

All-In-One Hot Water Heat Pump

220L, 270L and 320L with Optional E-Heater



Created by Emerald, an Australian company with 18 years of manufacturing experience, this Wi-Fi enabled heat pump combines efficiency, reliability and smart home integration.

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 it to the Emerald app via Wi-Fi for convenient smart control via your mobile phone.

FEATURES

PREMIUM DC TECHNOLOGY

- Built with the best material and DC technology, for superior performance and offering more efficient, reliable and quieter operation.

R290

- This heat pump can deliver a high certificate yield when used commercially due to the use of R290 hydrocarbon delivering a low Global Warming Potential (GWP) of 3.

INSTALLER DASHBOARD FOR REMOTE MONITORING

- Gain visibility of your heat pump network and monitor their performance in real-time.

SOLAR SOAKER

- Utilise surplus solar - the Emerald Wi-Fi Heat Pump operates at zero cost when there's excess solar in your system.

BOOST MODE

- Boost mode quickly raises the water temperature while maintaining low noise levels.

MODERN COMPACT DESIGN

- Seamlessly blends with contemporary home design.



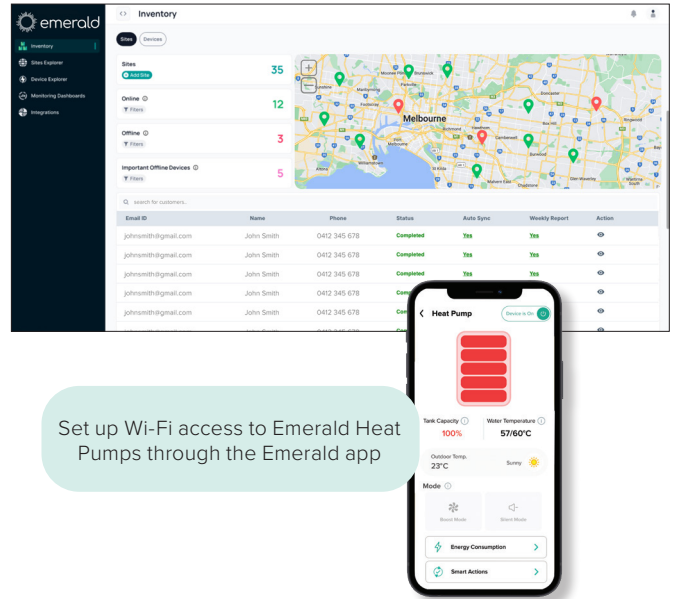
Your water temperature is low.
You may want to turn on boost mode.

GROW YOUR NETWORK

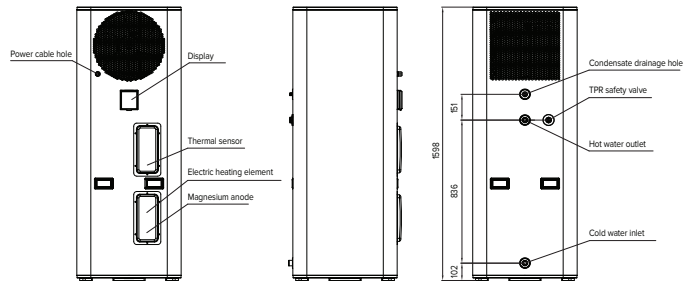
GAIN VISIBILITY OF YOUR HEAT PUMP NETWORK

- ✓ View installs on a central Emerald dashboard
- ✓ Monitor heat pump performance
- ✓ 24/7 monitoring with email notifications
- ✓ Heat pump Wi-Fi and operation status

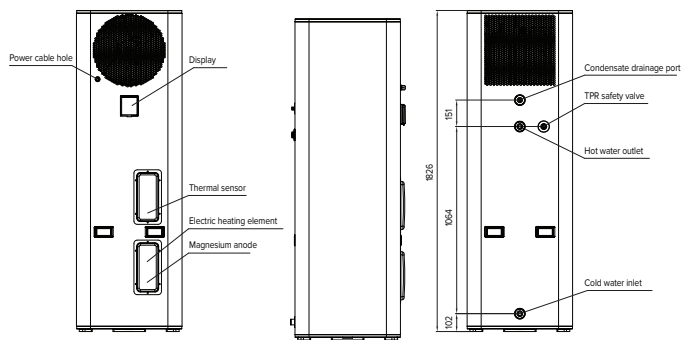
Setting up the Wi-Fi connection with the heat pump is easy for both installers and customers. Emerald's Wi-Fi-enabled heat pumps can automatically register customer warranties and ensure they receive system updates.



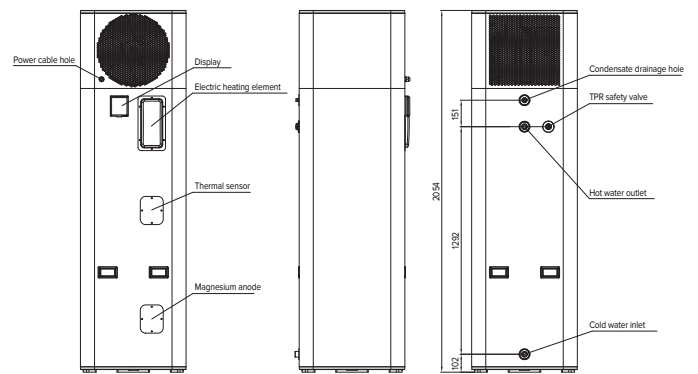
Set up Wi-Fi access to Emerald Heat Pumps through the Emerald app



EE-HWS-A1-220E-1/-2
(The electric heating element is not included in EE-HWS-A1-220)



EE-HWS-A1-270E-1/-2
(The electric heating element is not included in EE-HWS-A1-270)



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

| | | | | | | |
|---------------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| EE 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 |
| EE Model (Commercial) | EE-HWS-A1-220E-1(-2) | EE-HWS-A1-220-1 | EE-HWS-A1-270E-1(-2) | EE-HWS-A1-270-1 | EE-HWS-A1-320E-1 | EE-HWS-A1-320-1 |
| 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 |
| Unpacked Dimension | 600*600*1598mm | 600*600*1598mm | 600*600*1826mm | 600*600*1826mm | 600*600*2050mm | 600*600*2050mm |
| Packed Dimension (outdoor unit) | 670*670*1730mm | 670*670*1730mm | 670*670*1956mm | 670*670*1956mm | 670*670*2170mm | 670*670*2170mm |
| Net Weight (outdoor unit) | 118kg | 118kg | 132kg | 132kg | 146kg | 146kg |
| Gross Weight (outdoor unit) | 126kg | 126kg | 141kg | 141kg | 154kg | 154kg |

SPECIFICATIONS

| EE 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 |
|----------------------------------|--|--------------------------------|---|--------------------------------|---|--------------------------------|
| EE 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 | 2.7kW | | 2.7kW | | 2.7kW | |
| Rated Input Power | 0.56kW | | 0.58kW | | 0.53kW | |
| COP | 4.9 | | 4.8 | | 5.2 | |
| Recharge Rate Per Hour | 58L/h | | 58L/h | | 58L/h | |
| Sound Level | 49dB(A) | | 49dB(A) | | 49dB(A) | |
| Heating Capacity | 1.8kW | | 1.8kW | | 1.8kW | |
| Rated Input Power | 0.44kW | | 0.44kW | | 0.41kW | |
| COP | 4.6 | | 4.6 | | 4.4 | |
| Recharge Rate Per Hour | 43L/h | | 43L/h | | 43L/h | |
| Sound Level | 45dB(A) | | 45dB(A) | | 45dB(A) | |
| Heating Capacity | 5.2kW | 3.6kW | 5.2kW | 3.6kW | 4.4kW | 4.4kW |
| Rated Input Power | 2.4kW | 0.8kW | 2.4kW | 0.8kW | 2.4kW | 0.8kW |
| COP | 4.5 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 |
| Recharge Rate Per Hour | 112L/h | 78L/h | 112L/h | 78L/h | 112L/h | 78L/h |
| Heating Capacity | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| Recharge Rate Per Hour | N/A | N/A | N/A | N/A | N/A | N/A |
| Max Current (under booster mode) | 14A | 5A | 14A | 5A | 14A | 5A |
| 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 | I | | | | | |
| Unpacked Dimension | 600*600*1598mm | 600*600*1598mm | 600*600*1826mm | 600*600*1826mm | 600*600*2050mm | 600*600*2050mm |
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*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.