



AUSTRALIAN ENERGY SAVING SCHEMES

Australian federal, state and territory governments have established energy-efficiency schemes to incentivise the adoption of smart technology solutions to help reduce energy usage and the carbon footprint of businesses and households across the country.

Emerald works closely with government agencies to ensure our products are at the forefront of energy-efficient technology, and aligned to the benchmarks set by the energy-efficiency schemes across Australia. Our hot water heat pumps are approved for installation within multiple government schemes.

HIGH SMALL-SCALE TECHNOLOGY CERTIFICATES (STC)

Air source heat pumps qualify for Small-Scale Technology Certificates (STCs) that encourage heat pump water heater installation. STCs can be traded on the Australian market based on their value, which is determined by the efficiency of the unit and the temperature zone in Australia. Each STC represents 1MWh of energy saved over ten years.



PEAK DEMAND REDUCTION SCHEME (PRC)

A Peak Reduction Certificate is a tradeable certificate created when an Accredited Certificate Provider undertakes activities that provide the capacity to reduce electricity usage during peak demand periods.



EMERALD'S RANGE OF QUALITY HEAT PUMPS

200L and 300L models are available with an optional built-in electric heater as backup for faster heating to ensure continuous hot water supply in cold weather conditions.







EE-HWS-RCHP-200 FF-HWS-RCHP-200-1



EE-HWS-RCHP-200E FF-HWS-RCHP-200F-1 (with backup electric heater)



EE-HWS-RCHP-300 FF-HWS-RCHP-300-1



EE-HWS-RCHP-300E EE-HWS-RCHP-300E-1 (with backup electric heater)

emerald

REFRIGERANT CYCLING HEAT PUMP - 200L AND 300L

OPTIMISED FOR ENERGY-EFFICIENCY

The heat pump's micro channel heat exchanger is located in the water tank, driving improved energy-efficiency.

OPTIONAL BUILT-IN ELECTRIC HEATER

Both models are available with an optional built-in back up electric heater.

BLUE DIAMOND ENAMEL TANK

Ensures the surface is clean and smooth - reducing dust from adhering.

WARRANTY

7 years tank.

5 years heat pump unit.

2 years labour warranty.

*Subject to terms and conditions



HEALTH AND COMFORT

HIGH WATER TEMPERATURE AND LARGE WATER TANK DESIGN

200L and 300L big volume design ensure multi-point simultaneous use during peak water consumption.

ANTI-LEGIONELLA FUNCTION

Disinfection temperature 60~75°C

Unit without electric heater:

Maximum disinfection temperature 65°C

Unit with electric heater:

Maximum disinfection temperature 75°C

Two disinfection modes available: Periodicity automatically disinfect Manually disinfect

SPLIT SYSTEM DESIGN

Due to the split design, the water tank can be placed close to where the hot water will be used - the hot water pipe is shorter for a quicker hot water supply.

The longer refrigerant piping allows the outdoor unit to be placed further away from living areas, minimising any noise impact.

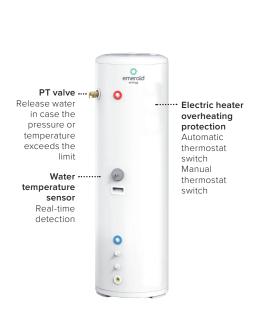
Maximum. piping length: 20m

Maximum. piping difference in height: 10m

BLUE DIAMOND ENAMEL TANK

Blue Diamond enamel technology ensures the surface is clean and smooth and reduces dirt from adhering - keeping the tank cleaner and more hygienic over time.

SAFETY FEATURES





ANTIFREEZE CONTROL

PRECISE TEMPERATURE AND PRESSURE CONTROL

(7)

Current protection



High pressure protection



Discharge temperature protection

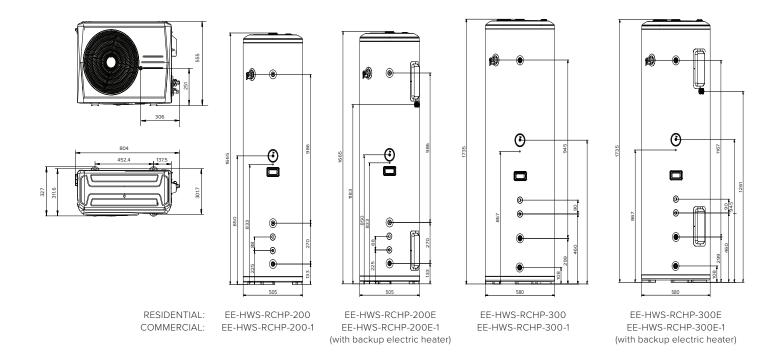


Superheat protection

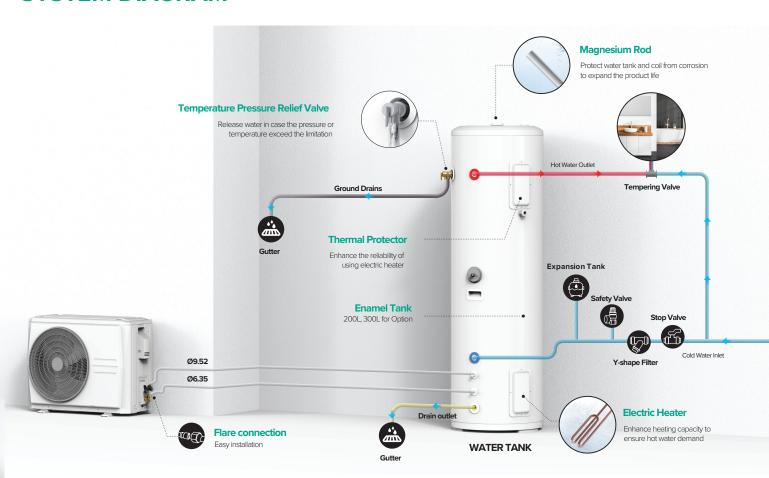


Anti-freezing protection

PRODUCT DIMENSIONS



SYSTEM DIAGRAM



SPECIFICATIONS

| | MODEL NUMBER | | | EE-HWS-RCHP-200 EE-HWS-RCHP-200-1 | EE-HWS-RCHP-200E EE-HWS-RCHP-200E-1 | EE-HWS-RCHP-300 EE-HWS-RCHP-300-1 | EE-HWS-RCHP-300E-1 |
|----------------|------------------------------|------------------------------|----------|----------------------------------------------------|----------------------------------------|--------------------------------------|--------------------|
| GENERAL | Ambient temperature | | °C | -15~46 | | | |
| | Leaving water temperature | | °C | 20~63 | | | |
| | Heating | Capacity, | W | 2600 | | | |
| | | Input | W | 1000 | | | |
| | Hot water yield | | m³/h | 0.044 ¹ / 0.056 ² | | | |
| | Refrigerant piping | Refrigerant piping | mm(inch) | Ø6.35 / Ø1/4' | | | |
| | | Gas side | mm(inch) | Ø9.52 / Ø3/8' | | | |
| | | Max. height difference | m | 10 | | | |
| | | Max. refrigerant pipe length | m | 20 | | | |
| | Design pressure | | MPa | 3 | | | |
| | Outdoor unit power supply | | V/N/Hz | 220-240/1/50 | | | |
| | Max. current | | А | 4.4 | 13.5 | 4.4 | 13.5 |
| | Compressor | | Туре | Rotary | | | |
| | Fan | Туре | AC | | | | |
| | | Air flow (H/L) | m³/h | 1250/769 | | | |
| | Air side heat exchanger | | Туре | Hydraulic aluminum fin + Inner grooved copper tube | | | |
| OUTDOOR | Throttle | | Туре | Electric expansion valve | | | |
| UNIT | Outdoor sound pressure level | | dB(A) | 54 | | | |
| | Dimension | Unit dimension (L*W*H) | mm | 804*327*555 | | | |
| | | Packing dimension (L*W*H) | mm | 845*390*610 | | | |
| | | Net weight | kg | 29 | | | |
| | | Gross weight | kg | 32 | | | |
| | Refrigerant | Туре | | R134a | | | |
| | Kenigerani | Charged volume | g | 900 | | | |
| INDOOR UNIT | Tank volume | | L | 200 | 200 | 300 | 300 |
| | Electric | Capacity | kW | / | 2.1 | / | 2.1 |
| | heater | Power supply | V/N/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| | Dimension | Unit dimension(W*D*H) | mm | 505*505*1665 | 505*505*1665 | 580*580*1735 | 580*580*1735 |
| | | Packing dimension(W*D*H) | mm | 1775*635*590 | 1775*635*590 | 1835*690*670 | 1835*690*670 |
| | | Net weight | kg | 73 | 73 | 96 | 96 |
| | | Gross weight | kg | 83 | 83 | 108 | 108 |

^{1.} Ambient temperature 19/15°C(DB/WB), Initial water temperature 9°C, Terminative water temp. 60°C.

