



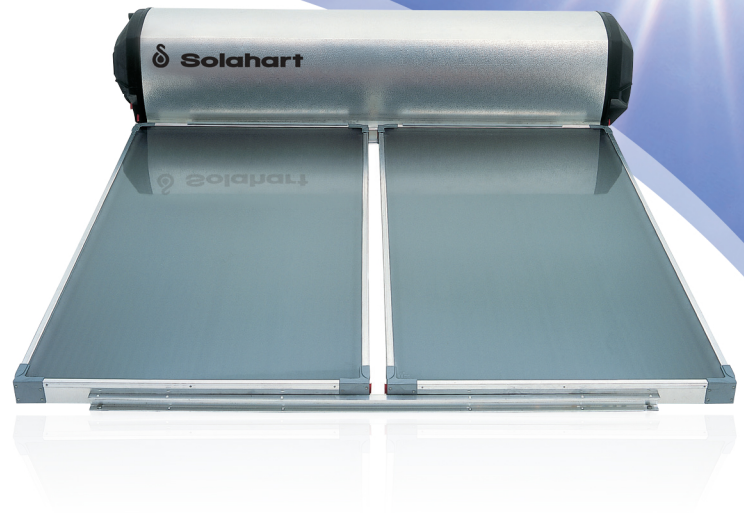
## Thermosiphon J Series

### Description

The Solahart J Series is a roof mounted, closed circuit system specifically designed to provide efficient service in medium to high solar gain areas.

The high efficiency black polyester powder coated absorber maximises the transfer of available solar energy while the closed circuit design makes it suitable for frost prone and poor water quality areas.

The J Series utilises Solahart's revolutionary multi-flow collector which uses a huge 35 risers to extract the maximum amount of energy from the sun.



The double ceramic lined tank has a protective sacrificial anode, and the J Free Heat features additional anode protection. The tank is equipped with an electric booster, alternatively an in line gas booster is available.

Most J and J Free Heat systems can be installed with the HartStat OTP (over temperature protection) system to prevent over performance during periods of higher solar radiation and lower hot water draw off.

### Key Features

- Optimum performance in medium and high solar gain areas
- Suitable for frost prone or harsh water areas
- Stylish slimline design
- Thermosiphon operation minimises maintenance
- Gas booster or electric booster models available
- Double coated ceramic lined tank
- Enhanced protection on Free Heat model
- Free Heat series available in 180 and 300 litre capacities

### Key Benefits

- Can save up to 50% to 85% of water heating energy consumption\*
- Reliable, low maintenance operation
- Hot water regardless of the weather
- Qualifies for valuable environmental incentives\*
- Reduced energy use can save up to 1.9 to 3.2 tonnes of CO<sub>2</sub> emissions per annum\*
- Peace of mind with 10/5/5 (J Free Heat), 5/5/5 (J Series) year warranties†

\* Energy savings of up to 50% to 85% shown are based on Australian Government approved TRNSYS simulation modelling using a medium load. Savings and incentives will vary depending upon your location, type of Solahart system installed, orientation and inclination of the solar collectors, type of water heater being replaced, hot water consumption and fuel tariff. Maximum financial savings off your hot water bill are achievable when replacing an electric water heater on continuous tariff. Refer to [solahart.com.au](http://solahart.com.au) for further information.

† Solahart Warranty Details: 10/5/5 warranty, 10 year cylinder and collectors supply, 5 year parts, 5 year labour; 5/5/5 warranty, 5 year cylinder and collectors supply, 5 year parts, 5 year labour.

# Thermosiphon J and J Free Heat Closed Circuit Systems

These systems are suitable for multiple installations. They are suitable for frost and harsh water regions.

J and J Free Heat Systems				
Model		181 system		302 system
Tank model	J		✓	✓
	J Free Heat		✓	✓
Collector model		J		J
No of collectors		1		2
HartStat OTP	optional	✓		✓
Storage capacity	litres	180		300
	US gal	40		80
Boost capacity (electric)	litres	90		150
	US gal	24		40
Weight empty	kg	108		187
	lbs	238		412
Weight full	kg	292		495
	lbs	644		1091
A – Width*	m	1.62		2.43
	in	63.8		95.7
B – Length*	m	2.63		2.63
	in	103.5		103.5

\* An additional 0.9m (35.4in) should be left on all four sides of the installation for safe access and servicing.

NA - Not available.

The J and J Free Heat systems (if installed with a HartStat OTP system) can be installed as a solar preheater with an inline Solahart gas booster water heater. Refer to the Solahart gas booster specification sheet for further details on the gas booster.

J Collector				
Aperture (heating) area	m <sup>2</sup>	1.87	ft <sup>2</sup>	20
Dimensions	length	mm	1937	in
	width	mm	1022	in
	height	mm	77	in
Capacity	litres	3.5	US gal	0.9
Weight	empty	kg	42	lbs
	full	kg	46	lbs
Working pressure	kPa	80	psi	12
Absorber surface	Black polyester powder coat			
Absorber material	steel			
Riser material	steel			
Number of risers	35			
Tray material	0.7mm aluminium			
Insulation material (base)	38mm polyester blanket			
Glass	3.2mm tempered low iron			

## Electric Boost Specifications

Heating unit type *	Copper sheath immersion element			
Supply voltage	220 V – 250 V			
Recovery rate @ 240 V and temperature rise of:				
Rating kW	Current Amps	30°C litres/hour	40°C litres/hour	50°C litres/hour
1.8	8	51	39	31
2.4	10	68	52	41
3.6	15	103	77	62
4.8	20	137	103	83

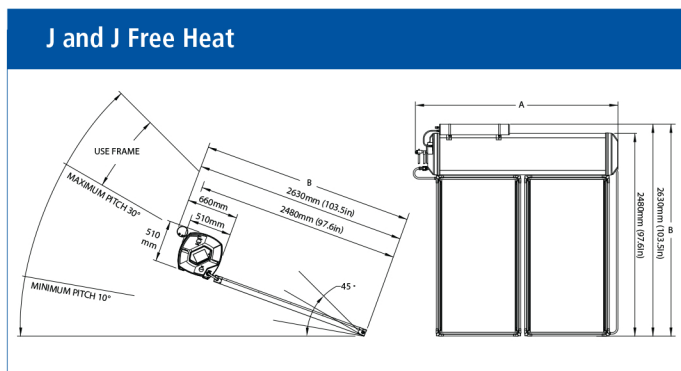
\* A bobbin element (2.5 kW) is available for hard or corrosive water areas

## Water Supply

TPR valve setting	kPa	1000	psi	145
ECV* setting	kPa	850	psi	125
Max. supply pressure with ECV				
	without ECV	kPa	680	psi
Water Connections	cold			RP ¾ / 20
	hot			R ½ / 15

\*Expansion Control Valve

**Energy Tip:** When installing your solar water heater, install minimum 3 star rated shower roses and flow restrictors to your taps if you don't already have them. This will not only save water but make your solar savings go further.



Technical data is subject to change

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