

Heritage

Model RTPS 58-1800/AL



58-1800 model using heat pipe instead of water flowing in the evacuated tube directly. It's performance great even the temperature is minus 40°C. Connect some pieces of solar collector can form a large solar system that can supply hot water to restaurant, swimming pool. Hotel, Industry

Models	Specification			Effective collector area m ²
	Vacuum tuber	Capacity (Liter/Day/60°C-90°C)	Copper Heat Pipe	
RTPS 15-5818	Ø 58x1800x15Pcs	120-150	Yes	1.99
RTPS 20-5818	Ø 58x1800x20Pcs	170-200	Yes	2.66
RTPS 25-5818	Ø 58x1800x25Pcs	220-250	Yes	3.32
RTPS 30-5818	Ø 58x1800x30Pcs	260-300	Yes	3.98

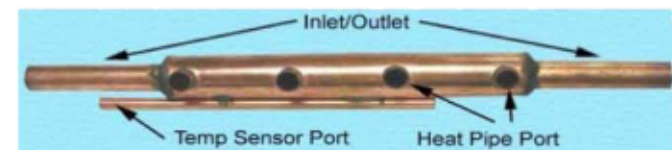
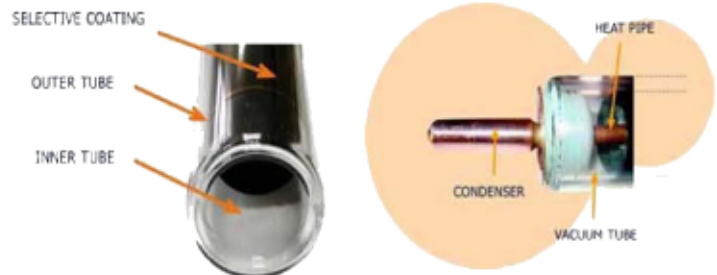
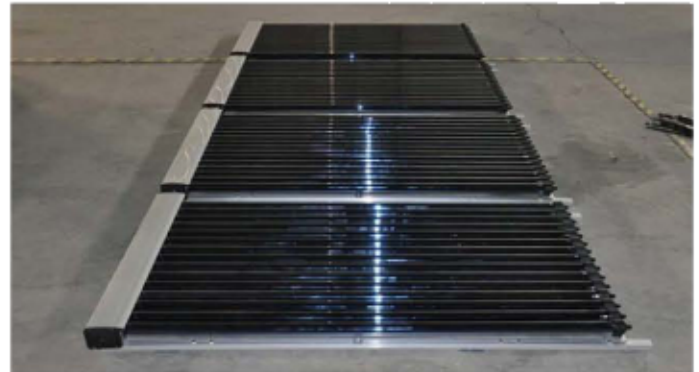
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กรมพัฒนาพลังงานทดแทน
และอนุรักษ์พลังงาน
กระทรวงพลังงาน

Features: Technical Specifications

Length	1800mm
Outer tube diameter	58mm
inner tube diameter	47mm
Weight	2.2kg
Glass thickness	1.6mm
Evacuated Tubes	Borosilicate 3.3
Absorptive coating	Graded AL/N/AL
Vacuum degree	$P < 5 \times 10^{-2} \text{ Pa}$
Thermal expansion	$3.3 \times 10^{-6} / ^\circ\text{C}$
Insolation Temperature	$> 200^\circ\text{C}$
Absorptance	$> 96\%$
Emissivity	$> 4\%$ (80°C)
Heat loss	$> 0.8 \text{ W}/(\text{m}^2\text{C})$
Maximum pressure	0.8Mpa
Resist wind	30m/s
Start-up temperature	$\leq 25^\circ\text{C}$



- Apply for two layers 3.3 high boron silicon glass tube
- The two layers glass tube, with same axis is vacuumzed between them, the vacuum
- Degree can reach $5 \times 10^{-2} \text{ Pa}$.
- Coated with AL\N\AL selective absorbing coating material.
- High absorbing efficiency: The vacuum magnetic-control sputtering selective absorptive coating on the heat-collecting plates has a high absorption coefficient of more than 96%, and the emission coefficient around 4%
- Long life: The life span can reach 15 years.
- High practicability: Able to endure impact of hail less than 25mm in deameter with high heat efficiency throughout the year.
- Heat Pipe High Purity "Oxygen Free Copper"
- Heat Transfer Fin High Purity Alumium.
- Copper Header Pipe Copper Maximum pressure 800 kpa
- Tube Clips 301 Stainless Steel
- Fasteners 304 Stainless Steel
- Rubber Components HTV Silicone Rubber (UV Stabilized)

Features:

1. High efficiency solar collector using heat pipe-double wall glass evacuated tubes.
2. Anti-freezing, work temperature: $-40^\circ\text{C} \sim 200^\circ\text{C}$, Performance great in all climates.
3. No water flow in the evacuated tube, Tubes are easily replaced if broken and the broken tubes not effect other tubes' working.
4. Easy plug-in installation for mounting on flat roof and inclined roof.
5. Working pressure: 6 bar.
6. Frame material: 6005-T5 Aluminum Alloy.
7. Manifold material: Aluminum (5005-H16 Aluminum with Anodized)
8. Manifold insulator $> 30 \text{ mm}$ Glass wool
9. Weight 96kg.
10. Can form a large solar system supply hot water to hotel, restaurant, swimming pool and so on.