Rinnai

Enviroflo
Hot Water Heat Pump

GR Series

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The Rinnai Enviroflo GR Series Electric Integrated Hot Water Heat Pump systems are your reliable choice for efficient hot water. Designed to meet a variety of installation needs across New Zealand, the GR Series offers capacities of 215L, 265L and 280L, making it suitable for diverse site requirements.

Featuring as standard a single element boost, you can enjoy hot water comfort, anytime. The GR Series is Solar PV compatible, allowing for integration with solar energy systems to enhance efficiency.

Built to withstand New Zealand's unique climate, these systems operate effectively under water pressures up to 1000kPa, ensuring durability and dependable performance. Plus, they utilise R290, an environmentally friendly refrigerant, making them a sustainable choice for your hot water needs.

Available in 215L, 265L and 280L capacities

Designed to operate quietly

Built in Wi-Fi for convenient control

Can be networked with solar PV*

* When used with third-party interface.

GR Series Features and Benefits

Choice
Available in capacities of 215L, 265L and 280L to suit your hot water needs.

Quiet Operation
Operates quietly at a low 46dB(A), quieter than the average noise level of a household dishwasher.

Built in Wi-Fi
The built in Wi-Fi module allows for convenient control from anywhere.

Solar PV Compatible*
Can be networked with Solar PV for enhanced efficiency and savings.

Energy Efficient
With a high Coefficent of Performance (COP) of 4.0**, it delivers reliable and cost-effective hot water heating by maximising energy efficiency when compared to standard electric cylinders.*

Environmentally Focused
High efficiency R290 refrigerant with a low Global Warming Potential of just 3.

Versatile
Multiple operating modes (Standard/ECO/Hybrid/ Electric/Vacation).

Adaptable for All Climates
Operates in ambient air conditions ranging from -7°C to 45°C.

Renowned Quality
Designed and built with a high level of product quality, backed by over 50 years of Rinnai's excellence in hot water.

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.

Auto Disinfection
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.

Off-Peak Compatible
Option to run only at off-peak times, when the electricity cost is lower.

* When used with third-party interface.
** Performance estimated according to AS/NZS 5125:2014. 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 Our Enviroflo GR Series Hot Water Heat Pumps Work

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

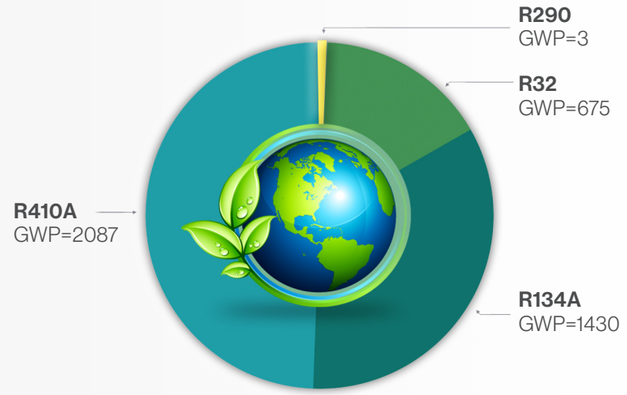
1. Compressor
The compressor is the central hub of the heating cycle which distributes the refrigerant between two heat exchange coils to facilitate efficient heat transfer.

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
This clever controller continually monitors and adjusts 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 hot water heat pumps that typically use refrigerants with high GWP values.



Warranty

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

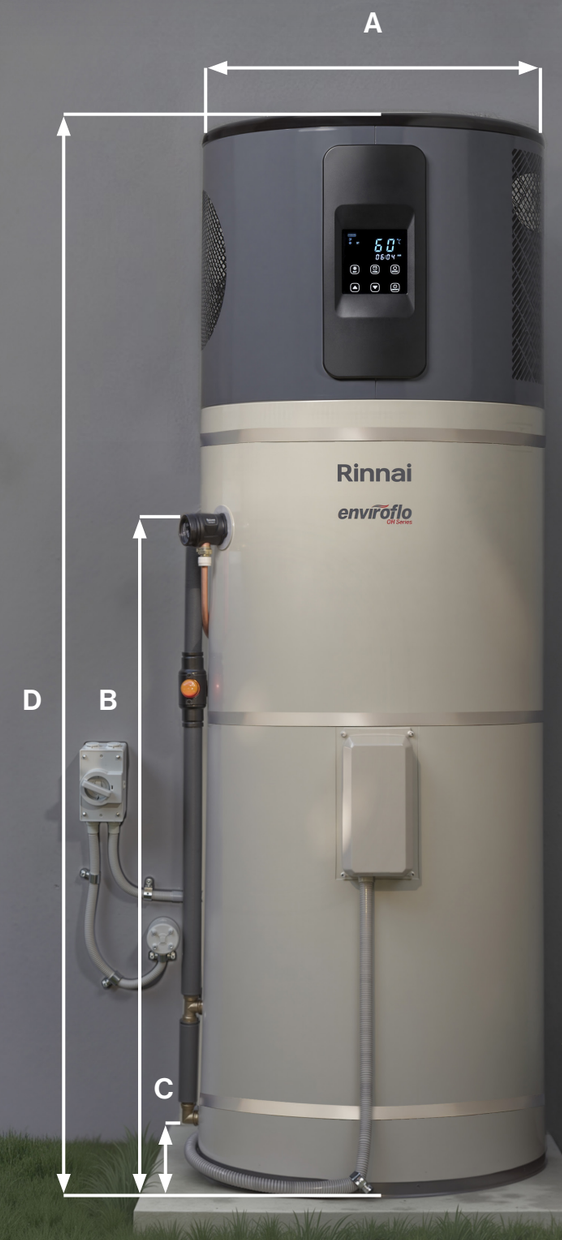
(1) Refrigeration components include but are not limited to: compressor, condenser, expansion valve, heat exchanger, evaporator and associated pipe work.
(2) Other components include but are not limited to: sensors, thermostats, valves, electric heating elements, anodes.
* Inner Storage Cylinder

GR Series Technical Information

Model	Description	A Diameter (mm)	B Hot Outlet (mm)	C Cold Inlet (mm)	D Height (mm)	Empty Weight (Kgs)	Sizing Guide
EHPG215VM	215L Enviroflo GR Series Hot Water Heat Pump	640	1227	129	1875	109	2-4 Person Household
EHP265VM10	265L Enviroflo GR Series Hot Water Heat Pump	640	1210	112	1933	118	2-5 Person Household
EHPG280VM	280L Enviroflo GR Series Hot Water Heat Pump	640	1322	112	2055	124	2-5 Person Household

Technical Information	EHPG215VM	EHPG265VM10	EHPG280VM
Net Weight/Filled Weight (kg)	109/324	118/383	120/400
Tank Volume (L)	215	265	280
Sound Level	46 dB(A)		
Ambient Temperature Limits (for heat pump operation - element will operate beyond these limits) (°C)	-7°C to 45°C		
Ingress Protection	IP24		
Storage Cylinder - Hot Outlet and Cold Inlet Connections	ISO 7.1¾" RP		
Storage Cylinder - TPR valve connection	ISO 7.1½" RP		
Pressure and Temperature Relief (TPR) supplied valve settings/ratings	1000 kPa / 10kW		
Pressure limiting valve	500 kPa approx.		
Cold water pressure expansion valve	700 kPa approx		
Refrigerant Type / Mass	2.4kW	1.0kW	2.4kW
Rated Input Electric Element (Factory Wired)	2.4kW		
Rated Input Refrigeration Module (Factory Wired)	1.1kW		
Total Rated Input (To be wired by installer)	3.3kW	2.1kW	3.3kW
Maximum Energy Output (Use to size PTR)	7.0kW	5.6kW	7.0kW
Power Supply	220-240V AC/50 Hz		
Rated Current	13.5 Amps (15 Amps plug fitted)	9.2 Amps (10 Amps plug fitted)	13.5 Amps (15 Amps plug fitted)
Refrigerant Circuit Maximum Pressure	3091 kPa		
Coefficient Of Performance (COP)* (19°C ambient 19 °C inlet water 55 °C outlet water temp)	4.0	4.1	
Heat Output (19°C ambient 19 °C inlet water 55 °C outlet water temp)	2.00 kW	2.75 kW	
Package Size	725x725x2055	725x725x2113	725x725x2155

Note: Enviroflo GR Series Heat Pump is supplied with a 10 or 15 amp plug, or can be hard wired.
*Performance when tested to AS/NZS 5125:2014.



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Rinnai is constantly improving its products, and as such, information and specifications are subject to change without notice. For the most up-to-date information, go to **rinnai.co.nz**

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