

Specifications	
Heat Pump outdoor unit	WH-70
Power Supply (V/ph/Hz)	220-240/1/50
Power input (W)	1360
Max. rated input current (A)	11
Water production (L/hr) $\Delta T=40$	124
Water circulation pipe connection (inch)	1
Heat exchanger plate type	GEA GHB 400H-26
Circulation pump	Greenpro RS15-6 class A
Refrigerant	R290
Noise (dB)	$\leq 53$
Max. rated water temperature ( $^{\circ}\text{C}$ )	65
Water-proof grade	IPX4
Level against electric shock	1
Operation temp. range ( $^{\circ}\text{C}$ )	-10 to 45
Netto weight (kg)	59
Case	1mm 304 stainless steel
Size (WxDxH) (mm)	1050x350x638

#### Performance

Ambient Temp. Output	COP*	Cylinder Water Temp.	Energy Saving	Heating Output
At 7 / 8 $^{\circ}\text{C}$ (WB/DB)	4	10 to 56 $^{\circ}\text{C}$	75%	5110 W
At 15 / 18 $^{\circ}\text{C}$ (WB/DB)	5	13 to 56 $^{\circ}\text{C}$	80%	6460 W
At 21 / 30 $^{\circ}\text{C}$ (WB/DB)	6.2	15 to 56 $^{\circ}\text{C}$	84%	7870 W

*\*COP (Coefficient of Performance): The COP of heat pumps varies with the ambient temperature. The WH-70 unit has been optimised for New Zealand temperatures and was tested by CVC Testing Technology Ltd. in accordance with AS/NZS 5125.1.2014 (Performance Test).*

#### Calitec Hot Water Cylinders

The WH-70 can be paired with the stainless steel Calitec hot water cylinder, specifically designed for optimal usage, or can be connected to a different heat pump ready hot water cylinder (to be confirmed by plumber).

Our Calitec hot water cylinders, available in 250 or 300 litres, can be installed either indoors or outdoors. Additionally, we offer cylinders equipped with a built-in coil, suitable for wet back installation or as the heating coil should you decide to upgrade to a central heating system. Our Duplex stainless steel hot water cylinders are insulated with Polyurethane Foam and feature a 3 kW electric emergency heater for added peace of mind.

All Calitec systems and cylinders must be installed by qualified installers in accordance with all relevant building codes and local regulations. Check out our Terms & Conditions and Warranty.



For more information, contact us at  
**0800 125 225** or visit **www.calitec.nz**



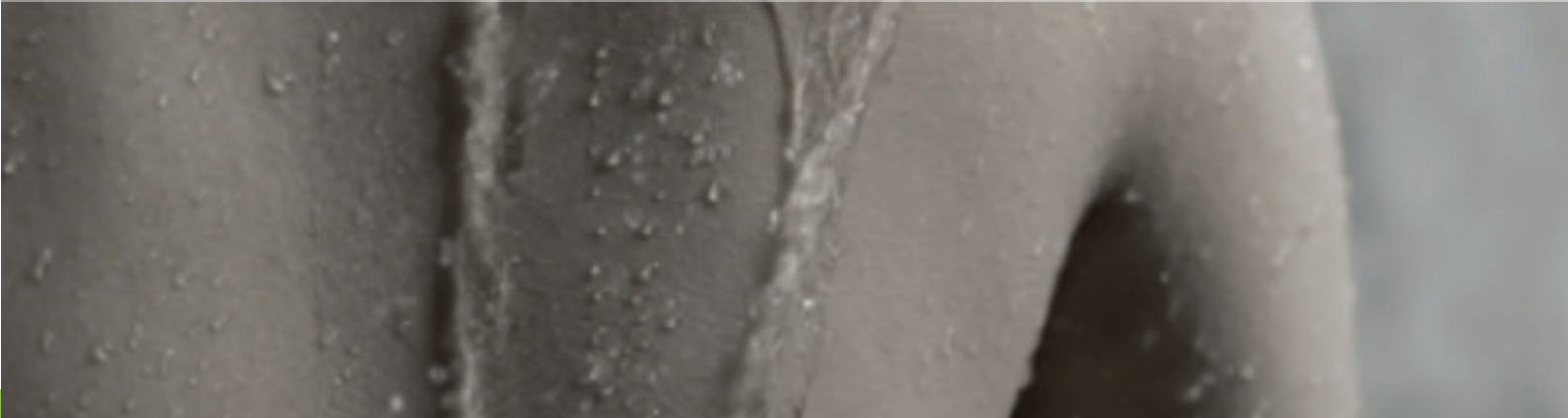
Heat pump technology for  
 energy efficient hot water



Save  
**75% or**  
 more of your  
 hot water  
 bill

## Heat Pump Water Heater WH-70

Energy efficient hot water by water circulation





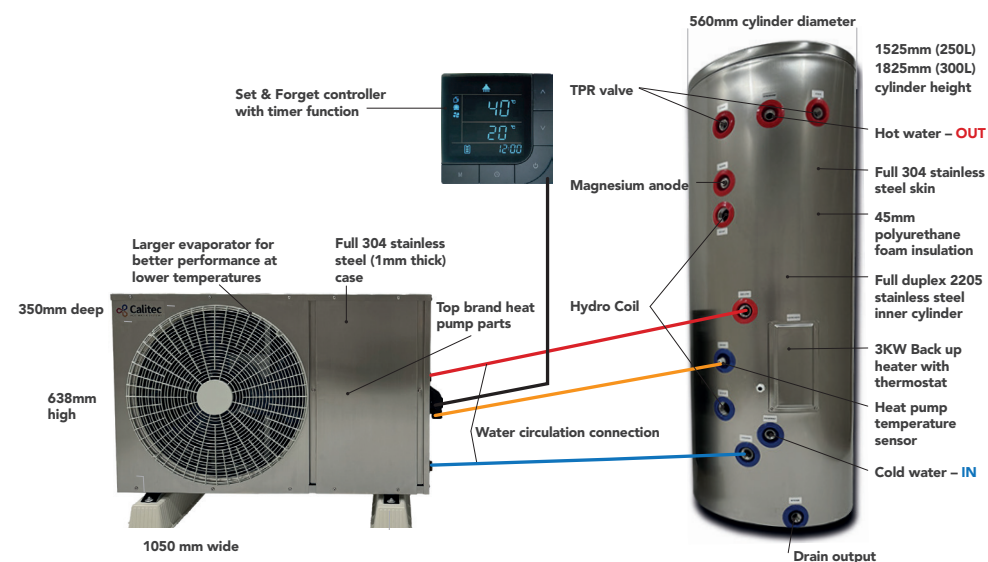
# Heat Pump Water Heater WH-70

*Energy efficient hot water by water circulation*

Designed in New Zealand for family homes, the **Calitec Mono Block WH-70** boasts high heating capacity, resulting in faster recovery times. Made with the best available parts and materials to withstand the harsh NZ environment, this future-proof system utilizes R290 refrigerant and is PV solar smart inverter ready. Plus, it's capable of heating **two separate hot water cylinders!**

## How does it work?

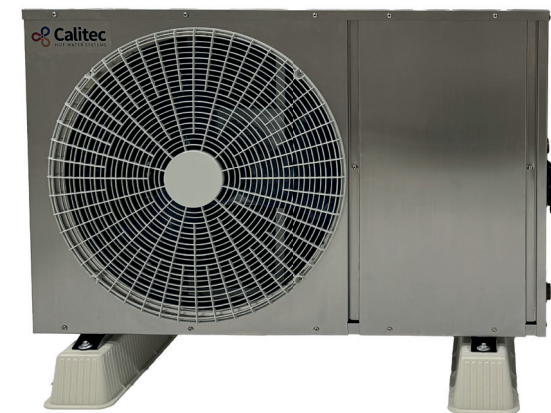
Water is heated inside the mono block and circulated to your hot water cylinder. It works at any time of the day, under all weather conditions. The higher output temperature of the R290 refrigerant ensures fast heating, using just the efficient heat pump energy, even in lower ambient temperatures.



## Enjoy savings

An average shower of about 7 minutes will cost you about \$1 with a standard electric heated hot water cylinder. With our Calitec heat pump mono block, you can bring this down to about 25 cents, saving 75% or more on your hot water heating cost.

*(Based on 40cent/kWh, 40°C mixed water, 71 L water = 7 min. mains pressure shower).*



## Features

**High temperature output:** Due to its high output temperature, the mono block functions as a water circulating system, solely utilizing efficient heat pump power to heat your hot water cylinder to 60°C.

**Fast recovery time:** With an output power of 5.8 kW, it can heat up 124 litres of water per hour ( $\Delta T=40^{\circ}\text{C}$ ). This capacity is twice that of a standard electric heating hot water cylinder.

**COP of 5:** at 18°C ambient temperature: This indicates that you get 5 kW of heating power from just the 1 kW of electric power, resulting in an 80% saving on your water heating costs.

**Longevity and durability:** The stainless steel casing, combined with high-quality parts and materials, ensures durability, making it capable of withstanding the harsh New Zealand environment, even in coastal areas.

**Dual cylinder heating (optional):** The WH-70 can heat a second hot water cylinder, such as for your ensuite or a kitchen under-bench cylinder.

**Third Party/Solar PV/Wi-Fi:** The WH-70 has an online switch contact, allowing a third-party appliance, such as a smart PV inverter, to control the operation of the unit. The WH-70 can also be controlled from your smartphone via an app. Additionally, the controller of the WH-70 features four timer setting options.

**Environmentally friendly:** The R290 refrigerant has a Global Warming Potential of only 3 (compared to 675 for R32, 1430 for R134a, or 2088 for R410a refrigerants). Additionally, it performs better at lower ambient temperatures, significantly reducing energy consumption and your carbon footprint.

## Peace of Mind Warranty

Calitec heat pump units are designed and built using the highest quality parts and are intended to last at least 10-15 years. They are backed by a 5-year warranty on the Mono Block and a 20-year warranty on Calitec hot water cylinders. In the event of any issues that your installer cannot resolve, we provide a replacement unit and facilitate the entire process.