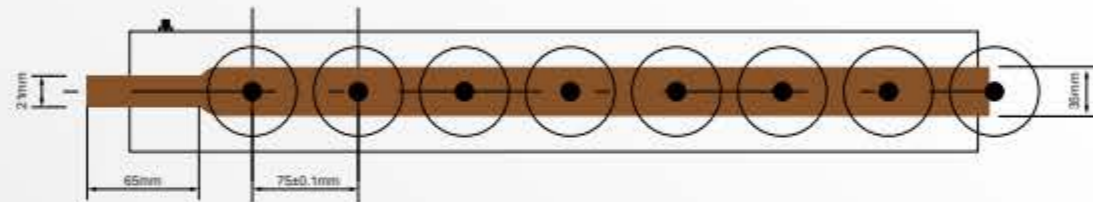


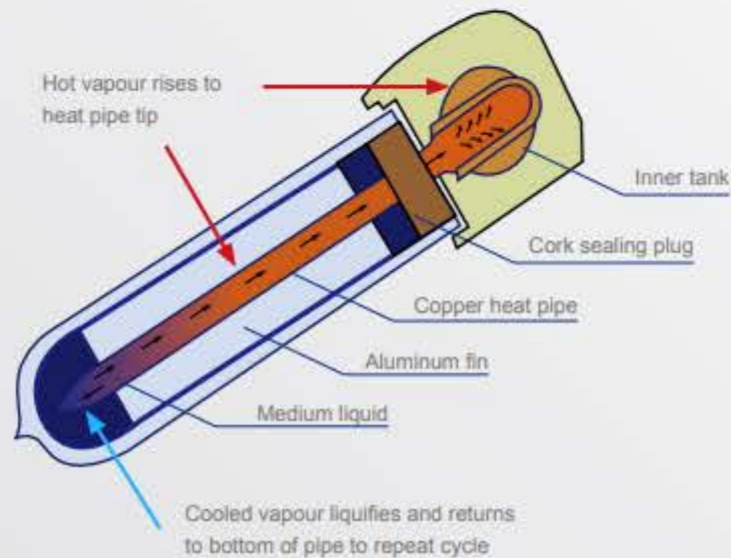


Pressurized Solar Collector With Heat Pipe



Specifications:

- Manifold interior: Copper Header Pipe
- Manifold exterior: Aluminium Alloy
- Bracket: Aluminium Alloy / Galvanized Steel
- Vacuum Tube: All-glass Vacuum Tube with AlN/AlN-SS/CU coating and a Copper Pipe inside.
- Tube Numbers: 10,15,20,25,30pcs



Working Principle



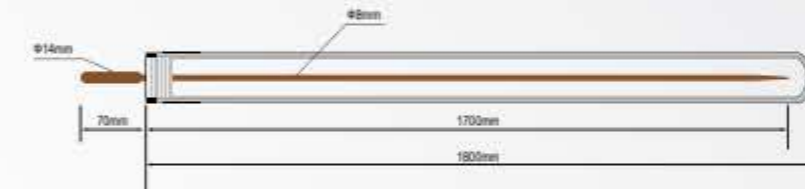
Heat Pipe Vacuum Tube



Feature:

A perfect combination of the vacuum tube and the heat pipe

- Higher heat efficiency: advanced heat transferring style of the heat pipe, excellent selective absorbent coating and perfect combination with high vacuum heat preservation.
- Wide applicable range: as the heat pipe has less heat capacity, it can be started quickly even under cloudy fine day and collect heat effectively. It can work normally even -30 below degree. As no water in the vacuum tube, it can effectively prevent lowering of heat efficiency due to frost cracking or scaling.
- Each individual tube can work independently, and the whole machine can still work if individual tube is damaged. The service life of the heat pipe can be longer than 15 years.
- The unique connection between the heat pipe and the vacuum tube can ensure both sealing and replance of damaged glass vacuum tube.



Working Principle:

The selective coating on the inner cover of the evacuated tubes converts solar energy into heat energy and transfers heat to the heat pipes by aluminum fins. The liquid in the heat pipe changes into vapour which rises to the condenser. The heat then passes through the heat exchanger and the vapour becomes liquid. Returning to the base of the heat pipe, the heat conducts to the heat transfer liquid (anti-freezing liquid or water) via 8 copper pipe. This transference of heat into the liquid creates a continuous circulation as long as the collector is heated by the sun.

