TAKE CONTROL OF YOUR HOT WATER HEATING AND SAVE UP TO 70%.

ecospring HOT WATER SYSTEMS
Smart Hot Water Heating

EcoSpring Water Heaters are the next generation in water heating. Using heat pump technology, they harness naturally occurring thermal energy from the air to heat the water. EcoSpring also utilise smart technology that allows you to control and manage the way you heat your water, with a simple to use control panel.

How EcoSpring Works

EcoSpring Heat Pump Hot Water Cylinders work much like a fridge but in reverse. They harness the ambient temperature in the air, multiplying this heat to heat the water at a fraction of the energy of a traditional hot water cylinder.

1. A fan pulls in air, containing heat energy, across the evaporator.
2. The evaporator turns the liquid refrigerant into a gas.
3. The compressor converts refrigerant into high temp / high pressure gas.
4. The hot gas inside the condenser coil heats the water inside the tank.
5. The refrigerant reverts back to a liquid after heating the water & continues back to the evaporator for the process to start again.

The Energy Equation

1.0kW Power Input + 2.60kW Atmospheric Heat = 3.60kW Hot Water

A heat pump is like an energy amplifier. From 1 kW of power input, it can create over 3.6 kW of output heat. That’s a performance efficiency of over a remarkable 300%. Conventional electric storage water heaters can only convert 1 kW of input power into 1 kW of output heat.

- **Reduce Power Bill**
  - Save money, with water heating costs reduced by up to 70%.
- **Renewable Energy**
  - Harnesses naturally occurring thermal energy from the air to heat the water.
- **4 Year Payback**
  - Typically, the initial investment will be paid back within 2 – 4 years.
- **Inside/Outside Installation**
  - Designed to withstand weather. Standard electrical connection, standard cold water inlet and hot water outlet. (Rain Cover required for the ES300+)
- **Advanced Controls**
  - ES190 (Economy, Hybrid & e-Heater modes) ES300+ (Heat Pump & e-Heater modes)
- **Real Time Control**
  - 24 hour timer allows accurate water heating control to take advantage of the higher daytime temperatures & eliminate noise during the night.
Advanced Controls

**Economy Mode - Model ES190**
The unit utilises the heat pump to heat water. This is the most efficient mode possible, thus allowing the greatest savings.

**Hybrid Mode - Model ES190**
While the unit uses the heat pump as its primary means to heat the water, the standard electric elements will activate if the ambient air temperature is low. -7°C < T4 < 12°C

**Heat Pump Mode - Model ES300+**
While the unit uses the heat pump as its primary means to heat the water, the standard electric elements will activate if the ambient air temperature is low. -7°C < T4 < 12°C

**e-Heater Mode - Both Models ES190 & ES300+**
This mode shuts off the heat pump and only uses the electric elements to heat the water, just like a standard electric water heater. e-Heat mode allows for operation in colder situations (less than -7°C) where heat pump would not function ideally.

Models

**ES300+ 300 Litre Cylinder**
Suitable for 3+ people in a larger household.
Installation - Outside
Outside installations require a concrete pad & an EcoSpring Rain Cover to ensure the ducts are protected from the weather.

Installation - Inside
Inside installations can utilise extra efficiencies by ducting cold air out of the house using a Ducting Kit.

**ES190 190 Litre Cylinder**
Suitable for 1-2 people in a small dwelling
Installation - Outside
Outside installations require a concrete pad
Installation - Inside
Inside in a garage with adequate ventilation.
Ideal House - 8 homestar rated

We installed an EcoSpring ES300 in our home which was designed to 8 Homestar rating, as well as being a Positive Energy Passive House. Not only has it contributed to our goal of low energy consumption, but it has also impressed us with its quietness, ease of operation and quick recovery time. We have already recommended it to others and would gladly choose to install one in future projects.

Lee Ann and Murray Durbin, The Ideal House

Endorsed By All Major Plumbing Mechants In New Zealand

When it comes to EcoSpring, it’s a real endorsement when all major plumbing merchants in New Zealand stock our product. They can all supply the product to any location in New Zealand and will recommend a qualified plumber to install your EcoSpring.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>EcoSpring ES190</th>
<th>EcoSpring ES300+</th>
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</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Economy</td>
<td>Hybrid</td>
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<tr>
<td></td>
<td>E-Heater</td>
<td>Heat Pump</td>
</tr>
<tr>
<td></td>
<td>1500W</td>
<td>1500W</td>
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<tr>
<td></td>
<td>2150W</td>
<td>2150W</td>
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<tr>
<td>Heating Capacity</td>
<td>529W/2.3A</td>
<td>1860W/8.1A</td>
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<td>2150W/9.5A</td>
<td>4300W/18.7A</td>
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<td>Rated Input/Current</td>
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