

Rinnai



Enviroflo S

7kW Split Hot Water Heat Pump



Rinnai's Enviroflo S Split Hot Water Heat Pump

The Rinnai Enviroflo S Split Hot Water Heat Pump offers efficient and reliable hot water solutions for Kiwi homes and light commercial installations. Available in 250L, 315L and 400L capacities, it caters to various hot water demands. With a powerful 7.0kW heat pump, it ensures consistent hot water supply even during peak usage or colder weather conditions.

Utilising advanced heat pump technology, the Enviroflo S delivers high energy efficiency, reducing electricity consumption and lowering energy bills. Designed for residential and light commercial applications, the system operates quietly, ensuring minimal noise disruption. Built to withstand New Zealand's climate conditions, the Enviroflo S Split Hot Water Heat Pump is constructed with high-quality materials to ensure long-lasting performance.

The split system design separates the heat pump from the storage tank, allowing for flexible installation options, accommodating various site requirements and configurations, and simplifies maintenance. The system uses R290, a sustainable refrigerant, with low GWP (Global Warming Potential) aligning with environmental standards and reducing greenhouse gas emissions. Capable of handling water pressures up to 1000kPa, it ensures robust performance across different water supply systems.

The Enviroflo S Split Hot Water Heat Pump is an ideal choice for homeowners and light commercial businesses seeking a reliable, energy-efficient, and environmentally sustainable hot water solution.



Energy efficient



Environmentally sustainable with natural R290 refrigerant



Cylinders available in 250L, 315L and 400L capacities



Quiet operation down to 45dB(A)





Features and Benefits

Design & Installation



Multiple Capacities

Cylinders available in 250L, 315L and 400L capacities to suit your hot water needs.



Quiet Operation

Operates quietly down to a low 45dB(A), quieter than the average noise level of a household dishwasher.

Performance & Efficiency



Energy Efficient

Uses less energy to heat your water than a standard electric storage tank.



Reliable

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



Versatile

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



Off-Peak Compatible

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

Sustainability



Environmentally Sustainable

High efficiency R290 refrigerant with a low GWP of just 3.



PV Compatible

Can be networked with solar PV for enhanced efficiency and savings.

Technology & Control



Built in Wi-Fi

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



Auto Disinfection

Auto disinfection preventing the potential growth of legionella.



Automated

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

Climate Readiness



Adaptable for All Climates

Operates in ambient air conditions ranging from -10°C to 45°C.



Defrost Control

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

Technical Information

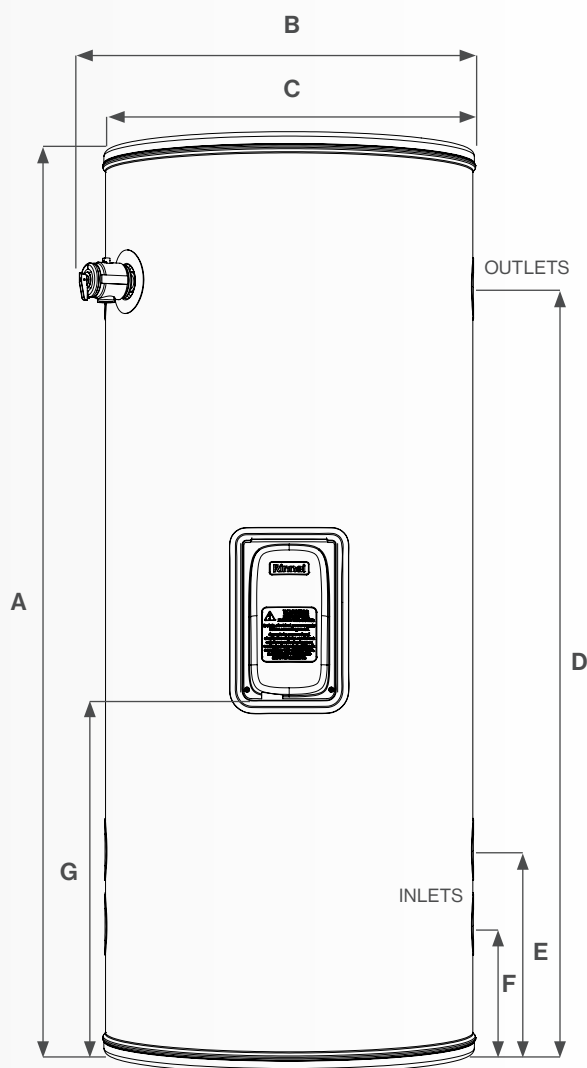
System Code	Volume	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Sizing Guide
KSHP250M24L70	250L	1477	674	605	1248	332	210	593	 Up to 5 People
KSHP315M24L70	315L	1770	674	605	1541	332	210	754	 Up to 6 People
KSHP400M24L70	400L	1840	744	675	1587	359	237	793	 Up to 8 People

Tank Specifications

System Code	KSHP250M24L70	KSHP315M24L70	KSHP400M24L70
Storage Capacities	250L	315L	400L
Element	2.4kW		
PTR Valve	1000 kPa		
ECV	850 kPa		
Max Inlet Pressure with ECV	680 kPa		
PLV with ECV	500 kPa		
Max Inlet Pressure without ECV	800 kPa		
PLV without ECV	500 kPa		
IP Rating	IPX4		
Tank Colour	Dune		
Water Connection	Rp 3/4 (20mm)		

Heat Pump Specifications

Model	Enviroflo S 7kW Split Electric Heat Pump
Heating Capacity (Heating capacity at 32.6°C ambient / 21.1°C cold water inlet)	7.0kW
Operating Ambient Range	-10 to 45 °C
Refrigerant	R290
Sound Level	45-52 dB(A)
PTR Valve Setting	1000kPa
Height	690mm
Width	1047mm
Depth	375mm
Weight	66kg
IP Rating	IPX4
Heat Output (19°C Ambient, 19°C Inlet Water, 55°C Outlet Water Temperature)	5.35kW
Coefficient Of Performance (COP) (19°C Ambient, 19°C Inlet Water, 55°C Outlet Water Temperature)	4.37



How Our Split Hot Water Heat Pumps Work



The Rinnai Enviroflo S uses advanced heat pump technology to heat your water using energy from the air, not direct electricity. This makes it a highly efficient, low-emission solution for everyday hot water use.

Here's how the system works:

1. Air is Drawn In

A quiet efficient DC fan draws in ambient air across the evaporator coil in the external compressor unit. Even in cool conditions, the system can extract usable heat from the air.

2. Heat is Captured

The evaporator transfers thermal energy from the air into the refrigerant, which turns into a warm gas as it absorbs heat.

3. Compressor Boosts the Heat

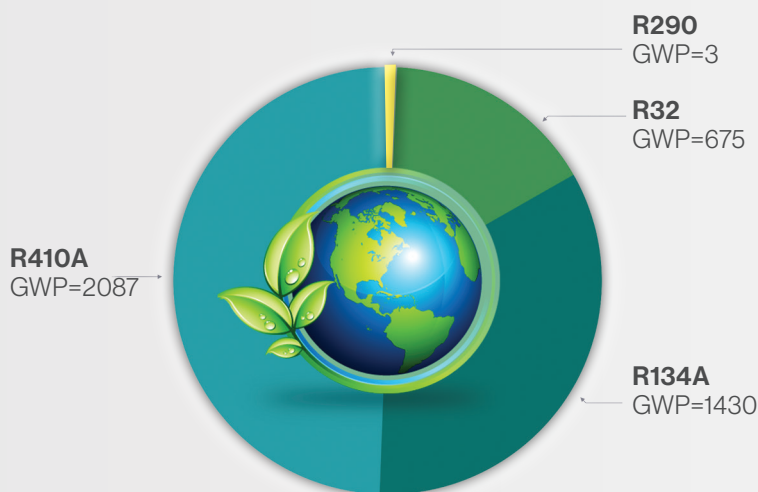
The refrigerant gas is compressed, rapidly increasing its temperature. This is the core of the heating cycle, converting low-level heat into usable energy.

4. Transfers Heat to the Water

The hot refrigerant flows through a double wall heat exchanger located inside the heat pump, where it safely transfers its heat to the water.

R290 Refrigerant

This sustainable and non-toxic refrigerant has a zero Ozone Depletion Potential (ODP) and a GWP of just 3. As such, it easily outperforms other heat pumps that typically use refrigerants with high GWP values.



Warranty

		Cylinder*	Compressor *	Parts *
Domestic Use	Parts	10 Years	5 Years	1Year
	Labour	5 Years	5 Years	
Commercial Use	Parts	1 Year	1 Year	
	Labour			

*For full details visit www.rinnai.co.nz