

**First Solar Products, Inc**

10666 Gateway Blvd

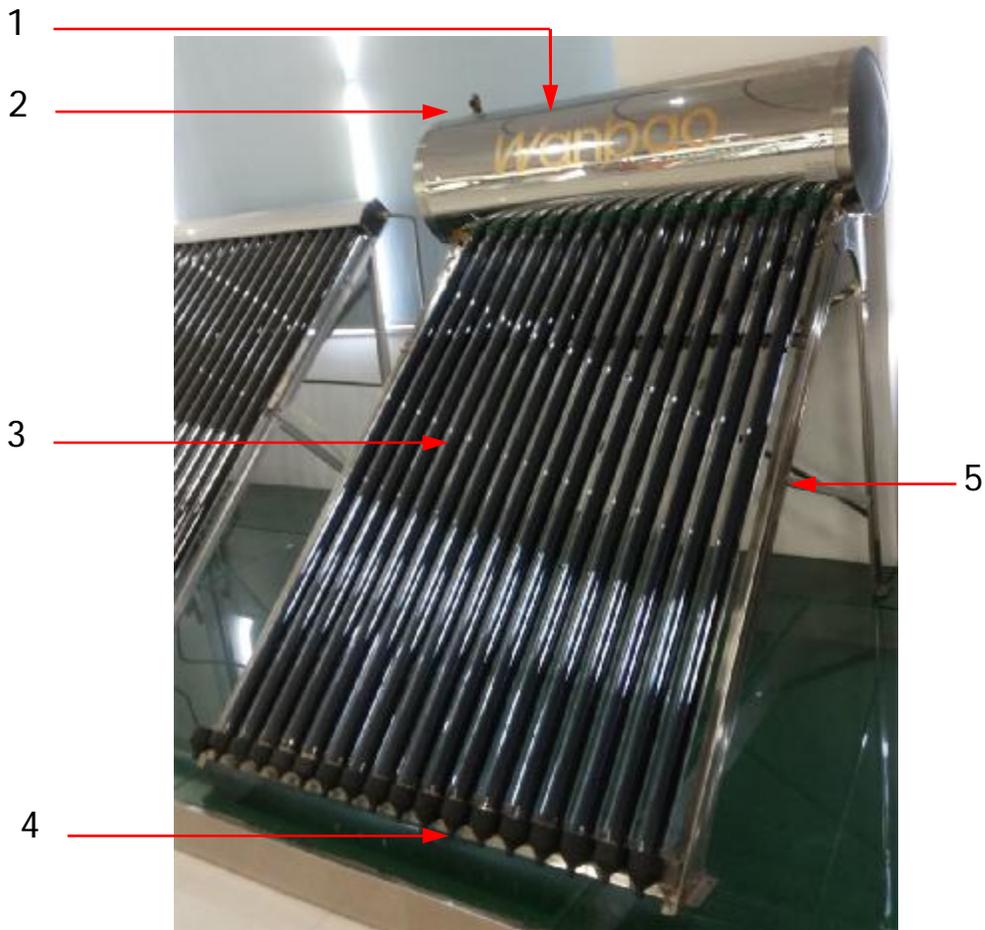
St. Louis, MO 63132

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## Structure of Solar Water Heater



1	Water tank	4	Tail bracket
2	Relief valve pipe	5	Bracket
3	Evacuated-tube		

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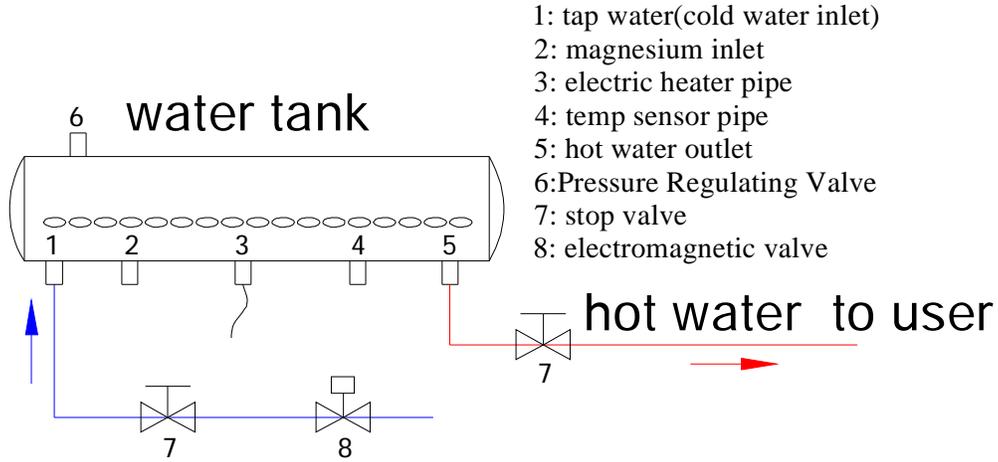
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**Installation explanation**

**STEP 1: Install the Bracket**



1. brackets
2. tools may need
3. water tank support
4. tube shoe bars
5. anti-dust ring
6. rubber gasket, silicon ring
*screws, bolts and nuts supplied

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Put the pieces of brackets and water tank supports together in order, and assemble with the screws, bolts and nuts, (do not tight all the way in the beginning. tight in the end).

		
P-1: put the pieces together	P-2: fix with screws, bolts and nuts	P-3: side
		
P-4: go on step after step	P-5: bracket assembly finished	

**STEP 2: Install Water Tank on the Bracket**

			
1. Put the two black rubber gaskets on the top of the water tank supports.	2. Remove the nuts fixed on the two sides of the water tank.	3. Put the water tank on the top of the bracket to make 4 bolts get through the holes	4. Tighten the nuts back onto the 4 bolts

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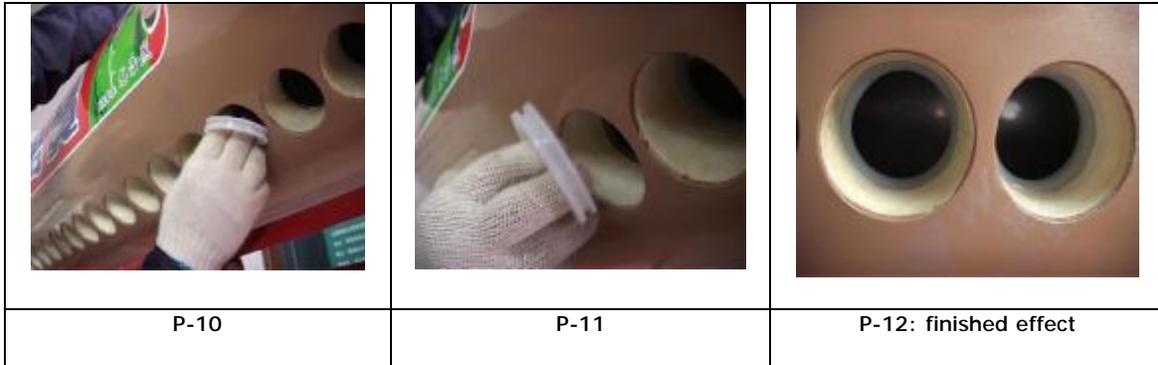
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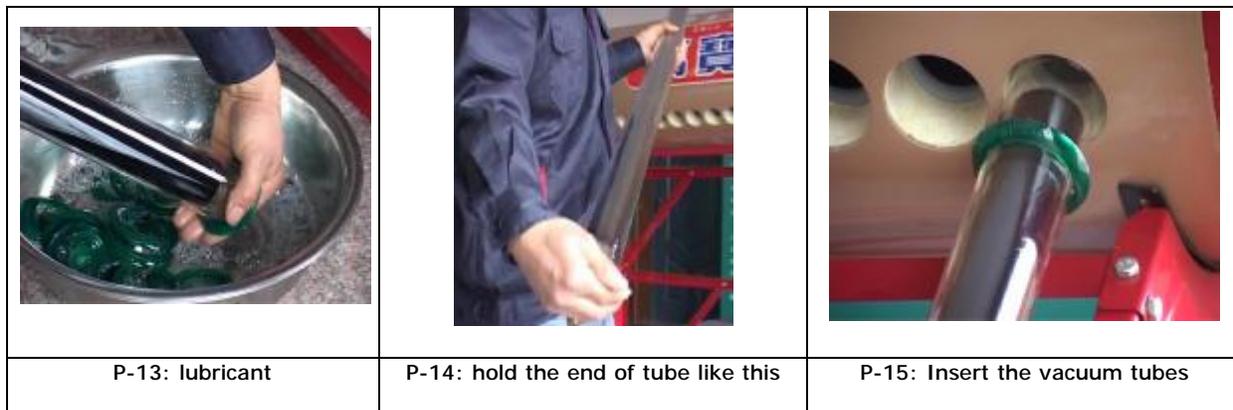
**STEP 3: Plug the Vacuum Tubes into the Water Tank**

**A. Insert the white silicon rings into the holes of the water tank. See P10--P12**



**\* If your water tank has already with the silicon rings inside, then move to next step directly.**

- B. Put some lubricant such as detergent on the anti-dust rings and the mouth of the vacuum tubes, Put the anti-dust rings onto the vacuum tubes. See P-14;
- C. Hold the end of the vacuum tube as P-14 shows, to protect the end of the tube from broken.
- D. Insert the vacuum tube (with turning) slowly into the water tank along holes of the tank. See P-15, then insert into the hole of the end seat. See P-16
- E. Firstly install the vacuum tubes on the two sides to test the balance of the whole system, if not balance, adjust the screws on the brackets, and then tighten the screws, as P-17 shows. Then, assemble the rest of the vacuum tubes on the system.



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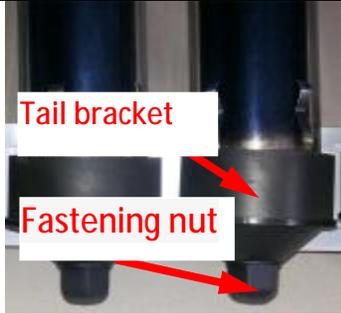
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 <p>Tail bracket</p> <p>Fastening nut</p>		
P-16: Insert the end of the tubes	P-17: plug the tubes on the two sides firstly to test the balance	P-18: Assembly completed

For pressurized systems, with dust ring on outside of tube, just insert heat pipe into the water tank. Move the dust ring up to close the space between the tube connecting to the water tank.



**STEP 4: Install the Pipe Connection**

The pipe connection include water pipes (the PPR pipe is the best) and pipe protector (anti-freezing pipe) for cold water inlet and hot water outlet, overflow tube, air vent, assistant electrical heater (if available). Put the cables into protector pipe when heating by electrical backup. Fix the inlet and outlet water pipe on brackets or on the roof. In the cold areas, you can add an drain valve to empty the inlet and outlet water pipes. There are labels marked beside every vent.

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P-19: water pipe and protector	P-20: insulate water pipe	P-21: wrap plumber's tape
		
P-22: insert the water pipe	P-23: water pipe installed	P-24: insulate water pipe
		
P-25: outflow tube	P-26: relief valve	P-27: whole set completed

## STEP 5: Install water heater on the roof

It is recommended that bracket or frame is securely installed on the roof at desired angle first before you insert all the tubes.