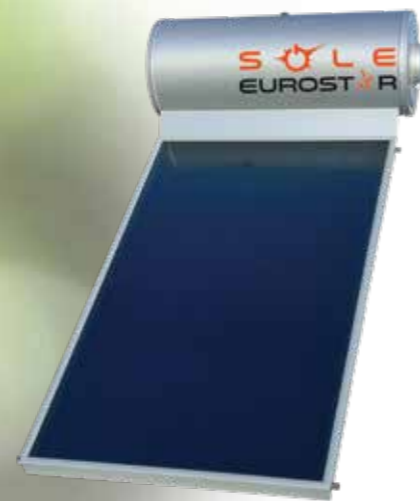


Commitment to the environment since 1974.

Quality Solar Systems

**SOLE**  
SOLAR SYSTEMS MANUFACTURER



### Advantages

- Maximizes efficiency
- Best aesthetic results
- Fast and easy installation in flat and tile roofs
- Minimum maintenance needed
- Long durability

### 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 CO2 emission.

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

Solar Water Heater

**SOLE**  
**EUROSTAR**

The market pioneer thermosiphon system EUROSTAR, has been designed to maximize efficiency with the best aesthetic results.



The EUROSTAR solar water heater is manufactured in compliance with the International Standards for Quality Assurance ISO 9001:2015, is tested according to international standards EN 12976-1-2 and it is certified by the Solar Keymark scheme.

The collector's performance and reliability is tested according to ISO 9806:2013 EN 12975-2.

**SOLE S.A.**

SOLAR APPLIANCES MANUFACTURER

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www.eurostar-solar.com

# Thermosiphon systems Eurostar

EUROSTAR an innovation among solar water heaters, created with high tech engineering and respect for the environment. The concept of EUROSTAR's design has always been to create an environmentally safe, super-efficient and reliable solar water heater that is durable and easy to install. The EUROSTAR, a pioneer in the international market, is a solar water heater that has been designed in an aesthetic manner, in order to produce hot water for many years.

## Collector



The EUROSTAR's collector casing is made of specially designed extruded aluminum profile powder coated, without any external connections, screws, nuts or rivets. Its unique design of rubber sealing makes it 100% watertight. At the same time the powerful support system will resist any weather conditions even typhoons. The rockwool 40mm (50kg/m<sup>3</sup>) insulation of the collector back and sides, will maintain very high temperatures, which along with the other

technical characteristics, achieve an incredible high efficiency.

The absorber is composed of an aluminum sheet with blue super selective coating of 0.50mm thickness and is welded to the copper pipes by laser welding.

The primary thermal liquid achieves maximum transfer of heat to the water in the tank and at the same time protects the collector from scaling, rusting, freezing and overheating. The EUROSTAR's "heliothermic liquid" will last for many years without needing to be replaced. The collector's glazing is 3.2 mm low iron solar prismatic tempered glass, having more than 91% transmission which ensures maximum penetration of irradiation.

## SPECIFICATIONS

### THERMOSIPHON SYSTEMS EUROSTAR

TYPE	120-1-200	150-1-200	150-1-250	200-1-250	200-1-270	200-2-175	200-2-200	300-2-200	300-2-250
<b>COLLECTOR</b>									
Number of Collectors	1	1	1	1	1	2	2	2	2
Area of Collectors m <sup>2</sup>	1.91	1.91	2.31	2.31	2.68	2x1.76	2x1.91	2x1.91	2x2.31
Dimensions mm	1970x970x86	1970x970x86	1970x1175x86	1970x1175x86	2145x1248x86	1760x1000x86	1970x970x86	1970x970x86	1970x1175x86
Weight Kg	41	41	49	49	55	2x38	2x41	2x41	2x49

#### TECHNICAL CHARACTERISTICS

<b>FRAME</b>	Aluminum profile. Free of screws and rivets.
<b>COVER</b>	Tempered low iron prismatic glass 3.2 mm. 96,1% transmission.
<b>INSULATION</b>	Rockwool 40mm (50kg/m <sup>3</sup> ) back and Glass wool 20 mm (30kg/m <sup>3</sup> ) sides
<b>ABSORBER MATERIAL</b>	Blue Selective Aluminum fins 0.40mm thickness, welded to copper pipes with laser welding.
<b>ABSORPTION (α)</b>	95% (± 0.02)
<b>EMISSION (ε)</b>	5% (± 0.02)
<b>MAX. WORKING TEMPERATURE</b>	150°C

TYPE	120	150	150	200	200	200	200	300	300
<b>TANK</b>									
Nominal Capacity (L)	120ltr	150ltr	150ltr	200ltr	200ltr	200ltr	200ltr	300ltr	300ltr
Dimensions	1070mm x Ø500	1210mm x Ø500	1210mm x Ø500	1270mm x Ø550	1270mm x Ø550	1270mm x Ø550	1270mm x Ø550	1870mm x Ø550	1870mm x Ø550
Weight Empty (Kg)	53	59	59	67	67	67	67	106	106

#### TECHNICAL CHARACTERISTICS

<b>BOILER BODY</b>	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
<b>HEAT EXCHANGER</b>	Double jacket made of mild steel.
<b>INSULATION</b>	Freon free Polyurethane 30-50mm (48kg/m <sup>3</sup> ) casted under pressure
<b>EXTERNAL COVER</b>	Steel sheet galvanized, powder coated, oven treated RAL 9006
<b>ANODE PROTECTION</b>	Magnesium rod
<b>SAFETY VALVE</b>	2.5bar
<b>MAX. WORKING PRESSURE</b>	10bar
<b>MAX. WORKING TEMP. OF SOLAR CIRCUIT</b>	150°C

## Solar Water Heaters



EUROSTAR's tank has a mild steel external casing, with high temperature oven coating for maximum protection from rain, sun and sea air, ensuring durability and an elegant appearance. FREON FREE polyurethane insulation

is casted under pressure in the tank, surrounding the cylinder and maintaining hot water for up to 48 hours. The EUROSTAR is the ECO-FRIENDLY thermosiphon solar water heater completely made from material that can be recycled. SOLE's respect for the environment starts at the production stage.

The closed circuit double jacket is made of mild steel; the large area where heat is exchanged makes the EUROSTAR an instant solar water heater. At the same time this protects the product from corrosion, scale and frost. Due to its design the EUROSTAR is operating in very hot climates, extremely cold areas with temperatures below zero or even in areas with poor water quality. In all cases it will be as efficient and reliable.

The tank is made of low carbon steel with a double "enameling" coating (glass), oven-treated at 860C. EUROSTAR solar water heaters can withstand water pressure of up to 3,000 Kpa (30At or 440psi), ensuring a trouble free operation for many years.

The pure magnesium anode effectively protects the cylinder from electrolysis. Very cloudy days are no problem for the EUROSTAR. Plenty of hot water thanks to the backup electric heater.

The thermostat with thermal cut out safety feature regulates the desired temperature of the hot water, with precision.

## Support



Special blind rivet nuts on the back of the aluminum profile allow easy installation. Tiled roofs: the EUROSTAR's special accessories eliminate the necessity to break or drill holes into the roof.

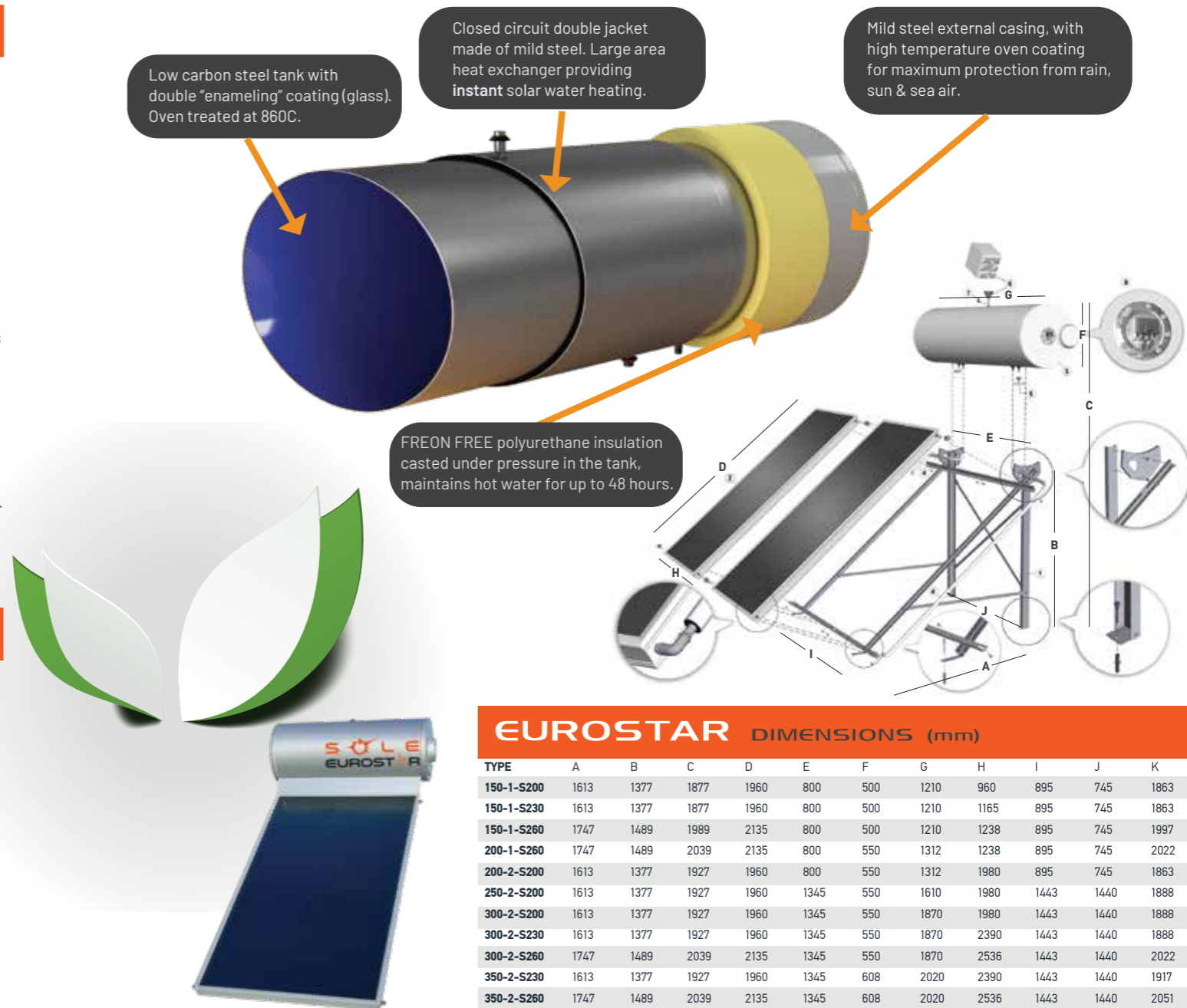
Flat roofs: the complete set of supports makes installation on flat roofs just as simple. This aesthetic feature once more proves the superiority of the EUROSTAR's design.

Low carbon steel tank with double "enameling" coating (glass). Oven treated at 860C.

Closed circuit double jacket made of mild steel. Large area heat exchanger providing instant solar water heating.

Mild steel external casing, with high temperature oven coating for maximum protection from rain, sun & sea air.

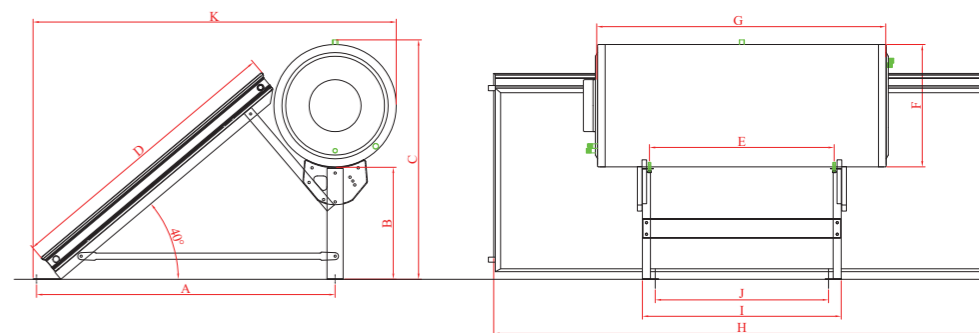
FREON FREE polyurethane insulation casted under pressure in the tank, maintains hot water for up to 48 hours.



## EUROSTAR DIMENSIONS (mm)

TYPE	A	B	C	D	E	F	G	H	I	J	K
150-1-S200	1613	1377	1877	1960	800	500	1210	960	895	745	1863
150-1-S230	1613	1377	1877	1960	800	500	1210	1165	895	745	1863
150-1-S260	1747	1489	1989	2135	800	500	1210	1238	895	745	1997
200-1-S260	1747	1489	2039	2135	800	550	1312	1238	895	745	2022
200-2-S200	1613	1377	1927	1960	800	550	1312	1980	895	745	1863
250-2-S200	1613	1377	1927	1960	1345	550	1610	1980	1443	1440	1888
300-2-S200	1613	1377	1927	1960	1345	550	1870	1980	1443	1440	1888
300-2-S230	1613	1377	1927	1960	1345	550	1870	2390	1443	1440	1888
300-2-S260	1747	1489	2039	2135	1345	550	1870	2536	1443	1440	2022
350-2-S230	1613	1377	1927	1960	1345	608	2020	2390	1443	1440	1917
350-2-S260	1747	1489	2039	2135	1345	608	2020	2536	1443	1440	2051
400-2-S230	1613	1377	1927	1960	1345	608	2020	2390	1443	1440	1997
400-2-S260	1747	1489	2039	2135	1345	608	2020	2536	1443	1440	2051

## EUROSTAR FINO Solar Low Height Kits



## EUROSTAR FINO DIMENSIONS (mm)

TYPE	A	B	C	D	E	F	G	H	I	J	K
150-1-250	1310	480	1005	1175	800	500	1344	1970	861	751	1558
200-1-270	1310	480	1037	1248	800	550	1210	2145	861	751	1573
300-2-200 (30°)	2082	708	1266	1970	1345	550	1870	2010	1404	1294	2362
300-2-200 (40°)	1885	878	1436	1970	1345	550	1870	2010	1404	1294	2165

The discrete thermosiphon system of SOLE, Eurostar Fino pioneering solar water heaters with high efficiency and long durability. Available in 150, 200 and 300 liters is the only thermosiphon system that does not exceed 1 meter height.

