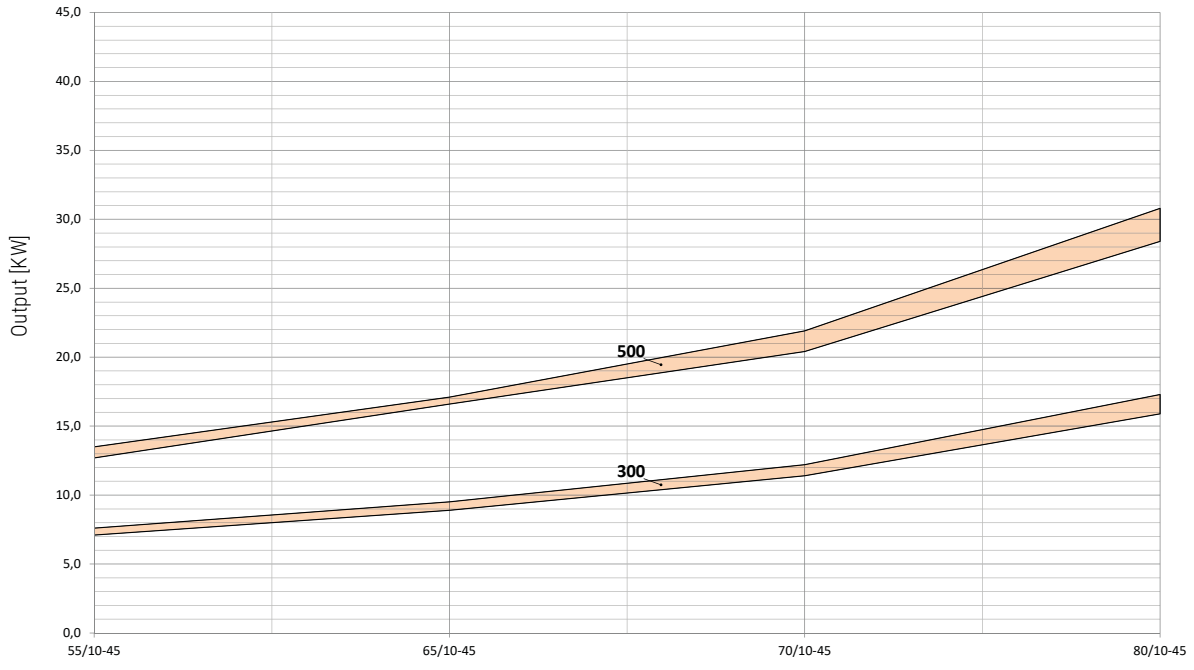
UPPER HEAT EXCHANGERS TECHNICAL DATA



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

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

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)

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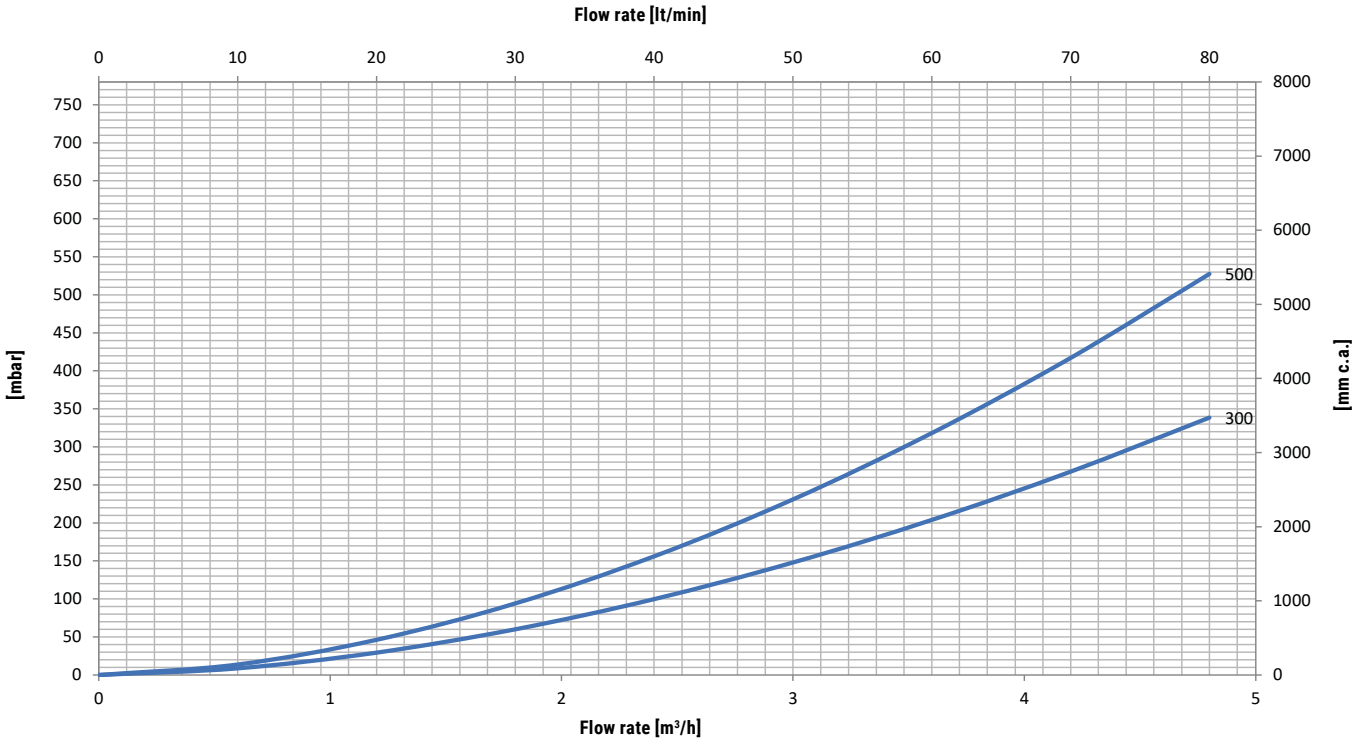
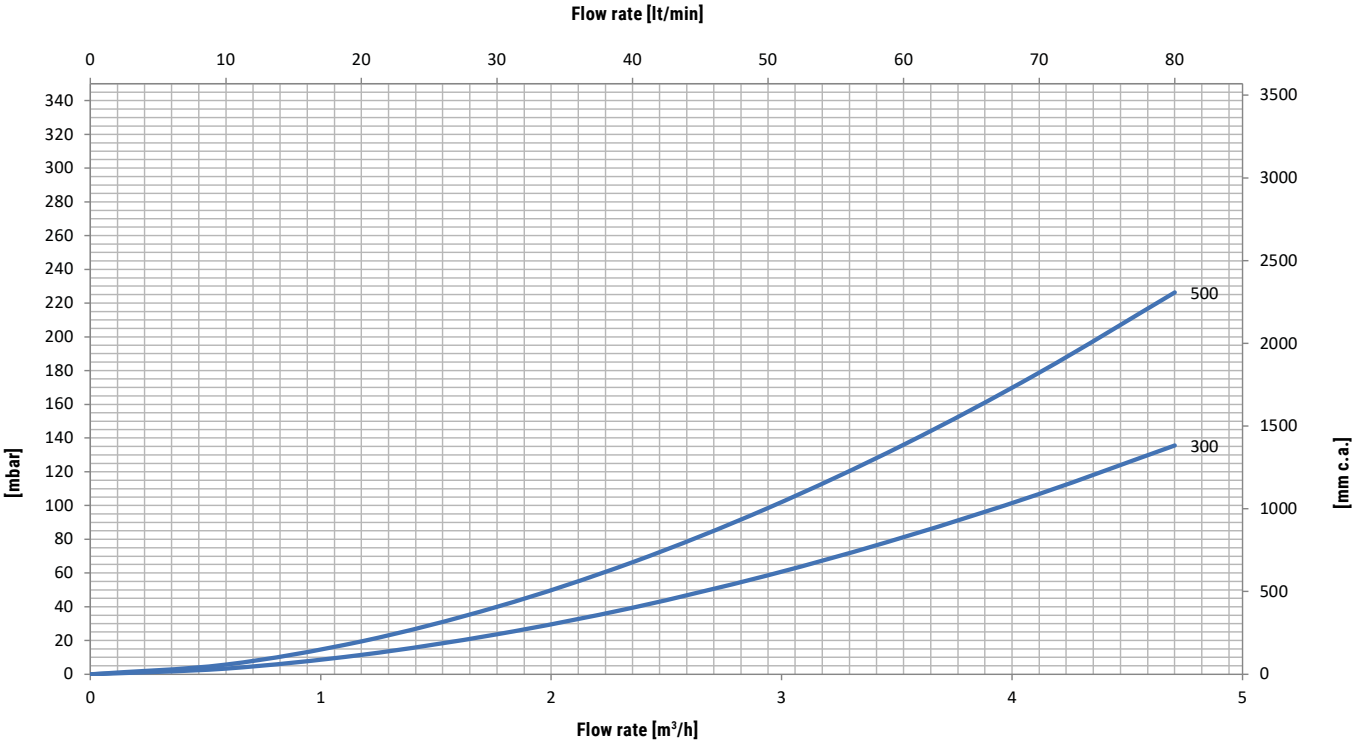
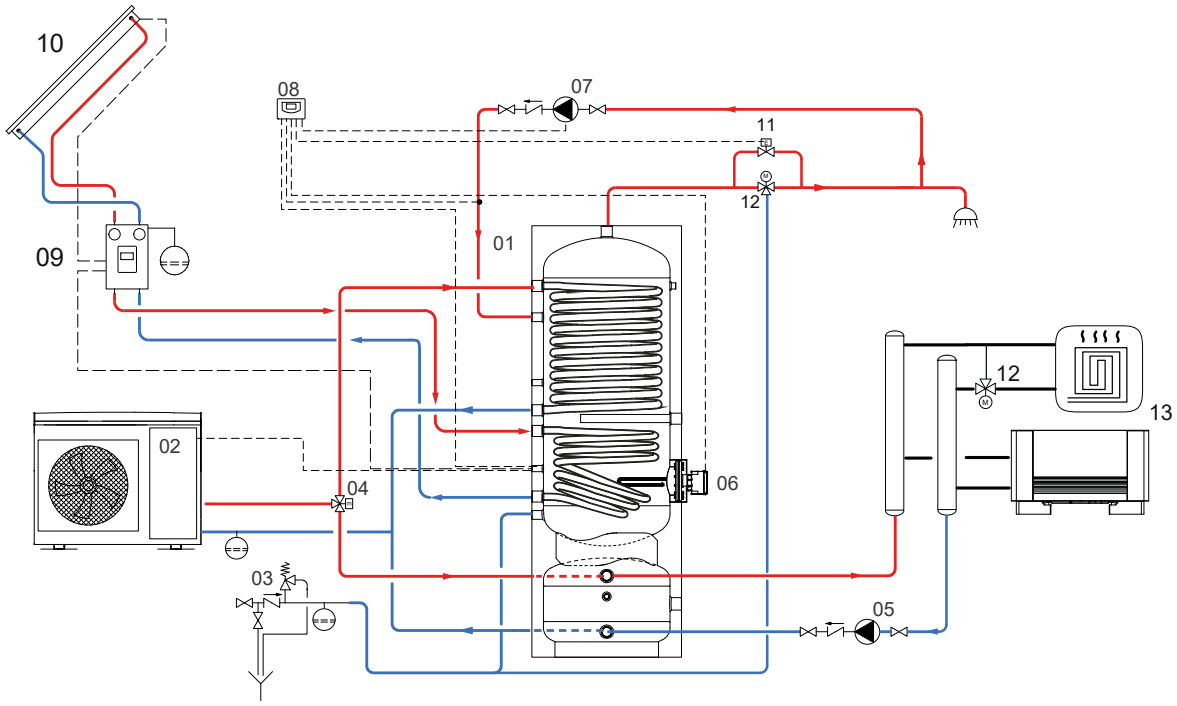
UPPER HEAT EXCHANGERS PRESSURE DROP



LOWER HEAT EXCHANGERS PRESSURE DROP



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 (optional)	10	Solar panels		
3	Hydraulic safety group	7	D.H.W. recirculation group	11	By-pass solenoid valve		
4	Motorized three-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.