



natural heat[®]

Solar Hot Water Systems

1300 725 674

www.natural-heat.com.au

About Natural Heat Solar Hot Water

Natural Heat specialises in creating high quality hot water systems with intelligent technology. We believe in harnessing natural energy sources such as sunlight. As a result you could reduce your greenhouse gas emissions from water heating. You could also save up to 65% - 87% on your water heating energy consumption.*

Natural Heat offers a comprehensive range of flexible solar hot water solutions including both gas and electric boosted systems along with integrated solar solutions. We provide tailored offerings to meet your household requirements and budget.

Natural Heat is proud to launch a market leading range of heat pump boosted solar systems, a breakthrough design in energy efficient solutions.

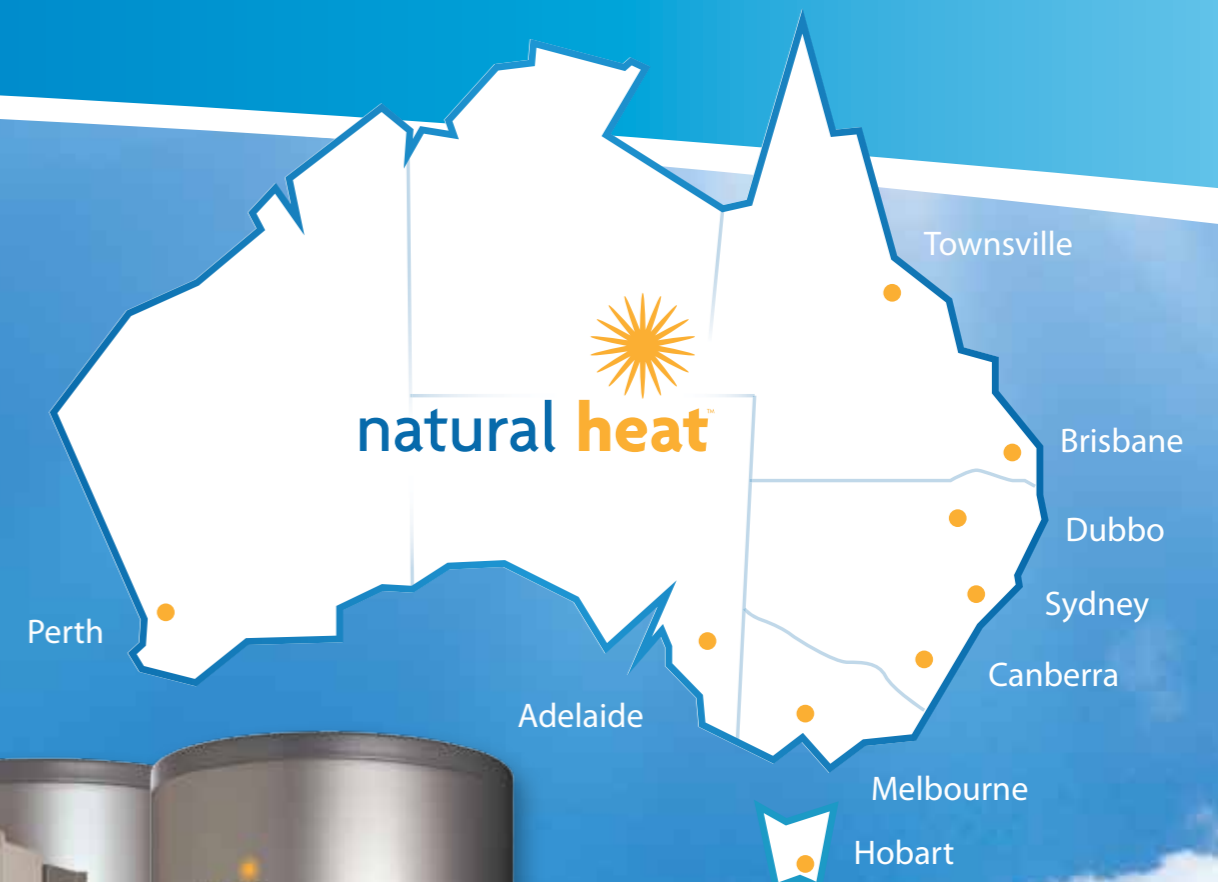
Our systems are fully accredited to Australian standards AS/NZS 2712:2007 and AS 3498-2009, which are amongst the world's most rigorous. We are proud to offer a 5 year tank warranty on our complete range, giving you peace of mind and confidence in your Natural Heat system.

Natural Heat products are accredited with ORER and SAI Global, and have been tested in the VIPAC laboratories in Melbourne, Australia.

*Based upon the SG-400A3-26 system in comparison with ORER's Peak Winter Hot Water Energy Load. Office of the Renewable Energy Regulator, REC calculation methodology for solar water heaters and heat pump water heaters with a volumetric capacity up to and including 700 litres, Table 2, Version 13 January 2008.

Actual savings will be dependent on your system type, location and energy usage.

natural heat sales locations



Solar Hot Water Product Range

introducing the australian designed
range of natural heat products

Introducing Natural Heat's Australian designed range of solar hot water systems.

Electric Boosted Solar Hot Water Systems

Natural Heat's electric boosted solar hot water systems deliver solar heated water straight to your home. Boosted by a 3kW electric element, you'll be covered even on the coldest winter days. Available in 3 tank sizes 250L, 325L and 400L, there's sure to be a system to meet your needs.

Gas Boosted Solar Hot Water Systems

Delivering you hot water heated from the rays of sun, Natural Heat's gas boosted solar systems offer high efficiency water heating. Backed up with a Bosch or Takagi continuous gas booster, you'll have continuous hot water with quality you can trust. Available in LPG and natural gas and a great range of tank sizes.

Integrated Solar Solution

Bringing together two of the biggest revolutions in the environmental hot water market, Natural Heat is proud to introduce the Integrated Solar Solution. Featuring high quality solar collectors boosted by heat pump technology, this system brings a new standard to hot water technology.

Our tanks are suitable for all Australian areas, and are constructed from 2mm marine grade stainless steel.



Electric Boosted Solar
Hot Water Systems

Gas Boosted Solar
Hot Water Systems

Integrated
Solar Solution

How Solar Hot Water Works

hot water, naturally

Solar Hot Water - Electric Boosted Systems:

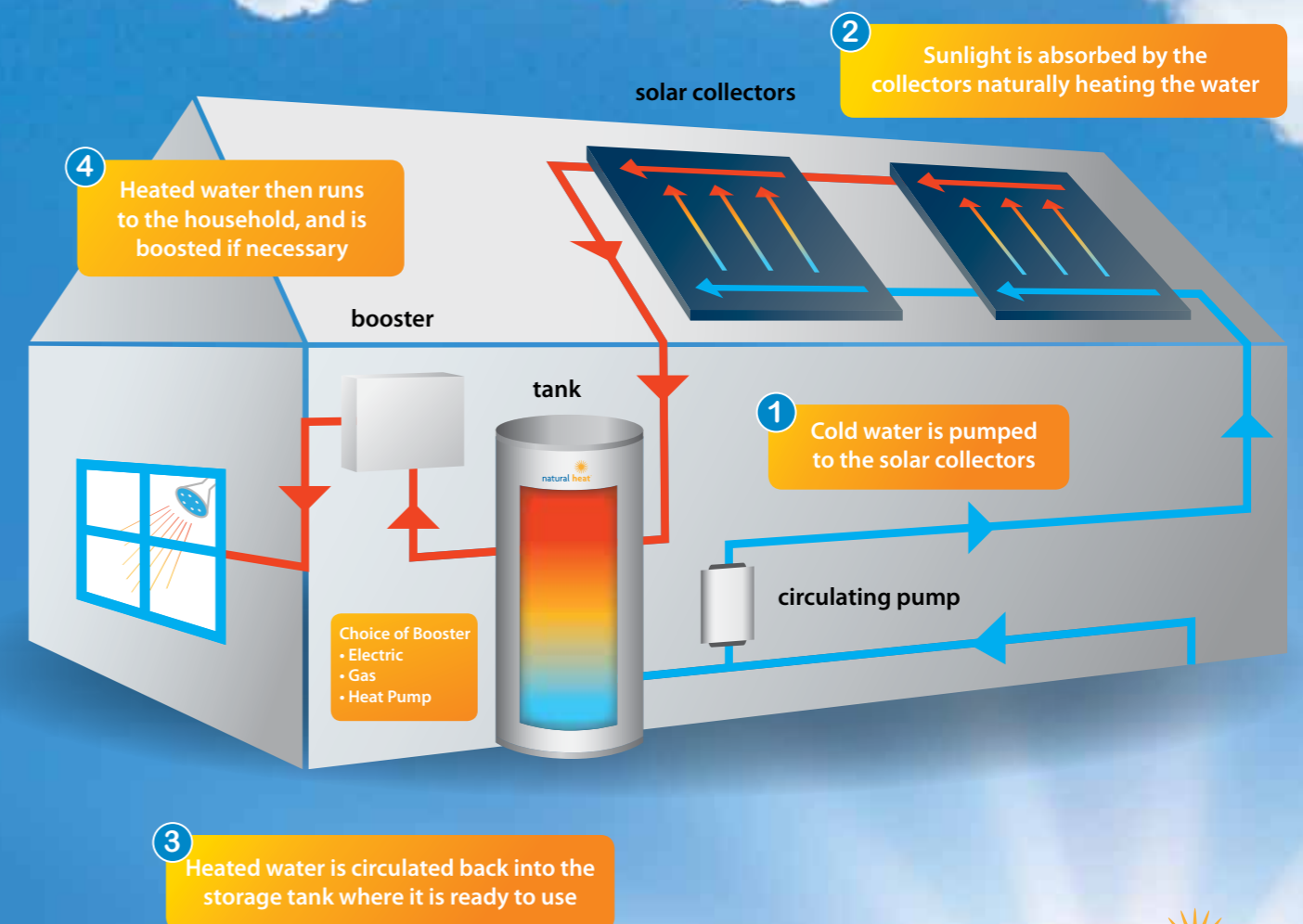
1. Cold water from the storage tank is pumped to the solar collectors
2. Sunlight is absorbed by the collectors naturally heating the water within
3. Heated water is circulated back into the storage tank where it is ready to use
4. Electric heating element will boost the tank water to 60°C if there has been insufficient sunlight

Solar Hot Water - Gas Boosted Systems:

1. Cold water from the storage tank is pumped to the solar collectors
2. Sunlight is absorbed by the collectors naturally heating the water within
3. Heated water is circulated back into the storage tank where it is ready to use
4. If the tank water temperature falls below 55°C, the gas booster activates, heating the outlet water to 60°C

Solar Hot Water - Integrated Solar Solution:

1. Cold water from the storage tank is pumped to the solar collector
2. Sunlight is absorbed by the collectors heating the water
3. The heated water is circulated back into the storage tank where it is ready to use
4. If the water's temperature is below 55°C the heat pump heats the tank water to 60°C
The heat pump uses refrigerant and heat exchange technology to transfer heat from ambient air to water, not relying on sunlight. Very little electricity is required to run heat pumps thus increasing the system's energy efficiency.



Solar Hot Water Electric Boosted Systems

solar hot water
at unbelievable value



Natural Heat's locally designed range of solar hot water systems deliver natural water heating solutions without breaking the budget. Featuring the potential for you to save up to 57% - 85%* from water heating, our highly efficient electric boosted systems are hard to beat.

Our systems will provide you with full mains pressure throughout your home, and you'll have plenty of hot water all year round.

Our solar electric boosted systems also include dual frost protection to protect from Australia's harshest climates. With a 5 year tank warranty you'll have confidence and peace of mind with your new Natural Heat system.



Features:

- Rapid heat absorbing black chrome solar collectors
- Built in heating booster element allows a compact system size
- Simple to install and commission by a qualified installer
- 2mm marine grade stainless steel tank
- Dual frost protection
- Smart controller circulates warm water preventing frost damage and minimises water wastage
- Anti-frost valve backup provides further protection in case of power failure (i.e. mains power is down)

Electric Boosted Solar System	System Size		
	SE-250	SE-325	SE-400
DESCRIPTION			
Heat Capacity (kW)	3.0	3.0	3.0
Tank Capacity (litres)	268.9	326.2	439.6
Solar Collectors	2	2	3
Household Size: Bedrooms	2	2 - 3	4 +
People	2	3 - 5	4 - 7
BENEFITS			
Annual energy savings (from water heating)	Up to 57% - 83%	Up to 56% - 83%	Up to 57% - 85%
<ul style="list-style-type: none"> • Fantastic value • Smart frost protection • 5 year tank warranty 			

* Based upon comparison with OREER's Standard Electric Energy Consumption for Conventional systems. Source: Office of the Renewable Energy Regulator, REC calculation methodology for solar water heaters and heat pump water heaters with a volumetric capacity up to and including 700 litres, Table 5, Version 13 January 2008. Actual savings will be dependent on your system type, location and energy usage.

Solar Hot Water Gas Boosted Systems

high efficiency solar hot water
with quality you can trust



Making a difference to your energy consumption has never been easier with Natural Heat's gas boosted solar range. Featuring a Bosch or Takagi continuous gas booster, our gas boosted systems offer environmental heating solutions with quality you can trust. Our gas boosted systems are highly efficient and could save you up to 65% - 87% on your water heating energy usage*.

The instantaneous gas booster means hot water on demand, even if there has been little or no sunlight.

With a 5 year tank warranty you'll have confidence and peace of mind with your new Natural Heat system. Available in 3 generous tank sizes, there's sure to be a system to meet your needs and budget. Available for use in LPG and natural gas.



Features:

- Rapid heat absorbing black chrome solar collectors
- Bosch or Takagi gas booster
- Instantaneous boost system provides hot water continuously, so you'll never have a cold shower
- 2mm marine grade stainless steel tank
- Dual frost protection
 - Smart controller circulates warm water preventing frost damage and minimises water wastage
 - Anti-frost valve backup provides further protection in case of power failure (i.e. mains power is down)

Gas Boosted Solar System	System Size		
	SG-250	SG-325	SG-400
DESCRIPTION			
Gas Booster	Bosch/Takagi	Bosch/Takagi	Bosch/Takagi
Tank Capacity (litres)	268.9	326.2	439.6
Solar Collectors	2	2	3
Household Size: Bedrooms	2 - 3	3 - 4	4 +
People	2 - 4	3 - 5	5 +
BENEFITS			
Annual energy savings (from water heating)	Up to 54% - 77%	Up to 54% - 76%	Up to 65% - 87%
• Bosch or Takagi continuous gas booster • Rapid heating solar collectors • 5 year tank warranty			

* Based upon comparison with ORER's Peak Winter Hot Water Energy Load. Source: Office of the Renewable Energy Regulator, REC calculation methodology for solar water heaters and heat pump water heaters with a volumetric capacity up to and including 700 litres, Table 2, Version 13 January 2008. Actual savings will be dependent on your system type, location and energy usage.

Solar Hot Water Integrated Solar Solution

breakthrough energy efficient hot water technology



Combining the best hot water technologies, our integrated solar solution will revolutionise the enviro hot water market.

This one of a kind system utilises both sunlight and ambient air to deliver steaming hot water heated via solar collectors and a heat pump booster.

The technology and materials used in this system have been in operation across Europe for decades. The booster is quiet and extremely energy efficient.

With a 5 year tank warranty you'll have confidence and peace of mind with your new Natural Heat system. Available in 250L, 325L and 400L marine grade stainless steel tanks, there is a system to suit your household and budget



Features:

- Rapid heat absorbing black chrome solar collectors
- Potential to use much less energy than an electric boosted system
- High energy saving rate and operational stability
- Uses a process that has been in operation by the air conditioning industry for decades
- 2mm marine grade stainless steel tank
- Dual frost protection
 - Smart controller will circulate warm water if required preventing water wastage
 - Anti-frost valve backup in case of power failure (i.e. mains power is down)

Integrated Solar Solution	System Size		
	SH-250	SH-325	SH-400
DESCRIPTION			
Tank Capacity (litres)	268.9	326.2	439.6
Solar Collectors	2	2	3
Household Size: Bedrooms	2	2 - 3	4 +
People	2	3 - 5	4 - 7
BENEFITS			
Annual energy savings (from water heating)	Up to 58% - 73%	Up to 57% - 73%	Up to 47% - 64%
<ul style="list-style-type: none"> • Highly efficient heat pump booster • Smart frost protection • 5 year tank warranty 			

* Based upon comparison with ORER's Standard Electric Energy Consumption for Conventional systems.. Source: Office of the Renewable Energy Regulator, REC calculation methodology for solar water heaters and heat pump water heaters with a volumetric capacity up to and including 700 litres, Table 5, Version 13 January 2008. Actual savings will be dependent on your system type, location and energy usage.

Technical Specifications

All Systems

Solar Collector	
Dimensions and Specifications	Collector NH - CP20
Length (mm)	2000
Width (mm)	1000
Depth (mm)	80
Weight empty (kg)	34.5
Risers	8



Electric Boosted Solar Hot Water Systems

Tank Dimensions and Specifications	Tank size		
	250L	325L	400L
Heat Capacity (kW)	3.0	3.0	3.0
Height (mm)	1545	1634	1700
Width (mm)	750	800	900

Gas Boosted Solar Hot Water Systems

Tank Dimensions	Tank size		
	250L	325L	400L
Height (mm)	1545	1634	1700
Width (mm)	790	845	900

Gas Booster Specifications	Booster	
	21E	26E
Gas Type	LPG or Natural Gas	LPG or Natural Gas
Booster capacity: L/min. at 25°C rise (L/min)	21	26
Gas Consumption (Mj/hr)	173.1	199.1
Pipe connections (mm)	20	20
Relief Valve Pressure Setting (kPa)	1600	1600

Integrated Solar Solution

Tank Installation Dimensions	Tank size		
	250L	325L	400L
Height (mm)	1500	1500	1698
Diameter (mm)	600	650	700
Hot Water Heat Pump Connection Port – From Base (mm)	450	450	450
Cold Water Heat Pump Connection Port – From Base (mm)	195	195	210

Heat Pump Dimensions	Pump		
	NH-13WB	NH-18WB	NH-27WB
Dimensions (mm)	920x280x550	920x280x550	1000x300x620
Net Weight (kg)	48	55	70
Power Supply (V / ph / Hz)	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Input Power (kW)	1.3	1.8	2.7
Heating Capacity (kW)	5.0	7.2	10.8
Rated Input Current (A)	5.7	8.2	12.7
Rated Heating Temp (°C)	60	60	60
Noise (db)	≤ 48	≤ 48	≤ 48



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