

HEAT PUMPS
ENERGY
EFFICIENT
HOT WATER



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Emerald Energy's heat pump water heaters provide energy-efficient hot water all year round.

Unlike solar, there is no structural load on the roof. They can use the same plumbing and electrical connections as an electric water heater - making them an ideal upgrade from a standard electric water heater.



ENERGY EFFICIENT TECHNOLOGY

Emerald Energy Heat Pumps can save households money, as well as substantially reduce energy consumption and CO₂ emissions, by utilising modern compressor technologies heat pumps efficiently deliver hot water to homes.

A heat pump is a bit like a reverse refrigerator - it transfers heat from the air, through a heat exchange system, to the water in the tank.

Air is drawn in through a fan and absorbed by a refrigerant, which flows through the evaporator. The refrigerant is then compressed into a vapour which raises the temperature and pressure. The hot vapour then flows through the heat exchanger which heats the water and cools the refrigerant.

QUALITY PRODUCT DEVELOPMENT

We design products to deliver maximum energy-efficiency, performance and reliability at affordable price points.

Premium components for reliability

Manufactured using quality products such as Grundfos; the number one water pump brand, and Toshiba JV compressors with a larger 3.6kw heating capacity for higher efficiency.

Back up element as standard

Unlike some other heat pumps on the market Emerald Energy's is fitted with an E-heater for quicker hot water in winter.

Durable water tank

Made from 2.5mm thick enamel for optimum performance and reliability.

Warranty

2 year labour warranty.
7 years on the tank, and 5 years on the rest of the system.

*Subject to terms and conditions.



PART	DESCRIPTION
Compressor	Toshiba JV
Water Tank	Sacon - supplying the Australian market for 10 years
Water Pump	Grundfos
Fan	Welling
Heat exchanger	Tube Type
Condenser	804x500x43.3mm
E-heater	Yes

GOVERNMENT ENERGY SAVING SCHEMES

AUSTRALIA'S ENERGY-EFFICIENCY SCHEMES

The Australian Government developed a series of state-based 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 Australia.

Emerald Planet 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.

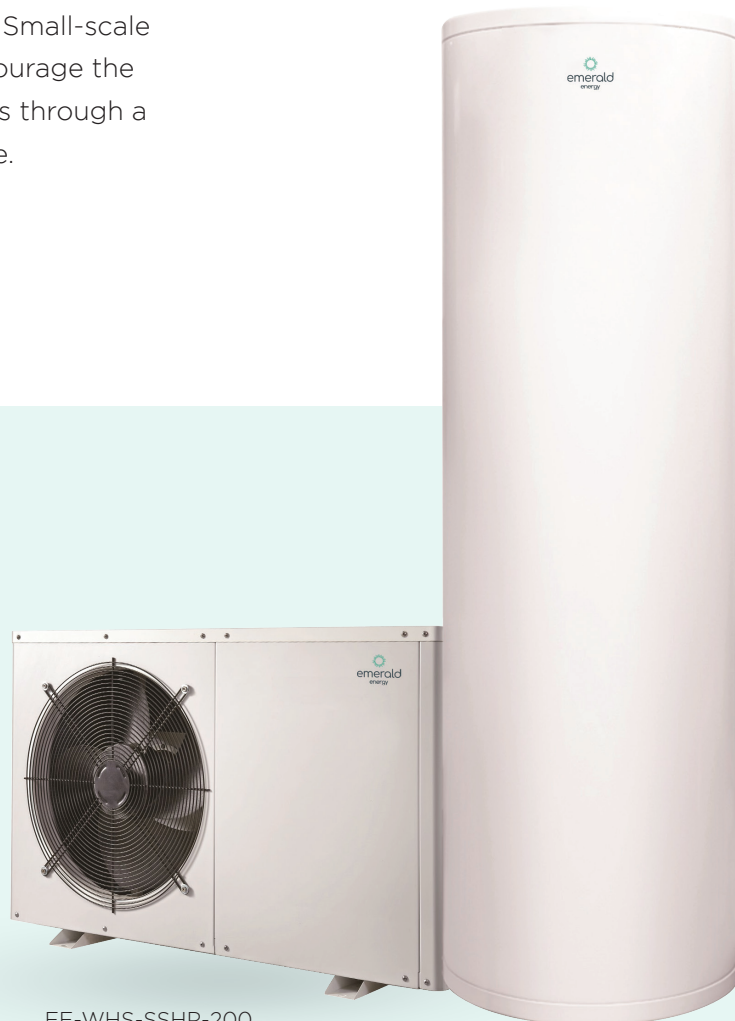


SMALL-SCALE TECHNOLOGY CERTIFICATES

Air source Heat Pumps are eligible for Small-scale Technology Certificates (STCs) to encourage the installation of heat pump water heaters through a Federal Government legislated scheme.

FEATURES

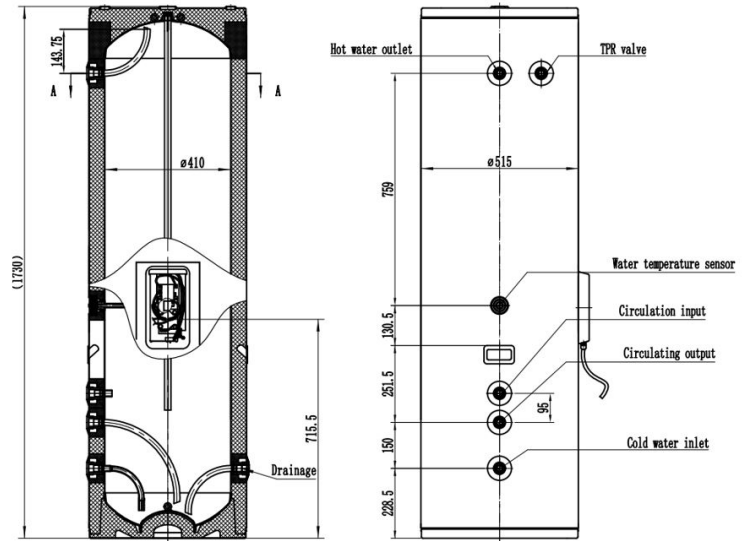
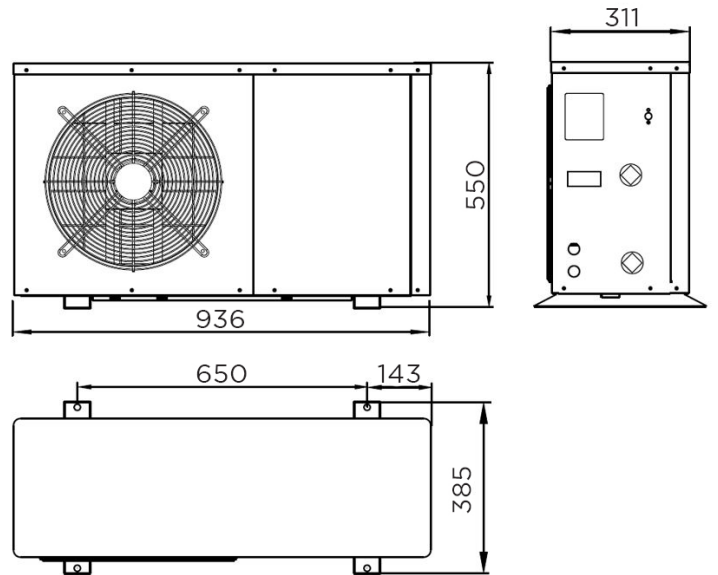
- Energy efficient hot water
- Premium components
- Hybrid system with heat pump and electric heater as back up
- 3.6kw heat pump and 5.6kw combined with electric heater
- 2.5mm enamel tank



EE-WHS-SSHP-200

SPECIFICATIONS

Power supply	220V-240V/50HZ
Rated Input Power (Heat pump)	0.79KW
Rated Input Current (Heat pump)	3.4A
Rated Heating Capacity (Heat pump)	3.66KW
Rated Input Power (Resistance)	2KW
Rated Input Current (Resistance)	8.3A
Max Current (HP&Resistance)	15.6A
Refrigerant	R410 (1150g)
Compressor	GMCC/Rotary
Expansion Valve	EEV
Water Tank Capacity	205L
Water Pump	Grundfos / Built-in
Inner Tank Material	Enamel
Inner Tank Thickness	Body 2.5mm / Dome 3.0mm
Inner Tank Diameter	Φ410mm
Water Inlet/Outlet Pipe	G 3/4"/Female
Rated Water Tank Pressure	0.7MPa
Water Tank Max Water Pressure	850KPa
Operation Pressure (Low Side)	0.2MPa
Operation Pressure (High Side)	4.4MPa
Outer Casing	Colour painted sheet
Fan	Axial
Ventilation	Horizontal discharge
Rated Outlet Water Temperature	60°C
Max Outlet Water Temperature	70°C
Working Range With Resistance	-15°C-43°C
Working Range Without Resistance	-7°C-43°C
Anti-corrosion For Water Tank	Magnesium anode
Anti Legionella	Water heated up to 70°C
IP Class	IPX4
Electric Shock Proof	I
Unpacked Dimension	936*385*550mm
Packed Dimension	1030*445*592mm
Net Weight	54KG
Gross Weight	60KG
Noise	52dBA



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