

Glass Evacuated Solar Heater

Heat Pipe Solar Collector



Technical Specification:

Model	Area (m ²)	Vacuum tube			Volume (L/day)
		Ø (mm)	Length (mm)	Qty (pcs)	
SA/SB – 47/1500-12	1.20	47	1500	12	60
SA/SB – 47/1500-15	1.50	47	1500	15	70
SA/SB – 47/1500-18	1.80	47	1500	18	120
SA/SB – 47/1500-20	2.00	47	1500	20	120
SA/SB – 47/1500-24	2.40	47	1500	24	150
SA/SB – 47/1500-30	3.00	47	1500	30	180
SA/SB – 58/1800-12	1.99	58	1800	12	110
SA/SB – 58/1800-18	2.66	58	1800	18	150
SA/SB – 58/1800-20	2.98	58	1800	20	175
SA/SB – 58/1800-24	3.56	58	1800	24	220
SA/SB – 58/1800-30	4.43	58	1800	30	260
SA/SB – 70/1700-10	1.99	70	1700	10	120
SA/SB – 70/1700-20	3.22	70	1700	20	240
SA/SB – 70/1700-25	4.32	70	1700	25	300

Manifold casing material	Aluminium/SUS304 stainless steel
Frame material	Aluminium/SUS304 stainless steel
Header pipe material	Copper
Heat pipe material	Copper
Insulation	Rock wool
Rubber seals and rings	UV stabilized high temperature silicon rubber
Test pressure	9 bar
Collector mounting	Flat roof / inclined roof
Mounting angle	15 – 50°
Inlet Outlet	¾"

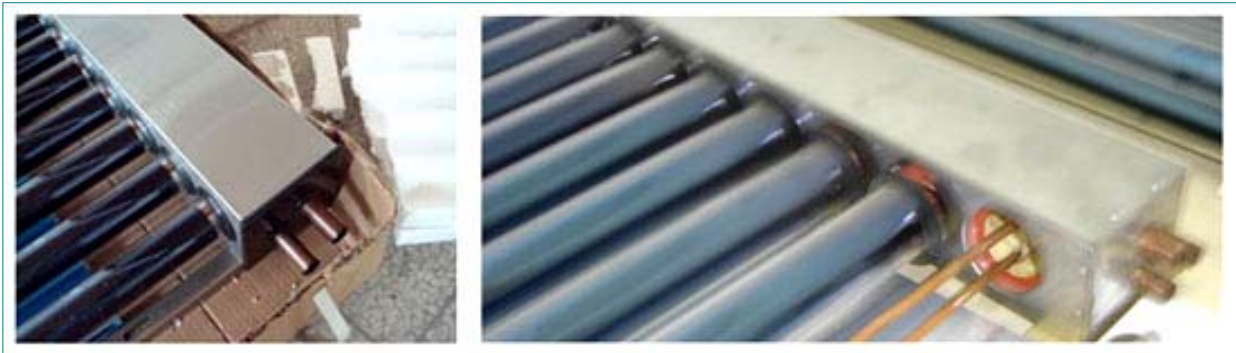
Features:

1. Reliable, efficiency, twin-glass solar tubes heat pipe
2. Copper heat pipes for rapid heat transfer
3. Low maintenance effort
4. Easy installation sliver brazed copper header



Note: Absorber area is the part of the collector that actively absorbs the light rays. For solar tubes this is defined as the cross-sectional area of the inner tube (selective coated) measured using the outside diameter (Eg. 0.047 x 1.72 m = 0.08 m²)

U Pipe Solar Collector



Technical Specification:

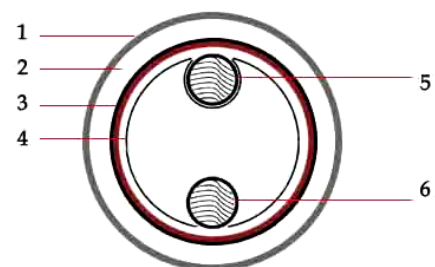
Model	Area (m ²)	Vacuum tube			Volume (L/day) – 60°C
		Ø (mm)	Length (mm)	Qty (pcs)	
SU-58/1800-12	1.99	58	1800	12	120
SU-58/1800-18	3.56	58	1800	18	180

Manifold casing material	Anodized aluminium (2.5-3mm)
Frame material	Anodized profiled aluminium bar (2.5-3mm)
Header pipe material	Copper
U pipe material	Copper
U pipe diameter	8 mm
Insulation	Rock wool
Rubber seals and rings	UV stabilized high temperature silicon rubber
Test pressure	9 bar
Collector mounting	Flat roof / inclined roof
Mounting angle	15 – 50°
Inlet Outlet	¾"

Features:

In each vacuum tube there is a U pipe with direct flow-through that is connected to the header pipe inside manifold. This U pipe is seamed in an aluminium heat transfer fin in the interior of vacuum tube that transmits the heat from the interior tube to the U pipe.

Solar radiation permeates the outer glass tube and is captured on the outside of inner glass tube by highly selective sputter layer. The captured solar radiation is transmitted to flush-contact aluminium shield and then copper pipe filled with heat transfer fluid. The 360°aluminum heat transfer fin assures the fastest energy transfer.



1. **Outer glass**
2. **Vacuum**
3. **Selective coating**
4. **Aluminium heat transfer fin**
5. **U pipe(Hot terminal)**
6. **U pipe(Cold terminal)**

Note: Absorber area is the part of the collector that actively absorbs the light rays. For solar tubes this is defined as the cross-sectional area of the inner tube (selective coated) measured using the outside diameter (Eg. 0.047 x 1.72 m = 0.08 m²)

Accessories



Magnesium stick



Expansion tank



Electric Heating



System Controller



Assistant tank



Temperature Sensor



Wilo Pump



European Standard Plug



Flowmeter



Copper connector



Copper Connector



Relief valve for Pressure



Ball Valve



Constant Temperature Valve



Connector Bend