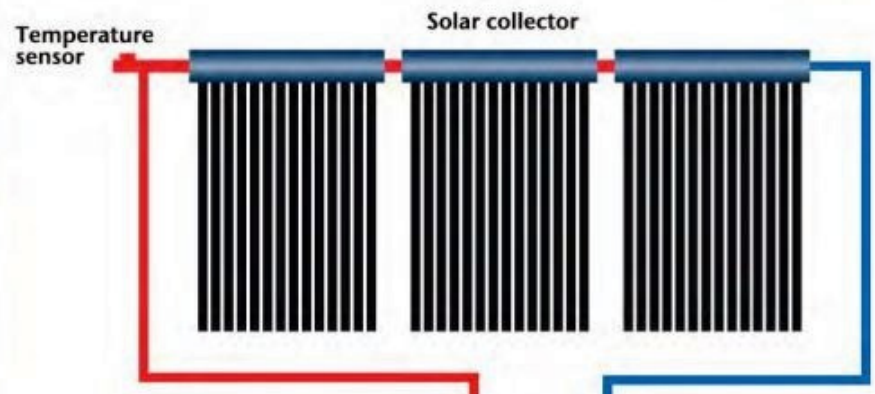
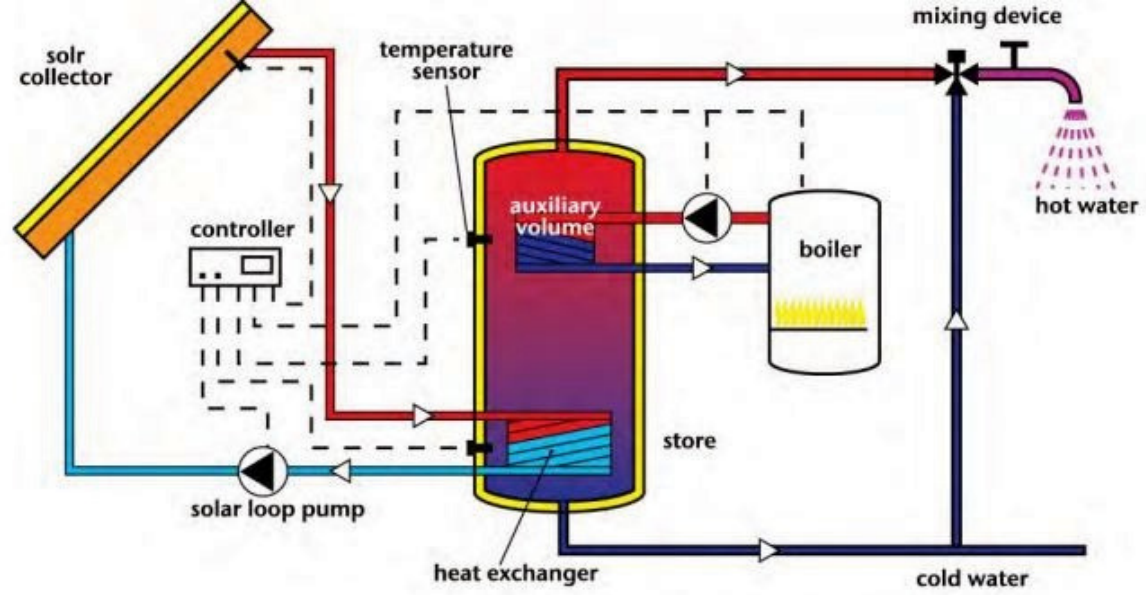


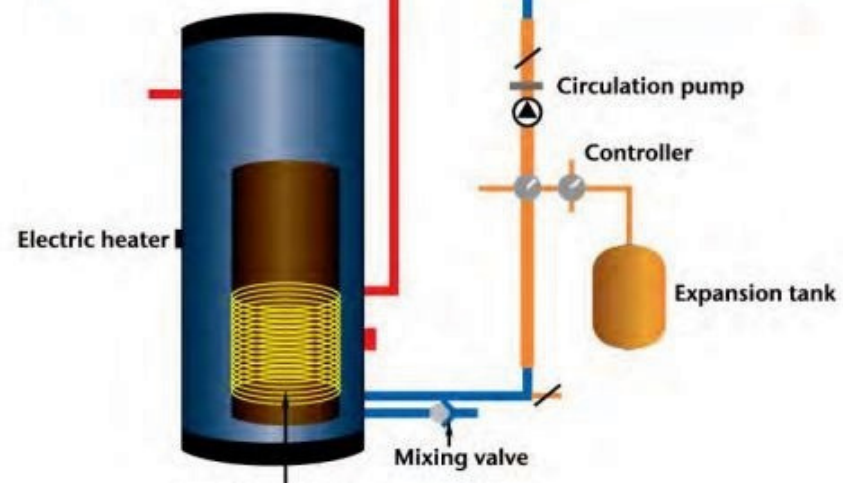


Solar Water Heater Commercial



Solar collector technical Specifications

Manifold Casing Material	304 Stainless Steel or Powder Coated Aluminium
Frame Material	304 Stainless Steel
Header Pipe Material	C12200 Copper
Insulation	Polyurethane 55mm
Rubber Seals and Rings	UV stabilized high temperature silicon rubber
Optimal installation angle	30-70° Vertical, 0° Horizontal
Maximum Operating Pressure	6bar - 85psi
Pressure Drop	700 Pa @ 3.3l/min for 20 tube manifold (SRCC)
Optimal flow rate	0.1l/min/tube - 0.026G/min/tube
Performance Data (SPF)	Conversion Factor: $h_0 = 0.717$ Loss Coefficients: $a_1 = 1.52, a_2 = 0.0085$

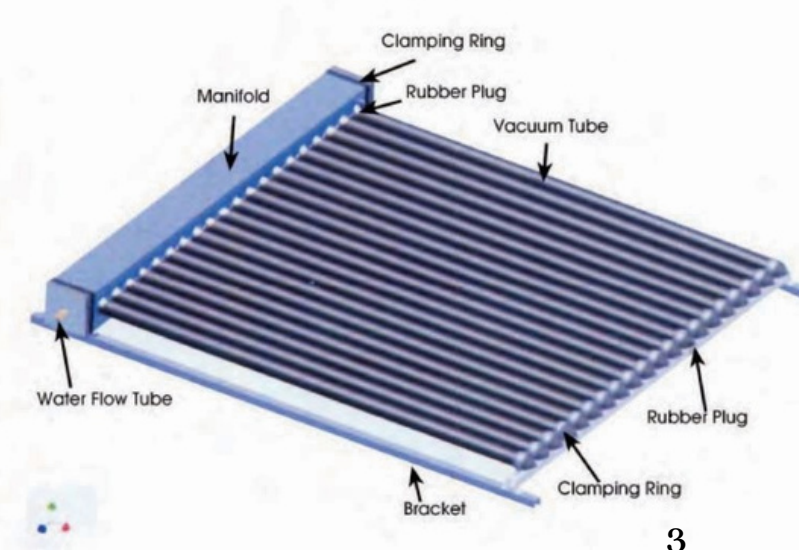
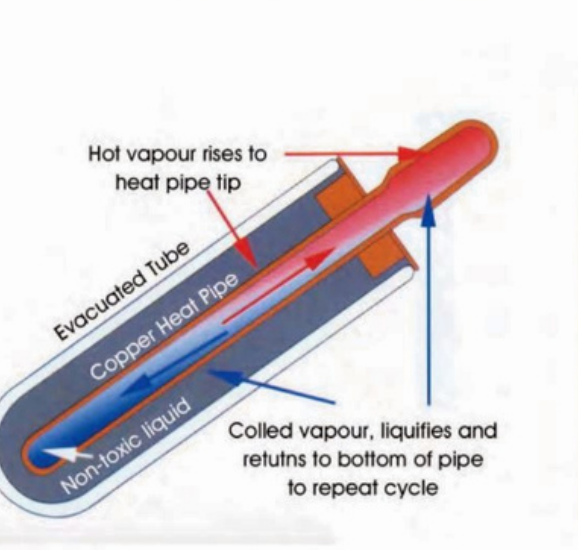
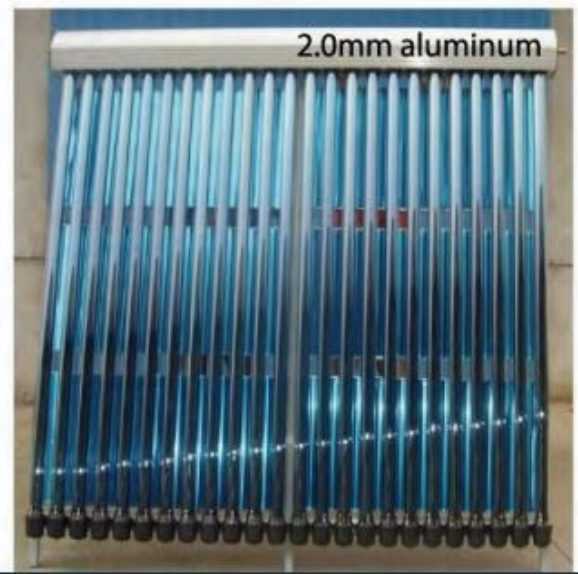
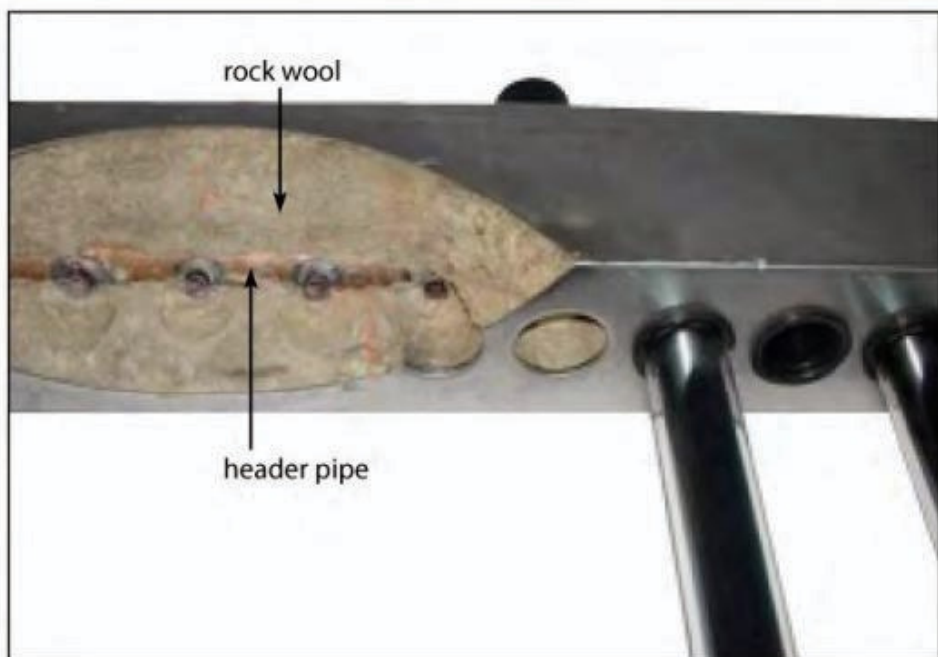
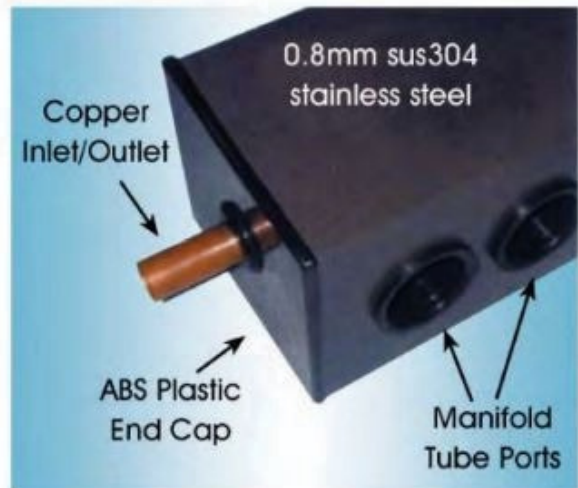
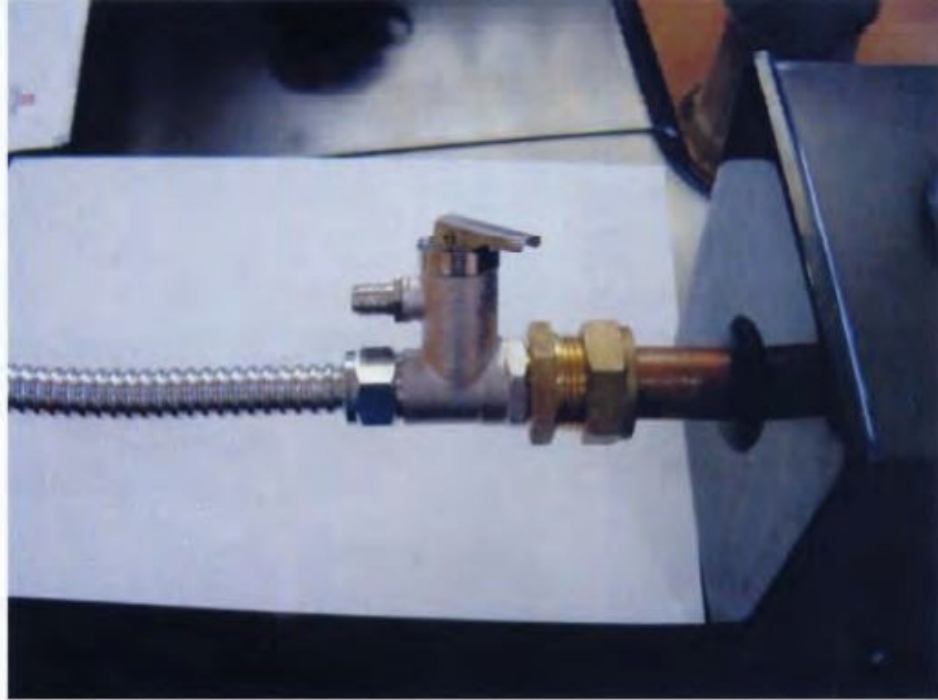
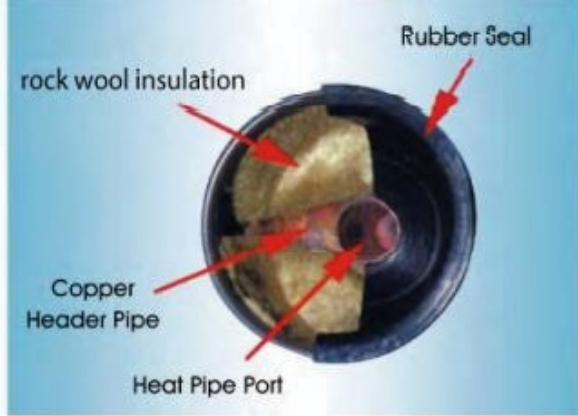


Copper pipe

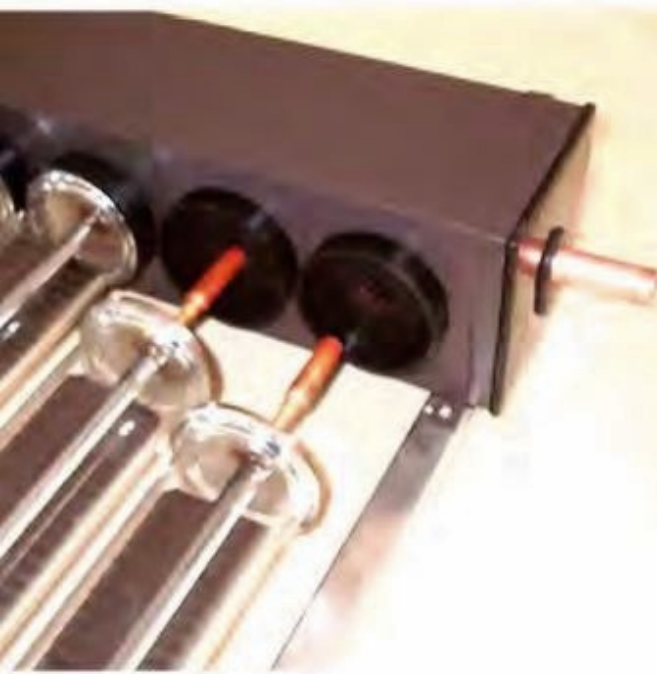


Glass vacuum tube

Model	product Size (mm)	lighting (m ²)	Supply hot water (L / °C)	Qty. per 20' / 40' Container	
SPA(B) -58/1800-12	1090×1520×1400	1.99	110 (60°C)	123	258
SPA(B) -58/1800-18	1570×1520×1400	2.66	150 (60°C)	82	172
SPA(B) -58/1800-20	1730×1520×1400	2.98	175 (60°C)	73	155
SPA(B) -58/1800-24	2050×1520×1400	3.56	220 (60°C)	56	118
SPA(B) -58/1800-30	2530×1520×1400	4.43	260 (60°C)	45	96



Big heat-pipe technical data



Model	Glass vacuum tube
Glass material	High-quality borosilicate glass
Glass tube diameter	Φ70mm
Thickness of vacuum	Φ10mm
Wall thickness	2mm
Single tube weight	2kg
High vacuum, long-term stability	5x10 ⁻³ Pa
Absorber material	Aluminum
Coating	Aluminum Nitride
Absorption coefficient	α≥0.94
Wind resistance	30m/s
Freezing tolerance	-30
Hail resistance	Φ35mm hail
Insolation temperature	250
Start-up temperature	≤0.94

- Glass evacuated tube Technique specification
- Material: borosilicate glass according to ISO3585:1991; transmittance of borosilicate glass:0.92. Absorbance of solar selective absorptive coating:0.94; Hemispherical emittance:0.08; Getter according to GB/T9505 - 1998.
- Start-up temperature: no more than 25.
- Start-up time: no longer than 2 minutes under normal sunshine.
- Low temperature resistance: no breaks at - 30.
- Heat impact resistance: no damages after over 3 times' alternative impacts of cold water below 25 and hot water over 90.
- Pressure resistance: can withstand 0.6 Mpa.
- Hail resistance: no damage by the impact of ϕ 25mm hail.
- Appearance standard: the color of the selective absorptive coatings should be even, and the coatings should have no wrinkles and peelings. The allowed tolerance of borosilicate glad tube's diameter should be in accordance with ISO4803: 1978, camber of the borosilicate glass tube should be no more than 0.3%.

Model	product Size (mm)	lighting (m ²)	Supply hot water (L / °C)	Qty. per 20' / 40' Container	
SPA(B) -70/1700-10	SPA1065×1360×1265	1.5	120 (60°C)	132	278
SPA(B) -70/1700-20	SPA2015×1360×1265	3.1	240 (60°C)	62	122
SPA(B) -70/1700-25	SPA2490×1360×1265	4	300 (60°C)	45	96

SP Element



Assistant tank 165/210

Stainless steel inner and outer tank ,polyurethane foam, like toilet float valve, make up water automatically and stop making up if the tank is full



Electric heating, L shape, install at the bottom of the tank

1500W,2500W,3000W,with CE mark, L shape,47mm



Electric heating, 1 shape, install at the side of the tank

1500W,2500W,3000W,with CE mark, 1 shape, can be 3/4 inch or 1 inch



Magnesium anode, protect inner tank from corrosion

Anodized magnesium bar, to attach the dirt in the tank



Automatic make up valve

Same function as assistant tank, used in the area water quality not good, and have stable pressure



TMC water temperature and level display

Temperature, level display



Controller SR 618

Temperature difference on/off;collector emergency cut-off;frost protection;auto function

SPA Element



Pump station

Including Wilo RS15/6 pump station,SPC-2 controller, water flow meter, water pressure meter, expansion tank, safety valve



Controller SR 868

Time and temperature display, temperature difference controlled circulation, hot water timing circulation or heating at three preset time sections, frost protection, memory protection when power is failure, trouble indication of sensor



Wilo circulation pump

RS15/6 wilo pump, pipe connection 15mm, lift 6meter



29/12 wilo pump, pipe connection 29mm, lift 13meter



Expansion tank
8L



Copper connection 1/2'\3/4'
All kinds of connection



Roof mounting kits



Temperature and pressure relief valve



Insulation pipe (single)



Safety valve



Thermostat valve



Check valve 1/2", 3/4"



Clear water pump



Include Wilo RS15/6 pump station, SP868 controller, water flow meter, water pressure meter, expansion tank, safety valve



Soft connection 3/4'



Pressure relief valve



Include Wilo RS15/6 pump station, SP618 controller, water flow meter, water pressure meter, expansion tank, safety valve



Roof mounting kits



Roof bolt



Roof mounting kits



Twinpipe, 1/2", 3/4"



Flexible pipe 1/2", 3/4"



Heat exchanger



Special heat transfer fluid for thermal solar system equipped with evacuated tube collector, ready-to-use Frost protection -28°C