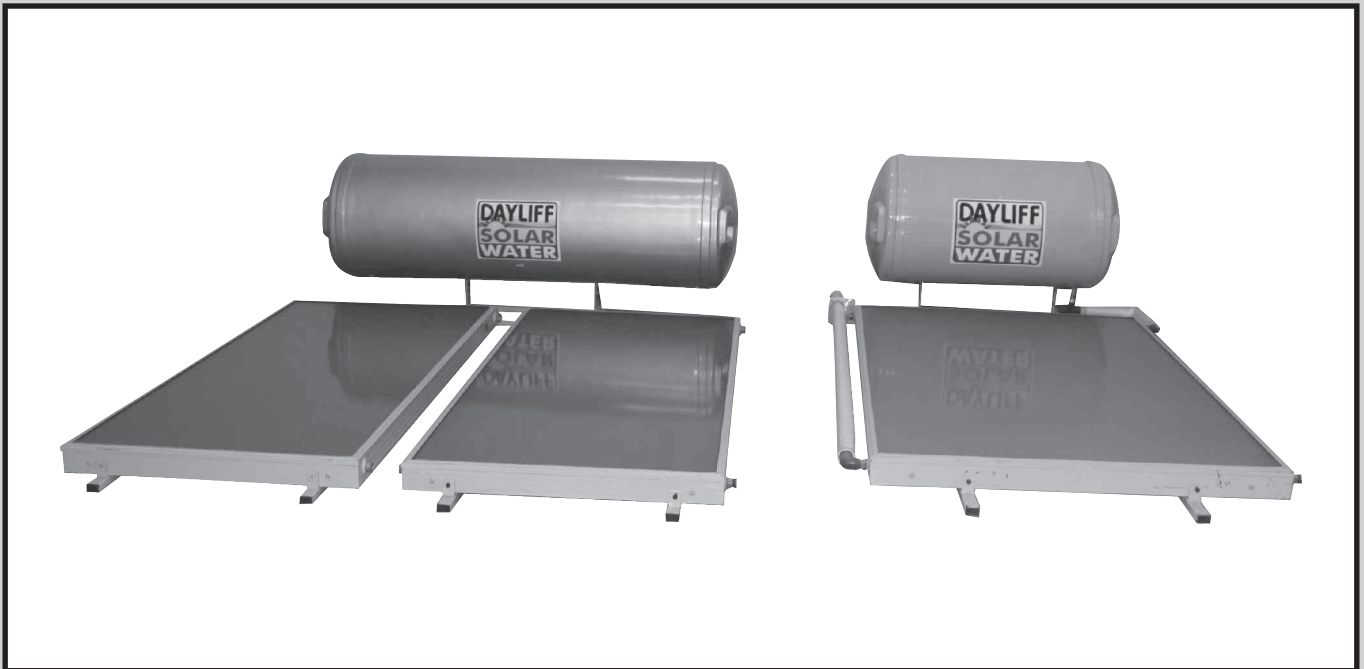




DATA SHEET

Solar
Water Heaters

SW



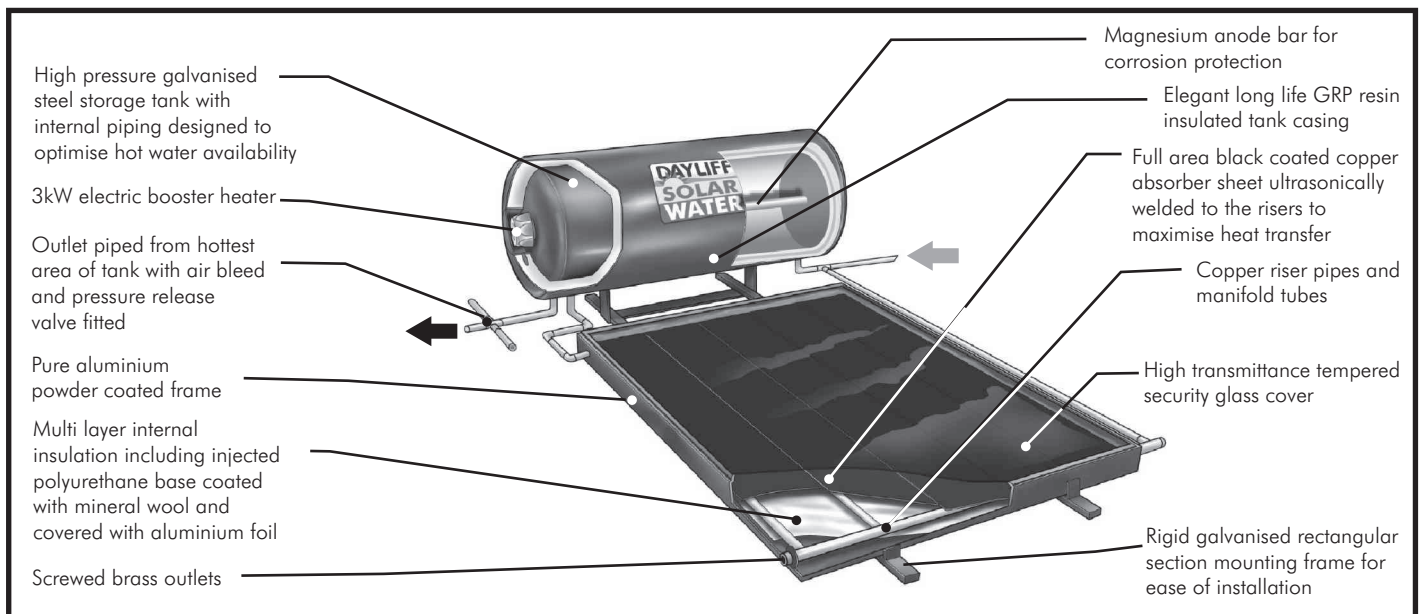
Dayliff SWH solar hot water systems are established and effective heaters that provide excellent performance, good value and guaranteed long life. They are of the Open Loop thermosyphon type with the water flow circulating through the collectors and being stored in the tank ready for use.

Features include:-

- Heavy duty tank that features a resin insulated totally weather proof GRP casing, a heavy duty galvanised cylinder internally piped to optimise hot water availability and magnesium sacrificial anode for cathodic corrosion protection. An in-built 3kW electric water heater with thermostat is included as standard.
- Solar collectors that incorporate full area copper absorption plates ultrasonically 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 plastic circulation piping with silver foil coated polystyrene insulation jackets.
- Circulation piping that includes an incoming non-return valve, a thermosyphon diverter valve controlling max water temperature to 60°C to avoid scalding on hot days, pressure release valve and drain cock. All fittings are provided from the inlet to the outlet for simple installation.
- Galvanised mounting frame.

Dayliff Solar water systems are available in various tank sizes and collector configurations to suit domestic and small scale institutional applications. They are effective and robust products designed for many years of trouble free operation with a 5 year guarantee to demonstrate the product quality. With the benefits of Davis & Shirtliff's assured quality, progressive design and high quality components they are the ideal solution for all solar water heating applications.

DESIGN FEATURES



SPECIFICATIONS

Model	SWD160S	SWD160L	SWD220S	SWD220L	SWD320S	SWD320L	
System Tank Size (Litres)	160		220		320		
Typical Household (People)	5		7		10		
Collector Model	1 X SUBB	1 X LUBB	1 X LUBB	2 X SUBB	1 X XXLUBB	2 X LUBB	
Collector Area (m²)	1.7	2.3	2.3	3.4	2.9	4.6	
Collector Weight (kg)	32	41	41	64	51	82	
Collector Fluid Capacity (litres)	1.2	1.5	1.5	2.2	1.7	3.0	
Max Heat Output/Day (kWhrs)	9	12	12	18	15	24	
Min Heat Output/Day (kWhrs)	6	8	8	12	10	16	
Dimensions (mm)	A	920	1200	1200	1940	1200	2500
	B	1920	1890	1890	1920	2440	1890
	C	2700	2680	2680	2700	3220	2680
	D	1080	1080	1480	1480	1880	1880
	E	600	600	600	600	600	600
	F	700	700	700	700	700	700
Empty Weight (kg)	100	110	135	170	180	220	
Full Weight (kg)	260	270	355	395	490	540	

OPERATING CONDITIONS

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

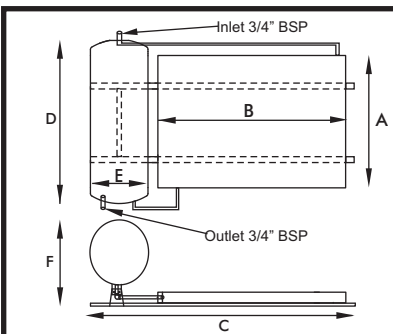
Direct: Clarity: clear, **TDS:** <600mg/l, **Hardness:** <200mg/l CaCO₃, **Saturation Index:** >0.8<1.0

Indirect: Clarity: clear, **TDS:** <1500mg/l, **Hardness:** <400mg/l CaCO₃, **Saturation Index:** >0.8<1.0

Test Pressure: Tank - 5Bar, Collector - 14Bar

Max Operating Pressure - 3.5Bar

Max Flow Rate - 2m³/hr



NOTE

- Standard output systems (S Models) should be used in hot locations and high output systems (L Models) in more temperate ones. However hot water availability will vary throughout the year depending on prevailing irradiation levels and electric boosters may be necessary on cooler days.
- 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.

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