

solitaire



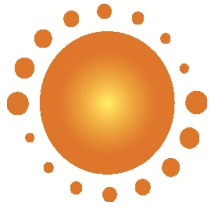
Pioneers in Solar Water Heating & Best After Sales Service in UAE

SOLAR WATER HEATING SYSTEMS



Made in Europe 100%





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solitairesolar® TS series - open circuit system

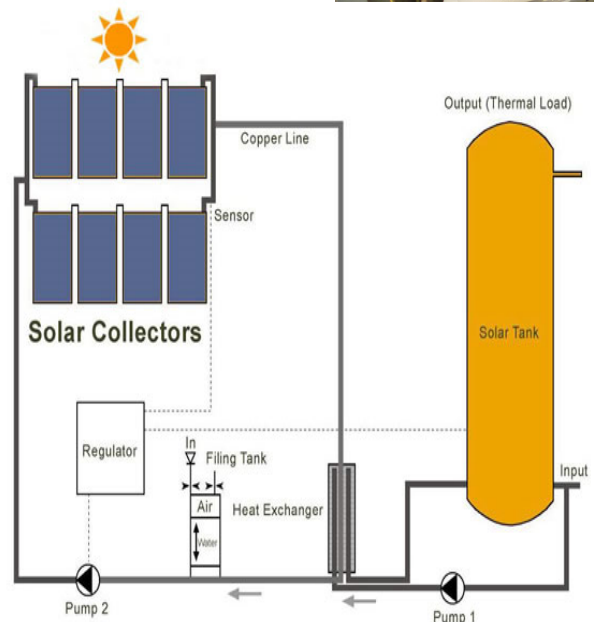
designed, manufactured and assembled particularly for the weather and water conditions of the MENA region, complete and compact close coupled flat or pitched on-roof Thermosiphon system is a natural heating system where the storage tank and solar collectors are mounted on the roof as a unit with no moving parts resulting in low maintenance, open circuit where water to be heated is circulated in the system by thermosiphon principle of natural convection whereby water heated in the solar collector panels rises up into the storage tank and is replaced by cold water from the water main supply in a continues cycle, simple, stylish and innovative model, unmatched quality standards and performance efficiency, first and only solar water heating system tested and certified by the Dubai Municipality Laboratory (DCL) and ESMA, ruggedly built to handle the harshness and extremes of any environment that guarantees long service life and durability,

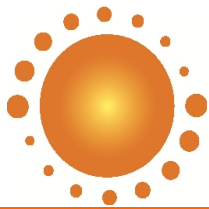


solitairesolar® AS series - closed circuit split system

Active Systems also known as Split Systems which are usually installed when visual impact is to be kept to a minimum or the roof structure is not able to hold a tank or the requirement is for a large volume storage tank used in commercial/industrial premises,

High efficiency solar water heaters with roof mounted collectors and ground / roof standing vertical storage tanks, designed for poor water quality and frost-prone areas, designed to use special solar transfer fluid which is circulated through the system by a pump which transfers the heat to the water that is required to be heated via a heat exchange module/system in the storage tank, available from 300 Litre to 5,000 Litre storage tank sizes, a combination of cutting edge technology and high level of Innovation, with high performance and maximum efficiency, a life time investment with maximum annual savings over 25 years and an average short payback period of 3 years, with a significant reduction in heating costs and, at the same time, an increase in heating comfort, the most economical and efficient water heating system.





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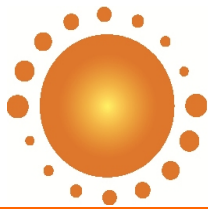


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Hot Water Storage Tank - Solitairesolar® TS / Close Coupled / On Roof / Open Circuit		
Storage Volume	200 Liters	300 Liters
Outer Tank Size (mm)	Φ 530 x 1320L	Φ 525 x 2175L
Outer Tank Material	0.5mm Zinc Aluminium Sheet	
Inner Tank Size (mm)	Φ 483 x 1038L	Φ 483 x 2076L
Inner Tank Material	2mm BTC 340R Mild Steel - Low Carbon - Enamel Grade	
Inner Tank Lining	Porcelain Enamel	
Insulation	45mm High Density CFC Free Poly-Urethane	
Corrosion Protection	20 mm Magnesium Anode Stick	
Weight Empty	65 kg (+/- 10%)	110 kg (+/- 10%)
Weight Full	265 kg (+/- 10%)	410 kg (+/- 10%)
Booster Element	220 – 250 Volt ac, 50 – 60 hz 1.8, 2.4, 3.0 or 4kW	
Thermostat	Probe Type – Adjustable (30°C – 80°C)	
Electrical Connection	3-4kw / 220-240 V / 50 Hz	
Max Working Pressure	600 kPa Pressurized	
P&T Safety Relief Valve	Copper - 600 kPa - 95°C	
Copper Connection	G ¾” BSP Internal Thread to Φ 22	
Inlet/Outlet/Circulation Pipe	G ¾” BSP External Thread	
Typical Number of Collectors	1	2

Hot Water Storage Tank - Solitairesolar® AS / Split System / Closed Circuit								
Capacity Litres	500	750	1000	1250	1500	2000	2500	3000

Collector Panel - Universal Solitairesolar® Flat Plate Pressurized	
Gross Area	2.03 m ²
Aperture Area	1.84 m ²
Absorber Area	1.73 m ²
Riser Tubes Spec.(mm) & Qty	Copper Φ10*δ 0.5 , 8-10 pcs Round Shape
Header Tubes Spec.(mm) & Qty	Copper Φ22*δ 0.6 , 2 pcs
Absorber Spec.(mm) & Qty	A unique sheet with selective titanium coating with ultrasonic weldings
Absorption / Emission	95% / <5%
Max Working Pressure	0.8Mpa
Spectrum Absorber Coating	Selective Black Chromed/ Titanium
Insulation Material / Thermal Conductivity	50 mm Fibre Glass / 0.048W/(m.K)
Frame / Sealing Gasket	δ 1.3mm Anodized Aluminium Alloy / EPDM
Glass Cover	92% Transmittance, 3-4 mm Low Iron Tempered Textured
Back Plate	δ 0.4 mm Galvanized Zinc Aluminium Plate
Fluid Volume (Litres)	1.2 L
Weight - Empty / Full (kg)	48Kgs
Net Dimension (mm)	2000 x 1000 x 95



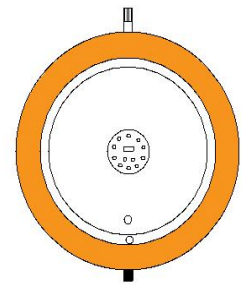
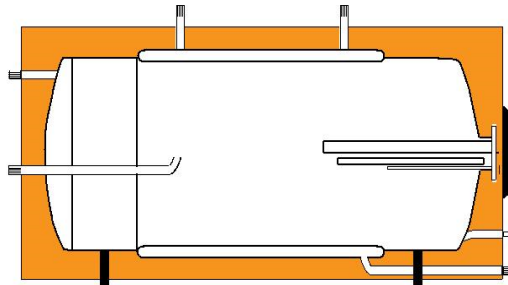
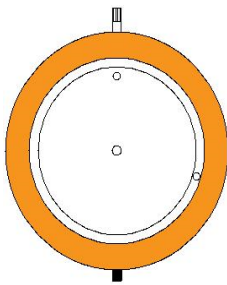
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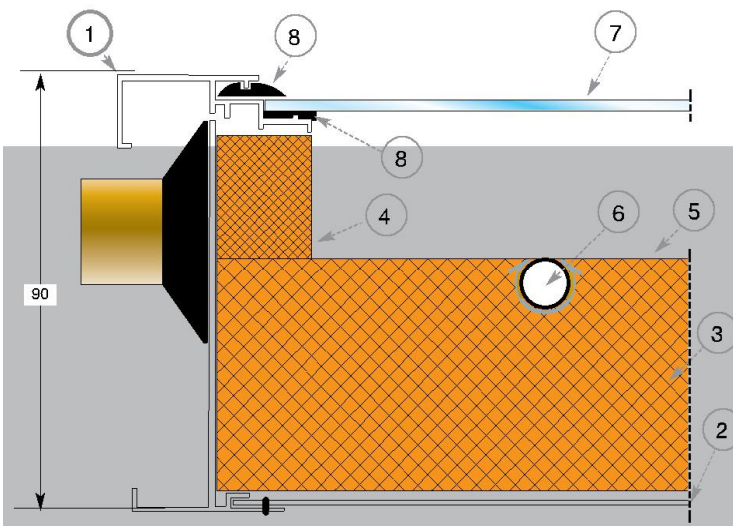
Technical Specifications of the Storage tank

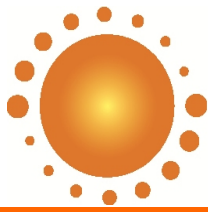
- External casing : anodized aluminium
- Tank's insulation : polyurethane foam 40-55 mm
- Cylinder's material : low carbon steel 3 mm
- Jacket's material : low carbon steel 1,5 mm
- Cylinder's internal Protection : glass enameling
- Additional protection : magnesium rod
- Electric element : copper
- Thermostat : bipolar of four contacts
- Power rate : available from 0,8kw – 4kw



Technical Specification of the collector

- External frame : anodized aluminium profile
- Back side : galvanized sheeting - 0,4 mm
- Back insulation : rock wool 35 mm
- Side insulation : glass-wool of 20 mm
- Absorber : A unique sheet with selective titanium coating with ultrasonic weldings.
- Absorber's tubes : copper pipes \varnothing 10 & \varnothing 22 (risers and headers)
- Cover : tempered glass 4mm
- Water-tightness : EPDM rubber/transparent silicone





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External Dimensions—All models



Solar water heater Package Details

All appliances (storage tank, collector, support base and connection accessories), are delivered well packed to the customer.

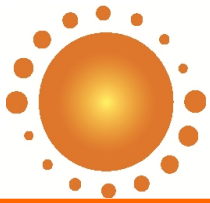
The collector is packed with 4 plastic protective elbows, attached on each corner, which are fast tightened around the collector with a plastic strap (upon special order, the collectors could be delivered in groups of 10 pcs on a wooden pallet).

All the parts of the support base, the plastic bag with the connection fittings, the thermal fluid and other accessories are packed in a carton box, on which the indications of each model appear on the outside

The plastic bag contains all the connection fittings of each appliance like, screws, nuts for the support base, brackets, pipe unions, moly plugs, screw-nuts, safety valves, plugs and filling funnel of the thermal fluid

All the tubes of the storage tank and collectors are covered with plastic plugs, in order to protect their turns from striking during the transportation.





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 Damascus Street, Al Qusais, 19165 Dubai, UAE

Branches :

- Ajman (Ajman Freezone)
- Abu Dhabi (Masdar City)

Also Available with :



Overseas Offices :

- Sri Lanka (Colombo)
- Maldives (Male)

