

8 FACTS FOR **HEAT PUMP HOT WATER SYSTEM**

1 Lower costs with a heat pump hot water system

36% of Australian houses come with a hot water electric storage system. Their use costs an average of **\$820/year**.

In contrast, high-efficiency heat pumps can do the same job for the same house for approximately **\$185/year**.

Thus, the saving from a heat pump hot water system can be approximately **\$635/year**. They payback period of a heat pump system is between 5-10 years while the lifespan of this system can be up to 15 years.

2 A heat pump system is more environmentally friendly

A traditional electric-resistive system releases **4.75 tonnes** of greenhouse gases annually.

In contrast, heat pumps release only **1.6 tonnes** of greenhouse gases annually.

Gas hot water heaters have similar greenhouse gas emissions from operation but the environmental damage from gas extraction and acquisition is often worse, than with electricity.

3 The heat pump system is more efficient than a conventional hot water system

The efficiency of a heat pump system is usually defined as Co-Efficient of Performance (COP). The higher the COP, the better the heat pump will perform.

Most hot water heat pumps' COP scores consistently remain at 3 or above. This means that when the water requires 3kW electricity to be heated up, a heat pump system with COP of 3 will only require 1kW of electricity to heat water to the same level.

4 2 types of heat pump hot water systems

Heat pump systems are configured in one of two ways:

1. Integrated (Evaporator and fan mounted on top of the water tank)
2. Split (Evaporator & fan separated from water tank)

The integrated heat pump system has greater weight and needs a larger space for sufficient ambient airflow.

The split heat pump system is easier to move and the separate hot water storage tanks can be installed anywhere.

5 Heat pump system manufacturers

There are many heat pump system brands available in the market. Make sure you do your research first.

Look at real-world reviews which inform you as to which heat pump brands & models will work best for you. Check out the heat pump pages of trustworthy review sites.

Japanese manufactured heat pumps have built up a good reputation over a long period of time for being long lasting heat pumps. Also, if it is a Japanese brand make sure that the specific heat pump you are purchasing is also manufactured in Japan.

6 Government rebate

Under the federal government's Small Scale Renewable Energy Scheme (SRES), hot water heat pump systems qualify for small-scale technology certificates (STCs). You can exchange these for a rebate when you purchase your heat pump. Since STCs are usually arranged by the supplier, you don't have to do paperwork to receive these discounts.

On average, STCs can save you \$800-\$1,000 on the cost of a new hot water heat pump system.

7 Long warranty period of heat pump systems

Warranties vary by manufacturer. Read the conditions carefully, especially those concerning labour. Some warranties require professional installation, regular servicing, and adequate water quality.

Generally, the warranty period of a split heat pump system is 5+ years for the evaporator/fan and 5-10 years for the water storage tank.

8 Noise level of a heat pump system

In general, the noise level of a heat pump system is between 37dB (noise level inside a library) to 50 dB (quiet suburban traffic).

Like the outdoor unit of an air conditioner, heat pumps do make some noise. Modern heat pumps are usually quiet enough to fade into the background of a quiet suburb.

Many systems also have a programmable timer which you can use to keep noise levels down at night. It's also best to keep the installation location away from bedrooms unless the heat pump is only set to run during the day.

Make sure you always check the decibel level of a particular model to make sure you have a quiet heat pump.

