

The Solahart CS and SP Series, featuring Australian designed Envelope solar collectors, offer the very latest in styling and all-weather durability. The CS Series provides higher collector performance in low to medium solar gain areas while the SP Series provides efficient performance in medium to high solar gain areas. The collectors, with five patents pending, have been designed to meet or exceed Australian and International Standards in areas of strength, performance and durability.

The ceramic lined tank has a protective sacrificial anode to improve the life of the tank and Free Heat models feature a larger anode for greater peace of mind.

Features

- **CS SERIES** High Performance Blue Sputtered selective surface collector, for use in **low to medium** solar gain areas
- SP SERIES Efficient black polyester powder coated collector, for medium to high solar gain areas
- · Ceramic lined tank with sacrificial anode
- Silicon adhesive used for glass and frame attachment
- Closed circuit operation
- HartStat Over Temperature Protection (OTP) standard inclusion CS series (in Australia), optional extra SP series
- Thermosiphon technology requires no mechanical pump
- 5 year comprehensive parts and labour warranty plus
 Free Heat 10 year warranty 300 litre models †
- Electric and gas boosted models available

Benefits

- Can save up to 50% to 90%* of water heating energy consumption
- Reduced energy use can save up to 1.5 to 3.2 tonnes of CO₂ emmissions per annum*
- Enhanced tank protection
- Collector design withstands extreme weather conditions
- Suitable for frost prone or harsh water quality areas
- Protects from over performance on hot days and when there is low water usage
- Reliable, low maintenance operation for years of worry free hot water
- Trusted Solahart warranties
- Hot water regardless of the weather



*Energy savings of up to 50% to 90% 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 for more information. †Solahart Warranty Details: 10/5/5 warranty, 10 year cylinder and collector supply, 5 year parts, 5 year labour; applies only when installed as a complete new system.

Thermosiphon CS/SP SERIES

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

Thermosiphon CS and SP Closed Circuit Systems				
System Model	CSA2013	181CS13C	302CS13C	303CS13C
Collector		1	2	3
System Model	SPA2000	181SP	302SP	303SP
Collector		1	2	3
Tank Model	CS/SP	180J	300J	300J
	CS/SP Free Heat	-	300F	300F
HartStat OTP^		✓	√ ‡	√ ‡
Storage Capacity	litres	180	300	
	US gal	48	80	
Boost Capacity	litres	90	150	
	US gal	24	40	
Weight Empty Tank Only	kg Ibs	75 163		10 43
Weight Full Tank Only	kg	254	410	
	Ibs	560	904	
A – Width* Tank Only	m	1.62	2.43	
	in	63.8	95.7	
Weight Empty System	kg	131	216	268
	Ibs	289	477	591
Weight Full System	kg	324	535	591
	lbs	714	1180	1303
A – Width* System	m	1.62	2.43	3.38
	in	63.8	95.7	133.1

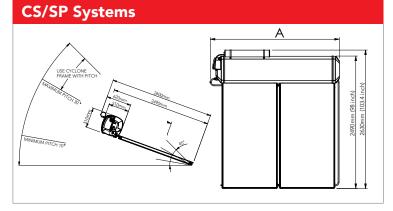
^{*}For safe access and servicing, a space equal to the tank length should be left on the water connection end of the system and 1m (40in) should be left on the three other sides of the installation. ‡HartStat OTP is mandatory on these models in Australia and New Zealand. Systems (if installed with a 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. ^HartStat OTP is supplied as standard on SC systems in Australia and is available as an option on SP systems.

Collectors -	CSA2013	& SPA	A2000		
Aperture area		m²	1.88	ft²	20.2
Dimensions	length width height	mm mm mm	1996 1043 82	in in in	78.6 41.1 3.2
Working pressure	no OTP with OTP	kPa kPa	80 170	psi psi	12 24
		CSA2013 SPA2000			2000
Capacity	litres US gal	1.9 0.5		3.8 1	
Weight - empty	kg lbs	37 82		45 99	
Weight - full	kg lbs	39 86		49 108	
Absorber surface		Tinox sputtered black polyest selective surface powdercoard			
Absorber / Riser m	aterial	copper steel		el	
Number of risers		13		35	
Insulation blanket material (base)		38mm glass wool		38mm polyester	
Frame material		extruded aluminium			
Glass		3.2mm tempered low iron			

Water Supply				
TPR valve setting ECV* setting	kPa kPa	1000 850	psi psi	145 125
Max. supply pressure with ECV without ECV	kPa kPa	680 800	psi psi	100 115
Water Connections	cold hot		Rp 3/4 R 1/2	

^{*}Expansion Control Valve.

Technical data is subject to change.





Electric Boost Specifications					
Heating unit	type*	Copper sheath immersion element			
Supply voltag	ge	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	
2.5*	10.5	71	54	43	
3.6	15	103	77	62	

^{*}A bobbin element (2.5 kW) is available for hard or corrosive water areas.



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