

The Solahart SC and SP Series, featuring Australian designed and manufactured Envelope solar collectors, offer the very latest in styling and all-weather durability. The SC 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 double 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

- SC SERIES High Performance Black Chrome 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
- · Double coated ceramic lined tank with sacrificial anode
- · Silicon adhesive used for glass and frame attachment
- · Closed circuit operation
- HartStat Over Temperature Protection (OTP) standard inclusion SC 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 55% to 90%* of water heating energy consumption
- Can save up to 50% to 85%* of water heating energy consumption
- · 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



Thermosiphon SC/SP SERIES

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

Thermosiphon SC and SP Closed Circuit Systems						
System Model	SCA2000	181S	222SC	302SC	303SC	443SC
Collector		1	2	2	3	3
System Model	SPA2000	181SP	222SP	302SP	303SP	443SC
Collector		1	2	2	3	3
Tank Model	SC/SP	180J	220J	300J	300J	440J
	SC/SP Free Heat	-	-	300F	300F	-
HartStat OTP^		✓	√ ‡	√ ‡	√ ‡	√ ‡
Storage Capacity	litres	180	220	300		400
	US gal	48	58	80		106
Boost Capacity	litres	90	110	150		200
	US gal	24	29	40		53
Weight Empty Tank Only	kg	66	78	99		148
	Ibs	146	172	218		326
Weight Full Tank Only	kg	245	298	399		588
	Ibs	540	657	880		1296
A – Width* Tank Only	m	1.62	1.88	2.43		3.41
	in	63.8	74.0	95.7		134.3
Weight Empty System	kg	117	180	197	244	305
	Ibs	258	397	435	540	673
Weight Full System	kg	310	419	516	567	775
	Ibs	683	924	1138	1250	1709
A – Width* System	m	1.62	2.42	2.43	3.38	3.49
	in	63.8	95.3	95.7	133.1	137.4

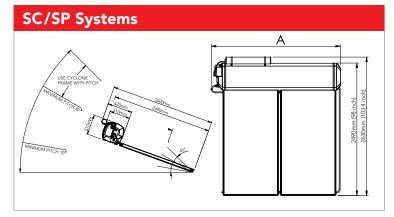
*For safe access and servicing, a space equal to the tank length should be left on the water connection end of the system and 1m (40in) should be left on the three other sides of the installation. ‡HartStat OTP is mandatory on these models in Australia and New Zealand. Systems (if installed with a HartStat 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 - SCA2000 & SPA2000						
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	
Capacity		litres	3.8	US gal	1.0	
Weight	empty full	kg kg	47 51	lbs lbs	104 113	
Working pressure	no OTP with OTP	kPa kPa	80 170	psi psi	12 24	
Absorber surface	SCA2000 SPA2000		Chromonyx selective surface Black polyester powder coat			
Absorber/Riser material			steel			
Number of risers			35			
Frame material			extruded aluminium			
Insulation material (base)	SCA2000 SPA2000		38mm glass wool blanket 38mm polyester blanket			
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 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	
2.5*	10.5	71	54	43	
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.



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