

Collector Structure

1. Collector manifold
2. Insulation
3. Copper header pipe
4. Stainless steel mounting frame
5. Evacuated tube
6. Heat transfer fin & heat pipe

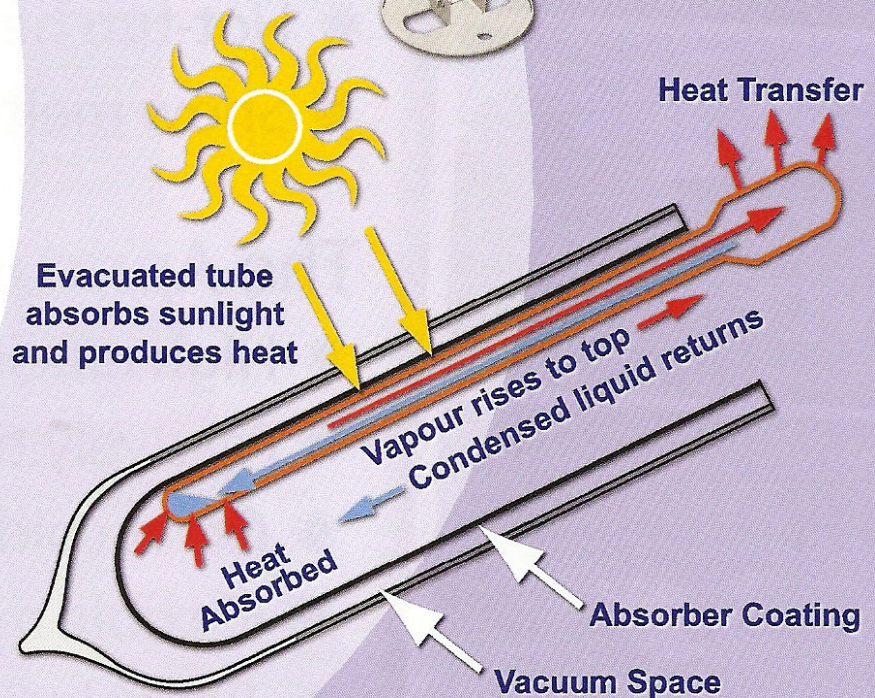
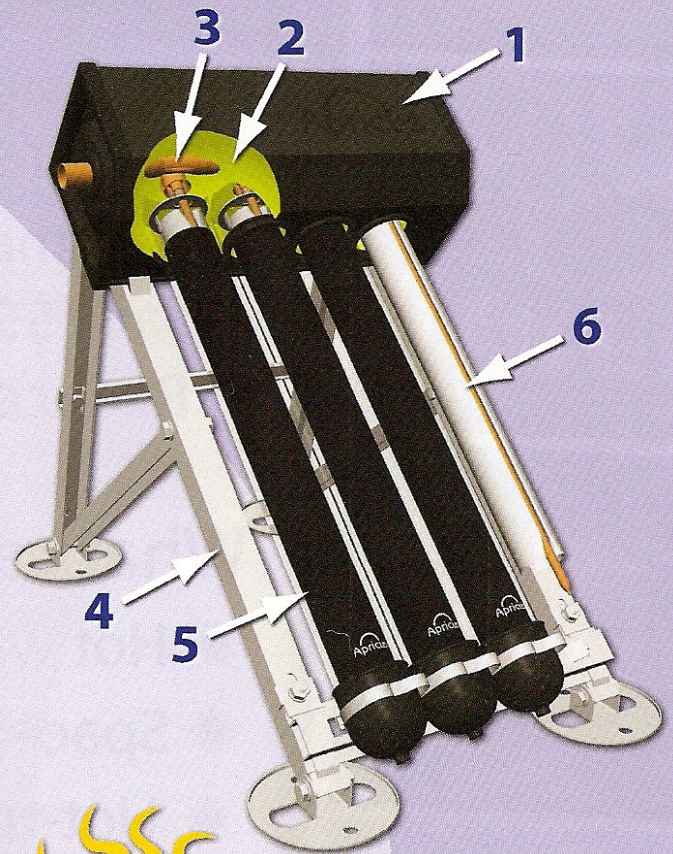
Operation

Step 1. The sunlight strikes the dark-blue absorber inside the evacuated tube.

Step 2. The heat pipe transfers the heat up to the copper header pipe location in the insulated manifold box.

Step 3. A pump circulates water through the copper header pipe warming the water. In cold regions an anti-freeze water mix is circulated through the collector to prevent freezing.

Step 4. The water or anti-freeze mix circulates back into the storage tank heating the fresh water inside the tank. If anti-freeze is used, a heat exchanger is also used.



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