

Hot Water Heat Pump

All-In-One Pro



Premium DC technology: Efficient, reliable, and quieter performance.

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

Built-in Wi-Fi: Enables convenient smart control for improved efficiency and savings.

Emerald Network: Monitor all your heat pump installs remotely.

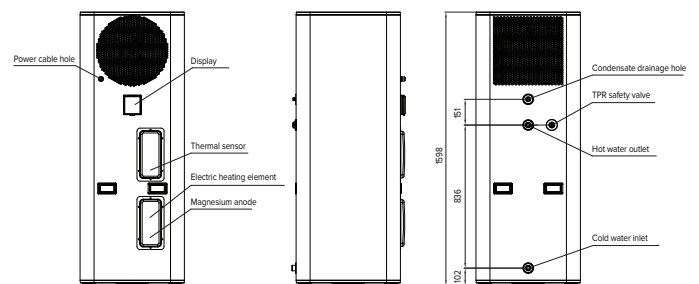
Solar Soaker: Use surplus solar to operate the heat pump and generate free hot water with the Electricity Advisor Wi-Fi pack.

Boost mode: Automatically uses surplus solar energy to run the heat pump, delivering free hot water when paired with the Electricity Advisor Wi-Fi pack.

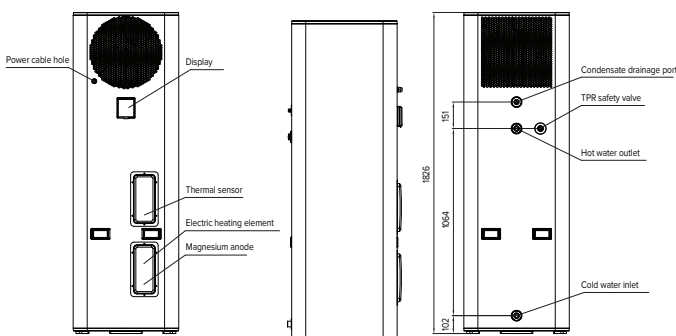
Generous government rebates: Leading energy-efficient technology for maximum rebates from schemes including VEU, ESS, REPS and CER.

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

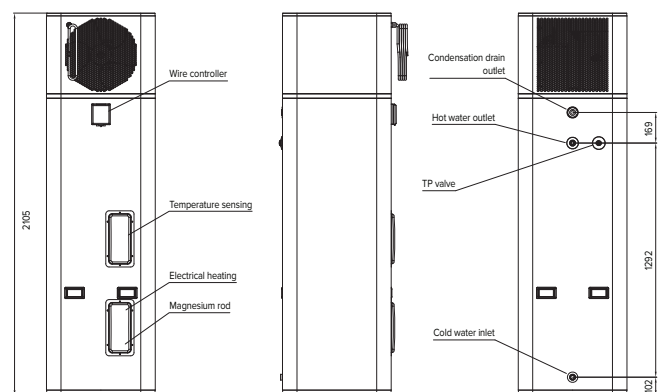
Ideal for both residential and commercial use, it delivers peak performance in any setting. Optionally, it can include a built-in electric heater to boost hot water supply. Connect to Emerald app via Wi-Fi for convenient smart control via mobile phone.



EE-HWS-A1-220E & EE-HWS-A1-220E-2
(The electric heating element is not included in EE-HWS-A1-220)



EE-HWS-A1-270E & EE-HWS-A1-270E-2
(The electric heating element is not included in EE-HWS-A1-270)



EE-HWS-A1-320E, EE-HWS-A1-320E-1
(The electric heating element is not included in EE-HWS-A1-320)

Specifications

Emerald model (residential)		EE-HWS-A1-220E	EE-HWS-A1-220	EE-HWS-A1-270E	EE-HWS-A1-270	EE-HWS-A1-320E	EE-HWS-A1-320	
Emerald model (commercial)		EE-HWS-A1-220E-2	EE-HWS-A1-220-1	EE-HWS-A1-270E-2	EE-HWS-A1-270-1	EE-HWS-A1-320E-1	EE-HWS-A1-320-1	
Power supply		220V~240V/50HZ/60HZ/1Phase						
Water tank volume		220L		270L		320L		
Optional running modes		Standard / Silent / Booster / E-Heater	Standard / Silent / Booster	Standard / Silent / Booster / E-Heater	Standard / Silent / Booster	Standard / Silent / Booster / E-Heater	Standard / Silent / Booster	
Electric heating element		1.6KW	N/A	1.6KW	N/A	1.6KW	N/A	
Heating capacity		Standard mode (Heat pump only)	2.8kW	2.8kW		2.8kW		
Rated input power			0.56kW	0.58kW		0.53kW		
COP for heat pump			4.9	4.8		5.2		
Recharge rate per hour			58L/h	58L/h		58L/h		
Sound level at 1m			49dB(A)	49dB(A)		49dB(A)		
Heating capacity		*Silent mode (Heat pump only)	2.0kW	2.0kW		2.0kW		
Rated input power			0.44kW	0.44kW		0.4kW		
COP for heat pump			4.6	4.6		5		
Recharge rate per hour			41L/h	41L/h		41L/h		
Sound level at 1m			45dB(A)	45dB(A)		45dB(A)		
Heating capacity		*Booster mode (Heat pump + Electric heater)	5.2kW	3.6kW	5.2kW	3.6kW	5.2kW	3.6kW
Rated input power			2.4kW	0.8kW	2.4kW	0.8kW	2.3kW	0.7kW
COP for heat pump			4.5	4.5	4.5	4.5	5.1	5.1
Recharge rate per hour			108L/h	75L/h	108L/h	75L/h	108L/h	75L/h
Heating capacity		*E-Heater mode (Electric heater only)	1.6kW	N/A	1.6kW	N/A	1.6kW	N/A
Rated input power			1.6kW	N/A	1.6kW	N/A	1.6kW	N/A
COP for heat pump			N/A	N/A	N/A	N/A	N/A	N/A
Recharge rate per hour			33L/h	N/A	33L/h	N/A	33L/h	N/A
Max current (under booster mode)		11.3A	4.6A	11.3A	4.6A	11.3A	4.6A	
Refrigerant		R290 (400g)				R290 (450g)		
Compressor		Highly (Hitachi JV) / DC Inverter / Rotary						
Fan motor		DC Inverter						
Fan type		Axial						
Expansion valve		EEV						
Defrost		4-way valve						
Inner tank		Enamel / 2.5mm tank wall / 3.0mm dome						
Inner tank design		Concave						
Tank insulation		Polyurethane / 35mm-157mm						
Tank protection		2 x Magnesium anodes						
Heat exchanger		Microchannel						
Outer casing		Galvanized painted sheet / White						
TPR valve		AVG / 850kPa						
Rated outlet water temperature		60°C						
Max outlet water temperature		70°C						
Working range with element		-15°C~43°C						
Working range without element		-7°C~43°C						
IP class		IPX4						
Electric shock proof class		I						
Unpacked dimension		600*600*1598mm	600*600*1598mm	600*600*1826mm	600*600*1826mm	600*600*2105mm	600*600*2105mm	
Packed dimension		650*680*1730mm	650*680*1730mm	650*680*1956mm	650*680*1956mm	650*680*2225mm	650*680*2225mm	
Net weight		118kg	118kg	132kg	132kg	146kg	146kg	
Gross weight		126kg	126kg	141kg	141kg	154kg	154kg	

*As per the AS/NZS 4234 modelling Standards the modes (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.

*Warranty period effective from 1 July 2025 for All-In-One Pro models. *Sound levels tested at 1 metre in a hemi-anechoic chamber.

The information in this brochure is accurate at the time of publication. Please note Emerald App undergoes regular updates to enhance functionality and introduce new features, which may result in changes to the details provided herein.

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