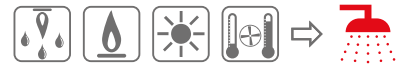


# BOLLY® 2 XL

## POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 2 FIXED 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

Mild steel Polywarm® coated (Attestation ACS - SSICA - EN 16421 - WRAS)

### HEAT EXCHANGER

N° 2 Mild steel Polywarm® coated heat exchangers

### 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

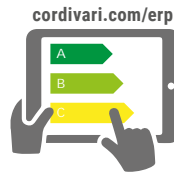
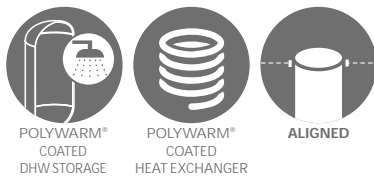
Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE), max temperature up to 200°C. Mild steel inspection flange plate with Polywarm®.

### WARRANTY

5 years (See general sales conditions and warranty)

### ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



On line ErP label tool



### BOLLY® 2 XL WB

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS 
		Upper	Lower	
<b>200</b>	3134162320001	1,4	0,4	<b>B</b>
<b>300</b>	3134162320002	1,9	0,9	<b>B</b>
<b>500</b>	3134162320003	3,1	1,4	<b>C</b>



### BOLLY® 2 XL WB CLASS A

Model	HARD FOAM INSULATION Art. Nr.	HEAT EXCHANGER SURFACE		ENERGY EFFICIENCY CLASS 
		Upper	Lower	
<b>200</b>	3134162330021	1,4	0,4	<b>A</b>
<b>300</b>	3134162330022	1,9	0,9	<b>A</b>
<b>500</b>	3134162330023	3,1	1,4	<b>A</b>

## ACCESSORIES

### ELECTRIC IMMERSION HEATERS

Mod.	MONOPHASE			THREEPHASE		
	1,5 kW	2 kW	3 kW	4 kW	5 kW	6 kW
	5240000000051	5240000000052	5240000000053	5240000000047	5240000000048	5240000000049
	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]		
	285	214	142	//	//	//
<b>200</b>	159					
<b>300</b>	235	421	316	158	//	//
<b>500</b>	413	741	555	278	222	//

### Electric immersion heater flange plate



See Accessories section

### Titanium electronic anode

Art. Nr.	Model
5200000000008	200, 300
5200000000009	500



### 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



# BOLLY® 2 XL

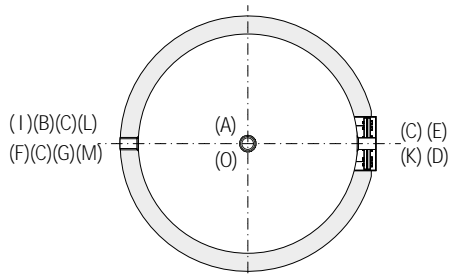
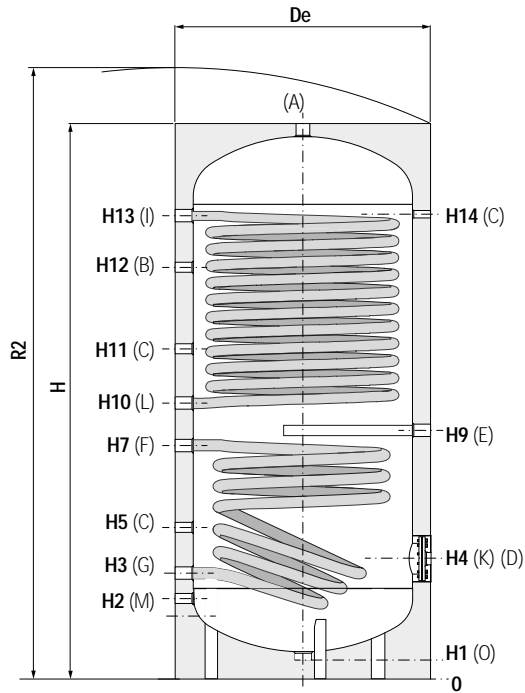
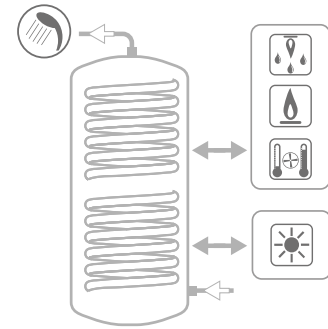
## POLYWARM® COATED DOMESTIC HOT WATER CALORIFIER WITH 2 FIXED HEAT EXCHANGERS

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.



<b>A</b>	Domestic hot water outlet 1"1/4
<b>B</b>	Recirculation
<b>C</b>	Connection for instrumentation 1/2" G F
<b>D</b>	Connection for electric immersion heater 1"1/2 G F
<b>E</b>	Connection for magnesium anode 1"1/4 G F
<b>F</b>	Lower heat exchanger inlet 1"1/4 G F
<b>G</b>	Lower heat exchanger outlet 1"1/4 G F
<b>I</b>	Upper heat exchanger inlet 1"1/4 G F
<b>K</b>	Flange for inspection
<b>L</b>	Upper heat exchanger outlet 1"1/4 G F
<b>M</b>	Domestic cold water circuit inlet
<b>O</b>	Drain 1"1/4 F

### BOLLY® 2 XL WB +XL WB CLASS A (HARD FOAM INSULATION)

Model	Volume Weight		De	H	R2	H1	H2	H3	H4	H5	H7
	[lt]	[Kg]									
<b>200</b>	189	65	550	1434	1540	65	215	285	325	405	475
<b>300</b>	291	83	650	1486	1620	65	241	311	381	431	596
<b>500</b>	498	134	750	1786	1940	65	266	346	411	466	671

Model	H8	H9	H10	H11	H12	H13	H14	K	Connections F	
									M	B
	[mm]									
<b>200</b>	520	//	570	690	1089	1200	1200	Øi120/Øe180	3/4"	3/4"
<b>300</b>	641	//	686	806	1090	1226	1226	Øi120/Øe180	1"	1"
<b>500</b>	716	//	761	881	1091	1476	1476	Øi120/Øe180	1"	1"

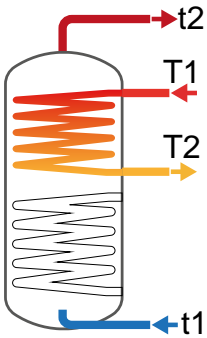


Data have been calculated on following basis:

- 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 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.

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
200	2,5	37	38	27	18	15	23	27	34	377	564	659	851
	1,25	42	44	31	21	14	21	24	30	346	507	586	749
300	3	43	45	31	20	20	30	35	46	501	747	871	1123
	1,5	50	52	37	24	18	27	31	39	454	661	765	975
500	3,5	46	48	34	22	33	49	56	72	812	1198	1392	1786
	1,75	47	49	35	23	30	42	49	62	732	1050	1208	1525



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		
200	2,5	149	275	291	323	163	633	708	862	163,5	16,0
	1,25	149	266	279	306	162	587	651	781	45,6	4,5
300	3	226	400	421	463	245	873	972	1174	88,4	8,7
	1,5	225	386	403	438	242	805	888	1056	24,5	2,4
500	3,5	329	601	633	699	360	1360	1515	1830	70,2	6,9
	1,75	328	576	603	656	355	1242	1368	1621	20,9	2,0

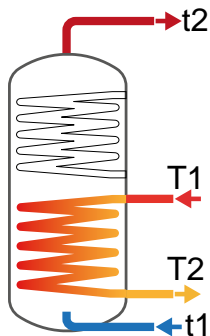


Data have been calculated on following basis:

- 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 60°C, input 10°C and output 45°C;
- 4) Sanitary water according to UNI CTI 8065.

LOWER  
HEAT EXCHANGER

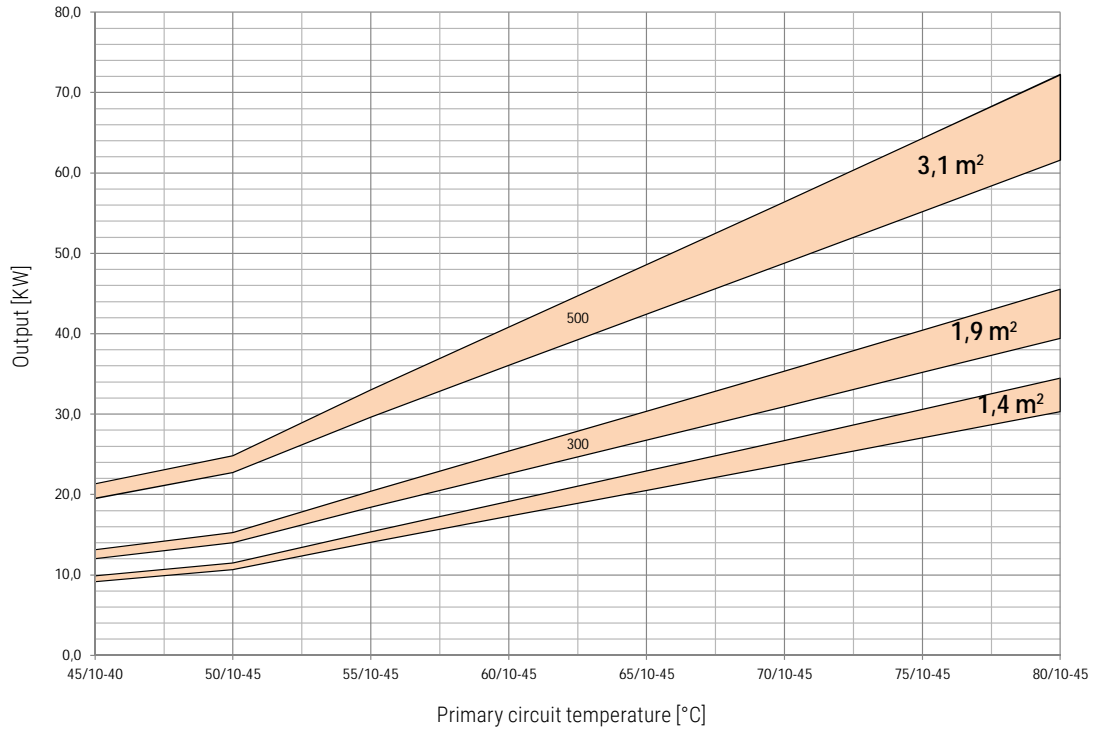
Model	Primary Flow rate [m³/h]	Ignition time (minutes) from 10 °C to t2 and primary at T1				Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production				DHW continuous production lt/h within 10-45 °C and primary at T1			
		T1/t2				T1				T1			
		55/50	65/60	70/60	80/60	55	65	70	80	55	65	70	80
200	2,5	182	189	130	84	4,8	6,9	8,1	10,5	110	168	198	259
	1,25	225	241	151	95	4,4	6,4	7,5	9,7	99	152	179	235
300	3	127	132	92	60	9,9	15,0	17,5	22,8	243	368	431	561
	1,5	150	157	107	69	9,1	13,6	15,8	20,4	220	330	385	499
500	3,5	141	146	102	67	15,5	23,2	27,1	35,1	380	572	669	868
	1,75	139	145	101	66	14,2	21,0	24,4	31,3	346	514	598	771



Model	Primary Flow rate [m³/h]	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]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
200	2,5	217	298	303	313	222	405	428	477	92,7	9,1
	1,25	217	295	300	309	221	392	413	458	24,5	2,4
300	3	335	477	488	509	345	710	761	865	61,5	6,0
	1,5	335	471	480	499	343	679	724	815	16,5	1,6
500	3,5	486	698	714	748	501	1060	1138	1297	100,1	9,8
	1,75	486	688	703	731	499	1014	1082	1219	27,4	2,7



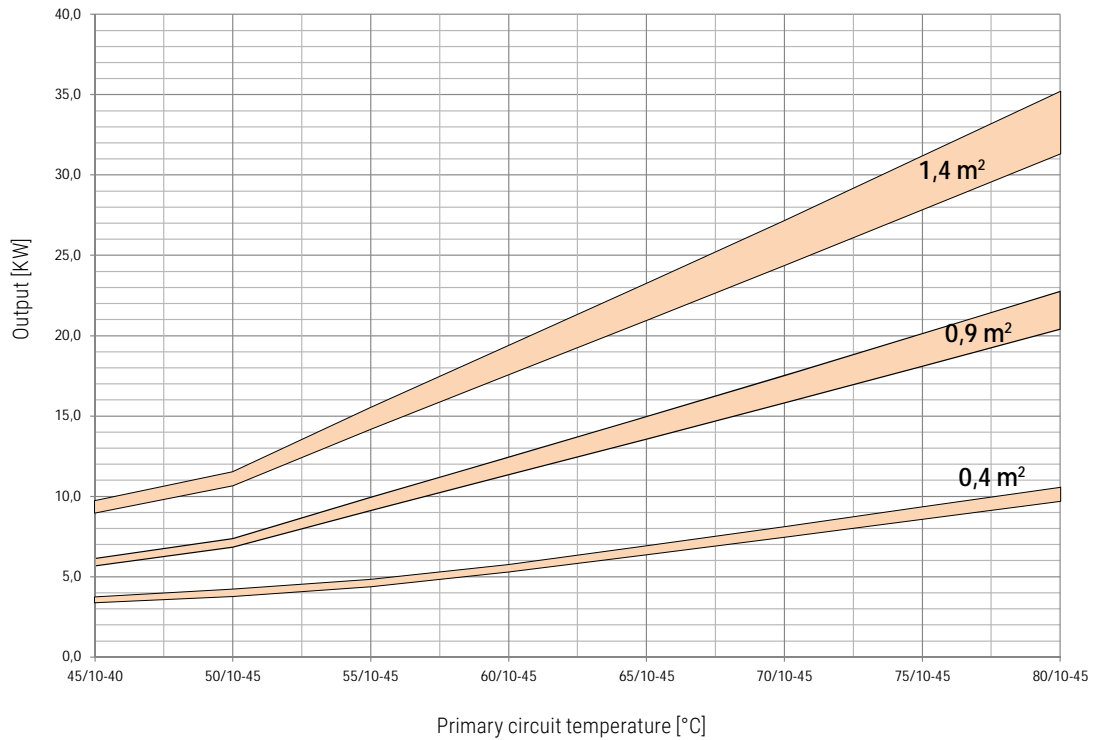
Heat exchangers surface [m <sup>2</sup> ]	
Upper	
<b>200</b>	1,4
<b>300</b>	1,9
<b>500</b>	3,1



Upper heat exchangers	1,4 m <sup>2</sup>		1,9 m <sup>2</sup>		3,1 m <sup>2</sup>	
Flow rate [m <sup>3</sup> /h]	MAX	MIN	MAX	MIN	MAX	MIN
	2,5	1,25	3	1,5	3,5	1,75

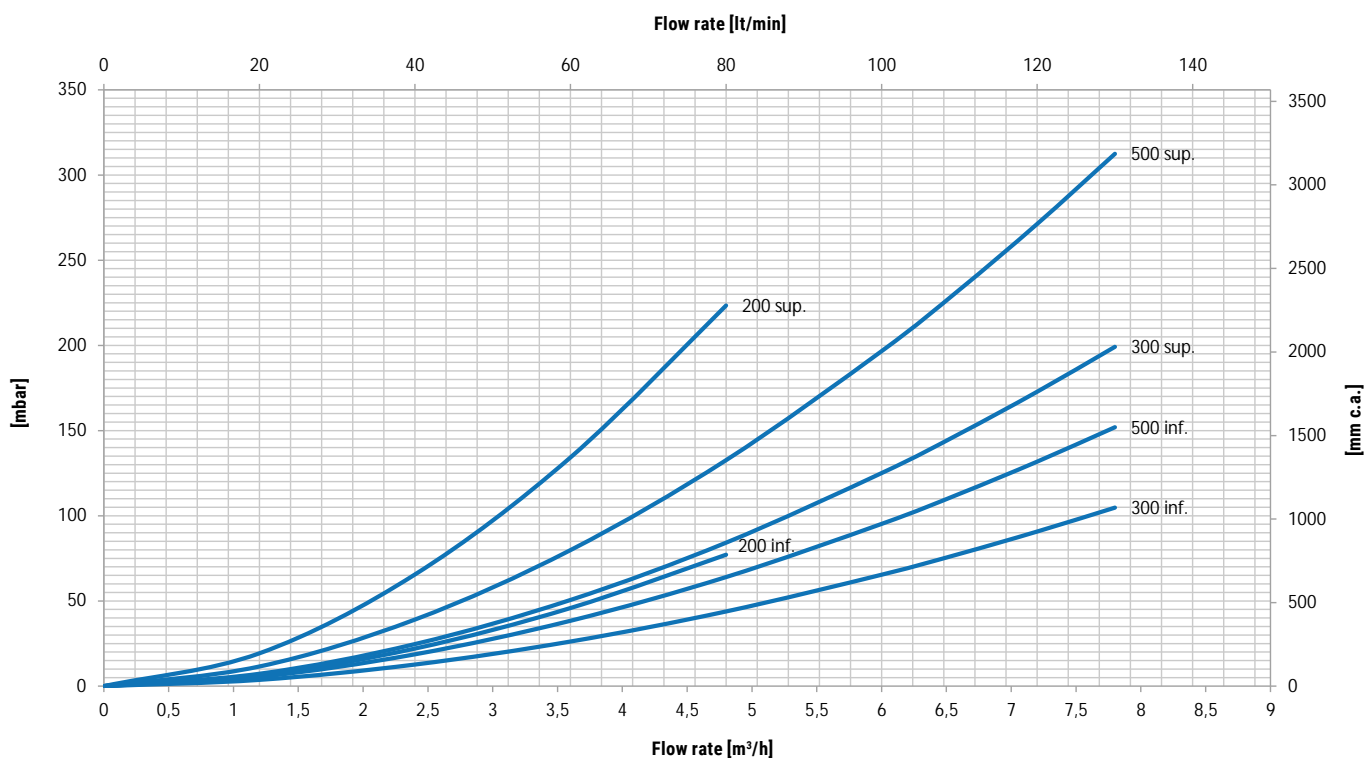
## LOWER HEAT EXCHANGERS TECHNICAL DATA

Heat exchangers surface [m <sup>2</sup> ]	
Upper	
<b>200</b>	0,4
<b>300</b>	0,9
<b>500</b>	1,4

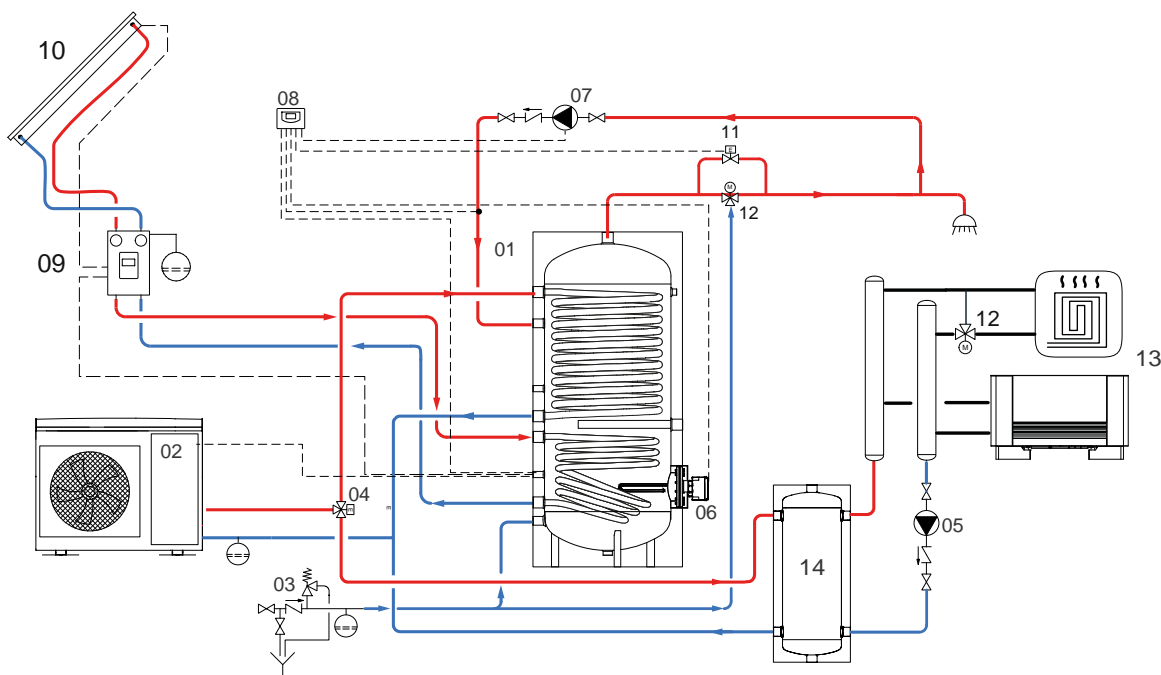


Lower heat exchangers	0,4 m <sup>2</sup>		0,9 m <sup>2</sup>		1,4 m <sup>2</sup>	
Flow rate [m <sup>3</sup> /h]	MAX	MIN	MAX	MIN	MAX	MIN
	2,5	1,25	3	1,5	3,5	1,75

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)



### EXAMPLE OF INSTALLATION WITH BOLLY® 2 XL



1 BOLLY® 2 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	14 Buffer tank
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 Mixing valve	

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