

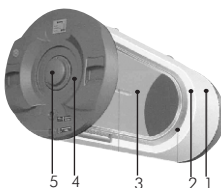


# Ultrasun UFS

## Flatplate Solar Water Heaters

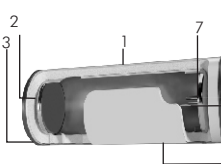


### Direct Tank



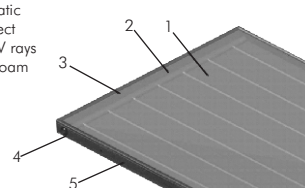
1. Steel outside casing coated by electrostatic powder coating baked at 220°C to protect the tank from outdoor conditions and UV rays
2. Direct-injected, CFC-free polyurethane foam insulation in 40mm thickness
3. Stainless steel hot water tank
4. UV resistant plastic cap
5. Electric heater

### Indirect Tank



1. Direct-injected, CFC free polyurethane foam insulation in 50mm thickness
2. Heat exchanger jacket
3. Enamelled 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. Electric heater
7. Magnesium anode bar cathode protector

### Solar Collector



1. Absorbing Plate
2. High Transmittance Glass
3. Polyester Fibre Insulation
4. Sealing Gasket
5. 6063 Aluminium Alloy Frame

Daylife Ultrasun UFS Flat Plate Solar Hot Water Systems are efficient and economical water heaters that provide excellent performance in all domestic and small scale institutional applications. They are of Thermosyphon design and options of Direct type (models UFS D) with outlet water being heated directly by circulation through the solar collector or Indirect type (models UFS I) for use with mineralized waters with heat being transferred to the outlet water storage tank via an external jacket containing thermal fluid that is circulated through the collectors in a closed loop system. Features include:-

- Direct System Tanks: Heavy duty stainless steel SUS304 storage cylinder encased in an insulated powder coated UV stabilised galvanised steel casing fitted with an auxiliary 2.4 kW thermostat controlled electric heater and sacrificial anode for corrosion protection.
- Indirect System Tanks: Enamel lined galvanised steel storage cylinder with sealed peripheral jacket attached encased in an insulated powder coated UV stabilised galvanised steel casing fitted with an auxiliary thermostat controlled electric heater (1.5 kW 150/200 litres, 3kW 300 litres) and sacrificial anode for corrosion protection.
- Ultra high efficiency solar collectors incorporating capillary copper pipes ultrasonically welded on a black chrome back plate covered by high transmission glass.
- Insulated copper pipes complete with necessary compression fittings pressure release valve and a drain cock.
- Galvanised mounting frame.
- Offered with 5-year Guarantee

Daylife UFS water heaters are available in three sizes and are effective and robust solutions designed for many years of trouble-free operation.

### OPERATING CONDITIONS

**Water Quality:** Water outside the following limits should be appropriately pre-treated,

**Direct: Clarity:** clear, **TDS** < 600mg/l, **Hardness** < 200mg/l CaCO<sub>3</sub>, **Saturation Index:** > 0.8 < 1.0

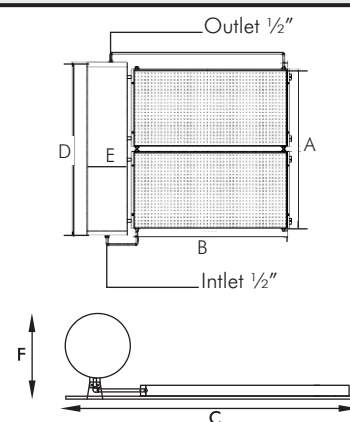
**Indirect: Clarity:** clear, **TDS:** < 1500mg/l, **Hardness:** < 400mg/l CaCO<sub>3</sub>, **Saturation Index:** > 0.8 < 1.0

**Max. Operating Pressure:** Direct - 6 Bar, Indirect - 4 Bar

**Max Flow Rate:** 2m<sup>3</sup>/hr

### SPECIFICATIONS

UFS Model	150D	150I	200D	200I	300D	300I
System Tank Size (Litres)	150		200		300	
Typical Household (People)	5		7		10	
Flat Plate Collectors	1xFCP2.0		1xFCP2.4		2xFCP2.0	
Collector (m <sup>2</sup> )	2		2.4		4	
Thermal Fluid Capacity (litres)	N/A	9	N/A	13	N/A	19
Max Heat Output/Day (kWhrs)	11		14		15	
Min Heat Output/Day (kWhrs)	7		10		15	
Dimensions(mm)	A		1000		1400	
	B		2000		2100	
	C		2600		2600	
	D		1140	1170	1480	2300
	E		520	560	520	600
	F		620		620	
Empty Weight (kgs)	65	100	75	146	105	183
Full Weight (kgs)	215	250	275	346	405	483



### NOTE

Maximum heating output is based on average irradiation levels of 6000W/m<sup>2</sup>/day prevailing in September- March and minimum Heating output is based on average irradiation levels of 4000W/m<sup>2</sup>/day prevailing in June/July and are for indicative purposes only.