

# Rinnai



**A smarter hot water solution for the homes of tomorrow.**  
HydraHeat® Split Hot Water Heat Pump from Rinnai.

**Introducing the HydraHeat® Split Hot Water Heat Pump** - a versatile solution compatible with both new and existing\* cylinders.

Combining Rinnai's expertise in water heating and heat pump technology, the HydraHeat® Split Hot Water Heat Pump offers a highly efficient way to heat your water. Its **split design** allows flexible installation while maximising performance.

The Rinnai HydraHeat® Split Hot Water Heat Pump utilises thermal stratification within the storage cylinder to ensure rapid hot water delivery from the moment it starts, offering an efficient and practical water heating solution.

### **Upgrade Your Cylinder for a Greener Future**

Easily retrofit your existing hot water cylinder\* into a **sustainable, energy-efficient system**—no full replacement needed, reducing costs and waste.

### **Up to 75% Energy Savings\*\***

Advanced heat pump technology cuts energy use dramatically, delivering long-term savings.

### **Low GWP, High Efficiency**

Using R290, a natural, non-toxic refrigerant with an ultra-low global warming potential compared to traditional options like R32, you can reduce your environmental impact while improving your home's energy efficiency.

Proudly designed and built in New Zealand, the HydraHeat® Split is engineered to withstand Kiwi conditions and ensures a straightforward installation for any type of home environment.

**Discover the future of hot water today.** Visit [rinnai.co.nz](http://rinnai.co.nz) to learn more.



#### **Up to 75% Energy Savings\*\***

Provides highly efficient water heating, minimising energy consumption and lowering operating costs.



#### **High Coefficient of Performance (COP) of 4.6 - providing energy efficiency\*\*\***

By maximising energy output while minimising input, the HydraHeat® Split Hot Water Heat Pump ensures reliable, cost-effective hot water heating, making it an ideal choice for energy-conscious households.



#### **Faster Top-Down Heating**

The HydraHeat® Split system delivers hot water directly to the top of the cylinder from startup, delivering instant hot water right when you need it.



#### **Dedicated to Sustainability**

Uses only 150gm nominal charge of R290 natural refrigerant.



#### **Frost Protection**

Built-in defrost and frost protection functions to handle colder climates.



#### **4 Operation Modes**

Eco 55, Standard, Element Only and Shutdown.



#### **Timer Function**

Allows you to schedule heating cycles to align with your solar PV system's peak generation or off-peak electricity rates. This maximises energy efficiency and cost savings by ensuring your hot water is heated when electricity is most affordable or renewable energy is readily available.



#### **Quiet Operation**

Quiet operation to ensure noise comfort for both you and your surrounding neighbours.



#### **Ease of Installation**

The outdoor compressor unit allows for ambient air to efficiently heat the water and is ideal for homes with inside space restraints.



#### **Split Design - for easy retrofit to your current cylinder\***

Allows you to enhance your current hot water heating solution without the need to replace your current cylinder.



#### **Warranty - 5 Years**

5-year heat pump module warranty.



#### **Modern Design**

Cod Grey colourway for modern aesthetics.

\* Please refer to our cylinder compatibility checklist to find out if your cylinder is compatible with the HydraHeat® Split system.

\*\* When a comparison calculation is made to a 250L standard electric hot water cylinder when heating water from 19°C to 55°C.

\*\*\* Coefficient of Performance was measured at the following conditions: Inlet water temperature 19°C, Outlet Water temperature 55°C, Dry Bulb Temperature 19°C.

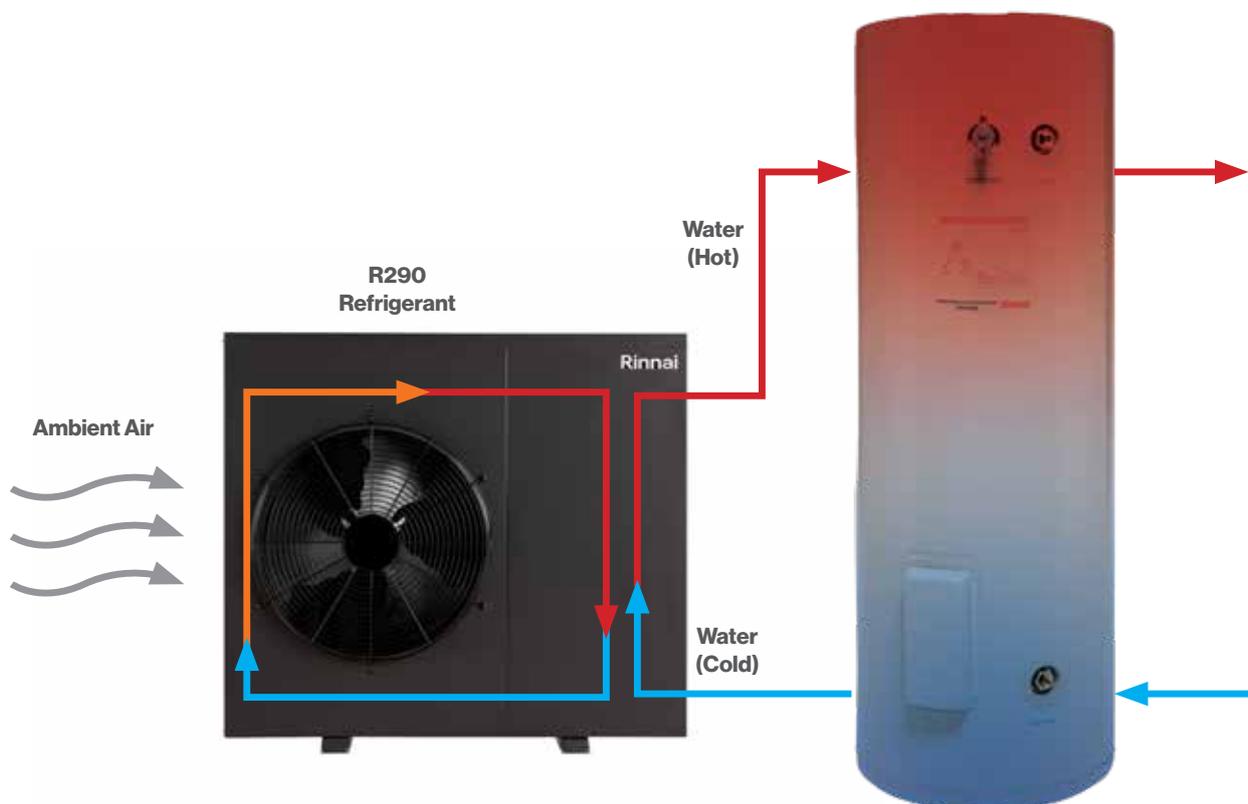
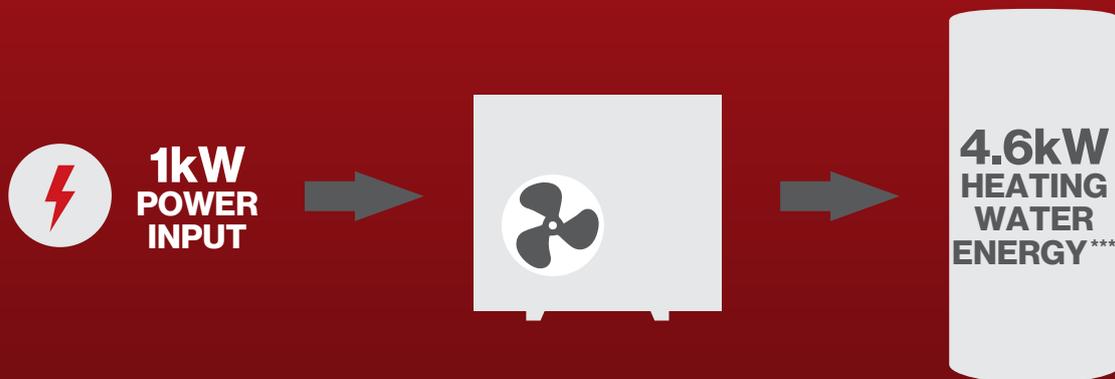
# How It Works

Operating much like a refrigerator in reverse, the HydraHeat<sup>®</sup> Split utilises the surrounding air's ambient temperature and amplifies this energy to heat water at significantly reduced costs and then transfers this hot water into your cylinder.

**Top-Down Heating with Stratification** - Instead of heating the entire volume of water uniformly, the system prioritises heating the top layer of water first. Hot water, being less dense, naturally rises to the top of the storage cylinder and cooler water stays at the bottom, allowing the heat pump to continue heating efficiently.

Because the top portion of the cylinder reaches the set temperature quickly, hot water is available for use sooner — even while the lower layers are still heating.

Thanks to this stratification effect, the HydraHeat<sup>®</sup> Hot Water Heat Pump quickly provides hot water from the top down, ensuring an energy-efficient and reliable option for Kiwi households.



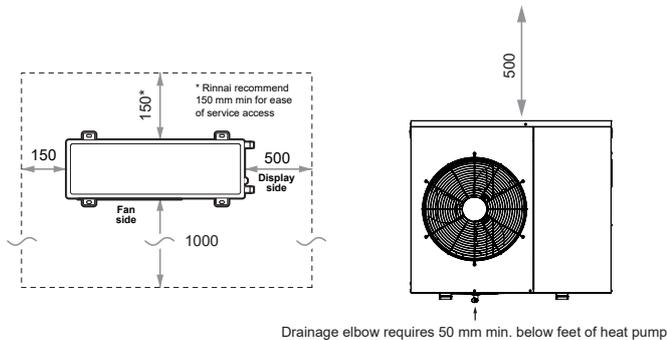
# Technical Information

<b>Construction and colour</b>	Galvanised steel powder coated Cod Grey (Dulux 9157924M)
<b>Ambient temperature operating range (heat pump)</b>	-10 °C to +42 °C
<b>Outlet water temperature</b>	Standard: 60 °C, Eco: 55 °C
<b>Storage capacity</b>	Based on cylinder capacity - 180 litre to 340 litre
<b>Maximum cylinder pressure settings: TPR (required) Cold water expansion valve</b>	Refer to manufacturer's specifications. 700 kPa
<b>Coefficient of performance (COP)**</b>	4.6 (Operating conditions: 19 °C ambient, 19 °C water, eco mode 55)
<b>Rated heat pump input/output<sup>1</sup></b>	765 W / 3600 W
<b>Max. current draw (standard mode heat pump)</b>	4.6 A
<b>Max. allowable resistive connected load</b>	14.5 A
<b>Max. resistance element rating</b>	3000 W
<b>Min. inlet water pressure</b>	100 kPa
<b>Sound pressure level</b>	48 dB(A) <sup>2</sup>
<b>IP Rating</b>	IP24
<b>Water port connections</b>	G1/2" / 15mm x 2
<b>Power supply</b>	230-240 V 50 Hz
<b>Dimensions</b>	Gross: 50 kg 930 wide 400 deep 900 high Net: 42.5kg 835 wide 365 deep 750 high
<b>Heat pump unit data label position</b>	Behind front cover, positioned on panel between compressor and fan
<b>Refrigeration type / mass (g)</b>	R-290 / 150 g

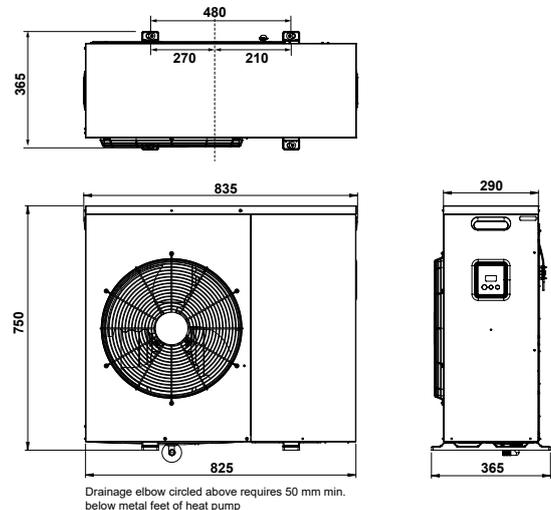
\*\* Coefficient of Performance was measured at the following conditions: Inlet water temperature 19°C, Outlet Water temperature 55°C, Dry Bulb Temperature 19°C.  
<sup>1</sup> In standard and Eco 55 modes, the heat pump provides 100% of the heating within the operating temperature range (excluding the weekly Legionella cycle). Outside these limits the electric element will operate.  
<sup>2</sup> Sound pressure level measured at 1m distance from the water heater in a free field. Appliance operated in standard mode (60 °C) at an ambient temperature of 19 °C.

## Clearances (mm)

Correct location is essential for optimum performance. Allow for unimpeded air flow around the unit to avoid the creation of a microclimate that reduces heat pump performance and efficiency. The unit must be able to eject its cold air into the surrounding environment.



## Dimensions (mm)



View the warranty conditions prior to purchase at [rinnai.co.nz/warranty](http://rinnai.co.nz/warranty)