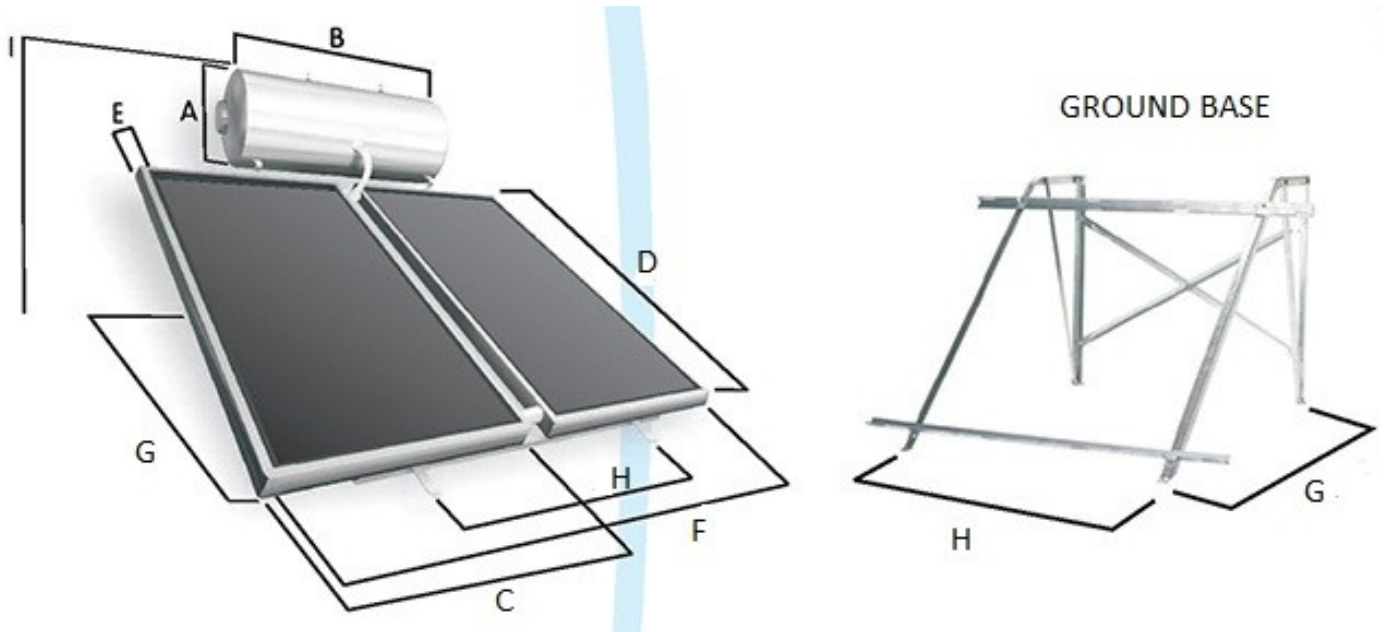


TECHNICAL SPECIFICATIONS OF SK SOLAR THERMOSIPHON



SK SOLAR THERMOSIPHON TECHNICAL CHARACTERISTICS



MODEL	NUMBER OF COLLECTORS	TOTAL SURFACE	A	B	C	D	E	F	G	H	I
SKGL 120/2,10	1	2,09	500	1120	1020	2045	90	1020	1865	860	2020
SKGL 160/2,60	1	2,56	500	1300	1250	2045	90	1250	1865	1080	2020
SKGL 160/3,20	2	3,16	500	1300	1020	1545	90	2140	1865	1080	2020
SKGL 200/3,20	2	3,16	580	1320	1020	1545	90	2140	1865	1080	2130
SKGL 200/4,20	2	4,18	580	1320	1020	2045	90	2140	1865	1080	2130
SKGL 300/4,20	2	4,18	580	1820	1020	2045	90	2140	1865	1080	2130



Solar Collector's Technical Specifications

Selective titanium absorber

with a special coating in vacuum, high absorption and low emission increasing the absorption capacity of the collector, welded with the new laser technology for direct transfer of heat to the thermal liquid.

Rear collector insulation made of 30mm thick rock wool with thermal conductivity $\lambda = 0.035 \text{ W / m grd}$ (measurement at 0° C)

Lateral insulation 20mm thick fiberglass collector

Unbreakable safety glass

(security) 4mm thick with a constant permeability coefficient $\tau > 0,90$ low iron oxide content (Low iron) and a constant expansion coefficient, resistant to adverse weather conditions

One-piece solar panel frame of high-strength shipbuilding aluminum

Attribute	Description
Absorber	titanium selective, laser welded.
Absorption coefficient	of the selective surface: $\alpha = 0,95$
Copper pipe headers	$\varnothing = 22 \text{ mm}$
Copper pipe risers	8mm thick
Glass cover	low iron prismatic tempered 3,2 mm thick
Transmissivity	$\tau = 0,93$
Rear insulation	rock-wall 30 mm thick with $\lambda = 0.035 \text{ W/m grd}$ (on 0°C)
Sealing materials	P.U. mastic, black silicone and EPDM rubber Limitations
Stagnation temperature	146 $^\circ \text{C}$ (selective) Maximum operational temperature
Maximum proposed working pressure	10 bars / 1000kpa





CS Solar Water Heater Tank Technical Specifications

Attribute	Description
Interior	low carbon steel 2.5 mm thick, double enameled at 860 °C (DIN 4753/T3) double coating of 1.5 micro.
Heat exchanger	jacket (mantel) type of the above material, 1,5 mm thick, with wide exchange surface. The mantel surrounds the inner tank offering a better distribution of the thermal fluid and thus a better exchange.
Heat exchanger outlets	bronze F ¼''
Cylinder's outlets	bronze M ½ ''
Safety valves outlet	bronze F ½''
Patented diffusers	ENERGON® : one in the inlet of the jacket (mantel) forcing the thermal fluid coming from the collectors to be distributed in the mantel, another one in the cold water inlet of the inner tank, distributing the water coming from the water supply of the house throughout the tank, offering this way a better stratification. Practically, we have a slow reduction of the temperature of the water when used.
Insulation	expanded P.U. (52 kgr/m ³) 50 mm thick, CFC free.
P.U. thermal conductivity	0,0180 W/mK
Outer cover	aluminum, oven painting treatment, Seaside Class, for extra protection.
Side covers	aluminum, oven painting treatment, Seaside Class.
Protection against electrolysis (cathodic protection)	replaceable magnesium rod Ø 22 mm, L = 500 mm.
Inspection flange / Electrical heating element	Ø 140mm



TECHNICAL CHARACTERISTICS OF CS ENAMELED WATER HEATER TANKS

WATER HEATER TANK TYPE	DIMENSIONS DIAMETER/ LENGTH (B)	G	ENERGY LABEL	TANK'S VOLUME	JACKET'S VOLUME	TOTAL VOLUME	WEIGHT
	mm	mm		Liters	Liters	Liters	kg
120	500/1120	920	B	115	8,25	123,25	53
150	500/1280	920	B	140	11,20	151,20	64
160							
200	580/1280	1100	B	189	12,10	201,10	70
300	580/1930	1370	C	295	23	318	110

