



# DOUBLE SERPENTINE WATER HEATER



**SGF ENERGY SYSTEMS**  
Industry & Trade Corporation

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# Double Serpentine Water Heater

These water heaters, that are produced according to European Standard(EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories. They can be used also every buildings that need hot water. They are used by connecting to a boiler and a solar collector at the same time.

## Technical Features

- Capacity between 160 - 3000 lt.
- Hygienic because areas, that come into contact with water, are double enamel coated.
- 50 mm. Polyurethane insulated at the capacity between 160 - 600 lt. , special sponge insulated at the capacity between 800 - 3000 lt.
- Electrostatics powder painted cover on galvanized plate at the capacity between 160 - 600 lt. , special winlex cover at the capacity between 800 - 3000 lt.
- Cathodic protection
- High efficiency
- Electrical resistance as optional
- Esthetic appearance
- 10 bar operating pressure

## MODELS

		LIMPIA 602	600 LT
LIMPIA 162	160 LT	LIMPIA 802	800 LT
LIMPIA 202	200 LT	LIMPIA 1002	1000 LT
LIMPIA 352	350 LT	LIMPIA 1502	1500 LT
LIMPIA 502	500 LT	LIMPIA 2002	2000 LT
		LIMPIA 3002	3000 LT

## CAPACITY SCHEME

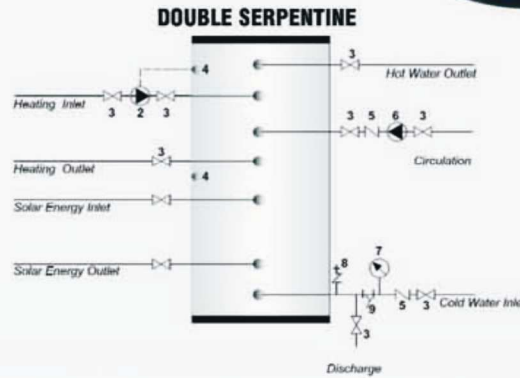
MODEL	LIMPIA 162	LIMPIA 202	LIMPIA 352	LIMPIA 502	LIMPIA 602	LIMPIA 802	LIMPIA 1002	LIMPIA 1502	LIMPIA 2002	LIMPIA 3002
CAPACITY (LT)	160	200	350	500	600	800	1000	1500	2000	3000
HOT WATER CAPACITY(LT/H)	570	735	845	1400	1400	1550	1550	1850	1850	2885

MODEL	LIMPIA 162	LIMPIA 202	LIMPIA 352	LIMPIA 502	LIMPIA 602	LIMPIA 802	LIMPIA 1002	LIMPIA 1502	LIMPIA 2002	LIMPIA 3002
CAPACITY (LT)	160	200	350	500	600	800	1000	1500	2000	3000
HOT WATER CAPACITY(LT/H)	325	400	740	778	778	945	945	1320	1320	2060

MODEL	LIMPIA 162	LIMPIA 202	LIMPIA 352	LIMPIA 502	LIMPIA 602	LIMPIA 802	LIMPIA 1002	LIMPIA 1502	LIMPIA 2002	LIMPIA 3002
CAPACITY (LT)	160	200	350	500	600	800	1000	1500	2000	3000
0,5 ATU HOT WATER CAPACITY (LT)	935	1048	1535	1960	1960	2110	2110	2980	2980	4640
1.00 ATU HOT WATER CAPACITY (LT)	1050	1455	1740	2485	2485	2690	2690	3800	3800	5910

## DIMENSION SCHEME

MODEL	LIMPIA 162	LIMPIA 202	LIMPIA 352	LIMPIA 502	LIMPIA 602	LIMPIA 802	LIMPIA 1002	LIMPIA 1502	LIMPIA 2002	LIMPIA 3002
CAPACITY (LT)	160	200	350	500	600	800	1000	1500	2000	3000
EXTERNAL CALIBER (mm)	586	586	756	756	756	910	1010	1120	1260	1460
HEIGHT (mm)	1050	1250	1270	1720	1970	2100	2130	2420	2450	2750
HEATING INLET-OUTLET	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
COLLECTOR INLET-OUTLET	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
CIRCULATION WATER INLET OUTLET	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
CIRCULATION	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
SERPENTINE SURCAFE M2 (FOR HEATING)	0,74	0,81	1,2	2,19	2,19	3,08	3,08	4,97	4,97	7m <sup>2</sup>
SERPENTINE SURCAFE M2 (Solar Collector)	0,59	0,74	1	1,39	1,39	1,54	1,54	2,18	2,18	3.4m <sup>2</sup>
NET WEIGHT (without water) (kg)	102	114	143	198	227	332	391	447	582	895 kg



## CONNECTION SCHEME

1. Water Heater
2. Circulation Pump (Boiler)
3. On/Off Valve
4. Thermostat
5. Check Valve
6. Circulation Pump (Heating System)
7. Manometer
8. Safety Relief Valve
9. Strainer

Cold Water inlet 10°C hot water outlet 45°, heating fluid inlet 80°C  
(for radiator)

Cold Water inlet 10°C hot water outlet 60°, heating fluid inlet 80°C  
(for radiator)

Cold Water inlet 10°C, and hot water outlet 45°C at steamy operation

NOTE: All capacities can be produced polyurethane insulated and electrostatics powder painted cover on galvanized plate as optional.