

Hot Water Heat Pumps

What will they do for you?

Considering a hot water heat pump ?

If you are looking to replace your current hot water heating system, a hot water heat pump may be a good choice for your home.



Why should you consider a hot water heat pump?

Hot water heat pumps use electricity instead of gas to heat water. Heating water typically accounts for 25% of your energy bill. By avoiding the costs of gas, using an electric hot water heat pump can save you money on your energy bill.

What are the benefits of hot water heat pumps?

- Reduce energy consumption 63-75%
- More efficient than gas appliances in all Australian climate zones
- Eligible for Government STC's and rebates, go to <http://www.hotwaterrebate.com.au> for information regarding your area
- Life expectancy of around 16 years with proper maintenance
- Warranties extending to 10-15 years depending on brand

Considerations

- Space: Heat pumps need to be located in open areas with good airflow and no obstructions
- Heat pumps make light humming noises, be sure to account for bedrooms and neighbors
- Yearly inspection recommended for long life and efficient operation
- Higher initial cost than comparable gas units (Quantum systems may cost between \$2400 and 2750 depending on size)
- Proper sizing required for optimum performance

Energy Efficiency

How does gas compare to electricity?

A typical gas hot water system will have a coefficient of performance of 0.8-0.9. Hot water heat pumps have coefficients of performance between 3.88 and 4.5. Higher efficient systems are more expensive, but even the 3.88 systems have better energy ratings than gas systems.

Does climate affect performance?

The efficiency of your hot water heat pump is affected by climate. However, a recent study has proved that, heat pumps provide justifiable savings throughout each of the Australian climate zones.

What size hot water heat pump do I choose?

Getting the proper sized water tank based on your consumption is essential for ensuring the unit performs at its peak. To pick a size right for your house, look at the table below:

Water Heater House Classification			
Range	Size 1	Size 2	Size 3
Description	Apartment/Small Home	Mid Size house	Large house
Number of People	2	3	4-6
House Size	1 Bath, 2 BR	1 Bath, 3 BR	2 Bath, 4 BR
Number of Showers (8-9 min)	2	4	6

What model should I consider?

Choosing a hot water heat pump model depends on the size of your household. Using the size descriptions above, you will need a size 1, 2, or 3. A list of available hot water heat pumps is shown below with their price.

Range	Model	Price
Size 1 (<100L)	Quantum Compact 150L	2400
	Sanden 160L	3700
	Quantum Compact 200L	2520
Size 2 (200-300L)	Sanden 250L	3760
	Quantum Split 270L	3390
	Siddons 270L	3650
	Quantum Compact 270L	3225
	WWK 300A Hot Water Heat Pump	2999
Size 3 (>300L)	Sanden 315L	3850
	Quantum Compact 340L	2780
	Quantum Titan Compact 340L	4350
	Quantum Split 340L	3650
	Siddons 340L	3915



Initial Investment

Ready to invest in a heat pump? The prices vary widely between brands and sizes. The best deal for you money is likely Quantum, offering you a full range of sizes and application types that can be tailored to your specific needs. If you want to maximize your efficiency, Sanden offers the most efficient system.

Installation Considerations

Installing a heat pump can be expensive. Depending on your current system, you can pay anywhere from \$600-\$2000. The cost depends on the amount of extra work needed to install your unit. If you are replacing an existing water tank, it will be cheaper than installing a heat pump in a new location. The cost will vary with the amount of new installation work required.