



NEW GENERATION
| BCXII series
Closed Circuit Solar Systems



Ultimate high performance

 **Solahart**[®]



THE SOLAHART BCXII SERIES

... on top of the world

Millions of dollars in research and over a decade of scientific development has culminated in the new generation Black Chrome XII (BCXII).

A solar hot water system so advanced, so reliable, it is backed by an exclusive 12 YEAR WARRANTY on our solar panels and cylinder. Additionally, the BCXII series offers a 6 year warranty on all parts and labour.

So, what does this mean to you?

Unprecedented reliability and lasting hot water without the worry and inconvenience of the breakdowns associated with traditional systems.

NEW GENERATION
BCXII series

1 8 0 L T
2 2 0 L T
3 0 0 L T
4 4 0 L T



You'll Recoup Your Investment

True! The savings you'll make on your power bills, from the sun's free energy, means that you will recover the cost of your initial investment in a few short years. So, your Solahart BCXII not only pays for itself, but it provides you with genuine savings year after year. Guaranteed. Depending on where you live and how much hot water you use, up to 90% of your hot water can be free from the sun. You won't get that with an ordinary gas or electric system.

Why not download the Solahart "SCF" Program from our website, WWW.SOLAHART.COM, to see exactly how much you could save.

APPLICATION GUIDE

System	Mains Pressure	Water Quality	Frost Conditions	Solar Gain Area			Warranty
				Low	Medium	High	
L System	✓	Potable	✗	✗	✓	✓	5 Years
J System	✓	Wide Range of Water Qualities	✓	✗	✓	✓	5 Years
K System	✓		✓	✓	✓	☆	5 Years
BCXII	✓		✓	✓	✓	☆	12 Years*

- ✓ Signifies system is ideally suited for this application
- ☆ Signifies system may be over rated for this application during the summer months and we recommend fitting a temperature limiting device.
- ✗ Signifies system is not suited for this application and its use may void warranty
- * Conditional Warranty

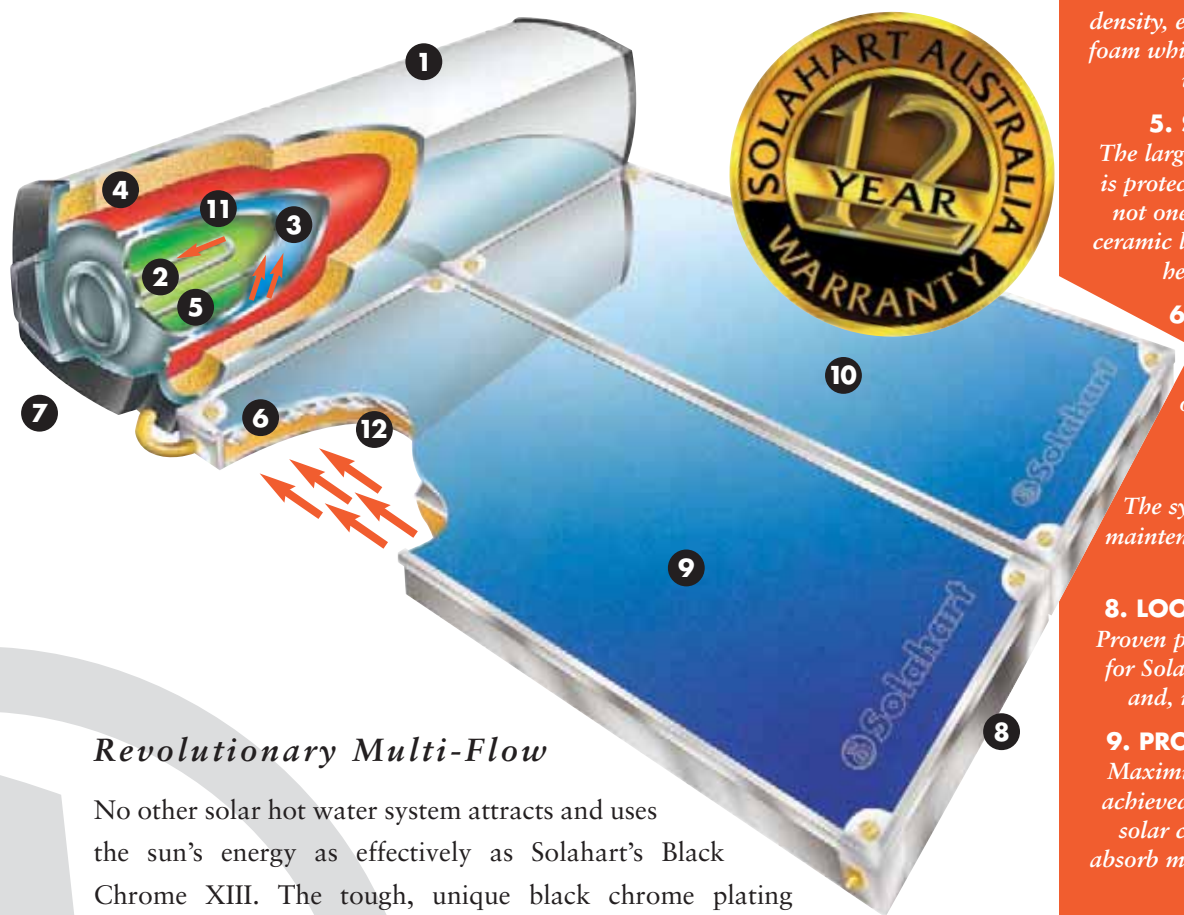
Low Maintenance

All hot water systems need maintenance. Conventional systems require regular servicing, while standard solar hot water systems usually require a five year service.

Not so with Solahart's Black Chrome XII series. It's designed to take on the toughest conditions and it's maintenance free for the first 6 years! In the unlikely event that a service is required within the first 6 years, it will be carried out free of charge.*

You'll always have hot water - 24 hours a day

The superior construction of the Solahart BCXII system, along with its 12 year warranty, give you the peace of mind that your new Solahart is built to last and will be supplying you piping hot water for many years to come. Not only that, but with the standard electric, or the optional gas booster, you'll have hot water even on the cloudiest days.



Revolutionary Multi-Flow

No other solar hot water system attracts and uses the sun's energy as effectively as Solahart's Black Chrome XIII. The tough, unique black chrome plating combines with Solahart's exclusive Multiflow solar absorber panel to heat water faster and more efficiently.

Environmentally Friendly.

Your new Black Chrome XII will not only save you money, but you'll be playing your part in reducing greenhouse gas emissions into the atmosphere (up to 4.5 tonnes per annum). Wouldn't it be great if everyone had a Solahart? The world would be a cleaner place.

* Subject to normal warranty conditions.

1. STYLISH SLIM LINE DESIGN

The look made famous by Solahart. Seen on homes in over 70 countries around the world.

2. HOT WATER 24 HOURS A DAY, 365 DAYS A YEAR.

On those days when there's insufficient solar energy, your automatic booster (left switched on) cuts in to maintain hot water temperature for loads of hot water around the clock.

3. WORLD'S MOST ADVANCED TECHNOLOGY.

Your Black Chrome XII features a revolutionary sealed jacket around the storage cylinder. This enables the 'closed circuit' fluid to flow from the solar collector panels around the outside of the storage cylinder and quickly transfers its heat to the water stored in the cylinder. Simply put, it means plentiful hot water; supplied free from the sun, is ready and waiting for constant use.

4. HIGH DENSITY INSULATION.

The cylinder is insulated in its durable aluminium case by pressure injected, high density, environmentally safe polyurethane foam which is CFC FREE! The result, your water stays hotter longer.

5. SUPERIOR PROTECTION.

The large capacity water storage cylinder is protected from the harshest water with not one, but two coats of Primaglaze® ceramic lining. Plus there's now a long life heavy duty sacrificial anode.

6. CORROSION PROTECTION.

Solahart's exclusive closed circuit system also eliminates risk of the collector plate corroding or clogging from the inside.

7. MAINTENANCE FREE.

The system is designed to provide long, maintenance free service in harsh climate and water conditions.

8. LOOKS BETTER, LASTS LONGER.

Proven premium quality aluminium, used for Solahart's collector case, looks better and, more importantly, lasts longer.

9. PROVEN HIGH PERFORMANCE.

Maximum absorption of solar energy is achieved by the unique, super responsive solar collectors which are designed to absorb more solar radiation and transfer it more efficiently.

10. SOLAR GLASS.

Superior quality solar glass is tougher, providing superior performance, protection and appearance.

11. FREEZE PROTECTION.

Solahart's exclusive closed circuit technology is all the protection you need to prevent freezing in frost-prone or cold climate regions.

12. EXCLUSIVE MULTI-FLOW SOLAR COLLECTOR.

Greatly increases heat transmission to transfer fluid.

SIZING RECOMMENDATION*

		181	221	302	303	443
Solar Gain	Low	1 person	1 person	2 people	3 people	4 people
	Medium	1 person	2 people	3 people	4 people	5 people
	High	2 people	3 people	4 people	5 people	6 people

If you use hot water in the laundry for washing, or, have an appliance connected to the hot supply, then each of these appliances will count as an extra person. The semi-regular use of a bath would count as 2 people, and the semi-regular use of a spa bath would count as 3 people.

For example, a family of 3 living in a medium solar gain area, who use hot water in the laundry, do not have a dishwasher, and use the bath semi-regularly, should estimate their hot water needs as 6 people and select a 443L system.

* This is a guide only - actual hot water requirements will vary from location to location, will depend on cold water temperatures, ambient temperatures, seasonal variations and other factors.

TECHNICAL SPECIFICATIONS

Model	181BCXII		221BCXII		302BCXII		303BCXII		443BCXII		
	Tank	System	Tank	System	Tank	System	Tank	System	Tank	System	
Number of collectors	1		1		2		3		3		
Storage Capacity	Litres	180	220	300	300	440					
	USGall	48	59	80	80	116					
Delivery Capacity - Solar	Litres	160	200	280	280	400					
	USGall	42.3	52.8	74	74	106					
Delivery Capacity - Booster	Litres	135	165	230	230	320					
	USGall	36	29	61	61	84					
Weight - Empty	Kg	66	108	78	120	105	189	105	231	150	276
	lbs	145	238	172	264	231	416	231	509	331	608
Weight - Full	Kg	246	288	298	340	405	489	405	531	590	716
	lbs	542	635	657	750	893	1078	893	1170	1300	1578
Length	m	1.49	2.48	1.76	2.48	2.31	2.48	2.31	2.48	3.29	2.48
	ins	59	95	69	95	91	95	91	95	129	95
Height	m	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
	ins	20	20	20	20	20	20	20	20	20	20
Width	m	0.51	1.49	0.51	1.94	0.51	2.31	0.51	3.16	0.51	3.28
	ins	20	58	20	76	20	91	20	124	20	129
Working Pressure	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	psi	145	145	145	145	145	145	145	145	145	145
Test Pressure	kPa	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
	psi	305	305	305	305	305	305	305	305	305	305

Cylinder Material	Steel, 2.5mm(.10")
Cylinder Lining	Primaglaze: Ceramic Lining - 2 Coats
Insulation	Polyurethane: Pressure Injected, Zero CFC
Case	Aluminium: Marine Grade, 0.4mm (0.15")
End Caps	Polypropylene: Carbon Black, UV Stabilised
Anode	Magnesium with Steel Core

YOUR LOCAL SOLAHART EXPERT IS:

Sol del Choco S.A.
 Calle Principal, km 0,5
 Sosúa, Puerto Plata, R.D.
<http://www.solchoco.com>
 e-mail: info@solchoco.com

Solahart Australia Head Office

PO Box 6
 Rydalmere NSW 2116
 Telephone: 02 9684 9100
 Facsimile: 02 9684 9180

Solahart International Head Office

112 Pilbara Street, Welshpool
 Western Australia 6106
 Telephone: +618 9351 4600
 Facsimile: +618 9351 8034
 Email: solahart@solahart.com.au
 Internet: www.solahart.com

Solahart Industries Pty Ltd

ABN 45 064 945 848

Visit our website at
www.solahart.com.au



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