

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 outlast 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.

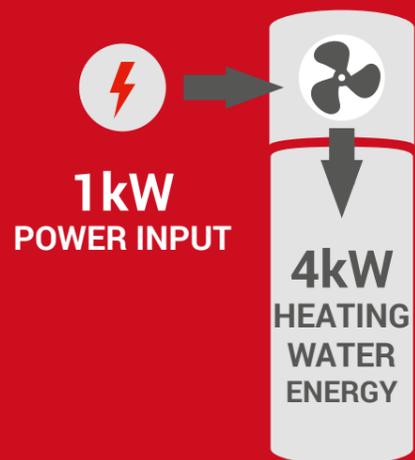
Features and Benefits

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)

13 43 73



Efficient

Innovative control system to maximise hot water availability while using up to 65% less energy.



Environmental

R290 refrigerant used with a minimal charge of just 300 grams and low environmental impact.



Choice

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



Adaptable

Can be installed anywhere in Australia. Ambient air conditions ranging from -5° to 45°C.



Quality

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



Defrost Control

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



Warranty

5 year cylinder warranty and 3 years compressor warranty.



Reliable

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



Quiet

Quiet operation due to design



Confidence

Auto disinfection preventing the potential growth of legionella.



Tough

1000 kPa maximum water pressure rating.



Automated

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

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.

Tank size	Zone 1		Zone 2		Zone 3		Zone 4		Zone 5	
	STCs	Rebate value based on \$38* per STC	STCs	Rebate value based on \$38* per STC	STCs	Rebate value based on \$38* per STC	STCs	Rebate value based on \$38* per STC	STCs	Rebate value based on \$38* per STC
Enviroflo 250L	23	\$874	23	\$874	28	\$1064	29	\$1102	29	\$1102
Enviroflo 315L	23	\$874	22	\$836	27	\$1026	29	\$1102	28	\$1064

State Grants

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.

Tank size	How Water Delivery	% Solar Savings	VEECs Replacing Electric Tanks - Metro	Estimated grant based on 1 VEEC = \$24*	VEECs Replacing Electric Tanks - Regional	Estimated grant based on 1 VEEC = \$24*
Enviroflo 250L	Medium load	64%	28	\$672	30	\$720
Enviroflo 315L	Medium load	63%	27	\$648	29	\$696

*The value of STCs and VEECs is a tradable, market driven commodity. The values are subject to daily variation.

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 3. As such, it easily outperforms other heat pumps that typically use R134a refrigerant which has a very high GWP of 1430.



Technical Information

Hot water operating cost comparison

Compared to conventional electric hot water products the Rinnai Enviroflo annual savings are up to 65%. When you consider the addition of government rebate incentives, eco-efficiency and low installation cost, the Rinnai Enviroflo is the perfect choice for new and retrofit applications. Weighing up all these benefits makes the Rinnai Enviroflo the hot water storage tank of choice.

Hot Water System	Annual Energy Cost			
Household numbers	1 Person (60L per day)*	2 People (90L per day)*	3 People (120L per day)*	4 People (150L per day)*
Electric Heat Pumps	\$235	\$310	\$385	\$490
Standard Electric Tanks	\$555	\$740	\$925	\$1115

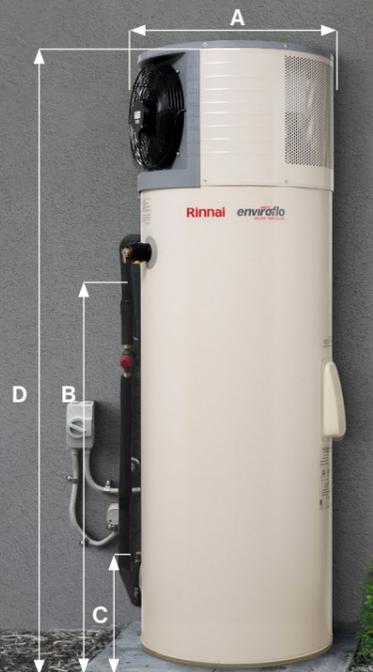
* The above annual energy costs are taken from Sustainability Victoria. Refer to: www.sustainability.vic.gov.au/You-and-your-home/Save-energy/hot-water/hot-water-running-costs for calculation methodology and more information.

Specifications

Model	Description	A Diameter (mm)	B Hot Outlet (mm)	C Cold Inlet (mm)	D Height (mm)	Empty Weight (Kgs)	Sizing Guide
EHPA250VM	250L Enviroflo	611	1248	210	1872	112	Up to 5 People 2 Bathrooms 4 Bedrooms
EHPA250VMH	250L Enviroflo (hard water)						
EHPA315VM	315L Enviroflo	611	1541	210	2165	132	Up to 6 People 3 Bathrooms 5 Bedrooms
EHPA315VMH	315L Enviroflo (hard water)						

Technical Information

Ambient operating temperatures (°C)	-5° C to 50° C
Ambient Heat Pump operating temperatures (°C)	-1° C to 45° C
Outlet Water temperature (°C)	60° C
Hot water storage capacity (L)	250 / 315
PTR Setting (kPa)	1000
Max water supply pressure without ECV (kPa)	800
COP (Seasonal average)	4.0
Heat Pump Max input (kW)	1.0
Heat Pump heating capacity (kW)	3.5
Refrigeration type / Mass (gms)	R290/300
Back-up Element Heat input (kW)	2.4
Max Heat Capacity (kW)	3.5
Max Input (kW)	2.4
Current (A)	15
Net Empty Weight (250L/315L kgs)	112/132



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TOTAL HOME COMFORT



HOT WATER



HEATING



COOLING

Rinnai