



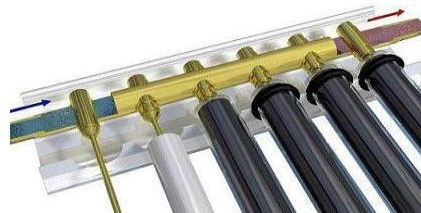
Solar Hot Water Systems



Heat pipe solar collector Specification

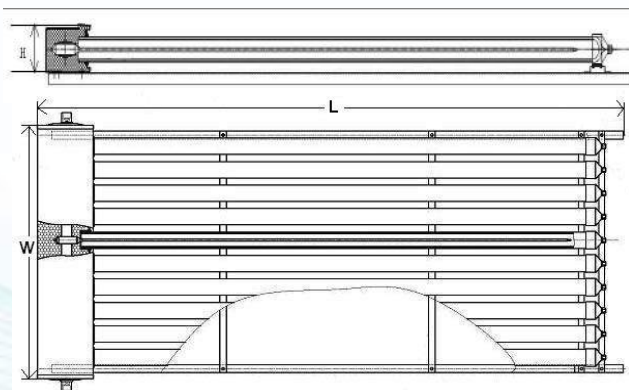
Solar Collector Parameters

- Outer shell of collector: 1.5mm Alnico
- Sizes of connection: 3/4 inch
- Operating fluid pressure: 0.6MPa
- Max service temperature: 95 degree
- Max stagnation temperature: 225.3 degree
- Flow range recommendation: 50-150L/mm²h
- Insulation thickness: 40mm
- Collector angle: adjustable (15-75 degree)
- heat pipe condensor diameter: 14mm, length: 90mm
- Heat pipe condensor surface: nick-coated, silver shining color
- Highest resist temperature to be 300°C
- Lowest resist temperature to be -40°C
- Add copper powder inside the heat pipe to anti-freeze.
- Outer diameter of the header pipe: 0.027m
- Inner diameter of the header pipe: 0.023m
- Efficiency: 60.4% (Aperture area)



Vacuum Tube Parameters

- Type: vacuum tube collector, heat pipe, dry connection
- Material of the cover tube: borosilicate glass
- Outer diameter of the cover tube: 58mm
- Thickness of the cover tube: 2.0mm
- Outer diameter of the inner tube: 47mm
- Distance from tube to tube: 78mm
- Material of the absorber: Cu/Al/SS/N₂ on borosilicate glass
- Kind/Brand of selective coating: ALN/SS-ALN/Cu
- Absorption coefficient α : $\geq 94\%$
- Emissivity coefficient ϵ : $\leq 7\%$
- Pressure: 3×10^{-4} Pa
- Material of the absorber pipes: Non-Oxygen copper TU1
- Layout of the absorber pipes: heat pipe, dry connection
- Outer/Inner diameter: 0.008m/0.0068m
- Condensor diameter: 0.014m
- Material of the header pipe: copper
- Material of the contact sheets: aluminum
- Thickness of the contact sheets: 0.0002m



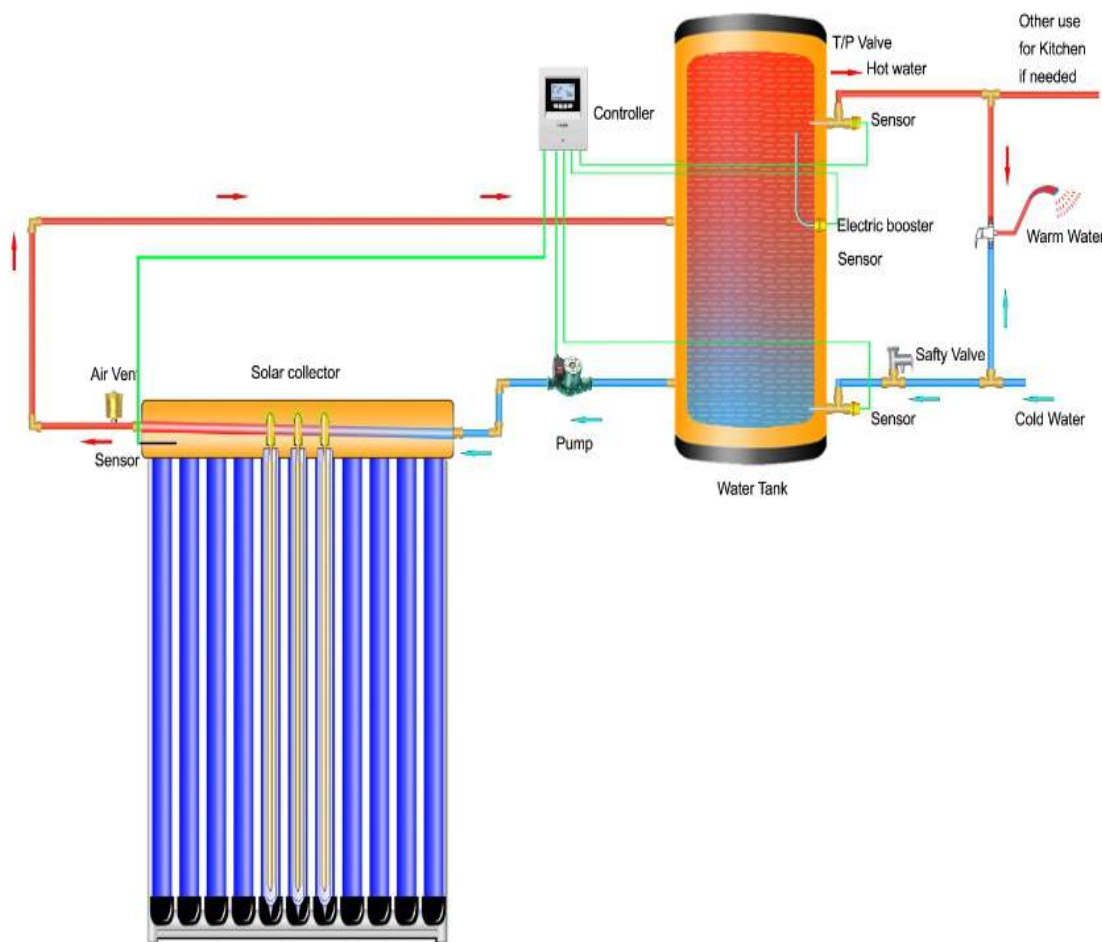
| Model | Dimensions(mm) | | |
|----------------|----------------|-------|--------|
| | Length | Width | Height |
| TZ58/1800-10R5 | 2010 | 854 | 189 |
| TZ58/1800-15R5 | 2010 | 1275 | 189 |
| TZ58/1800-20R5 | 2010 | 1680 | 189 |
| TZ58/1800-25R5 | 2010 | 2050 | 189 |
| TZ58/1800-30R5 | 2010 | 2420 | 189 |

Water Tank

| Product Description | Nominal Size | Inlet/Outlet | Diameter/ Height | Max Working Pressure | Energy Source | Material |
|---|-------------------|--------------|---------------------|----------------------|---------------|--------------------------|
| Electric Boosted Hot Water Storage Tank | 250 Liters | RP 3/4" | 648mm/1398mm | 850 kPa | Electricity | Vitreous Enamelled Steel |
| Electric Boosted Hot Water Storage Tank | 315 Liters | RP 3/4" | 648mm/1700mm | 850 kPa | Electricity | Vitreous Enamelled Steel |
| Electric Boosted Hot Water Storage Tank | 400 Liters | RP 3/4" | 730mm/1713mm | 850 kPa | Electricity | Vitreous Enamelled Steel |



System Configuration



| Components | Quantity |
|---|---------------------------|
| System Kits | |
| Solar collector  | Depends on the Capacity |
| Water tank  | 1 |
| Controller  | 1 |
| Pump  | 1 |
| PLV  | 1 |
| Air vent valve  | 1 |
| Check valve  | 1 |
| Ball valve  | 2 |
| Installation Kits | |
| MA0403  | Depends on the Collectors |
| MA0406  | Depends on the Collectors |
| MA0411  | Depends on the Collectors |
| MA0604  | Depends on the Collectors |

***Annex 1: STC Values.**

| Brand | Model | Eligible from: | Eligible to: | Number of certificates for an installation in Zone: | | | |
|-------|----------------------|----------------|--------------|---|----|----|----|
| | | | | 1 | 2 | 3 | 4 |
| Micoe | 250/TZ58/1800-30R5 | 22 Jun 2012 | 31 Dec 2030 | 27 | 28 | 26 | 23 |
| Micoe | 315/TZ58/1800-30R5 | 22 Jun 2012 | 31 Dec 2030 | 28 | 29 | 27 | 23 |
| Micoe | 400/TZ58/1800-20R5x2 | 22 Jun 2012 | 31 Dec 2030 | 29 | 30 | 29 | 24 |

***Annex 2: Loading quantity.**

| | 20GP | 40GP | 40HC |
|-------------|----------|----------|----------|
| 250L System | 24 units | 48 units | 58 units |
| 315L System | 21 units | 42 units | 52 units |
| 400L System | 18 units | 36 units | 44 units |

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