GREEN SUN POWER

GENERAL TRADING

Title of Green Life

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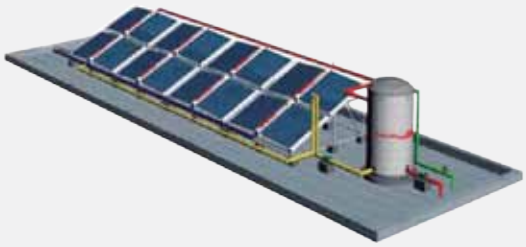
For a Better Future

Welcome To Green Sun Power, Where You Can Learn About Solar and The Range of High Quality Products



Providing Solar Hot Water Solutions

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SAVE YOUR BILL , FOR CLEAN & BEAUTIFUL ENVIRONMENT

SHARE WITH US FOR THE DEVELOPMENT OF OUR WORLD

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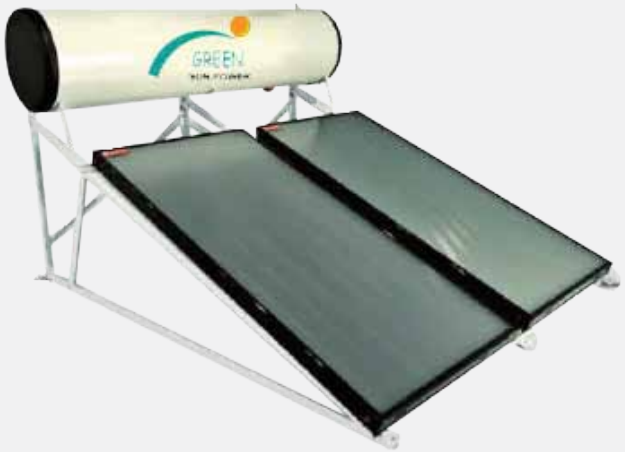
Flat Plate Soler Water Heater

Characteristics

1. Work with high pressure and supply more hot water.
2. Easy installation on the flat roof and sloping roof.
3. Perfect design combined with building.



Material

1. Tank Diameter : 440 mm / 520 mm
2. Inner Tank : SUS304 - 0.6mm thickness
3. Frame : Galvanized Steel - 2.0mm thickness
4. Absorb coating : Chrome plate (Black)

Parameter Table

Volume	SSN - 150L - HN	SSN - 300L - HN
Dimensions of tank	Ø520x1170 mm	Ø520x2200 mm
Dimensions of solar water heater with incline roof frame	1150*2485*700	2250*2485*700
Dimensions of solar water heater with incline roof frame	1150*2485*1500	2250*2485*1500
Weight	38Kg	55Kg
Electric Resistance	1,5kW .220V	
Working Pressure	≤ 0.4 Bar	
In/Outlets	G 3/4"	
Outside Tank Material	Powder coated & UV resistant steel	
Inside Tank Material	Stainless Steel SUS304 (thickness 0.6mm)	
Insulation Thickness	Polyurethane (thickness 50mm)	
Frame material	Painted galvanization steel	
Flat plate collector quantity	1	2

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Compact Solar Water Heater

Non-pressure Series Two Pipe Inlet-outlet

Characteristics

This model is one of the most favorite on the international market. It was scientifically designed, is easy to install and operates reliably. It will always provide hot water.

Material

1. Inner Tank: Stainless Steel SUS304 - 0.5mm
2. Vacuum Tube: QB - AL - N/AL - 47 - 1500 / 58 - 1800
3. Outer Tank: Painted Steel-0.4mm / Aluminum - Zinc Coated Steel - 0.45mm / Stainless Steel SUS304
4. Insulation: Polyurethane
5. Frame: Coated Galvanized Steel – 1.55mm / Stainless Steel SUS430 - 1.5mm
6. Reflector: Aluminum

Parameter Table

Type (Two)	Area (m^2)	Vacuum tube			Volume (lit ers)	Gross wet (Kg)
		Length (mm)	Φ (mm)	Qty (pcs)		
TZ58/1800-12	1.647	1800	58	12	120	46
TZ58/1800-12	1.924	1800	58	14	140	52
TZ58/1800-12	2.201	1800	58	16	160	59
TZ58/1800-12	2.478	1800	58	18	180	65
TZ58/1800-12	2.755	1800	58	20	200	71
TZ58/1800-12	3.310	1800	58	24	240	79
TZ58/1800-12	4.142	1800	58	30	300	98

Remark

- Solar storage tank diameter (mm): 375/475
- Insulation thickness (mm): 50
- Vent Connection: ½"
- Electric heater connection: 1"
- Water connections: ½"
- Collector angle: 30/45°

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Pressure Series Solar Water Heater with Heat Pipe

Characteristics

Works with high pressure. Therefore, the . It uses the heat pipe to delivery heat energy; water is heated rapidly. Each tube can work alone, so it can work even if one tube is broken.

Material

1. Inner Tank: SUS316-1.2mm
2. Vacuum Tube: QB-AL-N/AL-47-1500/58-1800
   Outer Tank: Painted Steel-0.4mm Thickness
3. Stainless Steel SUS304-0.4mm
4. Reflector: Aluminum

Parameter Table

Type	Area (m^2)	Vacuum tube			Volume (lit ers)	Gross wet (Kg)
		Length (mm)	Φ (mm)	Qty (pcs)		
TZ47/1500-18C	1.786	1500	47	18	150	60
TZ47/1500-20C	1.985	1500	47	20	165	65
TZ47/1500-24C	2.384	1500	47	24	195	73
TZ47/1500-30C	2.983	1500	47	30	240	90
TZ58/1800-15C	2.082	1800	58	15	150	65
TZ58/1800-20C	2.788	1800	58	20	200	78
TZ58/1800-25C	3.558	1800	58	25	250	96
TZ58/1800-30C	4.142	1800	58	30	300	120

Remark

- Diameter of the tank (mm): 365/475
- Thickness insulated (mm): 55
- Vent Connection: ½"
- Electric heater connection: 1"
- Water connections: ½"
- Install angle (degree): 30/45°
- Test pressure: 0.9MPa
- Operating fluid pressure: 0.4MPa

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Collector

DMG Tube Collector

Characteristics

High heat efficiency; can work all year long; advanced heat exchange method. It works well, even at less sunny regions, since the absorption of the sun is very high while the heat loss is very little. It produces an output within 2 minutes. The highest temperature can go up to 250C. The heat is transferred by an exchange medium.
The collector can even operate if one or several tubes are broken. Moreover, the system is convenient to fix and maintain. A single tube can, if necessary, be exchanged without interruption of the heating cycle.
The high performance of the heat - pipe energy exchanging method ensures anti - freezing.

Material

1. Manifold: Aluminum
2. Alumnium Structure

Parameter Table

Type	Area (m^2)	Vacuum tube			Volume (lit ers)	Gross wet (Kg)
		Length (mm)	Φ (mm)	Qty (pcs)		
TZ70/1700-10DMG	1.63	1700	70	10	2000*1050*160	42
TZ70/1700-12DMG	1.97	1700	70	12	2000*1350*160	53
TZ70/1700-14DMG	2.30	1700	70	14	2000*1550*160	64
TZ70/1700-15DMG	2.47	1700	70	15	2000*1650*160	69
TZ70/1700-20DMG	3.31	1700	70	20	2000*2150*160	88
TZ100/2000-8DMG	1.43	2000	100	8	2005*1002*175	48
TZ100/2000-16DMG	2.92	2000	100	16	2005*1959*175	91
Vacuum tube size: Φ 70*1700/100*200						

Remark

- Manifold Connections (inch) 3/4
- Max. test pressure (Pa): 1MPa
- Operating fluid pressure (Pa): 0.4MPa
- Max. stagnation temperature (degree): 231
- Max. service temperature (degree): 95
- Min. collector angle (degree): 15
- Max. Collector angle (degree): 75
- Distance from tube to tube (mm): DMG70 (90mm)/DMG100(120mm)

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Heat Pipe Solar Collector R Series

Characteristics

1. Water is rapidly heated by the heat pipe.
2. There is no water in the vacuum tube, so the tube will not break in winter.
3. The small size of the collector allows for versatile architectonic integration
4. Collector can be combined with existing pipeline.
5. The collector can operate even in case of a broken tube. A single tube can, if necessary, be exchanged without interruption of the heating cycle.

Material

1. Manifold: Aluminum
2. Alumnium Structure

Parameter Table

Type	Aperture Area (m^2)	Vacuum of the fluid (L)	Vacuum tube Qty (pcs)	Length/widht/ height (mm)	Gross wet (Kg)
TZ58/1800-10R1	0.936	0.77	10	2020*995*155	39.9
TZ58/1800-15R1	1.404	1.155	15	2020*1410*155	58.3
TZ58/1800-20R1	1.871	1.54	20	2020*1825*155	77.1
TZ58/1800-25R1	2.339	1.925	25	2020*2240*155	96.1
TZ58/1800-30R1	2.791	2.3	30	2020*2655*155	114.1
Vacuum tube size: Φ 58*1800					

Remark

- Manilold Connections (inch):1
- Test pressure (Pa): 1MPa
- Operating fluid pressure (Pa): 0.4MPa
- Max. service temperature (degree): 95
- Max. stagnation temperature (degree): 200.3
- Distance from tube to tube (mm): 78
- Flow range recommendation (50-150L/m^2n)
- Insulation thickness (mm): 40
- mmMin. collector angle (degree): 15
- Max. Collector angle (degree): 75

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Collector

CPC U-pipe Collector

Characteristics

CPC U-pipe solar collector is a new kind of device to collect solar energy. It consists of compound parabolic concentrator (CPC) which is non-tracing concentrated and vacuum hot-tube collector (receiver). CPC features of non-imaging and low concentration. On the basis of the edge-ray principle, CPC can collect incident ray within the specified scope by the ideal concentration ratio onto the receiver. The vacuum hot-tube collector converts the solar energy to heat energy, and the medium transfers the heat energy to water.

1. Large collecting scale and high efficiency.
2. No water in the vacuum tubes, It mean that even the tube breaks up, no water leaks.
3. Pressurized running.
4. Arbitrary placement and moderated temperature collector.

Parameter Table

Type	CPC - 12	CPC - 14	CPC - 16	CPC - 18
Gross dimensions (length*eidth*height)(mm)	1620 x 1348 x 111	1620 x 1568 x 111	1620 x 1788 x 111	1620 x 1008 x 111
Gross area	2.18 m^2	2.54 m^2	2.9 m^2	3.25 m^2
Aperture area	1.98 m^2	2.32 m^2	2.66 m^2	3.0 m^2
Max. operation pressure	6 bar	6 bar	6 bar	6 bar
Heat carrier to use (optional)	Water or anti-freeze	Water or anti-freeze	Water or anti-freeze	Water or anti-freeze
Nominal fow rare (kg/h)	100 kg/h	115 kg/h	130 kg/h	150 kg/h
Weight of empty collector	44 KG	51.2 KG	58.5 KG	63 KG
Manifold				
Frame Material	Aluminum	Aluminum	Aluminum	Aluminum
Sealing material	Nylon 66	Nylon 66	Nylon 66	Nylon 66
Insulation				
Material	polyurethane	polyurethane	polyurethane	polyurethane
Thickness (mm)	40	40	40	40
Density	36 - 42	36 - 42	36 - 42	36 - 42
Absorter				
Material absorber plate	Borosilicate glass	Borosilicate glass	Borosilicate glass	Borosilicate glass
Thickness absorber plate	1.6 mm	1.6 mm	1.6 mm	1.6 mm
Length absorber plate (mm)	1500	1500	1500	1500
Diameter absorber plate	47 mm	47 mm	47 mm	47 mm
Heat carrier volume	1.08L	1.26L	1.44L	1.62L
Connection absorber - tube	Aluminum heat transfer sheet	Aluminum heat transfer sheet	Aluminum heat transfer sheet	Aluminum heat transfer sheet
Number of absorber tubes	12	14	16	18
Number of connections	2	2	2	2

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Large - Scale Solar Collector

Characteristics

1. Applicable to solar hot water supply / swimming pool heating / house heating.
2. Operates automatically; telecommuting controlling.
3. All - day / time - lapse mode.
4. The design allows for versatile architectonic integration.
5. Any type of back up heating can be combined.

Parameter Table

Type	Tube orientation	Absorb Area (㎡)	Vacuum tube Qty (pcs)	Vacuum tube	
				Qty (pcs)	Length (mm)
TZ47/1500-50G	horizontal	4.80	50	47	1500
TZ47/1500-25G	Vertical	2.40	25	47	1500
TZ58/1800-10G	Vertical	1.28	10	58	1800
TZ58/1800-15G	Vertical	1.94	15	58	1800
TZ58/1800-20G	Vertical	2.60	20	58	1800
TZ58/1800-30G	Vertical	3.92	30	58	1800
TZ58/1800-50G	horizontal	7.03	50	58	1800

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Split Pressurized Water Tank

Split Pressurized Water Tank

Characteristics

1. The upright tank can keep the water temperature at different level. It can heat the top water instantly.
   The special structure can prevent from mixing the cold and hot water together.
2. The tank is located in the building, the connection pipe between the tank and water tap is very short, so that hot water can be used instantly and seldom cold water flows out.
3. The tank is located in the building, the hot water loses less energy than the normal one.
4. The heater collector and the water tank is separated, that makes the system combine with the building perfectly, which will not effect the sightseeing of the building and the environment around.
5. Back up with electric heater so that in the day without sunshine hot water can also used.

Parameter Table

Type	Tank Specification	Outer Tank Diameter*Height	Inner Tank Diameter	Inner Tank Material	Heat Exchange Area
SST - 100 One Coil	100L	Φ520x(835+25)	Φ435	SUS316Lx ? 1.2	0.4 ㎡
SST - 150 One Coil	150L	Φ520x(1170+25)	Φ435	SUS316Lx ? 1.2	0.55 ㎡
SST - 200 One Coil	200L	Φ520x(1460+25)	Φ435	SUS316Lx ? 1.2	0.75 ㎡
SST - 250 One Coil	250L	Φ520x(1760+25)	Φ435	SUS316Lx ? 1.2	0.925 ㎡
SST - 300 One Coil	300L	Φ570x(1729+25)	Φ480	SUS316Lx ? 1.2	1.1 ㎡
SST - 400 One Coil	400L	Φ700x(1511+25)	Φ600	SUS316Lx ? 1.5	1.175 ㎡
SST - 500 One Coil	500L	Φ700x(1846+25)	Φ600	SUS316Lx ? 1.5	1.475 ㎡
SST - 150 One Coil	150L	Φ520x(1170+25)	Φ435	SUS316Lx ? 1.2	0.35 ㎡ / 0.5 ㎡
SST - 200 One Coil	200L	Φ520x(1460+25)	Φ435	SUS316Lx ? 1.2	0.4 ㎡ / 0.7 ㎡
SST - 250 One Coil	250L	Φ520x(1760+25)	Φ435	SUS316Lx ? 1.2	0.55 ㎡ / 0.875 ㎡
SST - 300 One Coil	300L	Φ570x(1729+25)	Φ480	SUS316Lx ? 1.5	0.6 ㎡ / 0.95 ㎡
SST - 400 One Coil	400L	Φ700x(1511+35)	Φ600	SUS316Lx ? 1.5	0.575 ㎡ / 1.15 ㎡
SST - 500 One Coil	500L	Φ700x(1846+35)	Φ600	SUS316Lx ? 1.5	0.8 ㎡ / 1.425 ㎡

Air Source Heat Pump

Characteristics

1 High-efficiency &energy-saving

- Air source heat pump uses heat energy from air (including heat recovery) and produces more heat energy, COP nearly 4.
- Energy saving more than 60%~80% compared to traditional heaters.

2 Practical

- Air source heat pump provides for illa, apartment, high-floor residence, business restaurant, hotel and multi - floor living building in country & village.
- Heat pump is a replacement products of oil boiler, gas boiler, coal boiler, electricity and solar water heater etc.
- Remarkable heat preservation hot water 24 hours a day, no matter day and night, sunny or rainy day, hot or cold.

3 Safety

- Separating the water from electricity or any other hazard material.
- No potential dangerous of any inflammable, gas poisoning, explosion, fire, electrical shock etc.

4 Environment-friendly

- The heat from air and exhausting cooling air which is without any pollutions.
- So we have no pollutions to any animal and heat pump also has effective influence of global warming.

Accessories

SOLAR STATION

Use menu-style touch key, find wide applications, operate concisely, originate multi-timing mode, control on/off by one key, and make timing process easy and reliable, more convenient, safer, and more utility.

CONTROLLER

Query temperature and working state of sensors, temperature difference circulation, hot water pipe circulation, electric heating, high temperature protection (normal/radiator), anti - freeze protection, sterilization protection.
Type: sm-ss-f (CE certification)
size: 12omm×165mm×45mm
Water proof grade: IP40

ELECTRIC HEATER

Incoloy 800 electric heater
With inner temperature controller
Power: 1500 W

GREEN SUN POWER

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