Brief Introduction about 1st Sunflower

Balance·Nature
Basic elements for the Earth

Human beings are born from nature, the nature satisfies with mind. So in the relationship with nature, 1st Sunflower claims the harmony of man with nature and the blend with five elements (of metal, wood, water, fire, and earth). We can ask for from the nature, but it should not be too much to destroy the balance of environment.

Cherish life, in awe of Nature; honest and faithful, relieved and tolerant. These are the humanity.

Many people advocate for environmental protection, but environmental protection is not a fashion, but a concept which is extremely urgent to work steadily. 1st Sunflower successfully created the Fifth-generation solar water heater with more reasonable construction through diligent study with a quiet mind for many years. These type solar water heaters have high temperature/coldness resistance. It makes the products and buildings combines as one complete unit through fashion and beautiful design. Inexhaustible solar energy supply the user the best hot water using plan, in the meantime, it can achieves the goal to protect environment and save the energy resources which is seeked and devoted by credit Sunflower Solar.

Love clear water and blue sky, establish a splendid homeland. 1st Sunflower adheres to integrity-based, advocates to users’ needs as its responsibility, proposes healthy sustainable living for its purpose. Please let us join hands together, creating a prosperity and a bright future!
SFA Model: Thermosyphon Tubular Solar Water Heater

**Description:**
The design of this type uses the principle of Thermosyphon. It is a natural circulation process. This type uses double layers glass solar tubes. The water fills in the tubes, which in turn is heated in the tank (which can vary between 85 and 220 litres) by convection. It has obvious advantages: with a tank and the fittings are very low-cost.

**Features:**
1. Beautiful in design and very convenient for family use.
2. Reliable and efficient with twin-glass solar tubes.
3. No corrosion: It can prevent corrosion caused by chlorine ion, sea water, salt water or buck water.
4. No leakage: Apply for special anti-corrosion layer.
5. Sanitary water: The qualities showed above make it possible that water quality is pure and no twice pollution.
6. Using the polyurethane to preserve heat, which makes people enjoy hot water in cold evenings.
7. Designing the immersion heater hole in advance for the cloudy, snowy, rainy days.
8. Easy plug-in installation.

**Scope of Application:**
SFA is very popular in Asia, Africa, torrid zone and warm area.

**Notice:**
1. The angle of the frame can be changed in the production process according to the local latitude condition of the customers. We can design the suitable angle for customers.
2. We offer the spare accessories and tubes for your orders for free.
3. We can offer water tanks, frames and tubes in different materials according to your request.
4. We offer the fittings of this system, such as immersion heater, water supplier, magnesium and so on. You can buy according to your requirement.
SFVA Model: All-glass Evacuated Solar Collector Tube

Operation principle:
Apply for selective absorbing coating material of normal all-glass vacuum tube to collect solar energy.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Specification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SFVA4715</td>
<td>Diameter of solar tube: Ø47mm</td>
<td>Length of solar tube: 1.5M</td>
</tr>
<tr>
<td>SFVA5818</td>
<td>Diameter of solar tube: Ø58mm</td>
<td>Length of solar tube: 1.8M</td>
</tr>
</tbody>
</table>

Features:
1. Apply for two layers of 3.3 high boron silicon glass tube.
2. The two layers glass tube, with the same axis vacuum zed between them, can reach 5×10^-2 Pa.
3. Coated with AL\N\AL selective absorbing coating material.
4. High absorbing efficiency: The vacuum magnetic-control sputtering selective absorptive coating on the heat-collecting plates has a high absorption. Coefficient is more than 93%, and the emission coefficient is around 6%.
5. Long life: The life span can reach 15 years.
6. High practicability: Able to endure impact of hail less than 25mm in diameter, with high heat efficiency throughout the year.

Notice:
1. If you want to buy the samples, the quantity isn’t limited by the minimum order quantity and it can be decided by the actual need of the customers.
2. We offer the spare tubes for samples and orders for free.
3. We can make laser brand on tubes according to customers’ special request.
4. The information above is the simple description of our products. If you are interested in our products, please contact us and we’ll send more detailed brochures of our products to you by e-mail.

<table>
<thead>
<tr>
<th>Length</th>
<th>1500mm</th>
<th>1800mm</th>
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<tbody>
<tr>
<td>Outer tube diameter</td>
<td>47mm</td>
<td>58mm</td>
</tr>
<tr>
<td>Inner tube diameter</td>
<td>37mm</td>
<td>47mm</td>
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<tr>
<td>Weight</td>
<td>1.3kg</td>
<td>2.2kg</td>
</tr>
<tr>
<td>Glass thickness</td>
<td>1.6mm</td>
<td>1.6mm</td>
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<tr>
<td>Material</td>
<td>Borosilicate Glass 3.3</td>
<td>Borosilicate Glass 3.3</td>
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<tr>
<td>Absorptive coating</td>
<td>Graded A1/N/A1</td>
<td>Graded A1/N/A1</td>
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<tr>
<td>Vacuum degree</td>
<td>P&lt;5×10^-3 Pa</td>
<td>P&lt;5×10^-3 Pa</td>
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<tr>
<td>Thermal expansion</td>
<td>3.3×10^-6 /°C</td>
<td>3.3×10^-6 /°C</td>
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<tr>
<td>Insolation Temperature</td>
<td>&gt;200°C</td>
<td>&gt;200°C</td>
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<tr>
<td>Absorptance</td>
<td>&gt;93%</td>
<td>&gt;93%</td>
</tr>
<tr>
<td>Emittance</td>
<td>&lt;8%</td>
<td>&lt;8%</td>
</tr>
<tr>
<td>Heat loss</td>
<td>&lt;0.8W/(m²°C)</td>
<td>&lt;0.8W/(m²°C)</td>
</tr>
<tr>
<td>Maximum strength</td>
<td>0.8Mpa</td>
<td>0.8Mpa</td>
</tr>
<tr>
<td>Resist cold</td>
<td>-35 °C</td>
<td>-35 °C</td>
</tr>
<tr>
<td>Resist hailstone</td>
<td>Ø 25mm</td>
<td>Ø 25mm</td>
</tr>
<tr>
<td>Resist wind</td>
<td>30m/s</td>
<td>30m/s</td>
</tr>
<tr>
<td>Start-up temperature</td>
<td>&lt;=25°C</td>
<td>&lt;=25°C</td>
</tr>
</tbody>
</table>
**SFB Model: All-glass Evacuated Tubular Solar Collector with Heat Pipe**

**Description:**
SFB model uses All-glass Evacuated Tubular Solar Collector Tube with Heat Pipe as its heat-absorption element. It can be connected to the pressurized system. It can resist the cold weather of -35 degree.

**Features:**
1. High efficient solar absorber by using All-glass Evacuated Solar Collector Tube with Heat Pipe.
2. Suitable for main water pressure (up to 6bar/87psi).
3. Silver brazed copper header for corrosion resistant.
4. Excellent insulator in rock wool to keep the heat.
5. Collectors can be connected in series to increase water heating capacity.
6. Ideal for commercial solar water heating applications.
7. Able to be used in all climates.
8. Using simple frame, the system can be easily fixed on the roof.
9. It looks smart and without worry about the supporting capability of the roof.
10. Tubes can be easily replaced if broken- it can be also used with broken tubes.
11. Maintenance free.

**Scope of Application:**
SFB is very popular in Europe. It can resist the -45 Celsius. It is a good choice for big projects.

**Notice:**
1. The angle of the frame can be changed in the production process according to the local latitude condition of the customers. We can design the suitable angle for the customers.
2. We offer the spare accessories and tubes for your order for free.
3. We can offer the standing frame for SFB if the customers need.
4. We can change the quantity of tubes of each SFB solar collector according to customers’ request.
5. We can manufacture the manifold in different materials according to the customers’ requirements.

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**Table:**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty. of solar tubes</th>
<th>Diameter of solar tube (mm)</th>
<th>Length of solar tube (M)</th>
<th>Copper Heat Pipe</th>
<th>Effective collector area (M²)</th>
<th>Capacity (Liter/Day)</th>
<th>Size (mm)</th>
<th>Qty (set)</th>
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<td>86</td>
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<td>Ø 58</td>
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<td>Ø 58</td>
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<td>Yes</td>
<td>3.78</td>
<td>270</td>
<td>2560</td>
<td>52</td>
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</tbody>
</table>
SFVB Model: All-glass Evacuated Solar Collector Tube with Heat Pipe

Operation principle:
SFVB uses double layers glass tubes with a heat pipe inserted in.

Features:
1. The tube structure is between all-glass evacuated tube and metal-glass evacuated tube with heat pipes.
2. Suitable for frigid zones because there is no water in the tube.
3. Designed for pressure system.
5. The heat collecting part is a vacuum glass tube which can reduce the heat loss.
6. Stable solar conversion throughout the day, with the round shaped tube allowing solar penetration from all angles.

Notice:
1. If you want to buy the samples, the quantity isn't limited by the minimum order quantity, and it can be decided by the actual need of the customers.
2. We offer the spare tubes for sample and order for free.
3. We can make laser brand on tubes according to customers’ special request.
4. The information above is the simple description of our products. If you are interested in our products, please contact us and we'll send more detailed brochures of our products to you by e-mail.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Diameter of solar tube</th>
<th>Length of solar tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFVB4715</td>
<td>Ø47mm</td>
<td>1.5M</td>
</tr>
<tr>
<td>SFVB5818</td>
<td>Ø58mm</td>
<td>1.8M</td>
</tr>
</tbody>
</table>
Solar Heating System

Active Open Loop System

Open Loop System is designed for climates where there is no risk of freezing. Recirculation freeze protection can be provided by the recirculation feature in the controller. An Open Loop Water Heating System provides many advantages. It is the simplest and the most typically reasonable active system to install. There is no heat exchanger, which allows efficient heat transfer to the water directly. The system operates at standard line pressure. It is easy to add capacity to the system if demand changes. The system can be integrated easily with existing systems.

1. Collector
2. Collector Sensor
3. Manual Air Valve
4. Hot Water to Taps
5. Tempering Valve
6. Collector Return
7. Check Valve
8. Hose Bibs For Filling And Flushing
9. Expansion Vessel
10. Air Scoop & Air Vent
11. Circulating Pump
12. Pressure Relief Valve
13. Pressure Meter
14. Collector Supply
15. Pressurized Tank
16. Immersion Heater
17. Controller

Active Closed Loop System

Closed Loop Solar Heating Systems are suitable for both single and multiple solar heating application systems, such as domestic solar water heating, solar water heating hot tub, solar swimming pool heating or solar space heating systems. The Closed Loop Solar Systems are suitable for areas with questionable water and all climate conditions. The Closed Loop Solar Heating Systems are better choice for extremely cold areas.

1. Collector
2. Collector Sensor
3. Manual Air Valve
4. Hot Water to Taps
5. Tempering Valve
6. Collector Return
7. Check Valve
8. Hose Bibs For Filling And Flushing
9. Expansion Vessel
10. Air Scoop & Air Vent
11. Circulating Pump
12. Pressure Relief Valve
13. Pressure Meter
14. Collector Supply
15. Heat Exchange Coil
16. Pressurized Tank
17. Immersion Heater
18. Controller
**SFD Model: Pressure Tubular Solar Water Heater with Copper Coil**

**Description:**
SFD model has a special copper coil heat exchanger in the inner tank. The coil copper pipe can bear 6 bars pressure, water tank is non-pressurized. The water in the tank is used as the heat transfer medium, rather than using it directly. The obvious advantage is with water supplier, which can supply cold water into the tank automatically; It can be connected to pressurized system. SFD is suitable for torrid zone and warm area.

**Features:**
1. Copper coil heat exchanger can be used as a part of a closed or open loop system, providing heating to a main hot water tank.
2. Water supplier: supplying the water vapour slowly into the tank in time.
3. Designed to resist main pressure and cold water.
4. Reliable and efficient with twin-glass solar tubes.
5. Collectors can be connected in series to increase water heating capacity.
6. Ideal for commercial solar water heating applications.
7. Easy plug-in installation.

**Scope of Application:**
It is suitable for the areas where are very hot and it can reach the best efficiency when it is used near to the equator.

**Notice:**
1. The angle of the frame can be changed in the production process according to the virtual geographical condition of the customers. We can design the suitable angle for the customers.
2. We offer the spare accessories and tubes for your order for free.
3. We can offer the water tanks, frames, and tubes in different materials according to your request.

**Spec表格**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Diameter of water tank</th>
<th>Qty. of solar tubes</th>
<th>Diameter of solar tube</th>
<th>Length of solar tube</th>
<th>Tank's Capacity</th>
<th>Total Capacity</th>
<th>Effective collector area M²</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>20'ft</th>
<th>40'ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFD47155818</td>
<td>Ø 470mm</td>
<td>15pcs</td>
<td>Ø 58mm</td>
<td>1.8M</td>
<td>132.3L</td>
<td>172.9L</td>
<td>1.89</td>
<td>1348</td>
<td>1228</td>
<td>1594</td>
<td>1655</td>
<td>50</td>
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<tr>
<td>SFD47185818</td>
<td>Ø 470mm</td>
<td>18pcs</td>
<td>Ø 58mm</td>
<td>1.8M</td>
<td>148.6L</td>
<td>197.3L</td>
<td>2.27</td>
<td>1591</td>
<td>1471</td>
<td>1594</td>
<td>1655</td>
<td>43</td>
<td>87</td>
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<tr>
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<td>Ø 470mm</td>
<td>20pcs</td>
<td>Ø 58mm</td>
<td>1.8M</td>
<td>164.9L</td>
<td>219L</td>
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<td>2443</td>
<td>1594</td>
<td>1655</td>
<td>26</td>
<td>54</td>
</tr>
</tbody>
</table>

**Notice:**
**SFH Model: Integrated Pressure System**

**Description:**
Enamel inner tank, pressurized system integrated with immersion heater, controller, P/T valve, etc. Let SFH consider more for you!

**Features:**
1) Superior heat preservation ensured by 75mm polyurethane foam insulation layer
2) Designing the immersion heater hole in advance for cloudy, snowy, and rainy days
3) Suitable for mains pressure water (up to 0.6MPa)
4) Immersion heater connects with SFH water tank
5) Material: galvanized sheet
6) Inner tank material: using pressurized material, the inner tank has the advantages as follows:
   - a) No corrosion: can prevent corrosion lead from chlorine ion, sea water, salt water or buck water
   - b) No leakage: applied for special anti-corrosion layer
   - c) Sanitary water: the qualities showed above make it possible that water quality is pure and no twice pollution
7) Able to be used in all climates
8) Automatic water supply, could supply water self-acting without any other installation and could able to be pressured

**Scope of Application:**
It suit for the climate where are very hot, it will reach the best efficiency when use it near to the equator.

**Notice:**
1. The angle of the frame can be changed in the production as the virtual geographical condition of the customers. We can design the suitable angle for the customers.
2. We offer the spare accessories and tubes for your order for free.
3. We can offer the different material of water tank, frame, and tubes according to your request.
**SFE Model: Tubular Solar Water Heating System**

**Description:**
SFE is a non-pressurized product that is similar to SFA but without a water tank. It can only be used in a non-pressurized system. It is a very cheap choice.

**Features:**
1. High efficiency and economical system.
2. Especially suitable for projects.
3. Designed for commercial solar water heating applications.
4. Reliable and efficient with twin-glass solar tubes.
5. Polyurethane insulation ensures good heating performance and minimal heat loss.
7. Can be connected in series to increase water heating capacity.

**Scope of Application:**
SFE are very popular in some hot areas.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty. of solar tubes</th>
<th>Diameter of solar tube</th>
<th>Length of solar tube</th>
<th>Copper Heat Pipe</th>
<th>Effective collector area M²</th>
<th>Capacity (Liter/Day)</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>20'ft</th>
<th>40'ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFE104715</td>
<td>10pcs</td>
<td>Ø 47mm</td>
<td>1.5M</td>
<td>No</td>
<td>0.83</td>
<td>70</td>
<td>870</td>
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<td>Ø 47mm</td>
<td>1.5M</td>
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<td>175</td>
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<td>SFE105818</td>
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<td>960</td>
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<td>2440</td>
<td>1200</td>
<td>1398</td>
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</tbody>
</table>

**Notice:**
1. The angle of the frame can be changed in the production process according to the local latitude condition of the customers.
2. We can design the suitable angle for the customers.
3. We offer the spare accessories and tubes for your order for free.
4. We can change the quantity of tubes of each SFE solar collector according to customers’ request.
5. We can manufacture the manifold in different materials according to the requirement of customers.
**Description:**
Pressurized tank is used for the connection of SFB pressurized solar collectors. Our tank includes electric immersion heater for backup, magnesium strick, P/T valve, one-direction safety valve.

<table>
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<th>Model</th>
<th>100L</th>
<th>150L</th>
<th>200L</th>
<th>250L</th>
<th>300L</th>
<th>400L</th>
<th>500L</th>
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<td>Ø542</td>
<td>Ø542</td>
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<td>galvanized sheet 0.5</td>
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<td>0.4</td>
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<td>0.6</td>
<td>0.6</td>
<td>0.7</td>
<td>0.7</td>
<td>0.8</td>
<td>0.8</td>
</tr>
<tr>
<td>Immersion heater</td>
<td>1.5KW</td>
<td>1.5KW</td>
<td>1.5KW</td>
<td>1.5KW</td>
<td>2.5KW</td>
<td>2.5KW</td>
<td>2.5KW</td>
</tr>
<tr>
<td>Overall dimension (mm)</td>
<td>Ø450×1105</td>
<td>Ø450×1570</td>
<td>Ø520×1530</td>
<td>Ø620×1280</td>
<td>Ø620×1530</td>
<td>Ø710×1580</td>
<td>Ø710×1715</td>
</tr>
<tr>
<td>Package size (mm)</td>
<td>480×480×1200</td>
<td>480×480×1665</td>
<td>550×550×1625</td>
<td>655×655×1375</td>
<td>655×655×1625</td>
<td>740×740×1675</td>
<td>740×740×1800</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>46</td>
<td>58</td>
<td>68</td>
<td>75</td>
<td>95</td>
<td>112</td>
<td>122</td>
</tr>
</tbody>
</table>
Auxiliary Parts

SL500

SL868

SL618

Integrated Working Station

Circulation Pump: (WILO)
220V/50HZ, RS15/6
Max flow: 2.5 (l/h)
Max lift: 5.5m
Suitable power of electrical heater: 1pc, <1500W
INPUT:
One Sensor for collector (pt1000, probe ≤ 50°C, Silicon cables ≤ 280°C)
Two Sensors for tank (pt1000, probe ≤ 135°C, Pvc cables ≤ 105°C)
Ambient temperature: -10~50°C

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