

# Rinnai



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

The experts in water heaters and heat pumps have combined the technology of both to bring you a very clever solution - a Hot Water Heat Pump called HydraHeat®.

Using the efficiency of heat pump technology, HydraHeat® will heat a home's water while saving you up to 75% on your water heating costs\*. The result is a far more cost-effective and more sustainable solution for the homes of tomorrow.

The HydraHeat® head unit has been designed and built right here in New Zealand for Kiwi conditions, and the whole system is easy to install for any home. It really is the future of hot water. To find out more, go to [rinnai.co.nz](http://rinnai.co.nz)



#### Up to 75% Savings on Hot Water Costs\*

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



#### Dedicated to Sustainability

150g nominal charge of R290 refrigerant with a low global warming potential.



#### Renowned Quality

Crafted with exceptional quality by Rinnai New Zealand, the trusted name in total home living.



#### HydraHeat® Head Unit Designed and Built in NZ

Specifically designed for New Zealand climatic conditions (from -10°C to +42°C), as well as coastal locations. Operates in full heat pump mode right down to -10°C without the need for electric boosting.



#### Reliability

The inbuilt electric element guarantees a consistent and dependable supply of hot water, at all times.



#### Modular 'Heat Pump Ready' Design

Ability to upgrade from a standalone electric cylinder to Heat Pump Technology with the addition of the Heat Pump unit.



#### Easy Servicing

Removable Heat Pump unit allows for easy servicing, and ensures uninterrupted supply of hot water.



#### Frost Protection

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



#### NZ MEPS Compliant Cylinder

MEPS (Minimum Energy Performance Standard) means less heat loss from unit and less energy use, resulting in a more efficient product.



#### Warranties

5-year heat pump module warranty and a 7-year cylinder warranty.



#### User Friendly Control Interface

Features OLED screen and six operating modes for versatility.



#### 6 Operation Modes

Standard, Boost, Eco 55, Eco 50, High Usage, and Element Only.



#### Suitable for Hard or Soft Water Areas

Featuring an enamel cylinder with a magnesium anode for effortless use in both hard and soft water areas.

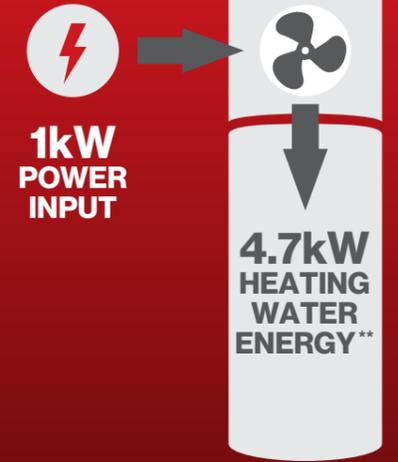


#### Ideal for a Range of Residential Styles

The 275L is suitable for homes of 2-5 people and the 340L is suitable for 2-7 people. Plus an operating sound level of only 45dB(A) makes it suitable for a wide range of homes, including built-up residential areas.

## How It Works

Operating much like a refrigerator in reverse, the HydraHeat® utilises the surrounding air's ambient temperature and amplifies this energy to heat water at significantly reduced costs compared to conventional hot water cylinders.



## Heat Pump Unit

The top unit is the powerhouse using heat pump technology that extracts thermal heat energy from ambient air.

## 275L or 340L Cylinder

The cylinder itself can operate on either electric element or in heat pump mode so you have freedom to choose the best heating option for you.



# Technical Information

RINNAI MODEL		UNIT	RHPN361A275E20	RHPN361A340E20
<b>System</b>				
Storage capacity	Litres		275L	340L
Coefficient of Performance (COP)**	W/W		4.7	
Rated Heat Pump Output <sup>1</sup>	kW		3.72	
Rated Heat Pump Input <sup>1</sup>	kW		0.80	
Hot Water Recovery Rate <sup>2</sup>	L/hr		89	
Element Rating	kW		2	
Operating Temperature	°C		-10 – 42	
Noise Level <sup>3</sup>	dB(A)		45	
Refrigerant Type I Mass	g		R290/150 (nominal charge)	
People per Household			2 to 5	2 to 7
Modes of Operation			Standard, Boost, Eco 55, Eco 50, High Usage, Element Only	
<b>PRODUCT SPECIFICATIONS</b>				
Dimensions – Assembled	Height	mm	1750	1995
	Diameter	mm	692	
Dimensions – Heat Pump	Height	mm	510	
	Weight	kg	36.4	
Dimensions – Cylinder	Height	mm	1275	1520
	Weight - Empty	kg	77	92
	Weight - Full	kg	352	432
	Total weight – Empty	kg	114	128
	Total weight – Full	kg	400	477
Cylinder Construction			Enamel	
<b>Mains Pressure Water Supply &amp; Connections</b>				
Inlet	inch		2x RP 3/4	
Outlet	inch		2x RP 3/4	
Temperature Pressure Relief (TPR) Valve Pressure Rating	KPa		850	
Cold Water Expansion Value Max Pressure Rating	KPa		700	

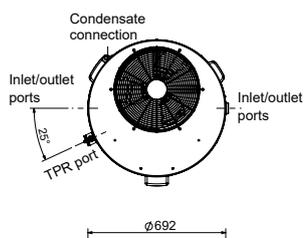
\* When a comparison calculation is made to a 250L standard electric hot water cylinder when heating water from 19°C to 55°C.

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

1. In Standard, Eco 55 and Eco50 modes, the heat pump provides 100% of the heating within the operating temperature range. Outside these limits the electric element will operate.

2. Recovery rate calculated In Eco 55 mode, 19°C ambient air temperature, 19°C inlet water temperature, 36°C temperature rise.

3. Sound pressure level (SPL) measured at 1 metre distance from the water heater in a free field. Appliance operated in standard mode (60°C) at an ambient temperature of 19°C.



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

