



Solar Collector

1. UV resistant 100% EPDM sealing and gaskets
2. Extruded aluminium frame with anodized coating finish
3. Aluminium foil faced, mineral wool insulation
4. Tempered solar glass with high solar transmittance
5. Cooper riser tubes
6. Cooper manifold tubes
7. Full plate selective coated absorber

Tank

1. Direct-injected, CFC free polyurethane foam Insulation in 50mm thickness
2. Heat exchanger jacket
3. Enameled low-carbon steel hot water tank
4. Steel outside casing coated by electrostatic powder coating baked at 220°C to protect the tank from outdoor conditions and UV rays
5. Steel powder coated end caps
6. 3kW electric heater
7. Magnesium anode bar cathode protector

Ultrasun UFX Flatplate solar hot water systems are high specification thermosyphon type hot water heaters designed for long life operation in extreme conditions. Options are available for direct and indirect systems, direct system heat the water directly through the collector and indirect systems separate the collector flow water from the through flow water, heat being transferred through the tank jacket. This is suitable for mineralised and brackish water that may corrode or scale the collector's capillaries. Features include:-

- Heavy duty tank which includes a steel powder coated outside casing, steel storage tank internally coated with glazed enamel and fitted with a magnesium sacrificial anode for exceptional corrosion protection, steel powder coated end caps and a 3kW heating element with thermostat.
- Flatplate solar collectors that incorporate full area selective copper plates laser welded to copper circulation tubes, high specification insulation and tempered security glass to provide energy absorption of up to 95%.
- Low thermal conductivity high specification flexible stainless steel circulation piping with PVC coated elastomeric rubber foam insulation jackets.
- Connection piping that includes an incoming non-return valve, pressure release valve rated at 6bar and drain cock. An added 3bar pressure release valve is provided for indirect tanks.
- Galvanised mounting frame for both flat or inclined roof installations that ensures high durability in all weather conditions

Ultrasun UFX Flatplate solar systems are available in various tank sizes and collector configurations to suit domestic and small-scale installation applications. They are efficient and robust products guaranteed for five years to demonstrate the high material specification. Designed for many years of trouble free operations, they are the ideal solution for all solar water heating applications.

SPECIFICATIONS

Water Quality: Water outside the following limits should be appropriately pre-treated,
Direct: Clarity: clear, **TDS** <600mg/l, **Hardness** <200mg/l CaCO₃, **Saturation Index:** >0.8<1.0
Indirect: Clarity: clear, **TDS:** <1500mg/l, **Hardness:** <400mg/l CaCO₃, **Saturation Index:** >0.8<1.0
Max. Operating Pressure: 6 Bar for Open Loop, 3 Bar for Closed Loop
Max Flow Rate: 2m³/hr
Test Pressure: Tank: 8 Bar, **Collector:** 10 Bar

Model		UFX 160D/I	UFX 200D/I	UFX 300D/I
System Tank Size (Litres)		160	200	300
Typical Household (People)		4	5	8
Collector Model		1x HP200	1 x HP200	2 x HP200
Collector Area (m²)		2.0	2.0	4.0
Collector Weight (kg)		30	30	60
Collector Fluid Capacity (litres)		1.3	1.3	2.6
Max Heat Output/Day (kWhrs)		13.6	14	29.4
Min Heat Output/Day (kWhrs)		10.8	11	21.6
Dimensions(mm)	A	1021		2142
	B	1961		
	C	2700		
	D	1057	1257	1857
	E	600		
	F	700		
Empty Weight (kg)		87/97	96/108	149/178
Full Weight (kg)		247/257	296/308	449/478

NOTE

Maximum heating output is based on average irradiation levels of 6000W/m²/day prevailing in September-March and minimum Heating output is based on average irradiation levels of 4000W/m²/day prevailing in June/July and are for indicative purposes only.