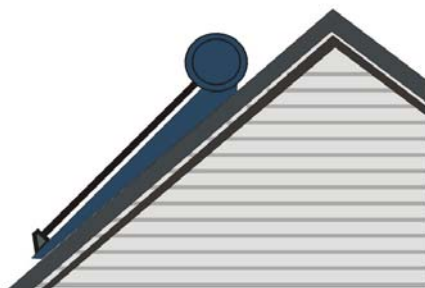


Integrated pressure system

■ ITM-PI



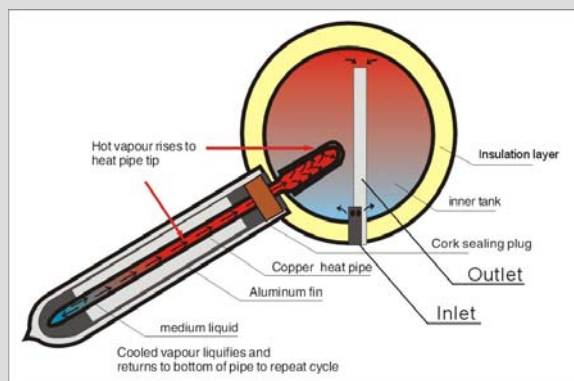
installed on the slope roof



installed on the flat roof

Advantages:

- ◆ Highly efficient absorber of high performance with daily average efficiency over 50%;
- ◆ Start up quickly, heat pipe transfer the heat energy into the storage tank in one direction.
- ◆ Withstand pressure of 6 Bar, can be connected directly with city water.
- ◆ No water inside the evacuated tubes; the solar water heater can still in service even with several tubes breakage;
- ◆ Highly efficient insulation with polyurethane foam;
- ◆ Simple structure, easy to assembly and install, diffuse flat plate reflector can be assembled easily with its module structure;
- ◆ Can be used all year round in the cold climate;
- ◆ Can be used together with Auxiliary electric boost;
- ◆ Long service life, can be used as long as 15 years;



Specifications:

Material of storage tank

Outer tank: colorful steel, 0.4mm thick

Inner Tank: S.S.3042B. 1.2mm

thick Insulation Polyurethane foam, 50 mm

working pressure: 10Bar

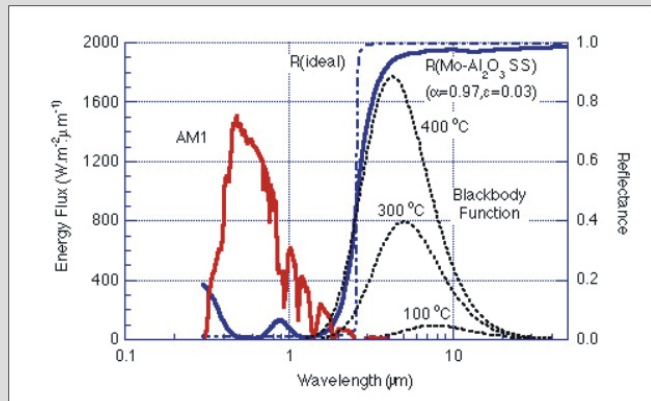
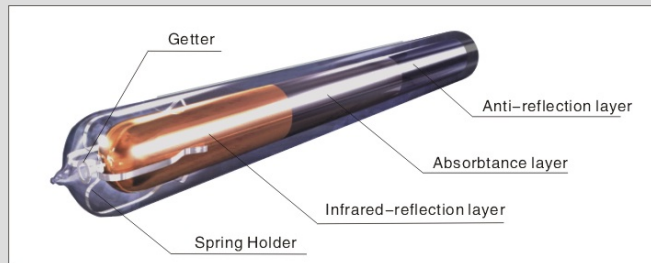
Daily efficiency: $\geq 55\%$ ($\geq 42\%$ in winter)

New tri-element vacuum tuber



Feature:

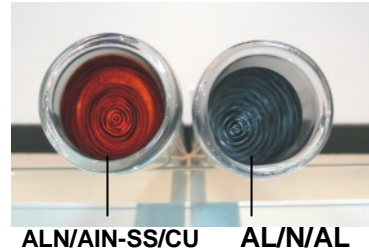
Vacuum tubes assimilate the advanced 12 layers of sputtering deposition of trivalent element technology, high borosilicate glass, gradual change of ALN/AIN-SS/CU selective complex absorptive coating. And these make vacuum tubes have high performance of absorptance and low reflection ratio. Through the interlayer, vacuum has a unique effect of thermo, with its temperature up to 380°C of idle sunning, performing a strong heating ability.





Specification of all-glass Evacuated Solar Collector Tubes

- 1). Structure: all glass concentric dual tube geometer
- 2). Glass material: borosilicate glass
- 3). Absorptance: >0.92
- 4). Emittance: <0.08 (80°C)
- 5). vacuum: <5*10⁻³ Pa
- 6). Stagnation >230 m². °C/KW
- 7) average heat loss: <0.8w/ m². °C
- 8). Lifetime >15years



Specifications:

- ◆ Manifold (interior): red copper
- ◆ Manifold (exterior): aluminum alloy
- ◆ Glass tube dimensions: 58mm x 1.8m / 47mm x 1.5m
- ◆ Daily efficiency: ≥55% (≥42% in winter)
- ◆ Hail resistance: 25mm
- ◆ max pressure: 12 bar
- ◆ Coating of vacuum tube: **ALN/AIN-SS/CU**
- ◆ Heat Pipe: anti-freezing > -35 ° C

Model Name	Tube Specification	Tube Coating	Absorber Area	Tank Capacity	Loading 20'/40'
ITM-PI-150	Φ58mm*1800mm*15	Heat pipe	1.95M ²	150 L	40/80
ITM-PI-200	Φ58mm*1800mm*20	Heat pipe	2.35M ²	200 L	30/60
ITM-PI-250	Φ58mm*1800mm*25	Heat pipe	3.12 M ²	250 L	26/52
ITM-PI-300	Φ58mm*1800mm*30	Heat pipe	3.91 M ²	300 L	22/44