



RUTY *SOLAR*

SHANGHAI RUTY ENERGY CO., LTD



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Company Introduction

SHANGHAI RUTY ENERGY CO., LTD is a group integrating the chinese energy factory to face the world energy market. Until now, this group has integrated 7 factories and hold 75% share of these factories and more than 3000 workers work for this group. There are 200 technical staff in this group.

The products range includes the thermal solar water heater, pressure solar water heater, split solar water heater, heat pump water heater, glass vacuum tube and so on.

SHANGHAI RUTY ENERGY CO.,LTD emphasizes the quality and services. Until now this group has got many certificates such as CCC, CE, UL, ISO9001, ISO14001 and so on.





Certificates



产品名称: 太阳能热水器
 规格型号: 太阳能热水器
 生产企业: 上海锐特能源有限公司



- ISO9001-2000: Shanghai Ruty Energy Co.,Ltd has past the ISO 9001-2000, Quality Management System Certification.
- CE: The EU safety conformity certification.
- CCC: China Compulsory Product Certification
- ISO14001: Environmental Management System Certification.



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TECHNOLOGY SUPPORT QUALITY

QUALITY GUARANTEE THE MARKET

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In our opinions, technological innovation can keep our enterprise's limitless vitalities, can create more demand-markets for future, and can overcome potential dangers in developing process. Technology innovating does not reply on working behind closed doors, on the contrary, we should keep pace with the time to "Going outside to study, and inviting others giving advice at home". It is very important that we knowing clearly about the latest developing tendency and demanding situation of the trade, and have a taste of the latest researching and developing progress and technical methods. According to these ways, we can make the maximum limit use of limited resources, and probe more space of value.





Equipments Advantages

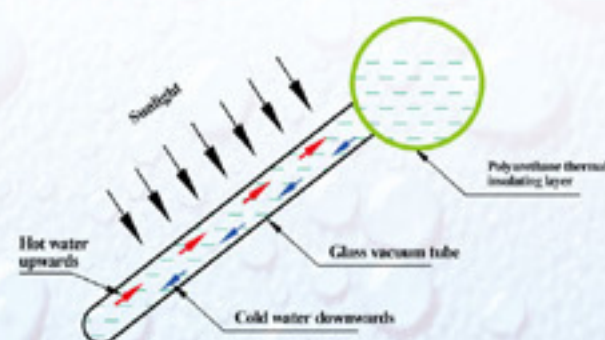
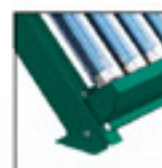




High-quality goods demonstration



★ Thermosiphon Galvanized model

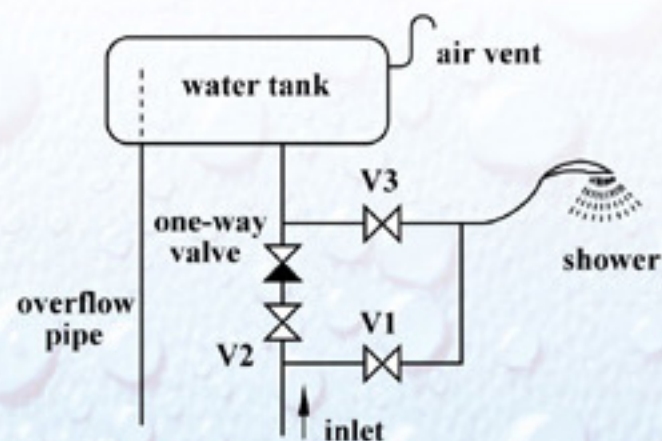


The detail of material

- 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/Aluminium-zinc coated steel-0.45mm.
- 4.Frame: coat galvanized steel sheet-1.5mm.
- 5.The material of insulation: polyurethane 50mm/60mm/65mm.
- 6.the reflector: Aluminium component: AL99.85% surface oxidation;stainless steel.

High-quality goods demonstration

★ Thermosiphon All stainless steel model



Materials:

Inner tank materials: SUS304-2B

Inner tank thickness: 0.5mm

Outer tank : stainless steel

Outer tank thickness: 0.4mm

Insulation: polyurethane imported from south korea

Insulation thickness: 50-65mm

Frame materials: SUS430

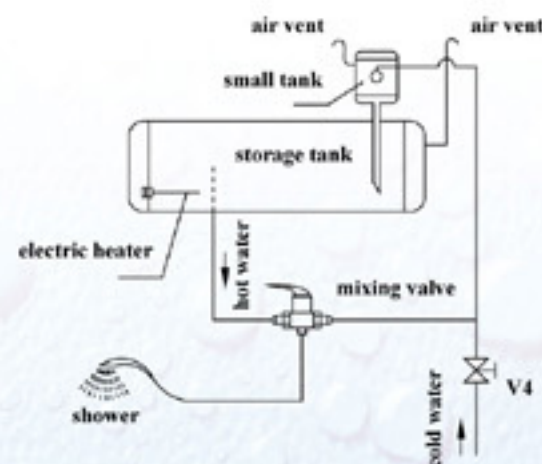
Frame thickness: 1.5mm

Advantages: Low cost hot water and good heat efficiency.

High-quality goods demonstration



★ Thermosiphon Feeder model



The detail of material

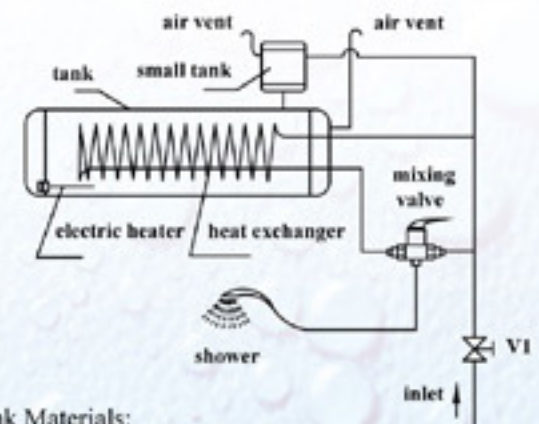
- 1.Inner tank: stainless steel SUS304—0.5mm.
- 2.Vacuum tube: QB-AL-N/AL-47-1500/58-1800.
- 3.Outer tank: painted steel-0.4mm/Aluminium-zinc coated steel-0.45mm.
- 4.Frame: coat galvanized steel sheet-1.5mm.
- 5.The material of insulation: polyurethane 50mm/60mm/65mm.
- 6.the reflector: Aluminium component: AL99.85% surface oxidation;stainless steel.

Advantages:

- 1.This model materials is same as the thermosiphon galvanized model.
- 2.This model has the thermosiphon model working theory.
- 3.This model has the feeder which can refill the cold water automatically and make the tank full.
- 4.For the feeder valve, there is the copper valve and the normal valve difference.

High-quality goods demonstration

★ Heat Exchanger model



Tank Materials:

Inner tank: SUS304

Inner tank thickness: 0.6mm

Outer tank: SUS 304 or Colored steel

Outer tank thickness: 0.37mm

Insulation: imported Polyurethane

Insulation thickness: 50-65mm

Heat exchanger: copper coil

Pressure resistance: 0.6mpa

Advantages:

1. Using the copper coil as the heat exchanger, it can produce hot water with constant temperature, it is safe and comfortable to use.

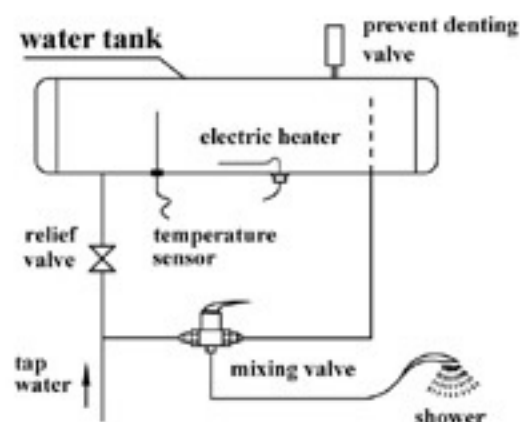
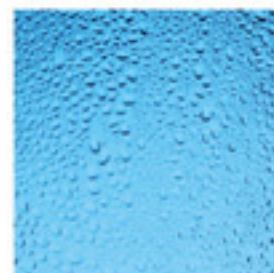
2. It takes the advantage of the tap water's pressure, can produce strong water flow.

3. The copper coil heat exchanger makes the water heated rapidly, and it is not limited by the tank capacity, so it can produce more hot water than the general models.

High-quality goods demonstration



★ Compact Pressure model



Materials:

Inner tank materials: SUS304-2B

Inner tank thickness: 1.2mm

Outer tank: the steel coated with zinc

Outer tank thickness: 0.37mm

Insulation: polyurethane imported from south korea

Insulation thickness: 50-65mm

Frame materials: SUS430

Frame thickness: 1.5mm

Advantages:

1. This type of solar water heater works with high pressure, it can produce strong water flow.
2. It uses the heat pipe to delivery heat energy, it can provide the hot water very rapidly.
3. Because of no water in the vacuum tube, there will be no tube breakage in the cold winter, and even there is occasional tube breakage the solar water heater can still work well.

Split Solar Water Heater



The split solar water heater is composed of the solar collectors , pressure tank and controlling system, which has the following characters:

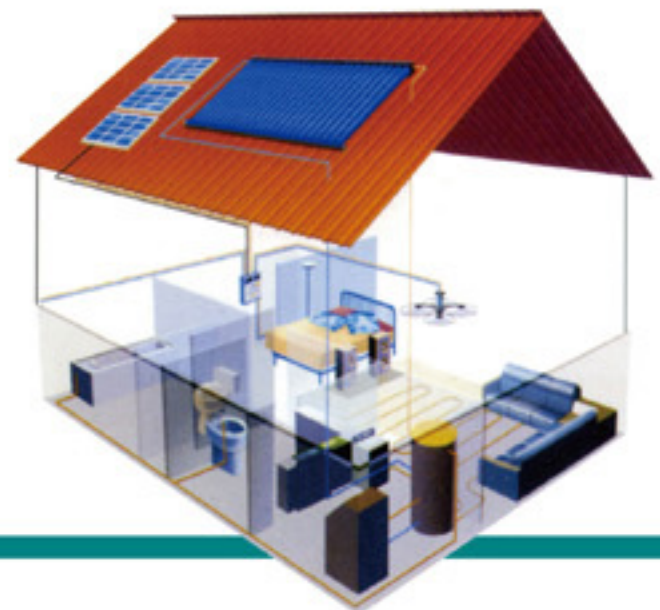
The split solar heater has two kinds of solar collectors: the heat pipe solar collector and the U pipe solar collector

The pressure tank is in the house and the solar collector on the roof which is more easy to be integrated into the roof and looks nice.

The tank in the house can reduce the energy lose in the conducting process.

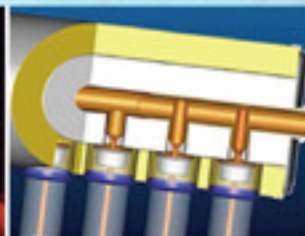
The controlling system control all the parts and make them work automatically.

It supports the combination of the solar and electricity.





★ Heat Pipe Solar Collector



The characteristic:

- 1.The conducting materials are heated by the heat pipe rapidly. And the conducting materials heat the water in the tank by the heat exchanger.
- 2.There is no water in the vacuum tube,so the tube will not be broken in the winter.
- 3.The heat pipe solar collectors can be integrated into the roof easily and can be combined with the architecture perfectly.
- 4.No water in the vacuum tube keeps it still working well in the event of occasional tube breakage.

Outer tank: Coated galvanized steel—0.8mm;Alnico—1.8mm.
Manifold: $\phi 38\text{mm}$ thickness 2 mm.

High-quality goods demonstration

★ U Pipe Solar Collector



The characteristic:

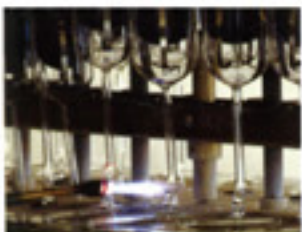
- 1.The conducting materials in the U pipe absorb the heat energy and conduct it into the tank by the heat exchanger.
- 2.There is no water in the vacuum tube,so the tube will not be broken in the winter.
- 3.The U pipe solar collectors can be integrated into the roof perfectly and has a good heat efficiency.
- 4.It can be still operated in the event of occasional tube break-ages.

The details of material:

Outer tank: Coated galvanized steel—0.8mm;Alnico—1.5mm.

Manifold: $\phi 22\text{mm}$ thickness 2 mm.

U copper type: $\phi 8\text{mm}$ thickness 0.6 mm.





★ Pressure Tank

- 1.The heat exchanger model tank can make the water hot quickly and supply more hot water in the use life.
- 2.The short pipe connection reduce the lose of the heat energy.
- 3.The tank in the house, which makes the solar heater more beautiful from the outside seeing.
- 4.The pressure tank can provide more strong hot water and make the bath more comfortable.
5. All the operation for the tank can be controlled by the controlling system, which can control the tank automatically.

Accessories



Circulation pump



TP relief valve



Working station



Relief valve



electric heater



Magnesium bar



Thermostat



electric heater



Expansion case



Computerized controller



Magnetization scale-borer



Copper connector

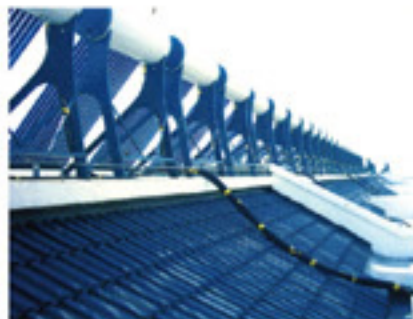
SOLAR PROJECT

Engineering

The large scale solar water heater projects consist of the normal solar collectors, none pressure tank ,controlling system and accessories.

The characters:

1. This system can provide more hot water.
2. It can provide the hot water for some big units such as the hotel, restaurants, swimming pool, school, sauna, beauty salon and some other big hot water units.
3. This system just use the solar as the energy ,which save more energy for the hot water.
4. It works by the computerized control and operation
5. For the system, it has a low cost advantage and convenient maintenance.
6. It can work with other back up powers.







SHANGHAI RUTY ENERGY CO., LTD

Address: 5 zhenjin road, shanghai, china

Tel: 0086-21-66367725

Fax: 0086-21-51560431

Cell: 0086-13764202424

MSN: bec3_2@hotmail.com

Skype: solardavidwei