

SAVE UP TO 80% ON HOT WATER COSTS

emeral



ALL-IN-ONE HOT WATER HEAT PUMP 220L, 270L, 320L WITH OPTIONAL E-HEATER

Emerald. Designing a sustainable, safer future.



Designed by Emerald, an Australian company with 17 years of manufacturing experience, this heat pump combines efficiency, reliability and Wi-Fi.

Ideal for both residential and commercial use, it delivers peak performance in any setting.

WARRANTY 5 years system 2 years labour and service



At Emerald, we want our customers to gain the most out of technology. We focus our energies on creating products that are technologically superior, last longer and perform better.

STUART EDGLEY EMERALD MANAGING DIRECTOR

The energy-saving, stylish, all-in-one heat pump.

Why choose an Emerald hot water heat pump?

Emerald's All-One Heat Pump is renowned for its outstanding energy efficiency, reliability, and the money-saving benefits of its built-in Wi-Fi.

Designed to minimise its environmental impact, it utilises R290, a natural and non-toxic refrigerant with minimal environmental harm. R290 has zero Ozone Depletion Potential (ODP) and an extremely low Global Warming Potential (GWP) of 3.

In addition to its eco-friendly features, this heat pump comes with smart controls and an integrated electric backup system, making it a versatile choice anywhere in Australia.



Features.

PREMIUM TECHNOLOGY

Built using premium materials and DC technology to ensure exceptional performance, delivering efficiency and reliability.

QUIET OPERATION

The DC technology combined with premium components results in quieter operation.

LOW GLOBAL WARMING POTENTIAL (GWP 3)

Uses R290, the preferred refrigerant due to its low Global Warming Potential compared to traditional refrigerants.

BUILT TO LAST

Manufactured using materials that prioritise outstanding performance and durability.

MODERN COMPACT DESIGN

Designed with a contemporary, compact style to seamlessly blend into modern home design.

WI-FI APP CONTROLS AND MONITORING

Adjust your heat pump's settings and track its performance in real-time via Wi-Fi.

What makes heat pumps so incredibly efficient?

Save up to 80% on your hot water bills.

Hot water heating systems are often the most significant contributor to household energy costs, amounting to approximately 25-30% of the total energy consumption.

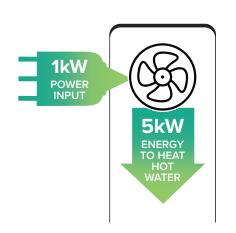
Whether replacing an existing system or installing one, opting for an Emerald hot water heat pump guarantees both comfort and energy efficiency for your home.

How heat pumps work.

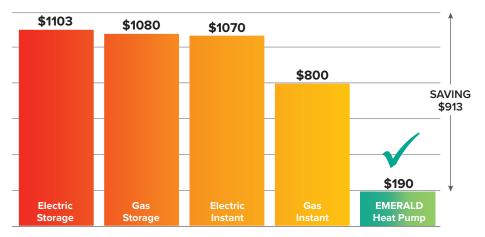
Hot water heat pumps operate by extracting heat from the air and transferring it to the water in the tank. This process is similar to how a refrigerator works but in reverse. The heat pump contains a refrigerant that evaporates at low temperatures, absorbing heat from the air. This vapor is then compressed, raising its temperature, and the heat is transferred to the water.

Hot water out of thin air.

Heat pumps extract thermal energy from the surrounding air. From 1kW of power input they can output 5kW to heat water.







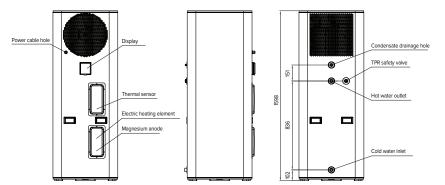
*Average annual Australian household hot water cost estimates based on daily use of 150-200L for 4 people

A size to suit every household's hot water needs.

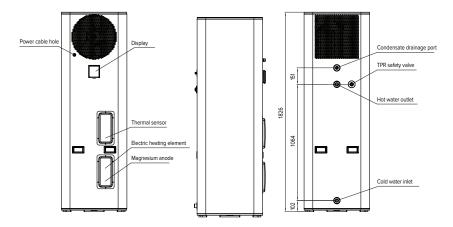


We offer three heat pump models with various litre capacities: 220L, 270L, and 320L, all featuring an optional built-in electric heater.

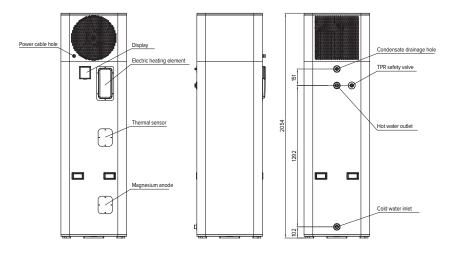
The back-up heater offers faster heating, guaranteeing a continuous supply of hot water - even in extreme weather conditions!



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



EE-HWS-A1-270E(-1) (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)

Convenient, smart control with the Emerald app





The Emerald app provides you with convenient control and monitoring capabilities for your heat pump hot water system.

Monitor electricity consumption

View information on your heat pump hot water systems electricity usage.

Real-time hot water temperature

Check the current temperature of the hot water and monitor the water level to ensure you have up-to-date information about your hot water status at all times.

Control anywhere, anytime

Enjoy the flexibility of controlling your heat pump, allowing you to turn it on or off from anywhere via your mobile phone.

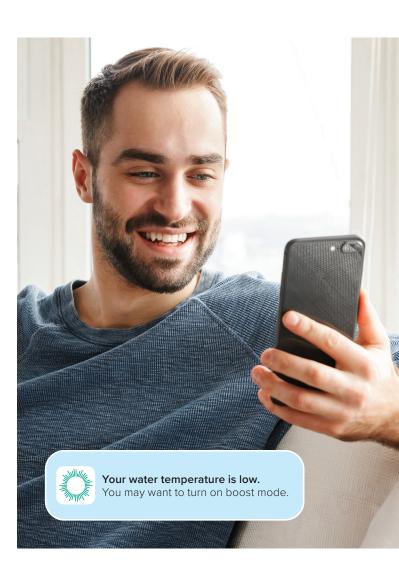
Boost your hot water

Activate the Boost feature to speed up the heating process of your hot water tank when you need it to be ready quickly.

Run your heat pump in Silent Mode

Opt for a quieter operation by activating Silent Mode.





Smart Actions to help save more

What are Smart Actions?

Smart Actions is a feature designed to automate temperature control. It allows you to set specific rules for your heat pump, enabling it to adjust temperature settings based on your preferences.

How do Smart Actions work?

Smart Actions will maintain your preferred temperature while saving you energy and money according to your preferences.

Government certificate rebates

Australian energy saving schemes

Australian federal, state and territory governments have established energy-efficiency schemes and programs to incentivise the adoption of smart technology solutions, such as hot water heat pumps, 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 energyefficient technology, and aligned to and approved by energy-efficiency schemes across Australia such as VEU, ESS and REPS.

Federal Small-Scale Technology Certificates (STCs)

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.

State Grants

Victoria

Victorian residents can enjoy extra rebates when upgrading outdated hot water systems to Heat Pumps. In addition to Federal STC grants, eligible installations qualify for Victorian Energy Efficiency Certificates (VEECs).

New South Wales

New South Wales residents can take advantage of extra rebates when upgrading outdated hot water systems to Heat Pumps. In addition to Federal STC grants, eligible installations qualify for Energy Savings Schemes (ESCs).

Peak Demand Reduction Scheme (PRCs)

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 Heat Pumps are accepted under Australian government energy-efficiency schemes.



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-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
Power supply				220V ~ 240V/50	HZ/60HZ/1Phase		
Water Tank Volume		22	OL	27	OL	32	OL
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			2.71	kW	
Rated Input Power		0.56kW		0.58kW		0.53kW	
СОР	Standard mode (Heat pump only)	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	+C'1	0.44kW		0.44kW		0.41kW	
COP	*Silent mode (Heat pump only)	4.6		4.6		4.4	
Recharge Rate Per Hour		43L/h		43L/h		43L/h	
Sound Level		45dB(A)		45dB(A)		45dB(A)	
		5 0	0.000	5 0	0.000		
Heating Capacity	*Decotoria	5.2kW	3.6kW	5.2kW	3.6kW	4.4kW	4.4kW
COP	*Booster mode (Heat pump +	2.4kW	0.8kW	2.4kW	0.8kW	2.4kW	0.8kW
	Electric heater)	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	a Capacity		N/A	1.6kW	1.6kW	1.6kW	1.6kW
Rated Input Power	*E-Heater mode	1.6kW 1.6kW	N/A	1.6kW	1.6kW	1.6kW	1.6kW
COP	(Electric heater only)	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
	I	I	L			11	
Max Current (under booste	er 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					
					valve		
Inner Tank				Enamel / 2.5mm tanl			
					k wall / 3.0mm dome		
Inner Tank Design				Enamel / 2.5mm tank	k wall / 3.0mm dome		
Inner Tank Inner Tank Design Tank Insulation Tank Protection				Enamel / 2.5mm tank	x wall / 3.0mm dome cave 35mm-157mm		
Inner Tank Design Tank Insulation				Enamel / 2.5mm tank Con Polyurethane /	x wall / 3.0mm dome cave 35mm-157mm ium anodes		
Inner Tank Design Tank Insulation Tank Protection				Enamel / 2.5mm tank Cone Polyurethane / 2 x Magnes	x wall / 3.0mm dome cave 35mm-157mm ium anodes hannel		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger				Enamel / 2.5mm tank Cone Polyurethane / 2 x Magnes Microc	k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve	rature			Enamel / 2.5mm tank Conc Polyurethane / 2 x Magnes Microc Galvanized paint	k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 850kPa		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Tempe				Enamel / 2.5mm tank Cone Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8	k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Temper	ature			Enamel / 2.5mm tank Conv Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70	x wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 850kPa *C *C		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Tempere Working range with eleme	nt			Enamel / 2.5mm tank Cone Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70 -15°C	x wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 850kPa °C °C - 43°C		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Tempera Working range with eleme Working range without eleme	nt			Enamel / 2.5mm tank Conv Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70 -15°C - -7°C -	x wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C C - 43°C 43°C		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Temper Working range with eleme Working range without ele IP Class	nt			Enamel / 2.5mm tank Cone Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70 -15°C	x wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C C - 43°C 43°C		
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Tempera Working range with eleme Working range without ele IP Class Electric Shock Proof	nt	600'600'1598mm	600'600'1598mm	Enamel / 2.5mm tank Conc Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70 -15°C - -7°C - IP2	 k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C *C *43°C *43°C *44 	600*600*2050mm	600°600°2050mm
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Temper Max Outlet Temper Max Outlet Temper Max Ou	nt ment	600°600°1598mm	600°600*1598mm	Enamel / 2.5mm tank Conv Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 600 -15°C -7°C - IP	 k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C *C *43°C *43°C K4 600*600*1826mm 	600°600°2050mm	
Inner Tank Design Tank Insulation Tank Protection Heat Exchanger Outer Casing TPR valve Rated Outlet Water Temper Max Outlet Water Tempera Working range with eleme Working range without ele IP Class Electric Shock Proof	nt ment	600°600°1598mm 670°670°1730mm	600°600°1598mm 670°670°1730mm 118kg	Enamel / 2.5mm tank Conc Polyurethane / 2 x Magnes Microc Galvanized paint AVG / 8 60 70 -15°C - -7°C - IP2	 k wall / 3.0mm dome cave 35mm-157mm ium anodes hannel ed sheet / White 350kPa *C *C *43°C *43°C *44 	600°600°2050mm 670°670°2170mm 146kg	600°600°2050mm 670°670°2170mm 146kg

*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.