

EXCELLENT VALUE:

- High performance evacuated heat pipe tube collectors
- Maintenance free

QUICK & EASY INSTALLATION:

- All parts can be carried individually onto the roof for assembly
- Tubes simply plug into dry pockets within the manifold casing

WEATHER RESISTANT:

 Capable of resisting 35mm diameter hailstones, 80m/h (130 km/h) winds and snow load 1000 Pa

DURABLE, FLEXIBLE AND STYLISH:

- 10 years warranty, plus long lifespan
- Works best in a south facing direction or can be adapted to work in an east / west facing direction
- Mounting options Fixes directly onto a pitched roof
- Adjustable A-frames available for flat roofs or ground mounting

FULLY COMPLIANT WITH WORLDWIDE STANDARDS:

- Solar Keymark No: 011-7S695 R
- ETL No: 01746 (qualified for Energy Technology List in UK)
- Eligible for Renewable Heat Incentive (RHI) and UK Government grants



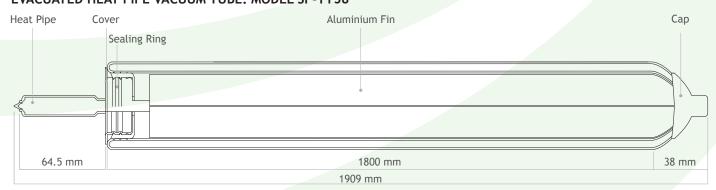








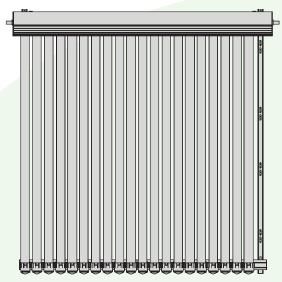
EVACUATED HEAT PIPE VACUUM TUBE: MODEL SP-TT58

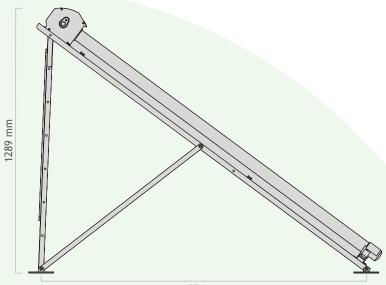


Size of Conderser	φ14 × 64.5 mm	
Length of Glass Tube	1800 mm	
Outer Tube Diametre	φ58 mm	
Inner Tube Diametre	φ47 mm	
Glass Thickness	2 × 1.6 mm	
Glass Material	Borosilicate Glass 3.3	

Absorptive Coating	ALN/AIN - SS/CU
Absorption Coefficient	>92%
Emission Coefficient	<8%
Vacuum	P<3.5 × 10 ⁻³ Pa
Net Weight	2.70 kg
Hot Water Output (17Mj/m².day Δ T=45 $^{\circ}$ C)	9L

TECHNICAL DATA





1	5	74	m	m

	15/4 mm			
	SP-S58/1800A- 10	SP-S58/1800A- 20	SP-S58/1800A- 30	
Dimensions				
Width of collector	890 mm	1689 mm	2488 mm	
Length of collector	1980 mm	1980 mm	1980 mm	
Overall area	1.764 m²	3.344 m ²	4.926 m ²	
Aperture area	0.944 m ²	1.86 m²	2.853 m ²	
Absorber surface area	0.815 m ²	1.63 m²	2.444 m²	
Height above roof surface	155 mm	155 mm	155 mm	
Manifold capacity	0.65 L	1.20 L	1.90 L	
Inlet and Outlet pipe dimensions	22 mm	22 mm	22 mm	
Weight - empty	36.88 kg	69.60 kg	102.80 kg	
Mounting				
Working angles	20° - 70°	20° - 70°	20° - 70°	
Operation Data				
Absorber efficiency η _{OA}	0.691	0.691	0.691	
Aperture efficiency noa	0.592	0.592	0.592	
Heat loss coefficient a1 based on aperture area	1.9789W/m ² K	1.9789W/m ² K	1.9789W/m ² K	
Heat loss coefficient a2 based on aperture area	0.0149W/m ² K ²	0.0149W/m ² K ²	0.0149W/m ² K ²	
Peak power performance of absorber area (G = 1000W/m²)	690.67W/m ²	690.67W/m ²	690.67W/m ²	
Annual energy collected (G=1000w/m²)	563.17Kwh	1126.33Kwh	1688.8Kwh	
Minimum working temperature	-35°C	-35°C	-35°C	
Maximum operating pressure	8 bar	8 bar	8 bar	
Stagnation temperature	194°C	194°C	194°C	
Heat transfer fluid	Water/Glycol	Water/Glycol	Water/Glycol	
Flow Rate				
Flow rate	60 L/hr	120 L/hr	180 L/hr	
Minimum	60 L/hr	120 L/hr	180 L/hr	
Maximum	120 L/hr	240 L/hr	360 L/hr	
Material				
Manifold casing	Extruded anodised aluminium			
Insulation	Rockwool 60 - 80 mm			
Frame	Stainless steel			
Tube	1.6 mm borosilicate glass 3.3			
Header Pipe	Copper			

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WesTech Solar Collectors are available from:

