

Solar Water Heater



Durable

withstanding 22,5 bar pressure!!!

Discrete

with a low version (hidden tank) for preserving architectural designs.

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.

The collector's performance and reliability is tested according to EN 12975-2. The system has been granted with the Solar Keymark Certificate.















Eurostar **Eco**Collector



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 **Eco**Tank



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), oventreated at 860°C.

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



The eurostar eco is ecosolar water heater comp that can be recycled.

I HERMUSIF	'HUI	N SY:	コロい	/15							
EUROSTAR ECO SPECIFIC	CATIONS										
ТҮРЕ	150-1-S200	150-1-S230	200-1-S200	200-1-S230	250-1-S260	300-2-S200	300-2-S230	350-2-S230	400-2-S26	0	
SOLAR COLLECTORS											
NUMBER OF COLLECTORS	1	1	1	1	1	2	2	2	2		
AREA OF COLLECTORS m ²	1.88	2.28	1.88	2.28	2.64	3.76	4.56	4.56	4.56		
DIMENSIONS mm	1960x960x81	1960x1165x81	1960x960x81	1960x1165x81	1960x1165x81	1960x960x81	1960x1165x81	1960x1165x81	1960x1165x	31	
WEIGHT kg	29,50	35,50	29.50	35.50	40.00	59.00	71.00	71.00	71.00		
FRAME	Aluminum pr	Aluminum profile. Free of screws and rivets.									
COVER	Tempered lov	Tempered low iron prismatic glass 3.2 mm. 90,5% transmission.									
SEALING	Acrylic foam	Acrylic foam - Structural Silicon									
INSULATION	Rockwool 40	mm (50kg/m³)	back and Glass	wool 20 mm (3	30kg/m³) sides			100	ALCOHOL: NO		
ABSORBER MATERIAL	Blue Selective	e Aluminum fin	s 0,50mm thic	kness, welded t	o copper pipes	with laser wel	ding.	8	2 10	-	
ABSORPTION (α)	95% (± 0.02)							8	A COM	TO .	
EMISSIVITY (ε)	5% (± 0.02)							,	- TO 1		
EFFICIENCY (η₀)	0.763								ALC: N	2.11	
MAX. WORKING PRESSURE	1000kPa								1		
MAX. WORKING TEMPERATURE	150°C								0	-	
				TANK						1	
NOMINAL CAPACITY (lt)	80	100	125	150	150	200	200	200	300	300	
WEIGHT EMPTY (kg)	32	41	49	55	55	61	61	61	95	95	

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/m3) casted under pressure. EXTERNAL COVER Steel sheet galvanized, powder coated, oven treated RAL 9006

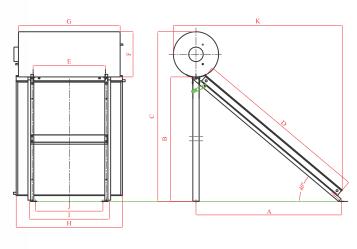
ANODE PROTECTION Magnesium rod

MAX. WORKING PRESSURE 10 bar

MAX. WORKING TEMP. OF SOLAR CIRCUIT MAX. WORKING PRESS. OF SOLAR CIRCUIT 15 bar

TEST PRESSURE OF SOLAR CIRCUIT 22,5 bar





STANE	DARD	HEIC	5HT	DIME	ENSI	ONS	mm	۱.			
TYPE	Α	В	С	D	E	F	G	Н	ı	J	К
150-1-S200	2100	1377	1877	1960	800	500	1100	960	895	745	1868
150-1-S230	2100	1377	1877	1960	800	500	1100	1165	895	745	1868
200-1-S200	2100	1377	1907	1960	980	500	1150	960	895	745	1883
200-1-S230	2100	1377	1907	1960	980	500	1150	1165	895	745	1883
250-1-S230	2100	1489	2019	2135	980	500	1550	1238	895	745	2017
300-2-S200	2100	1377	1907	1960	980	500	1855	1980	1439	1289	1883
300-2-S230	2100	1377	1907	1960	980	500	1855	2390	1439	1289	1883
350-2-S230	2100	1377	1907	1960	1345	530	2100	2390	1439	1289	1883
400-2-S260	2100	1377	1907	1960	1345	530	2400	2450	1439	1289	1883

friendly Thermosiphon letely made from material



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

HEAT EXC. RAW MATERIAL	TANK INNER RAW MATERIAL	TANK JACKET RAW MATERIAL
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2
SS 316L / Glass Lined Steel	SS 316L / GLASS LINED	SS 316L/ GI STEEL STD 37-2





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 CO₂ emission.

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

SOLE S.A.

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EUROST R

Solar Water Heater



he 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.













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/m3) insulation of the collector back and sides, will maintain very high temperatures, which along with the other technical

INSULATION Freon free Polyurethane 40-50mm (48kg/m3) casted under pressure

Magnesium rod

Steel sheet galvanized, powder coated, oven treated RAL 9006

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% transmition which ensures maximum penetration of irradiation.

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.

SPECIFICATIONS

HEAT EXCHANGER

EXTERNAL COVER

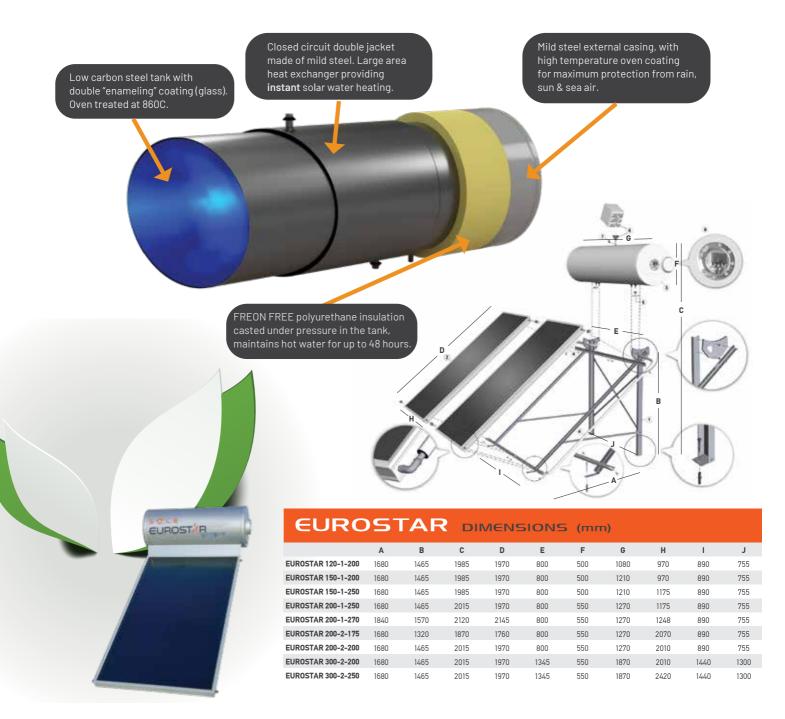
SAFETY VALVE
MAX. WORKING PRESSURE

ANODE PROTECTION

MAX. WORKING TEMP. OF SOLAR CIRCUIT

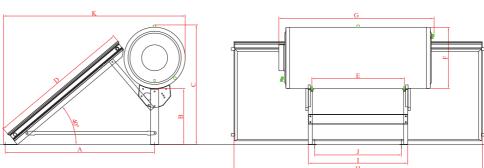
THERMOSIPHON SYSTEMS EUROSTAR													
ТҮРЕ	120-1-200	150-1-200	150-1-250	200-1-250	200-1-270	200-2-175	200-2-200	300-2-200	300-2-250				
COLLECTOR													
Number of Collectors	1	1	1	1	1	2	2	2	2				
Area of Collectors m ²	1,91	1,91	2,31	2,31	2,68	2x1,76	2x1,91	2x1,91	2x2,31				
Dimensions mm	1970x970x86	1970x970x86	1970x1175x86	1970x1175x86	2145x1248x86	1760×1000×86	1970x970x86	1970x970x86	1970x1175x86				
Weight Kg	41	41	49	49	55	2x38	2x41	2x41	2x49				
TECHNICAL CHARATERISTICS													
FRAME	Aluminum profile. Free of screws and rivets.												
COVER	Tempered low iron prismatic glass 3.2 mm. 96.1% transmission.												
INSULATION	Rockwool 40mm (50kg/m3) back and Glass wool 20 mm (30kg/m3) sides												
ABSORBER MATERIAL	Blue Selective Alu	Blue Selective Aluminum fins 0,40mm thickness, welded to copper pipes with laser welding.											
ABSORPTION (a)	95% (± 0.02)												
EMISSIVITY (ε)	5% (± 0.02)												
MAX. WORKING TEMPERATURE	150°C												
TYPE	120	150	150	200	200	200	200	300	300				
			TA	NK									
Nominal Capacity (Lt)	120ltr	150ltr	150ltr	200ltr	200ltr	200ltr	200ltr	300ltr	300ltr				
Dimensions	1070mm x Ø500	1320mm x Ø500	1320mm x Ø500	1320mm x Ø530	1320mm x Ø530	1320mm x Ø530	1320mm x Ø530	2080mm x Ø530	2080mm x Ø530				
Weight Empty (Kg)	53	59	59	67	67	67	67	106	106				
			TECHNICAL CH	ARATERISTICS									

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



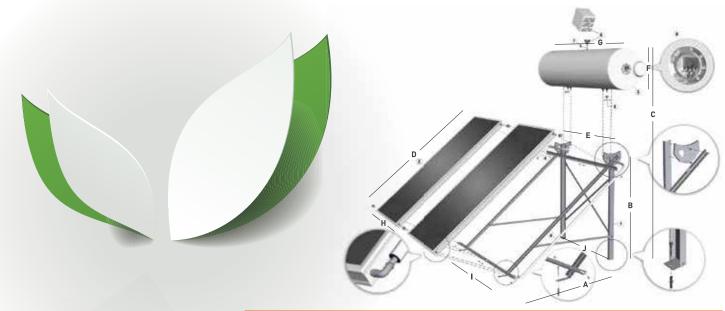
EUROSTAR FINO Solar Low Height Kits





€UR	os	TA	R	FIN	10	DIM	ENSI	ONS	(mm))	
TYPE	Α	В	С	D	E	F	G	Н	- 1	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





EURC)S	TAR	DI	IMENS	ION	5 (mn	٦)			
	Α	В	С	D	E	F	G	Н	I	J
EUROSTAR 120-1-200	1680	1465	1985	1970	800	500	1010	970	890	755
EUROSTAR 150-1-200	1680	1465	1985	1970	800	500	1260	970	890	755
EUROSTAR 150-1-250	1680	1465	1985	1970	800	500	1260	1175	890	755
EUROSTAR 200-1-250	1680	1465	2015	1970	800	530	1260	1175	890	755
EUROSTAR 200-1-270	1840	1570	2120	2145	800	530	1260	1248	890	755
EUROSTAR 200-2-175	1680	1320	1870	1760	800	530	1260	2070	890	755
EUROSTAR 200-2-200	1680	1465	2015	1970	800	530	1260	2010	890	755
EUROSTAR 300-2-200	1680	1465	2015	1970	1345	530	2010	2010	1440	1300
EUROSTAR 300-2-250	1680	1465	2015	1970	1345	530	2010	2420	1440	1300





























Solar Water Heating Systems





SOLE S.A. is a pioneer in large centralized systems since 1974



Advantages

- Maximizes efficiency
- Rapid Heating
- Best aesthetic results
- Easy to install
- Compatible with all types of auxiliary heating
- 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 environment in all 5 continents.

FORCED CIRCULATION KITS

Durable

Withstanding 22,5 bar pressure!!!

FOR HOT WATER PRODUCTION BY SOLAR ENERGY

he new series of Forced Circulation Kits, have been designed in order to cope with the demands of any market all over the world, specializing in any application where hot water is demanded.





















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EcoCollector



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

The absorber is composed of Blue Selective Aluminum fins of 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 Floor Standing Tank



The EUROSTAR Floor Standing tank is made of low carbon steel with a double "enamelling" coating (glass), oven treated at 860°C.

The FREON FREE high density polyurethane insulation maintains hot water for many days.

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

SOLE's Solar Systems are manufactured in compliance with the International Standards for Quality Assurance ISO 9001:2015.

Solar Station Pump Control Unit

Expansion Tank

The collector's performance and reliability is tested according to EN 12975-2 and has been granted with the Solar Keymark Certificate and TÜV Certificate for max pressure of 22,5 bar.

CTCM CDCCICICATIONS

SYSTEM	SPE	CIF	-IC/	\mathbf{A} I	IUI	<i>1</i> 5							
SOLAR COLLECTORS													
TYPE	S100	S125	5	S15	50		S200		S230		S260		
AREA OF COLLECTOR m ²	0.99	1.23		1.48	8		1.88		2.28		2.64		
DIMENSIONS mm	1026x960x81	1280	x960x81	154	40x960x81		1960x960x81		1960x1165x81		2135x1238	c81	
WEIGHT kg	20,00	22,0	0	24,	.00		29,50		35,50		40.00		
FRAME	Aluminum profile. Fr	Aluminum profile. Free of screws and rivets.											
COVER	Tempered low iron p	empered low iron prismatic glass 3.2 mm. 90,5% transmission.											
SEALING	Acrylic foam – Struc	crylic foam – Structural Silicon											
INSULATION	Rockwool 40mm (50	ockwool 40mm (50kg/m³) back and Glass wool 20 mm (30kg/m³) sides											
ABSORBER MATERIAL	Blue Selective Alumi	Blue Selective Aluminum fins 0,50mm thickness, welded to copper pipes with laser welding.											
ABSORPTION (α)	95% (± 0.02)	95% (± 0.02)											
EMISSIVITY (ε)	5% (± 0.02)	5% (± 0.02)											
EFFICIENCY (no)	0.763	0.763											
MAX. TEST PRESSURE	2250kPa (22,5 bar)									•		基語	
MAX. WORKING PRESSURE	1500kPa (15 bar)										100	100	
STAGNATION TEMPERATURE	164°C										100	· 1	
		FLOOR	STANDING '	TANKS BL1	I / BL2 / C	BL1 / CBL	2					-	
TYPE BL1/BL2/CBL1/CBL2	160 200	300	400	500	800	1000	1500	2000	2500	3000	4000	5000	
NOMINAL CAPACITY (It)	160 200	300	400	500	800	1000	1500	2000	2500	3000	4000	5000	
WEIGHT EMPTY (kg) BL1	54 65	92	137	145	215	233	325	442	-	552	576	699	
WEIGHT EMPTY (kg) BL2	66 70	100	146	158	220	279	365	486	-	567	593	720	
BOILER BODY	The boiler "body" is n for tanks up to 2000li				-	amelled with	the advanced o	louble "direc	t" method "fired"	at 860°C		100	
HEAT EXCHANGER	Internal heat exchan	ger made fro	m Enamelled S	Steel or coppe	er (depending	on the size)	. Stainless steel	heat exchai	nger also availab	le.	6		
INSULATION	Freon free Polyureth	ane 50-100m	m (40kg/m3) c	asted under p	pressure or f	lexible (tank	s larger than 50	Oltr).	-				
EXTERNAL COVER	Coloured PVC flexible												



Including: Pressure Regulator Support Frames Set of Fittings and Accessories Thermal Liquid Automatic Air Vents Sensor Pockets Sensors

Hot Water Outlet

Solar Collectors

Hot Water Storage Tank(S)

Solar Collectors -**Expansion Tank** Solar Station Pump Control Unit

FORCED CIRCULATION KITS

MODEL	STORAGE TANK	COLLECTOR	PRESSURE REGULATOR	SOLAR STATION (PUMP CONTROL UNIT)	EXPANSION TANK	SUPPORT FRAME	SET OF FITTING ACCESSORIES	THERMAL LIQUID
FCK 200	FCK 200	2 x ECO S260	1	1	1	1	1	2
FCK 300	FCK 300	3 x ECO S260	1	1	1	2	1	2
FCK 500	FCK 500	4 x ECO S260	1	1	1	2	1	3
FCK 800	FCK 800	5 x ECO S260	1	1	1	3	1	4
FCK 1000	FCK 1000	6 x ECO S260	1	1	1	3	1	4

Systems with tanks including two heat exchangers are available. Larger projects are designed upon request.







Hot Water

Storage Tank





PHOTONIO, GREECE

HAMDAN SPORTS COMPLEX, DUBAI

ANODE PROTECTION Magnesium rod. MAX. WORKING PRESSURE 6-10 bar upon request.

BL2 = Storage tank with 2 heat exchangers Optional electric element 2-24kW

DATA, DESCRIPTIONS, TECHNICAL CARACTERISTICS AND ACCESSORIES ARE ONLY INDICATIVE, NOT BINDING AND CAN BE SUBJECTED TO VARIATIONS