

TAFLO

SUPERSUN

SOLAR WATER HEATERS



TAW Thermo-siphon solar water heaters are high efficiency low maintenance systems that are environmentally friendly and the most economic way to get hot water from the sun. The system uses natural water circulation to heat up the water and doesn't require a pump or control unit. It includes solar collectors, storage tank and durable mounting sets.

SOLAR COLLECTOR

High efficiency coated absorber plate covered with tempered solar glass and mounted on aluminium frame guarantees high performance of the solar collectors. Strong insulation made from mineral wool or polyurethane minimizes heat losses from the collector.

SOLAR STORAGE TANK

TAW solar storage tanks come in three sizes; 150, 200 and 300 litres that meet all domestic requirements and are internally enamel coated for hygiene.

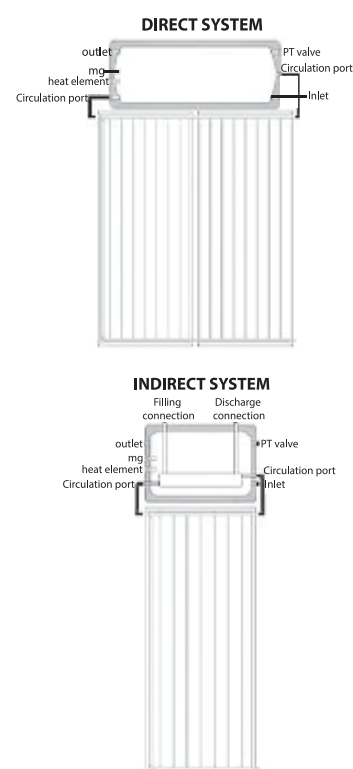
DIRECT AND INDIRECT SYSTEMS

Direct systems are both simple and economical. They are best suited to warm climate regions because they operate with portable water only. They are not recommended in hard-water areas.

Indirect systems prevent freezing and scale build up. Heated anti-freeze solution from the collector flows into the tank's heat exchanger jacket and then returns to the collector.

TECHNICAL DATA

	MODEL	TAW150	TAW200	TAW300
Water tank	Tank capacity	150L	200L	300L
	External Dimension(mm)	Ø580 x 1000	Ø580 x 1250	Ø580 x 1820
	Outer tank material	Color coating galvanized steel		
	Heat exchanger material	SUS 304 stainless steel/1.0mm		
	Heat exchanger area(m ²)	0.4	0.5	0.8
	Inner tank material	SUS 304 stainless steel/1.2mm		
	Max working pressure	0.6Mpa		
	Max working pressure of jacket	0.3Mpa		
Flat solar Collector	Electric element	1.5kW		
	Dimension (L x W x T x mm)	2000 x 1000 x 80	2000 x 1250 x 80	2000 x 1000 x 80
	Total area	2.0m ² x 1pcs	2.5m ² x 1pcs	2.0m ² x 2pcs
	Absorber material	Al. full plate		
	Absorber coating	Selective black chrome		
	Header pipe	Red copper/Ø22 x 0.6		
	Riser pipe	Red copper/Ø22 x 0.6		
	Quantity of riser pipe	7	9	7
	Welding	Laser welding		
	Cover material	Low iron tempered textured glass		
	Frame material	Anodised aluminium alloy		
	Insulation material	Fibre glass		
Piping connector size	Ø22			
Mounting Bracket	Material	Galvanized steel		
	Bracket style	A: Flat roof B: Sloping roof		
Connection	Circulation pipe material	304 Stainless steel corrugated pipe 3/4		
	Connection fittings	Ø22mm x G3/4"		
	T/P pressure relief valve	0.7Mpa/90°C		
	Jacket pressure relief valve	0.3Mpa/G1/2"		
Weight	Weight (empty) kg	103	150	195
	Weight (filled) kg	253	350	495



SPLIT SOLAR SYSTEM

Split pressurized solar systems comprise of solar collector, storage tank, remote controller, booster station and accessories. They are suitable where larger systems are required, as they have larger tank capacities ranging from 500litres to 2000ltrs. Typical installation include solar collectors mounted on the roof, tank on the ground, booster station for pressurizing system and a remote control for managing the systems. A typical schematic layout is shown below

SPLIT SOLAR SYSTEM ACCESSORIES

TAW BOOSTER STATION

The unit comprises of low energy solar circulator pump, remote control, pressure gauge and brass connectors, all inter-connected and fitted into a housing for ease of installation.

TAW BOOSTER STATION

Remote control unit for management and operation of pressurized solar water heater systems.

Main Functions

- 1) Time display: 24 hours clock display time.
- 2) Temperature indicator: the actual display water tank temperature.
- 3) Temperature preset: you can preset heating temperature (30-80 degrees)
- 4) Start-stop timer.
- 5) Preset start temperature function.
- 6) Power memory function.
- 7) Measuring accuracy of temperature

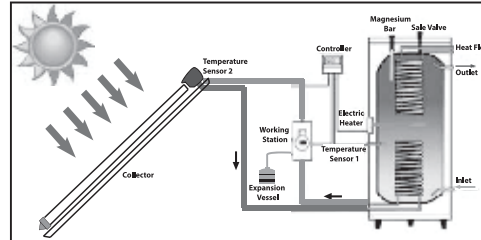
TAW SOLAR THERMOSTATIC MIXING VALVES

Thermostatic mixing valve is used in solar systems for regulating temperature to the preset value. It maintains constant temperature to the preset value regardless of the inlet temperature of both hot and cold water and is easily adjusted by turning the knob at the top to the desired outlet temperature.

GLYCOL

Mono Ethylene Glycol is produced from ethylene, via intermediate ethylene oxide. Odorless, colorless liquid that is fully miscible with water and wide range of organic liquids. It is used for Heat Transfer in indirect solar water heating systems.

GENERAL LAYOUT



TANK SIZES

CAPACITY litres	DIAMETER	HEIGHT	EMPTY WEIGHT Kg	No: OF COLLECTORS	COLLECTORS DIMENSIONS
500L	φ700	1560	80.2	3	2000x100x80
1000L	φ1000	2100	191	6	
1500L	φ1100	2000	286.5	10	
2000L	φ1100	2500	385	14	