BOLLY® **1 HY XL INOX**

STAINLESS STEEL 316L CALORIFIER FOR DHW PRODUCTION WITH 1 HEAT EXCHANGER AND INTEGRATED BUFFER SPECIFIC FOR HEAT PUMPS

316L STAINLESS STEEL DHW STORAGE

316L STAINLESS STEEL HEAT EXCHANGER

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

HEAT EXCHANGER:
Nr. 1 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 electric immersion heater.

WARRANTY
5 years (See general sales conditions and warranty)

ACCESSORIES AND SPARE PARTS
See Accessories section for the entire list.

BOLLY® 1 HY XL INOX

Model	HARD FOAM INSULATION Art. Nr.	Power of combinable heat pump [kWt]	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS
300	3104052010500	9-14	2,7	**C**
500	3104052010501	14-20	4,0	**C**

BOLLY® 1 HY XL INOX CLASS A

Model	HARD FOAM INSULATION Art. Nr.	Power of combinable heat pump [kWt]	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS
300	3104052010505	9-14	2,7	**A**
500	3104052010506	14-20	4,0	**A**

ACCESSORIES

ELECTRIC IMMERSION HEATERS

Mod.	Heated volume by electric immersion heater [lt]	MONOPHASE 1,5 kW	MONOPHASE 2 kW	MONOPHASE 3 kW	THREEPHASE 4 kW	THREEPHASE 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 + 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

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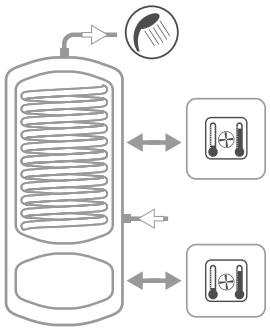
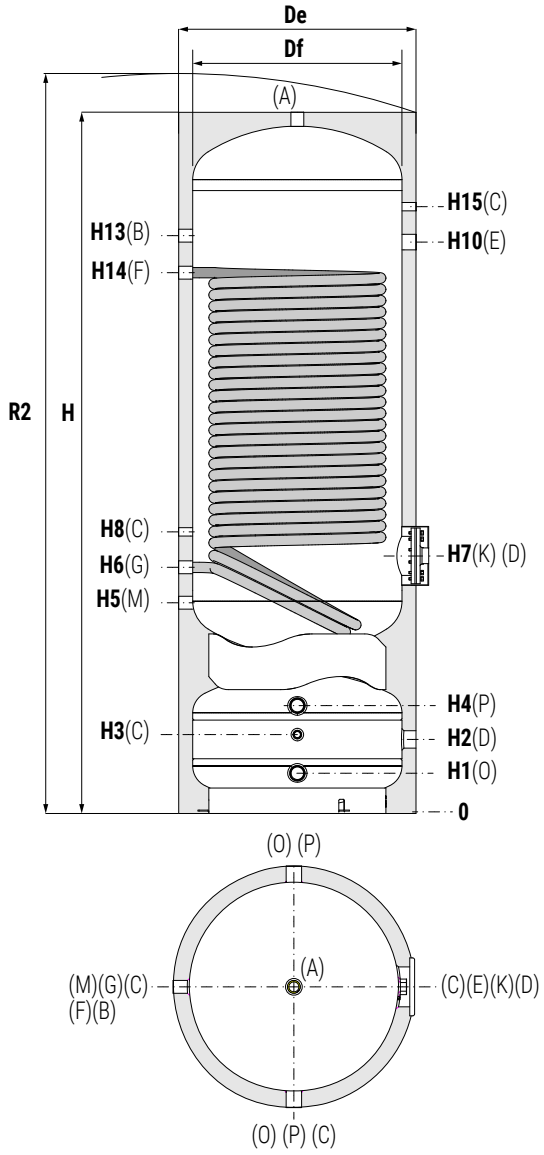
STORAGE		HEAT EXCHANGER		BUFFER TANK	
Pmax	Tmax	Pmax	Tmax	Pmax	Tmax
6 bar	95 °C	12 bar	110 °C	4 bar	-10/+95 °C





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
F	Primary circuit inlet
G	Primary circuit 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

Model	DHW storage volume	Buffer tank volume	Weight	Df	De	H	R2	H1	H2	H3	H4	H5	H6	H7	H8	H10	H13	H14	H15
	[lt]		[kg]	[mm]															
300	293	85	95	550	650	1895	1990	110	232	264	354	640	750	780	860	1510	1570	1459	1620
500	503	115	144	650	750	2185	2310	125	230	245	335	665	765	800	875	1775	1795	1680	1885

Model	A	B	C	D	E	F	G	M	O	P	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	Øi120/Øe180
500	1"	1"	1"1/2	1"1/2	1"1/4	1"	1"	1"	1"1/4	1"1/4	Øi120/Øe180

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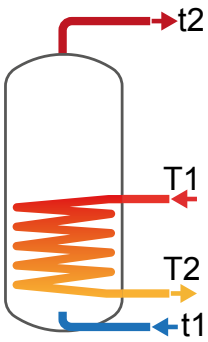
HEAT EXCHANGERS TECHNICAL DATA

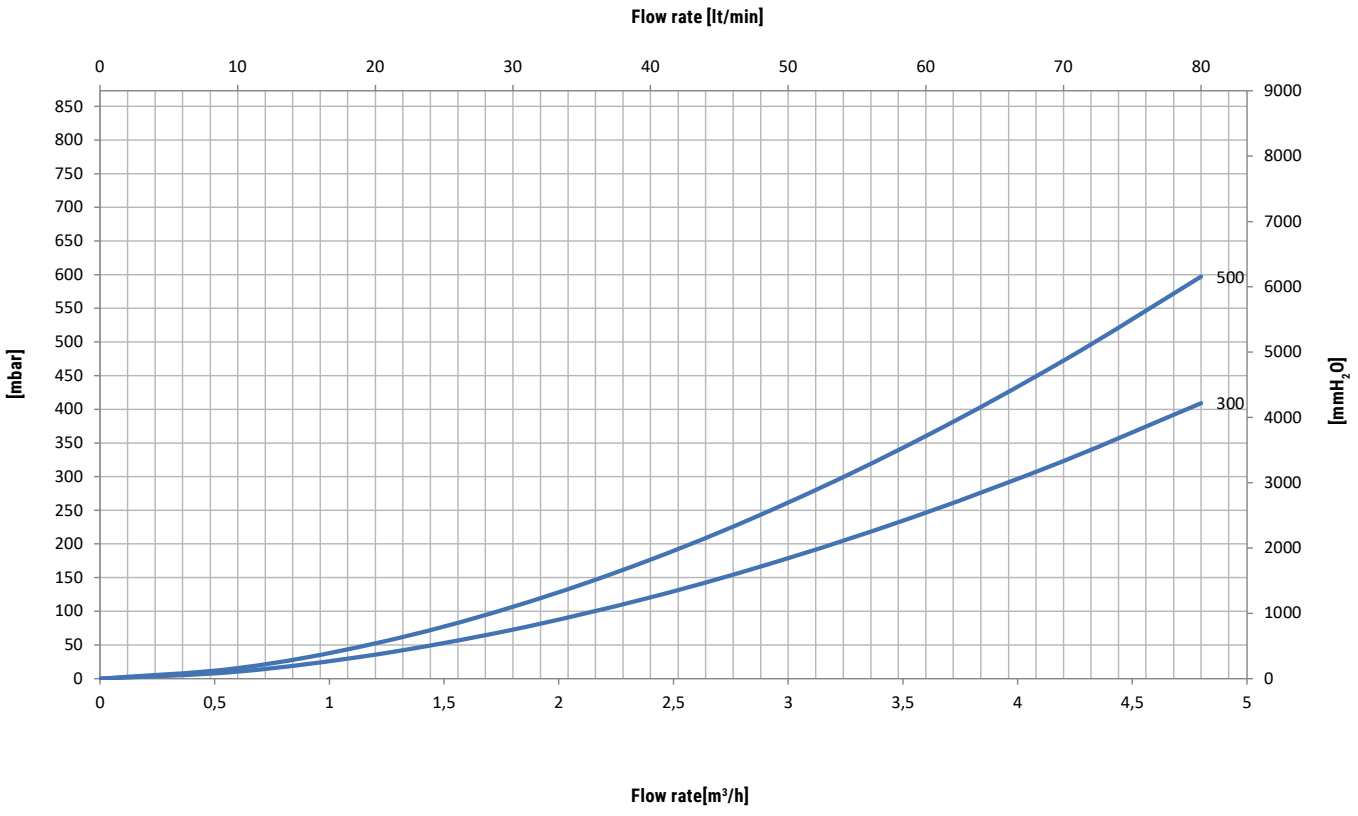
Data have been calculated on following basis:
1) Primary circuit at T1 and proper energy source;
2) Production of DHW in continuous from 10 °C to t2;
3) DHW that can be taken in the first 10' and in the first hour from storage at t2, input 10 °C and output 45 °C;
4) Non-scaling sanitary water

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	44	46	32	21	25,7	32,4	41,3	57,2	553	561	715	994
	2	51	54	38	25	24,0	30,6	38,3	52,0	519	528	663	902
500	5	52	54	38	25	38,1	48,1	61,0	84,3	823	835	1060	1468
	2,5	61	64	45	30	35,8	45,4	56,6	76,4	773	787	983	1329



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				[mmH$_2$O]	[mbar]
		55/50	65/60	70/60	80/60	55/50	65/60	70/60	80/60		
300	4	427	512	538	584	777	867	991	1214	3059	299
	2	421	507	529	569	750	841	949	1140	903	88
500	5	712	858	895	963	1233	1387	1567	1893	6614	648
	2,5	704	850	882	940	1193	1348	1505	1782	1957	192

HEAT EXCHANGERS PRESSURE DROP



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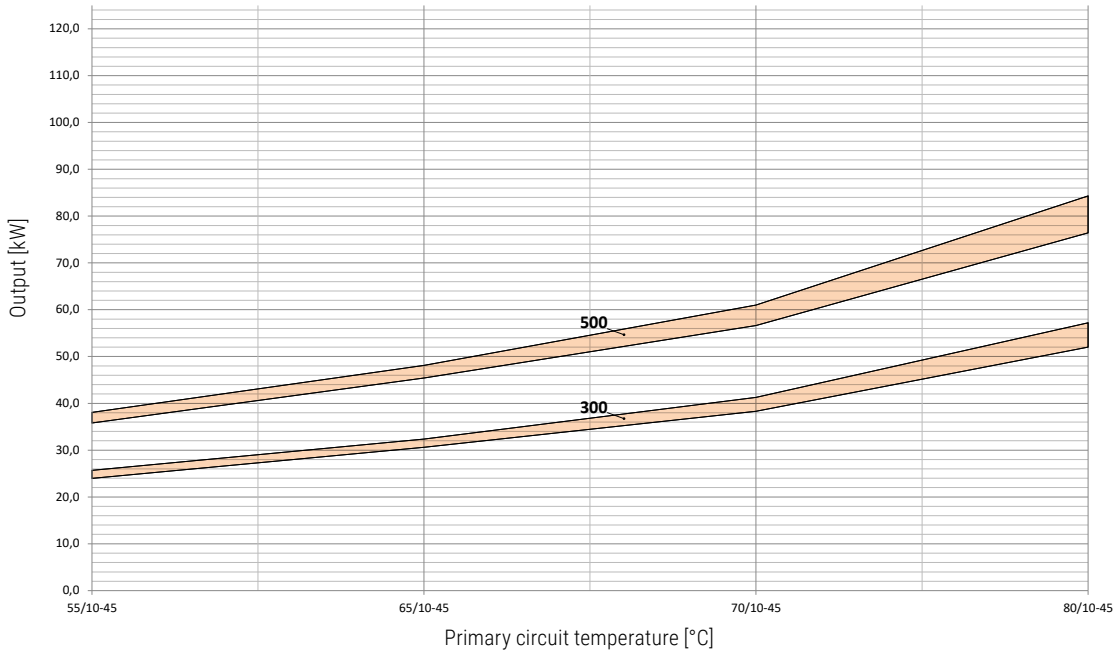
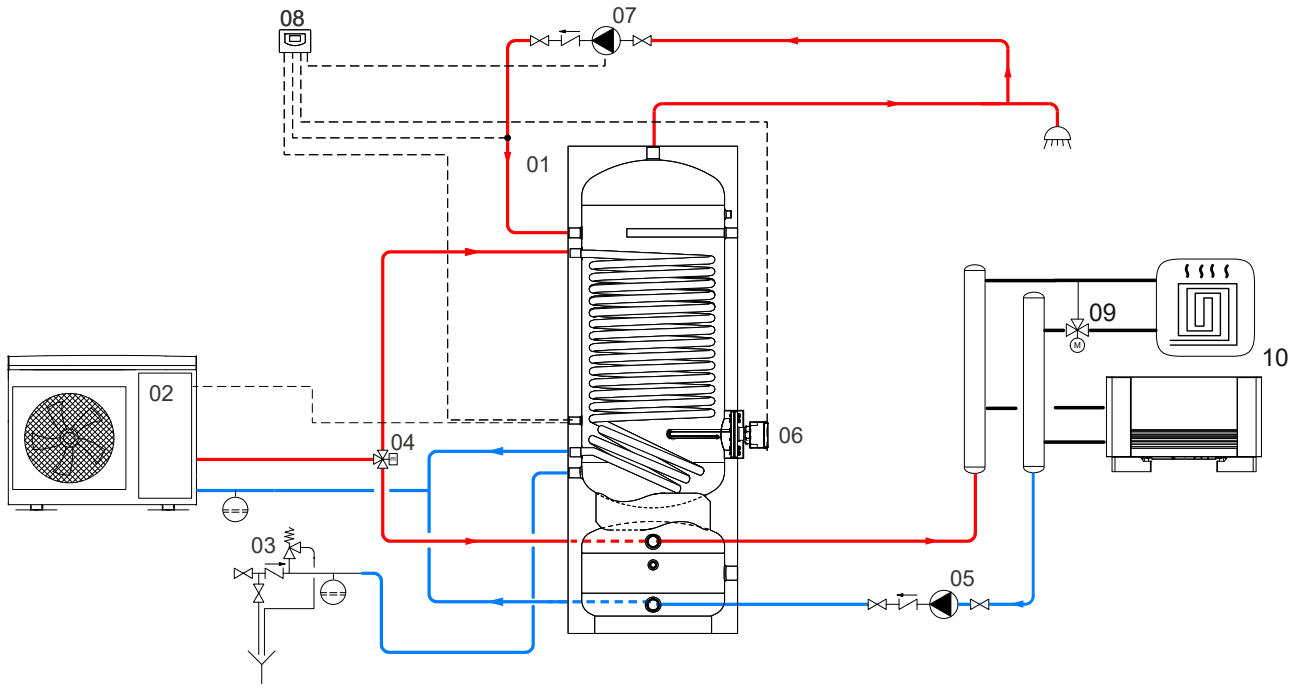
HEAT EXCHANGERS TECHNICAL DATA

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® 1 XL inox	300		500	
Flow rate [m³/h]	MAX	MIN	MAX	MIN
	3	1,5	3,5	1,75

EXAMPLE OF INSTALLATION WITH **BOLLY® 1 HY XL INOX**



01	BOLLY® 1 HY XL	04	Motorized 3-way valve	07	D.H.W. recirculation group	10	Heating units
02	Generator (Heat pump)	05	Circulation group for heating/cooling system	08	Electronic Control/thermostat		
03	Hydraulic safety group	06	Electric immersion heater	09	Thermostatic mixing valve		

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