

# Rinnai



## Enviroflo

Energy Efficient Heat Pumps

# Enviroflo Heat Pump

Designed and manufactured in Australia, the Rinnai Enviroflo range of Electric Integrated Heat Pump hot water systems deliver a comprehensive set of installation configurations perfect for the various site specific requirements around the country. They are available in a range of capacity sizes, and can be equipped with magnesium or hard water anodes to further customise their capabilities to suit the application.

A standard feature of the Rinnai Enviroflo is the single element boost, that allows the product to be used in high demand applications or even cold ambient conditions, meaning you will enjoy always hot water all year round.

Built locally to withstand the tough Australian conditions, these tanks have been designed and tested to operate with water pressures up to 1000kPa, much higher than normal. Best of all, they are lighter in weight to aid quick and safe installation whilst having a minimal impact on the environment.





## **At Rinnai, we're all about comfort**

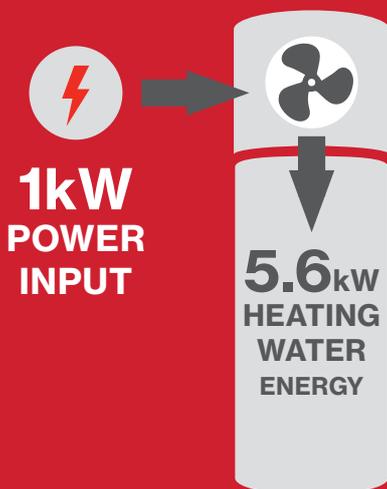
For over 50 years, Rinnai has supplied Australian homes with a range of appliances that help people lead comfortable, safe and efficient lifestyles.

Being driven to create comfort means that we really care about our products and your experience from start to finish. We're focused on developing products with the latest technology and our level of quality is second-to-none, so you can rest assured knowing Rinnai will deliver.

# Features and Benefits



\*Estimation based on EHPA250VMA STC's in Zone 3 under medium load, obtained from independent laboratory test results and followed by TRNSYS modelling and a retail electricity cost of \$0.30c per kWh.



At 20°C ambient temperature, water heated from 15-55°C



## Energy Efficient

Innovative controller to maximise hot water availability while using up to 75% less energy\*, compared to a standard electric storage tank.



## Environmentally Focused

Just 270g charge of high efficiency R290 refrigerant with a low Global Warming Potential of just 0.02.



## Versatile

Multiple operating modes (Max/Mid/Eco) Adaptable.



## Convenient Wi-Fi Timer

Wi-Fi timer function to optimise running costs, on selected models.



## Choice

Available in 250L and 315L sizes to suit your hot water needs.



## Adaptable for All Climates

Can be installed anywhere in Australia. Ambient air conditions ranging from -5 to 50°C.



## Renowned Quality

Australian designed and built with a high level of product quality.



## Defrost Control

Built in anti-frost function to protect the evaporator in colder climates.



## Reliable

Inbuilt electric element to ensure you always have a reliable supply of hot water.



## Quiet Operations

Quiet operation with integrated low noise design.



## Confidence

Auto disinfection preventing the potential growth of legionella.



## Automated

Auto restart function - in the event of a power outage it will automatically restart once the power is re-instated.

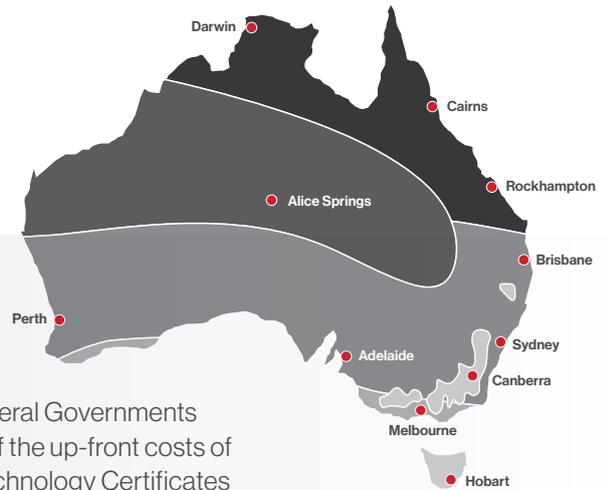


## Tough

1000 kPa maximum water pressure rating.

\* Energy saving of up to 75% based on a Rinnai Enviroflo 250ltr/315ltr Heat Pump when compared to a standard electric water heater of the same capacity during peak winter load in Zone 1 based on AS/NZS4234. Savings will vary depending upon your location (Zone 1-5), type of water heater being replaced, hot water consumption and associated fuel tariffs.

# Government Grants



## Federal Small-Scale Technology Certificate (STC's)

Enviroflo's innovative design allows it to be eligible for Grants through the Federal Governments Small-scale Renewable Energy Scheme, generously covering a proportion of the up-front costs of purchasing and installing the system. These grants are called Small-scale Technology Certificates (STC's) and are offered based on how sustainable a hot water system is. Your STC rebate value will depend on your installation location, see the map above for your geographic Zone locations.

Certified System Code	STCs from Jan 1 <sup>st</sup> 2022 to Dec 31 <sup>st</sup> 2022					STCs from Jan 1 <sup>st</sup> 2023 to Dec 31 <sup>st</sup> 2023				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
<b>Heat Pump</b>										
EHPA250VMAW	23	22	24	28	24	20	20	24	25	24
EHPA315VMAW	23	21	24	27	23	20	19	24	24	23
EHPA250VMAWH	23	22	24	28	24	20	20	24	25	24
EHPA315VMAWH	23	21	24	27	23	20	19	24	24	23

## State Grants

### Victoria

For Victorian consumers there are additional rebates available for replacing inefficient hot water systems with Heat Pumps. Victorian Energy Efficiency Certificates (VEECs) are offered for eligible installations on top of the Federal STC grants - making the conversion to a Rinnai Enviroflo Heat pump the obvious low-cost choice.

### New South Wales

For New South Wales consumers there are additional rebates available for replacing inefficient hot water systems with Heat Pumps. Energy Savings Certificates (ESCs) are offered for eligible installations on top of the Federal STC grants - making the conversion to a Rinnai Enviroflo Heat pump the obvious low-cost choice.

\*The value of STCs and State Grants are a tradable, market driven commodity. Values are subject to daily variation and are valid as of 01/01/2023

# How it works



Using advanced refrigeration technology, the Rinnai Enviroflo Electric Heat Pump naturally moves thermal heat energy and transfers it to the stored water. The higher the ambient air temperature, higher the system efficiency, this is also known as Coefficient of Performance – COP.

## 1. Compressor

The compressor is the central hub of the heating cycle which distributes the refrigerant between two heat exchange coils to facilitate efficient heat transfer.

## 2. Dual Protection Heat Exchanger

The highly efficient design of the heat exchanger safely transfers thermal heat from the refrigerant to the stored hot water.

## 3. Intelligent Controller

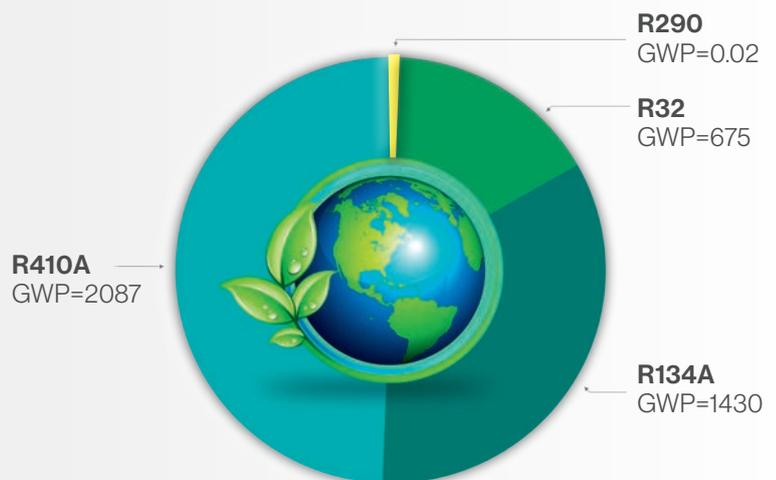
Locally design and manufactured, this clever controller continually monitors and adjust system parameters ensuring optimum performance and system reliability.

## 4. Integrated DC Fan and Evaporator

40% more efficient and smaller than conventional AC fans when coupled with our in-house evaporator means reduced materials during construct and a lighter assembled weight.

## 5. R290 Refrigerant

This sustainable and non-toxic refrigerant has a zero Ozone Depletion Potential (ODP) and a Global Warming Potential (GWP) of just 0.02, which is 50 times less than CO2. As such, it easily outperforms other heat pumps that typically use Refrigerants with high GWP values.



# Warranty

		Cylinder*	Refrigeration Components <sup>(1)</sup>	Other Components <sup>(2)</sup>
Domestic Use	Parts	7 Years	3 Years	1 Year
	Labour	3 Years		
Commercial Use	Parts	1 Year	1 Year	
	Labour			

(1) Refrigeration Components include but are not limited to: compressor, condenser, expansion valve, heat exchanger, evaporator and associated pipe work.

(2) Other Components include but are not limited to: sensors, thermostats, valves, electric heating elements, anodes.

\* Inner Storage Cylinder

## We're at your service

The National Customer Care Centre provides first class service and maintenance of your system, ensuring it's running at its highest efficiency - so you can enjoy the Rinnai experience for many years to come.

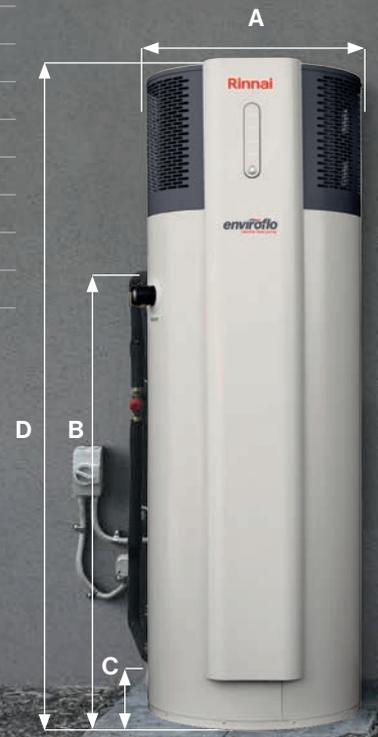
Operating 5 days a week (Monday to Friday)

**1300 555 545**

# Technical Information

Model	Description	A Diameter (mm)	B Hot Outlet (mm)	C Cold Inlet (mm)	D Height (mm)	Empty Weight (Kgs)	Sizing Guide
EHPA250VMAW	250L Enviroflo	627	1215	90	1847	123	 Up to 5 People   2 Bathrooms   4 Bedrooms
EHPA250VMAWH	250L Enviroflo (hard water)						
EHPA315VMAW	315L Enviroflo	627	1430	90	2134	138	 Up to 6 People   3 Bathrooms   5 Bedrooms
EHPA315VMAWH	315L Enviroflo (hard water)						

Technical Information		Value
Noise		48 dB(A)
Ambient Temperature Limits (for heat pump operation - element will operate beyond these limits)		-1°C - 45°C
Ingress Protection		IP24
Storage Cylinder - Hot Outlet and Cold inlet Connections		ISO 71 ¾" RP
Storage Cylinder - PTR Valve Connection		ISO 71 ¾" RP
PTR Setting		1000 kPa / 10 kW
ECV Fitted	Fit PLV if mains pressure exceeds	680 kPa
	Recommended PLV pressure rating	500 kPa
ECV Not Fitted	Fit PLV if mains pressure exceeds	800 kPa
	Recommended PLV pressure rating	500 kPa
Rated Input Electric Element (Factory Wired)		2.4 kW
Rated Input Refrigeration Module (Factory Wired)		1.0 kW
Total Rated Input (To be wired by installer)		3.4 kW
Maximum Energy Output		4.29 kW
Power Supply		240 V AC, 50Hz
Current		15 A
Refrigerant Type / Mass		R290 / 270g
COP (32.6°C Ambient 21.1°C cold water inlet)		7.22
Heat Pump heating capacity (32.6°C Ambient 21.1°C cold water inlet)		5.2 kW



**Rinnai Australia Pty Ltd**

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For further information  
call 1300 555 545 or visit  
[rinnai.com.au](http://rinnai.com.au)

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HOT WATER



HEATING



COOLING

**Rinnai**