

Quality Solar Systems

Solar Water Heater

**EUROSTAR**  
**ECO**



**SOLE S.A. is the inventor of the closed circuit Solar Water Heater.**



### Advantages

- Maximizes efficiency
- No need for refilling the solar loop
- Best aesthetic results. Low version with hidden tank available
- Easy to install
- Minimum maintenance needed
- Anode protection

### Commitment to the Environment

Since its foundation in 1974 SOLE S.A. has been committed to the protection of the environment and the reduction of CO<sub>2</sub> emission.

**SOLE S.A. holds numerous prizes and environmental distinctions, contributing with its products to the improvement of environment in all 5 continents.**

**T**he new series of thermosiphon systems EUROSTAR ECO, have been designed in order to cope with the demands of any market all over the world specializing in very hot climates without the need for refilling the solar circuit.

The EUROSTAR ECO solar water heater is manufactured in compliance with the International Standards for Quality Assurance ISO 9001:2008, is tested according to international standards EN12976-1-2.

### SOLE S.A.

SOLAR APPLIANCES MANUFACTURER  
Lefktron 1 & Laikon Agonon, 136 71 Acharnai - Athens - Greece  
Tel.: +30210 2389500  
Fax: +30210 2389502  
Email: export@sole.gr  
www.sole.gr  
www.eurostar-solar.com



## Eurostar EcoCollector



The EUROSTAR ECO collector casing is made of specially designed extruded aluminum profile, without any external connections, screws, nuts or rivets. The Rockwool insulation will maintain very high temperatures achieving an incredibly high efficiency.

The absorber is composed of Blue Selective Aluminum fins 0,50mm thickness, welded to copper pipes with laser welding.

The thermal liquid achieves maximum transfer of heat to the water while protecting the system against scaling, rusting, freezing and overheating.

## Eurostar EcoTank



The EUROSTAR ECO tank has a mild steel external casing, with high temperature oven powder coating for maximum protection from rain, sun and salty environment, ensuring durability and an elegant appearance.

The FREON FREE polyurethane insulation is casted under pressure in the tank, surrounding the cylinder and maintaining hot water for up to 48 hours.

The new revolutionary heat exchanger of the closed circuit assures instant hot water at very high temperature. The tank is made of low carbon steel with a double "enameling" coating (glass), oven-treated at 860°C.

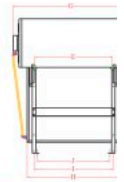
The magnesium anode effectively protects the cylinder from electrolysis. The backup electric heater ensures hot water even in very cloudy days.



### STANDARD HEIGHT

TYPE	A	B	C
80-1-5100	897	776	1228
100-1-5125	1092	940	1386
125-1-5150	1291	1107	1543
150-1-5200	1613	1377	1877
150-1-5230	1613	1377	1877
200-1-5200	1613	1377	1907
200-1-5230	1613	1377	1907
200-1-5260	1747	1489	2015
300-2-5200	1613	1377	1907
300-2-5230	1613	1377	1907

The eurostar eco is **eco-friendly** Thermosiphon solar water heater completely made from material that can be recycled.



### LOW HEIGHT DIM

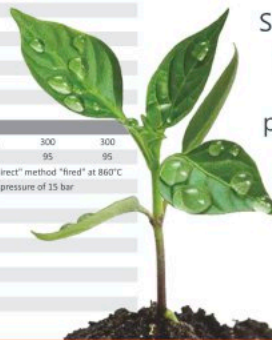
TYPE	A	B	C
150-1-5200	2147	878	1383
200-1-5230	2147	878	1413
300-2-5200	2147	878	1413

The new thermosiphon system of SOLE is

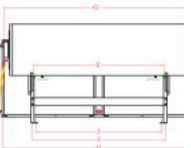
## THERMOSIPHON SYSTEMS

### EUROSTAR ECO SPECIFICATIONS

TYPE	80-1-5100	100-1-5125	125-1-5150	150-1-5200	150-1-5230	200-1-5200	200-1-5230	200-1-5260	300-2-5200	300-2-5230
<b>SOLAR COLLECTORS</b>										
NUMBER OF COLLECTORS	1	3	1	1	1	1	1	1	2	2
AREA OF COLLECTORS m <sup>2</sup>	0.99	1.23	1.48	1.88	2.28	1.88	2.28	2.64	3.76	4.56
DIMENSIONS mm	1026x660x81	1280x660x81	1540x660x81	1960x660x81	1960x1165x81	1960x660x81	1960x1165x81	2135x1238x81	1960x960x81	1960x1165x81
WEIGHT kg	20,00	22,00	24,00	29,50	35,50	29,50	35,50	40,00	59,00	71,00
FRAME	Aluminum profile. Free of screws and rivets.									
COVER	Tempered low iron prismatic glass 3.2 mm. 90,5% transmission.									
SEALING	Acrylic foam - Structural Silicon									
INSULATION	Rockwool 40mm (50kg/m <sup>3</sup> ) back and Glass wool 20 mm (30kg/m <sup>3</sup> ) sides									
ABSORBER MATERIAL	Blue Selective Aluminum fins 0,50mm thickness, welded to copper pipes with laser welding.									
ABSORPTION (α)	95% (± 0.02)									
EMISSIVITY (ε)	5% (± 0.02)									
EFFICIENCY (η)	0.763									
MAX. WORKING PRESSURE	1000kPa									
MAX. WORKING TEMPERATURE	150°C									
<b>TANK</b>										
NOMINAL CAPACITY (l)	80	100	125	150	150	200	200	200	300	300
WEIGHT EMPTY (kg)	32	41	49	55	55	61	61	61	95	95
BOILER BODY	The boiler "body" is made from USD 37.2 steel plate. The boiler is (glass) enameled with the advanced double "direct" method "fired" at 860°C									
HEAT EXCHANGER	Internal heat exchanger made from 3.0 mm EN-10219 steel certified for testing pressure at 22,5 bar & operating pressure of 15 bar									
INSULATION	Freon free Polyurethane 40-50mm (40kg/m <sup>3</sup> ) casted under pressure.									
EXTERNAL COVER	Steel sheet galvanized, powder coated, oven treated RAL 9006.									
ANODE PROTECTION	Magnesium rod									
MAX. WORKING PRESSURE	10 bar									
MAX. WORKING TEMP. OF SOLAR CIRCUIT	150°C									
MAX. WORKING PRESS. OF SOLAR CIRCUIT	15 bar									
TEST PRESSURE OF SOLAR CIRCUIT	22,5 bar									



SOLE's respect for the environment starts at the production stage.



### EXTRA LOW HEIGHT

TYPE	A	B	C
150-1-5200	2231	480	988
200-1-5230	2231	480	1018
300-2-5200	2231	480	1018

