

SOLAR WATER HEATER THERMOSYPHONE INSTALLATION MANUAL

# **SOLAR WATER HEATER INSTALLATION MANUAL**

**(THERMOSYPHONE TYPE)**



## SOLAR WATER HEATER THERMOSYPHONE INSTALLATION MANUAL

This installation manual applies for less than 20 tubes (Such as, 10,12, 15,16, 18, 20 tubes)

Vacuum of solar water heater tubes absorb 99.99% from environment

Stainless steel SUS304 2B with 0.5mm for inner tank and Color White Steel 0.4mm for outer tank and inside with 55 mm of thermal isolating material to keep the heat in tank.

Galvanized Steel support with 1.5mm thickness

The solar system consists in 3 boxes with the following components

- Box 1: Solar water tank
- Box 2: Galvanized Steel support frame
- Box 3: Vacuum tubes

The General Installation Parts:



In the stand part, it includes as follows:

- 1 bottom holder, 2 front supports,
- 2 side supports, 2 back sloping supports,
- 2 back vertical supports
- 2 back strength ribs, 1 front strength ribs,
- 2 tank supports, 2 triangle pads
- 1 set of black plastic base, 1 set of black plastic decorating ring,
- 1 box of bolt, 4 feet bases

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Step 1: Connecting the back support  
with tank support (2 pcs)

photo A



Step 3: Connecting side supports  
(2 pcs) with photo B

photo C



Step 5: Assembling front strength ribs (1 pc)

photo E



Step 7: Assembling back strength ribs (2 pcs)  
photo G



Step 9: Assembling the feet bases (4 pcs)  
photo I



Step 2: Connecting front support  
with photo A (2 pcs)

photo B



Step 4: Assembling the triangle pads  
(2 pcs) onto photo C

photo D



Step 6: Assembling bottom holder (1 pc)  
into photo E

photo F



Step 8: Connecting back sloping supports  
photo H



Step 10: Putting tank onto the tank supports  
photo J



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Step 11: Putting the black plastic base  
into the bottom base  
photo K



Step 12: Putting black plastic decorating ring  
onto each tube  
photo L



Step 13: Dipping tube orifice with Lube  
photo M



Step 14: Rotating Photo H into tank slowly  
photo N



Step 15: Covering black plastic decorating ring  
photo O



Step 16: Installing vacuum tube one by one  
photo P



### Marking Step 14&15 :

(1) Rotating the tube carefully into the hole of the tank and turn slowly in the watch direction, until the tube gets inside, aprox 5 cms and drawing out it slowly with the opposite direction until the end tube gets strongly fixed into its bottom base

(2) Move the black component to seal the tube with the tank

### Warning:

- (1) If the system is empty and it collects sunshin more than 30 minutes, Please do not fill the cold water avoiding breaking the tubes, because of the drastic temperature change. Fill it until the night.
- (2) When using the hot water in Summer, testing the hot water temperature avoiding the burn, using the mixed hot water and cold water.