

Heat Pipe Vacuum Tube collector

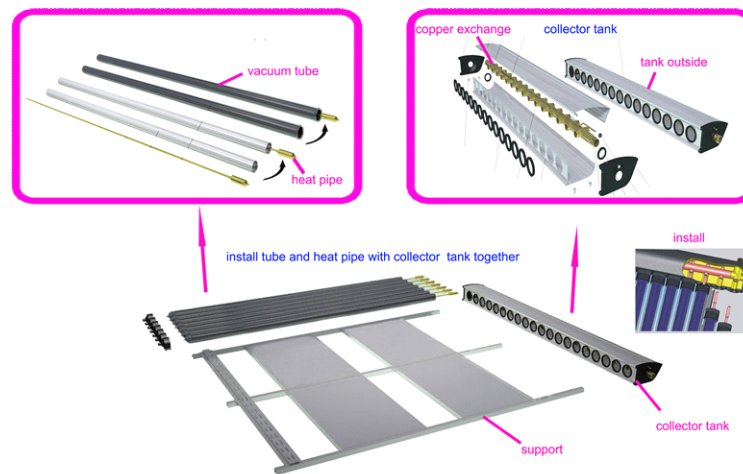
The heat pipe solar collector is one important part for the split pressurized solar system. This is consisted of great efficiency heat pipe and glass vacuum tube, with a great efficiency of heat collecting. This systems is mainly positioned on the roof or in the garden. And as this system is split with the water tank, so it's not heavy and looks very beautiful. This type system is now very popularly used in Europe, America and Australian countries.



How it works.

The heat pipe solar collector absorbs solar heat mainly by the vacuum tube and the heat pipe. When the vacuum tube absorbs solar heat, it transfers the heat to the aluminum fin inside, and the aluminum fin is in good touch with the heat pipe, so it transfer the heat to the heat pipe. As soon as the heat pipe is heated, the liquid inside it will become steam and rise up to the condenser part, and release the heat to the water that goes through it, and then the steam will become liquid again and restart the circulation.

Structure



Description

- 1) The water is heated by the heat pipe rapidly.
- 2) There is no water in the vacuum tube, so the tube will not break in the winter.
- 3) It can be combined with the architecture perfectly.
- 4) It will be affected by the local water quality, it doesn't suit hard water.
- 5) It can be still operate in the event of occasional tube breakages.
- 6) this collector can be worked under pressure and force system
- 7) Easy installation and servicing on sloping roof, plane roof and balcony
- 8) Top quality and high performance
- 9) Long life durability and easy maintenance
- 10) Stable solar conversion throughout the day
- 11) high efficiency with long-term stability

Datasheet

Heat Pipe Vacuum Tube	Glass tube	Three-target vacuum tube coating Cu-SS-ALN/AIN				
	Heat pipe	TU1 copper pipe with 14/24MM diameter condenser				
	Heat conductor	Shaped aluminum wrapping tightly copper heat pipe				
Manifold	Manifold header	TP2 copper diameter 35mm (larger size available)				
	Manifold shell	Anodized aluminum alloy gray or black color				
	Insulation	High-density rock wool and PU foam				
	Seals	High-temperature resisting silicon seal				
Bracket	Material	Shaped strong aluminum alloy for flat & tilt roof				
	Tube holder	Anti-aging UV stabilized nylon with adjustable cap				
Inlet /Outlet	22mm (1 inch male threaded available)					
Frame Angle	15°; 25°; 38°; 45°; 75° available					
Testing Pressure	12.0 bar					
Working Pressure	6.0 bar					
Anti-freezing	-40°C					
Hail Resistance	25mm					
Model	Heat Pipe Vacuum Tube		Aperture Area/ M2	Collector Size L*W/ MM	Container Loading Qty	
	Qty /Pcs	Size /MM			20GP	40HQ
MS-HC-58/12	12	Φ58*1800	1.13	1035*1950	162	394
MS-HC-58/15	15	Φ58*1800	1.41	1260*1950	134	325
MS-HC-58/18	18	Φ58*1800	1.69	1485*1950	105	255
MS-HC-58/20	20	Φ58*1800	1.88	1635*1950	88	213
MS-HC-58/24	24	Φ58*1800	2.26	1935*1950	82	200
MS-HC-58/30	30	Φ58*1800	2.82	2385*1950	68	165

Application

- 1) Domestic, industrial and commercial heating use
- 2) Suitable for open or closed Loop (glycol-water)
- 3) Space heating
- 4) Caravan Parks, Hotels, Schools, Public Showers/Kitchens , Restaurants
- 5) For large scale water heating

