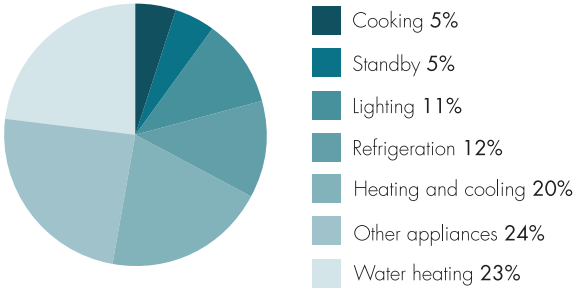
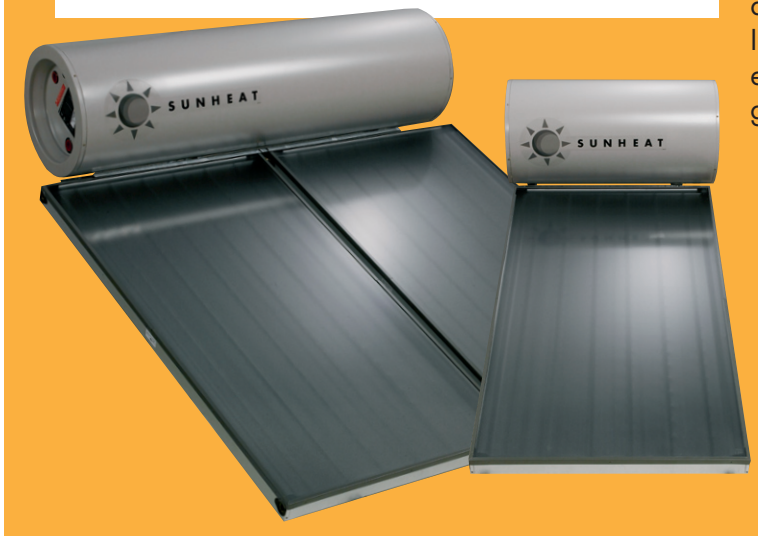

SUNHEAT
SOLAR WATER HEATERS





Greenhouse gas emissions from home energy use
(Baseline Energy Estimates 2008)





WHY SOLAR HOT WATER?

In the bathroom, in the kitchen and in the laundry, every one of us uses many hundreds of litres of hot water every week. If you're paying for those litres to be heated, the cost in money and environmental terms can be enormous. Water heating accounts for 25 per cent of the energy used in an average home and is responsible for 23 per cent of the total greenhouse gas emissions from home energy use. So reducing your hot water use and using renewable energy sources to heat water are great ways to reduce your environmental impact. Installing a Sunheat solar water heater can cut this energy requirement by up to 80 per cent*, and reduce greenhouse gas emissions by up to 4 tonnes* per year.

WHY A SUNHEAT?

Manufactured in Australia, you can have every confidence that your new Sunheat will last. With its vitreous enamel steel tank and high performance solar collectors, a Sunheat solar water heater will be quietly meeting your family's hot water needs for many years to come.

And don't worry if the sun isn't shining, with a Sunheat you get a choice of boosting options; either the inbuilt electric element, or the optional, in-line gas booster. So no matter where you live or what the weather, you will always have hot water.

And it doesn't have to cost the Earth to replace your existing gas or electric water heater with a Sunheat solar water heater. If you qualify for all the available Federal and State Government rebates and incentives it could be cheaper to convert to solar than to replace your existing heater with a like product. Don't worry if you don't qualify for all the rebates, you will still be better off with a Sunheat in the long run, because with the savings it generates year in year out it should pay for itself over time.

WHICH SYSTEM IS RIGHT FOR YOU?

Sunheat systems come in a range of options to suit almost every application and hot water requirement. Which system you choose will depend on where you live, which way your home faces, and even the pitch of your roof; so it's important to talk to your Sunheat distributor to get the right advice.

The Sunheat open circuit system is particularly suited to areas which are frost free, without harsh water and are serviced by town water supplies. Because the sun heats the water directly in the solar collectors, these systems are the most efficient in terms of converting the sun's energy into hot water.

The Sunheat closed circuit systems use a heat exchange fluid to pass the sun's energy into the storage water. This method provides excellent protection against possible damage by frost or snow conditions, because the water is totally contained in the storage tank. Combined with the benefits of anode protection the Sunheat closed circuit systems can be used, with confidence, in a wider range of water quality areas.

TECHNICAL SPECIFICATION

SYSTEM SPECIFICATIONS

		Open Circuit		Closed Circuit	
Model	Units	160D	300D	180C	300C
Capacity	Litres	160	300	180	300
Collectors		1	2	1	2
Dimensions					
Length	mm	2490	2490	2530	2530
Width	mm	1138	2198	1670	2480
Weight					
Empty	kg	113	184	92	151
Full	kg	275	488	275	457

WARRANTY DETAILS

	160D	300D	180C	300C
Warranty	5 year cylinder and collector(s), 1 year parts and labour			
Suitable for Frost Areas	No	No	Yes	Yes
Suitable for Harsh Water Areas	No	No	Most	Most

ELECTRIC BOOST SPECIFICATIONS

Heating unit type	Copper sheath immersion element			
Supply Voltage	220 V - 250 V			
Recovery rate @ 240 V per hour at a temperature rise of:				
Rating - kW	Current - Amps	30°C	40°C	50°C
2.4	10	68	52	41
3.6	15	103	77	62
4.8	20	137	103	83

WATER SUPPLY

TPR valve setting	kPa	1000	psi	145
ECV setting	kPa	850	psi	125
Maximum supply pressure				
With ECV	kPa	680	psi	100
Without ECV	kPa	800	psi	115
Water Connections	cold	G ½B		
	hot	RP ¾ / 20		

NPT COLLECTOR

Aperture area	m^2	1.87	ft^2	20
Dimensions				
Length	mm	1937	in	76.3
Width	mm	1022	in	40.3
Height	mm	77	in	3
Capacity	Litres	3	Gal	0.66
Weight				
Empty	kg	39	lbs	86
Full	kg	41	lbs	90
Working pressure	kPa	1000	psi	145
Absorber surface	Black polyester powder coat			
Absorber material	Aluminium			
Riser material	Copper tube			
Number of risers	6			
Tray material	Zincalume©			
Insulation material	38mm polyester blanket			
Glass	3.2mm tempered low iron			

YOUR LOCAL SUNHEAT DISTRIBUTOR

Manufactured by Rheem Australia Pty Ltd

* Savings shown are based on Australian Government approved TRNSYS simulation modelling. Savings and incentives will vary depending upon your location, type of 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.