

KYRIAZIS SOLAR

WATER HEATER L 150/2 m²



1. This system use clean, renewable solar energy to heat the tank water hot for shower and washing, It is environment friendly and also safety.
2. Our flat plate solar collector has passed Europe standard certificate--Solar Key mark which has higher efficient and heat absorption. As long as there is sunshine, can continuously bring hot water.
3. Our pressurized solar tank adopts the food grade , it has stronger corrosion resistance and longer span life.
4. Our frame can be installed both inclined and flat roof structure and combine with buildings completely.
5. The whole system can withstand 10 BAR pressure, running under pressure to provide comfortable hot water for shower and bathing.

Specification:

	Tank capacity	150L
	External dimension(mm)	Φ520x1180

Solar Tank	Outer tank material	Color coating galvanized steel
	Inner tank material	GLASS LINE EMAYE STEEL 2.0MM
	Max working pressure	10 BAR
	Connection material	Pvc pipes 22
	Connection valves	Copper valves
Flat Solar Collector	Certificate	Solar Key mark and CE
	Model No.	GR SOLAR GS 150
	Dimension(L x W x T)(mm)	2000x1000x85
	Total area	2.0M ² x1pc
	Construction Type	Copper tube and full plate
	Absorber coating	Blue Titanium
	Collector Efficiency	95%
	Material of Header and Riser pipe	Red copper TP2
	Header pipe diameter	Φ22mm
	Riser pipe diameter	Φ8mm
	Volume of fluid	1.9L
	Welding	Laser Printing
	Material of Cover	Textured tempered glass with Low iron content
	Thickness of Cover	3.2mm
	Transmission of Cover	92% (MS)
	Insulation material	Rockwool
	Sealing material	TPV
Weight Empty	29 KG	
Mounting Bracket	Material	Galvanized steel
	Angle	45°
	Bracket style	A: Flat roof B:Sloping roof

User Instruction

Dear Customers, before installing and using solar water heater, please read this manual carefully and attention to the following terms, so that our products are better service for you, and please keep this Manual for future maintenance staff and you reference.

- This product can only be acquired by the company approved by the professional personnel to install. For self-installation of solar water heater, our company will not undertake any responsibility.
- Used to install water heater roof for solid steel reinforced concrete structure, can withstand at least four to five times the weight of the filled

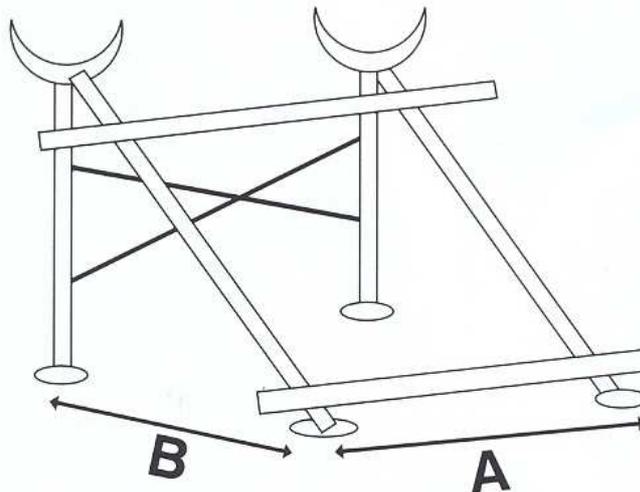
with water.

- The company is equipped with safety relief valve (rated pressure: 6 Bar) can not be changed or modified the installation location, and safety relief valve port should be connect with atmosphere.
- In order to protect your water heater tank, suggest 2-3 years to replace new magnesium anode rod.
- Water Heater improper use may cause burns when water temperature is too high, please be sure to use after mixing hot and cold water.
- Don't use the solar water heater when lightning and also pull out the plug.
- It is strictly prohibited use solar water heater in the case of outlet non-grounded connection.

When you use solar water heater, please cut off electric heating and it is strictly prohibited to charged

- It is strictly prohibited to replacement parts and disassembling maintenance without permission.
- Lift transport and installation process is strictly prohibited strong impact, so as not to damage the tank.

1, Production performance and parameters



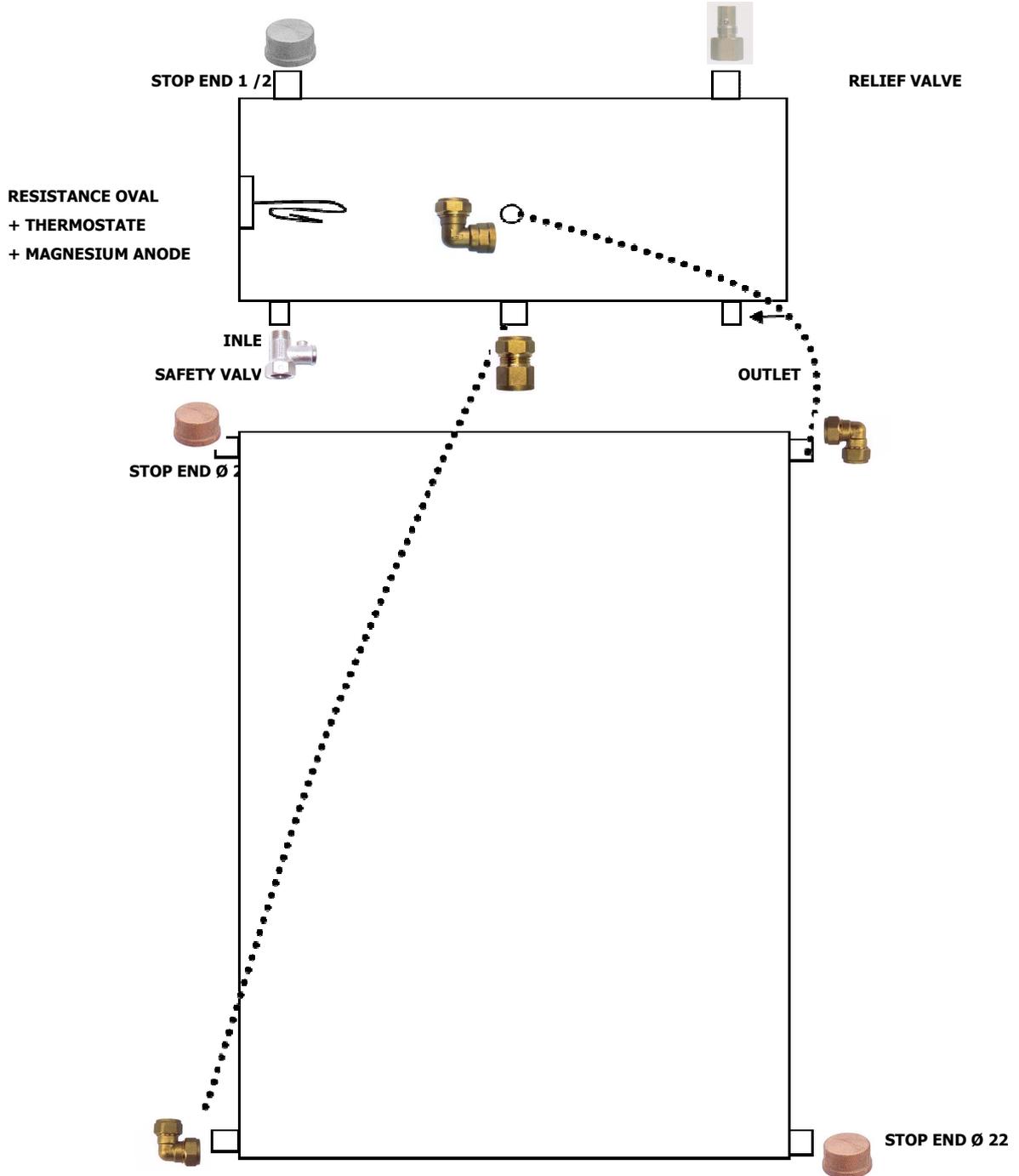
- Shape Parameters :

Model	L (mm)	D1(mm)	D2(mm)	A(mm)	B(mm)	H(mm)	Installatio Angle
Technical Parameters		520	390	920	1790	2000	45°

Model	Absorber Area (m ²)	Tank Capacity (L)	Rated Presse BAR	Collector Size (mm)	Collector Quantity (pcs)	Total net weight (kg)

GR SOLAR GS 150	2	150	10	2000*1000*80	1	99
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2, Production connection



Model	Inlet	Outlet	Relief valve	Upper circulation hole	Bottom circulation hole
GR SOLAR GS 150	G1/2	G1/2	G1/2	G1/2	G1/2

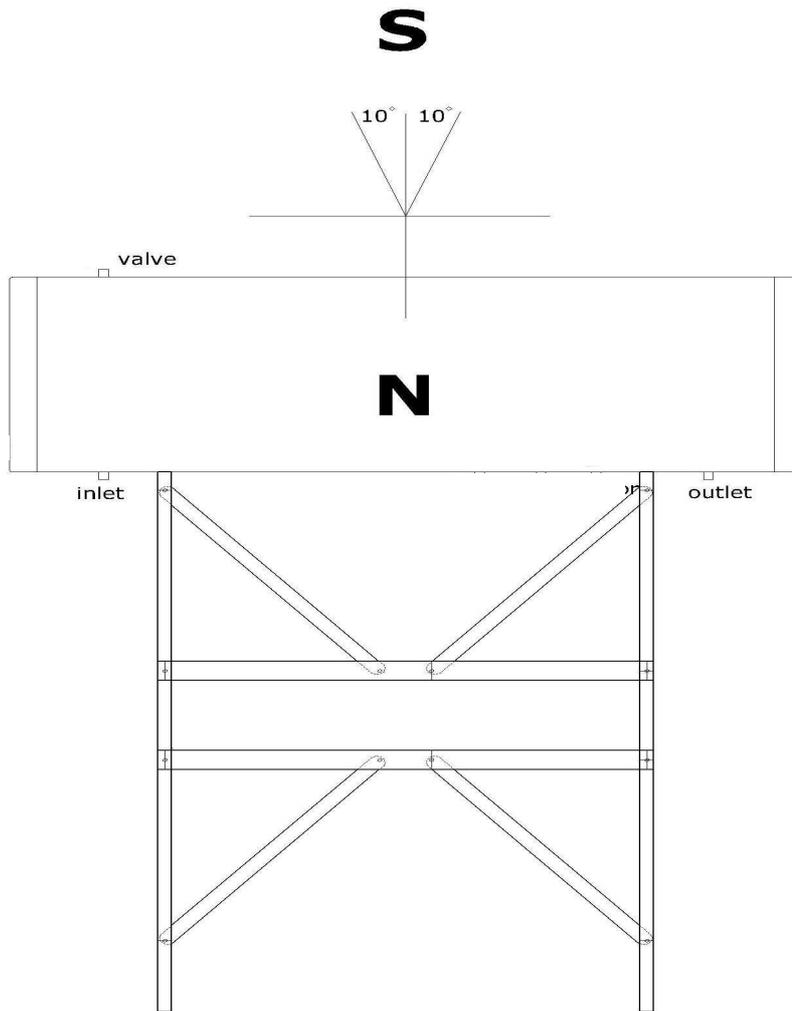
Installation Guide

一、 Determine the installation position

1. View top layer environment and indoor pipeline arrangement and also consult users' suggestions to determine the position of the scientific and reasonable installation. The position can be a good load bearing and fully sunlight and also convenient fluctuation water pipe layout and heat

2. Identify the south direction. The collector part of solar water heater should faced south direction, generally by east to west is not more than 10 degrees, ensuring the best water heater collector.

3. The front of the water heater as far as possible without shading objects, If any should maintain a certain distance from solar water heater to shading objects, the general control of the height of 1.5-2 times the shade, to ensure good lighting the water heater.



- 1, Relief valve
- 2, inlet
- 3, outlet

二、 Installation of bracket and tank

- 1、 Open the packages of tank, bracket and collector, according to the packing list to check parts is complete or not.
- 2、 Firstly to install the both sides of front legs and then install middle bar.
- 3、 Install fixed rails of flat plate solar collector.
4. After finish the complete frame, please don't lock all of the nuts to prevent the need to adjust the bracket assembly when installing water tank and collector.
5. When the main tank on the bracket, please make sure two or more persons to operate. The main tank at the bottom of the bracket to be embedded bolts pillow with intact as much as possible to maintain the level of the tank, not skewed, do not install the embedded nut fixed die.

三、 Install solar collector、 Connection collector and tank

- 1、 Solar collector is mounted to the bracket crossbar and don't lock nuts.
- 2、 Please use special fittings to connect the upper circulation hole of tank to circulation outlet of collector, meanwhile connect the bottom circulation hole to the circulation

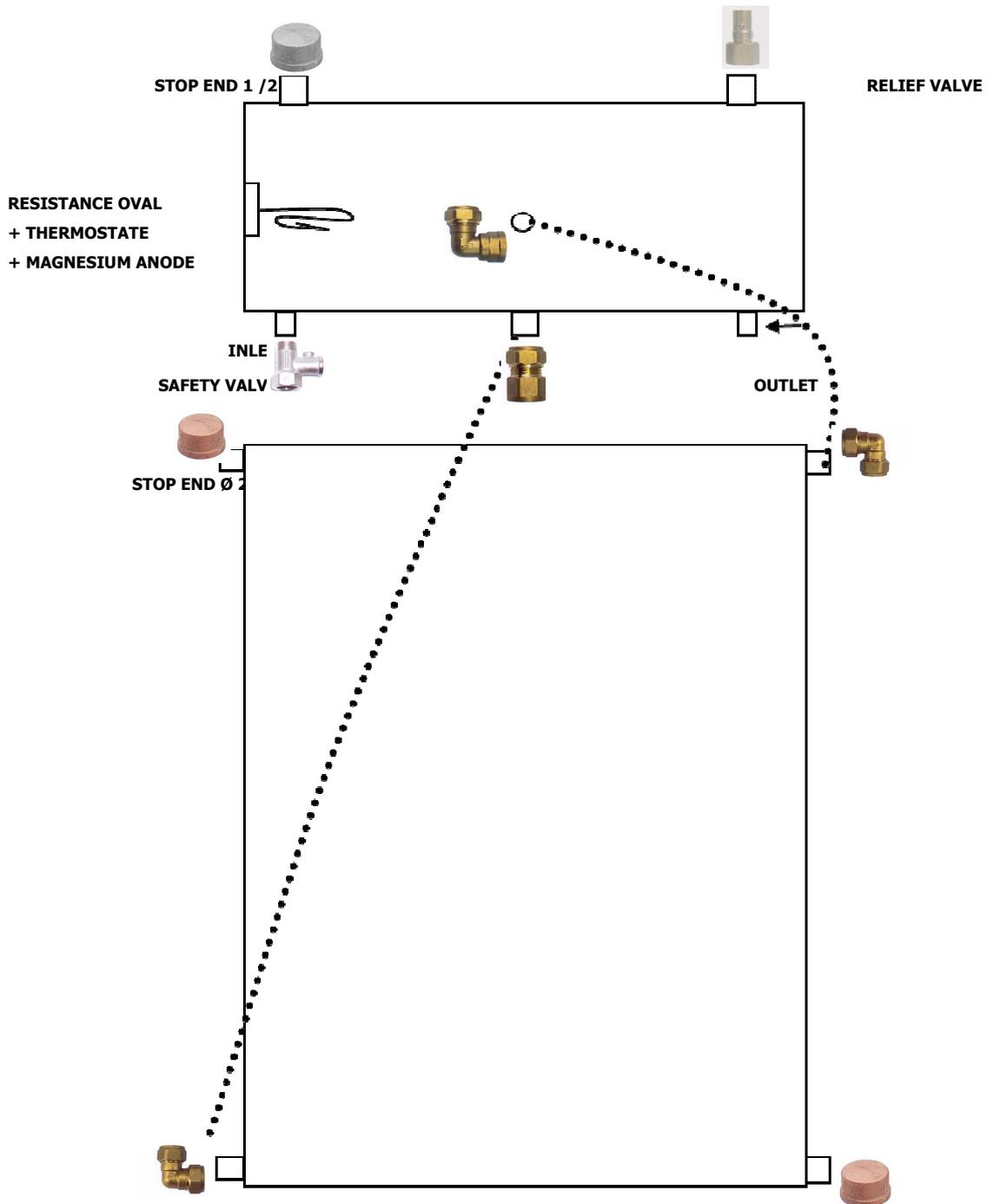
inlet.

3、 Lock all of the screws except collector bolts and protect the painting surface and not to scratch the protective layer.

4、 Feed water , after fill full of the tank, please double check all of holes on the tanks have leaking or not, and also double check the collector and tank connection joint have

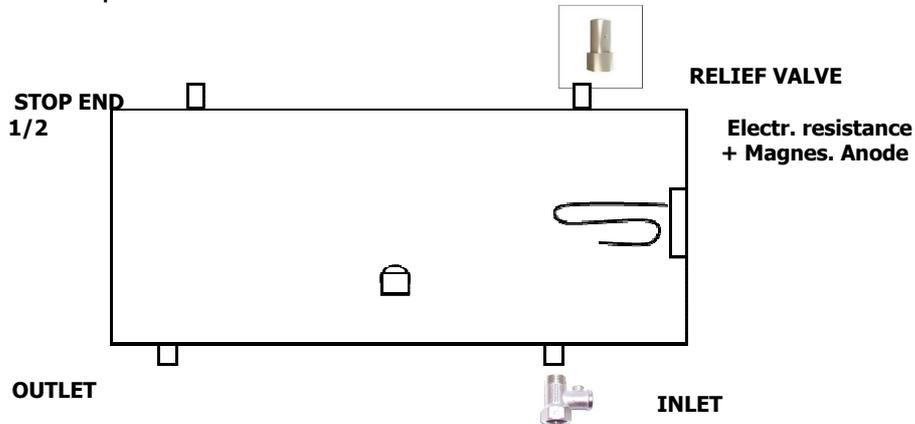
leaking or not. If have to reconnect, if necessary, replace the gaskets, confirm the joint without leakage.

5、 Fixing Locking collector nuts.



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四、Pipeline Installation



- 1, Relief valve
- 2, inlet
- 3, heater exchange
- 4, mg
- 5, sensor
- 6, outlet

Warning :

- 1 、 Please use the teflon tape or sealing ring on the pipeline connections to prevent leaking.
- 2 、 User-defined of hot and cold water pipes should be withstand pressure 1.2 mpa, and also have good heat preservation.
- 3 、 Please switch off the water valve and also release the tank pressure when you don't use the solar water heater for a long time.

Use Instructions

- For the first time or long term stop before using again, please conduct the comprehensive inspection of water heater, piping valves, safety relief valve, PT valve and so on.
- Once a system operation should ensure the normal water supply.
- In the heating process, the safety relief valve discharge opening small drop of water is a normal phenomenon, indicating that system are discharge pressure in the tank. When the water temperature reach 90 degrees, the PT valve at the top of tank will be open to discharge part of high temperature water, to ensure the normal work of the water tank.
- Regularly open the pressure relief valve, such as drop of water out shows safety valve is working properly.

Maintenance

The water heater only by professional service personnel for repair and maintenance, incorrect method may cause serious injury accident and property loss

- Periodically turn the water heater safety valve wrench, to see if there is water out, and if not, indicates that the safety valve is damaged, please connect professionals to repair.
- Suggest to replace every 2-3 years the magnesium anode rod of water tank.
- Not to use for a long time, please unplug the power supply.

Common Troubleshooting

phenomenon	Reason	Solution
Water temperature is not high on sunny day	There is too much dust on the collector surface or have obstructions in front of collector	Wipe the dust on the collector Remove the obstructions in front of collector
	Pipe insulation is bad	Call the service hotline
No out of water	No tap water supply	
	Inlet valve did not open	Open inlet valve
	Pipeline jam	Call the service hotline
The safety valve has a continuous	Tap water pressure	Away from the inlet pipe of
drip	exceeds security Valve pressure setting	water heater to install a pressure relief valve (The installer should be professional)

Packing List

Item	Name	Quantity
1	Water tank component box	1
2	flat plate solar collector component box	1
3	Bracket component box	1

Water tank component parts list in the box

Item	Parts' Name	Quantity
1	Safety Valve	1
2	P T valve	1
3	Copper connections	4
4	Upper circulation pipes	1
5	Bottom circulation pipes	1
6	Tank Support	1