Hot Water Heat Pump

All-In-One Select

Built-in Wi-Fi Control

R290 Low GWP 3

5 year
tank warranty
5 year parts
2 years labour

220 Litre

270 Litre

R290: With a low GWP of 3 and excellent thermodynamic properties, R290 delivers superior performance and better efficiency.

Built-in Wi-Fi: Customers will benefit from convenient smart control for increased savings.

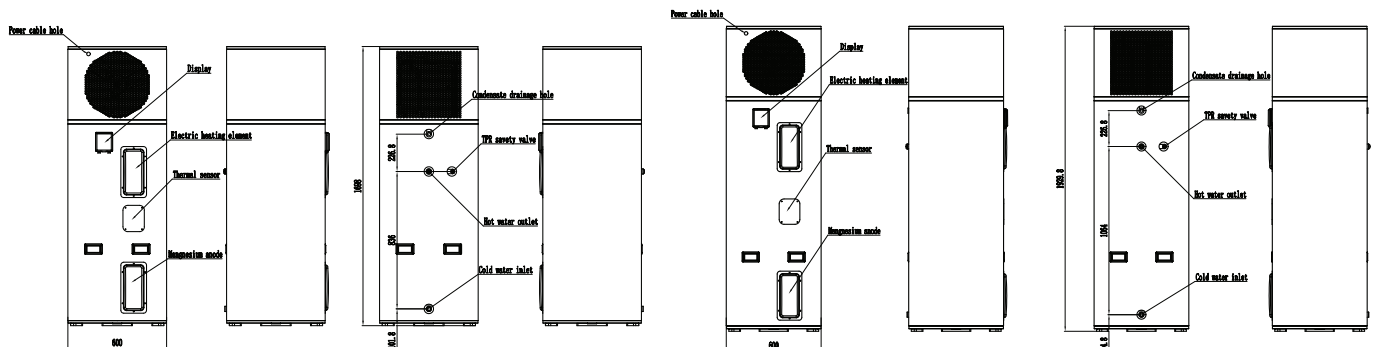**Emerald Network:** Monitor all your heat pump installs remotely in real time.

Solar Soaker: Use surplus solar to operate the heat pump and generate free hot water with the Electricity Advisor Wi-Fi pack.

Boost mode: Quickly raise water temperature while maintaining low noise levels.

Generous government rebates: Leading energy-efficient technology for maximum rebates from schemes including VEU, ESS, REPS and CER.

Designed by Emerald, proudly Australian since 2006, this All-In-One Heat Pump packs efficiency, reliability, and smart Wi-Fi control into one powerful system.

Ideal for residential use it delivers peak performance in any setting. Optionally, it can include a built-in electric heater to boost hot water supply. Connect to the Emerald App via Wi-Fi for convenient smart control via mobile phone.

HPA1-S220 & HPA1-S220E
(The electric heating element is not included in EHPA1-S220)

HPA1-S270 & HPA1-S270E
(The electric heating element is not included in HPA1-S270)

Specifications

Emerald model (residential)		HPA1-S220E	HPA1-S220	HPA1-S270E	HPA1-S270
Power supply		220V~240V/50HZ/1Phase			
Water tank volume		220L	220L	270L	270L
Optional running modes		Standard / Boost / E-Heater	Standard / Boost / E-Heater	Standard / Boost / E-Heater	Standard / Boost / E-Heater
Electric heating element		1kW	N/A	1kW	N/A
Heating capacity	Standard mode (Heat pump only)	2.8kW	2.8kW	2.8kW	2.8kW
Rated input power		0.68kW	0.68kW	0.63kW	0.63kW
COP		4.19	4.19	4.41	4.41
Recharge rate		58L/h	58L/h	58L/h	58L/h
Noise level		50dBA	50dBA	50dBA	50dBA
Heating capacity	Boost mode (Heat pump+Electric heater)	3.8kW	2.8kW	3.8kW	2.8kW
Rated input power		1.68kW	0.68kW	1.63kW	0.63kW
COP		4.19	4.19	4.41	4.41
Recharge rate		80L/h	58L/h	80L/h	58L/h
Noise level		50dBA	50dBA	50dBA	50dBA
Heating capacity	E-Heater mode (Electric heater only)	1.0kW	N/A	1.0kW	N/A
Rated input power		1.0kW	N/A	1.0kW	N/A
COP		N/A	N/A	N/A	N/A
Recharge rate		21.6L/h	N/A	21.6L/h	N/A
Noise level		0dBA	N/A	0dBA	N/A
Max current (under boost mode)		8.7A	4.4A	8.8A	4.4A
Refrigerant		R290 (350g)		R290 (450g)	
Compressor		GMCC (Toshiba JV) / Non-Inverter/ Rotary	GMCC (Toshiba JV) / Non-Inverter/ Rotary	GMCC (Toshiba JV) / Non-Inverter/ Rotary	GMCC (Toshiba JV) / Non-Inverter/ Rotary
Fan motor		Non-DC Inverter			
Inner tank		Enamel / 2.5mm tank wall / 3.0mm dome			
Inner tank diameter		φ540mm			
Tank insulation		Polyurethane / 35mm-157mm			
Inner tank design		Concave			
Fan type		Axial			
Expansion valve		EEV			
Defrost		4-way valve			
Emerald APP		Available			
TPR valve		850kPa			
Rated outlet water temperature		60°C			
Max outlet water temperature (heat pump)		70°C			
Working range with element		-15°C-43°C			
Working range without element		-7°C-43°C			
IP class		IPX4			
Electric shock proof		I			
Unpacked dimension		600mm*600mm*1598mm	600mm*600mm*1598mm	600mm*600mm*1820mm	600mm*600mm*1820mm
Packed dimension (outdoor unit)		640mm*680mm*1720mm	640mm*680mm*1720mm	640mm*680mm*1940mm	640mm*680mm*1940mm
Unpacked weight		118kg	118kg	132kg	132kg
Gross weight (outdoor unit)		126kg	126kg	141kg	141kg

**As per the AS/NZS 4234 modeling Standards the modes (Silent, Booster, E-Heater) are one-shot functions that will reset to Standard mode.
*Above test results are given based on the test condition ambient 20°C/15°C, Water from 15°C~55°C.
*Sound tested at 1m distance in a hemi-anechoic chamber.

The information contained within this brochure is accurate as of the time of publish. Please note that the Emerald app undergoes regular updates to enhance functionality and introduce new features, which may result in changes to the details provided herein.

2025.04