

# Quantum

Solar Heat Pumps  
Domestic Range





## Who are Quantum?

Quantum are the experts in Heat Pump Water Heating technology. Since 1977 we have been developing our patented technology, our products have been tried and tested to perform reliably and efficiently - in even the harshest conditions throughout all of Australia.

Our commitment to product research and development, and the subsequent introduction of several market leading innovations; ensures that Quantum remains the number one choice of "those in the know" when it comes to Heat Pump water heating.

## Proven performance over time

As the innovators and experts of heat pump technology, Quantum has the largest range of compact heat pumps available in Australia - enabling you to select the right solution for the right application.

Our extensive range of products can service single bedroom/bathroom residences, right through to multi level offices, hotels, motels, resorts, recreational facilities, retail outlets; and everything in between. We can tailor a solution for your needs!

Installing a Quantum solar heat pump system is also very simple and almost identical to installing a regular electric hot water system. There are no roof panels or additional components, meaning an easy, trouble-free conversion from electric hot water to sustainable and reliable solar hot water for your home.



**Quantum**

## The Quantum Solar Heat Pump

### Solar without the panels

All the benefits of solar hot water, without the need for sunlight! Our heat pump can provide you with hot water which operate in all climates, at all times of the day.

### Patented tank wrap design

Offering the fastest hot water recovery rate in the heat pump market.

### Excellent for use in poor water conditions

The water does not make contact with any operational components, only the inner lining of the tank.

### No boost elements

Quantum heat pumps can operate in ambient temperatures as low as minus 15°C. No booster elements, means less energy consumption.

### Easy installation

No solar roof panels, compact design - reduced labour and installation costs.

### Saves money

Cuts up to 75% of running costs compared to electric and LPG storage units.

### Low noise rating

Ultra quiet technology as low as 48DB, that's less than a split system air conditioner.

# Quantum Heat Pumps

## 150L Solar Heat Pump

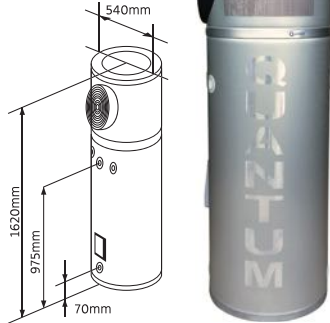
Model: 150-08AC6-290



**Warranty:** 5 years (5 years tank, 2 years only electric and refrigeration)\*

**Dimensions:** 1620 x 540mm

Rebates are available on application, visit [quantumenergy.com.au](http://quantumenergy.com.au) for more information.



## 200L Solar Heat Pump

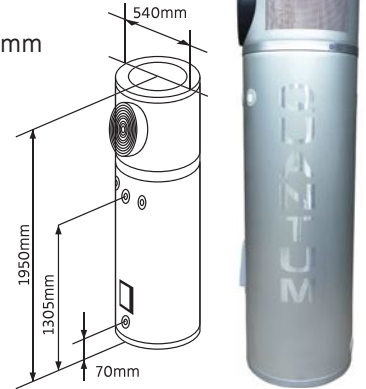
Model: 200-08AC6-290



**Warranty:** 5 years (5 years tank, 2 years only electric and refrigeration)\*

**Dimensions:** 1950 x 540mm

Rebates are available on application, visit [quantumenergy.com.au](http://quantumenergy.com.au) for more information.



## 270L Solar Heat Pump

Model: 270-08AC6-290



**Warranty:** 5 years (5 years tank, 2 years only electric and refrigeration)\*

**Dimensions:** 1900 x 650mm

Rebates are available on application, visit [quantumenergy.com.au](http://quantumenergy.com.au) for more information.



## 340L Solar Heat Pump

Model: 340-08AC6-290



**Warranty:** 5 years (5 years tank, 2 years only electric and refrigeration)\*

**Dimensions:** 2200 x 650mm

Rebates are available on application, visit [quantumenergy.com.au](http://quantumenergy.com.au) for more information.



## Platinum 270L Heat Pump

Model: 270-08AS6-290



**Warranty:** 5 years (5 years tank, 2 years only electric and refrigeration)\*

**Dimensions:** 1425 x 650mm

Rebates are available on application, visit [quantumenergy.com.au](http://quantumenergy.com.au) for more information.



\*Refer to [quantumenergy.com.au](http://quantumenergy.com.au) for warranty details or call 1800 644 705 | Under its policy of ongoing product development, Tasman Sinkware may from time to time change product specification without notice. All dimensions given are approximate and should be checked prior to installation.

Number of people living in the home.

Number of bathrooms in the home.

Number of bedrooms in the home.

## How does it work?

A simple concept, brilliantly executed. The Quantum Solar Heat Pump works on a patented refrigeration principle similar to that found in an air conditioner, or refrigerator – but in reverse.

### 1. Sun heats the air

Heat pumps rely on ambient air temperature rather than incidental sunshine. Utilising refrigeration principles, Quantum heat pumps can extract heat from the air without the need for direct sunlight, and can produce hot water in rain, hail or shine - without the need for a booster element.

### 2. Energised air inducted into heat pump

Once the air is drawn into the heat pump, it passes over an evaporator containing a 100% environmentally friendly refrigerant which boils at a very low temperature. The boiling refrigerant is then compressed causing its' temperature to be raised even further - transforming it into a superheated vapour.

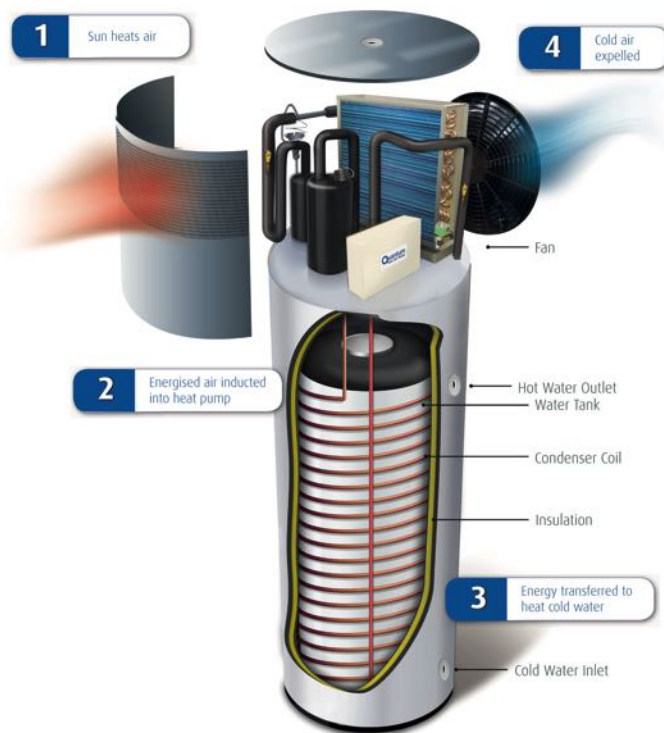
### 3. Energy transferred to heat cold water

Using Quantum's patented tank wrap technology; this superheated vapour is fed through copper coils

(condenser) wrapped around the outside of the water tank, heating the water evenly and efficiently from the outside in.

### 4. Cold air expelled

Once the heat has been extracted from the air and transferred to the water; the remaining cold air is discharged from the heat pump via our fan. Once the desired water temperature is reached, the system will go into standby mode until it is required to commence reheating again – saving you more!



## Solar without the sun

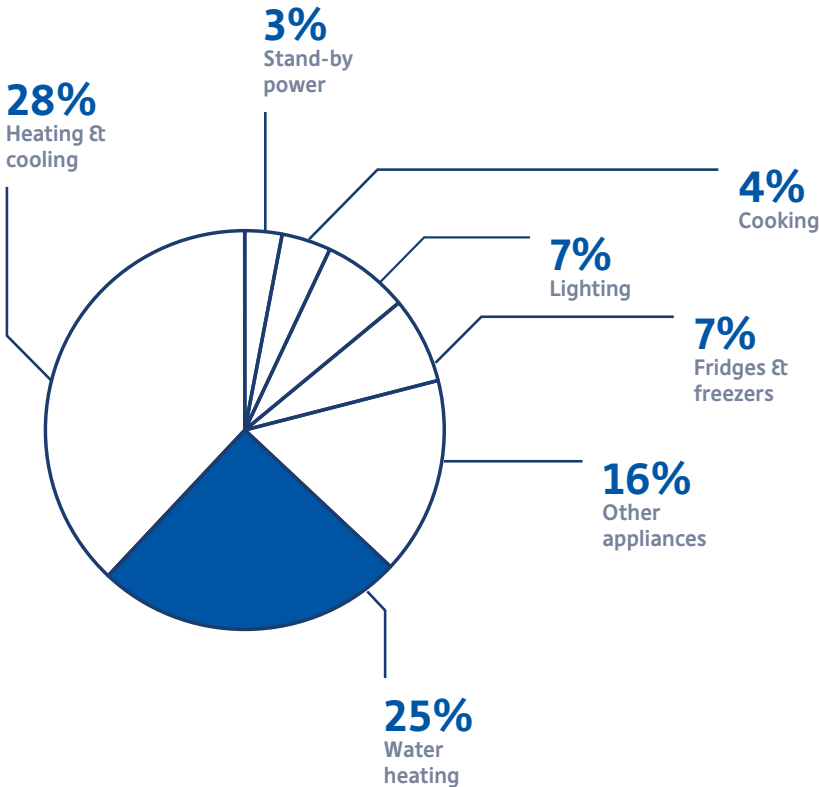
### Conventional solar VS Quantum solar heat pump

Solar HWS typically consists of collector panels or tubes which water flows through, connected to a storage tank. Water is heated by the sun and is pumped or flows between the tank and panel as hot water.

A Quantum Solar Heat Pump (unlike conventional solar HWS) makes use of the heat in the ambient air around the system, and a reverse refrigeration process to heat the water. This means we don't need the sun to be shining, and what's more, it's so efficient that it can provide reliable hot water 24 hours a day, even in temperatures as low as -15°C. Only a Quantum heat pump can do that.

## Did you know?

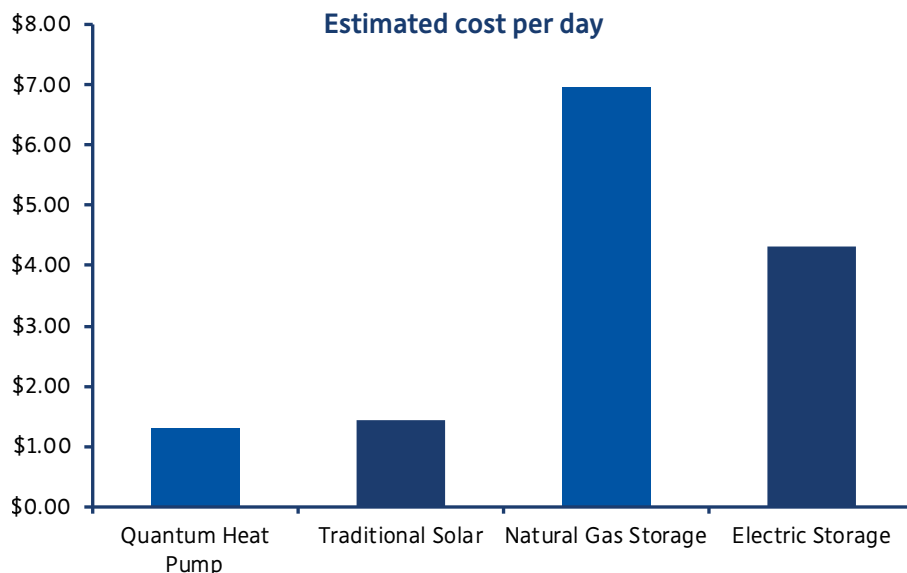
Hot water heating can account for more than 25% of your homes' total energy usage, and is the single highest contributor to your annual electricity bills, using more energy than all of your other domestic appliances combined.



## Hot water heating cost comparison

Not many household appliances can provide you a financial benefit, let alone pay for themselves, however a Quantum heat pump can do exactly that.

Once installed, a Quantum heat pump will cost just a fraction to run when compared to other traditional forms of water heating - and could save you thousands of dollars whilst also reducing greenhouse emissions and the environmental footprint of your home.



## What can you do?

With rising energy costs and government incentives still available - it makes sense to upgrade to an energy efficient Solar Hot Water System (HWS)!

In Australia, between 50 and 95 per cent of your household hot water requirements can generally be supplied by a Solar HWS, replacing an inefficient hot water system is one of the simplest, most economical, high impacting, carbon-reducing, opportunities available to you today. This means that by installing one of our systems, you'll use far less energy, and dramatically reduce your household's electricity bill.

## What are my options?

Most people are aware of three ways to generate hot water - electric, gas and conventional solar; but there is a fourth, and it's one of the most efficient hot water systems available - The Quantum Solar Heat Pump.

Our system can provide you with energy efficient solar hot water, without the need for roof panels!



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September 2017. (QU-001)

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