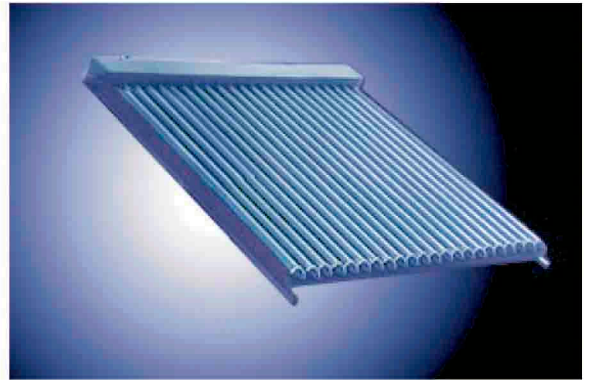


Glass Evacuated Tube Collector MPi58-1800-24-AG

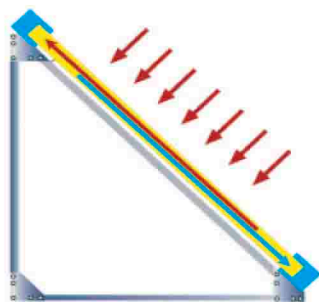
The glass evacuated tube collector MPi58-1800-24-AG moves household water through the system with pump, valves, and controller. Its design is efficient with lower operating cost, but it is not appropriate if water is hard or acidic, as scale and corrosion will quickly disable the system.

Features MPi58-1800-24-AG

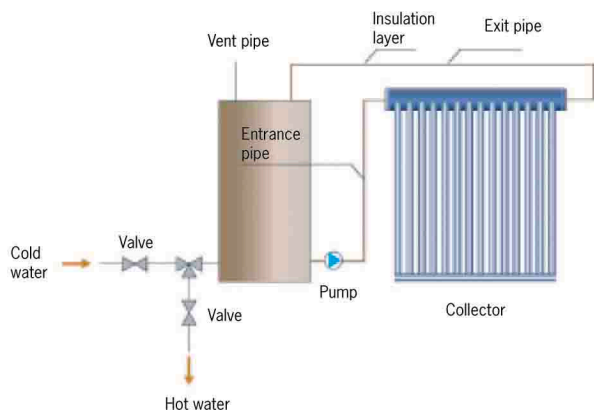
- Used for low pressure water heating system
- High thermal efficiency due to vacuum glass insulation
- Reliable, simple structure, easy installation
- Daily average efficiency > 50%
- Borosilicate glass : high chemical and thermal shock resistance
- Withstands water pressure < 0.2MPa
- Very simple assembly process - low assembly costs
- Could be installed using parallel or series connection



Typical section diagram of MPi58-1800-24-AG



Schematic wiring diagram of MPi58-1800-24-AG



Specifications MPi58-1800-24-AG

Model	MPi58-1800-24-AG
Collector type	evacuated tube collector
Installation type	roof mounted or ground stand
Tube structure	all glass coaxial double-layer tubes
Outer tube diameter	$\Phi 58 \pm 0.7\text{mm}$
Inner tube diameter	$\Phi 47 \pm 0.7\text{mm}$
Outer tube thickness	$1.5 \pm 0.15\text{mm}$
Inner tube thickness	$1.5 \pm 0.15\text{mm}$
Tube length	$1800 \pm 4\text{mm}$
Unit tube weight	$2.0 \pm 0.1\text{kg}$
No. of tubes	24
Absorber surface area	1.82m^2
Absorptance (α)	$0.94 \sim 0.96$
Emissance (ϵ)	$0.04 \sim 0.06$
Collector glazing	evacuated tubes (borosilicate glass)
Max. operating pressure	$\leq 0.2\text{MPa}$
Transmittance of outer tube	0.91
Idle temperature	$270 \sim 300^\circ\text{C}$
Heat-loss coefficient	$\leq 10 \text{ W/m}^2 \text{ }^\circ\text{C}$
Bearing hailstone ability	hail stone diameter $\Phi 25\text{mm}$
Pressure endurance ability	1MPa
Sealing rubber	110 methyl silicone rubber with Vinyl
Tailstock	ABS
Daily average efficiency	>50%
Collector angle	$33^\circ \sim 55^\circ$ for flat roof 45° for tilted roof
Empty weight	49 kg
Dimension (Height x Width x Depth)	$2010 \times 1140 \times 137.5\text{mm}$
Optional:	
Outer shell of tank	Aluminium with electrophoresis treatment
Inner tank	0.6mm thick SUS304 Stainless Steel
Inner tank thickness	0.6mm
Stand	Galvanized steel or aluminum plate
Insulation	60 ~ 70 mm polyurethane integral foaming

*Optional: water tank and other accessories