

All-In-One Hot Water Heat Pump

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

**BUILT-IN
WI-FI
CONTROL**



R290
LOW GWP 3



WARRANTY
5 years system
2 years labour
and service



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.



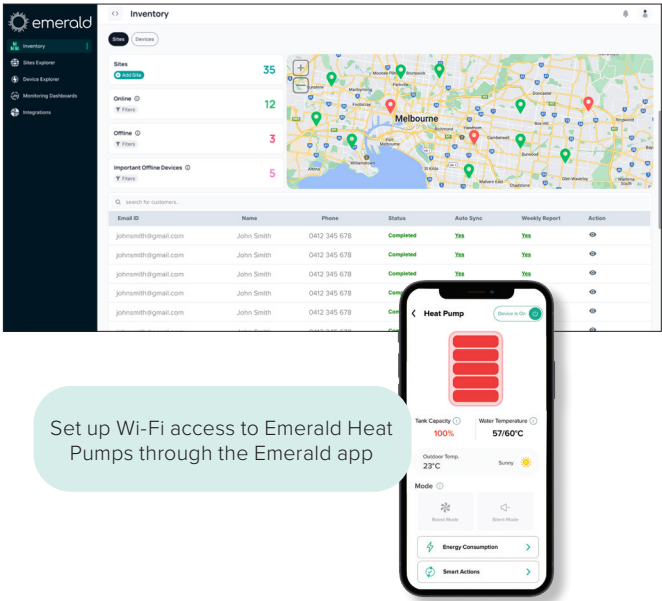
Your water temperature is low.
You may want to turn on boost mode.

GROW YOUR NETWORK

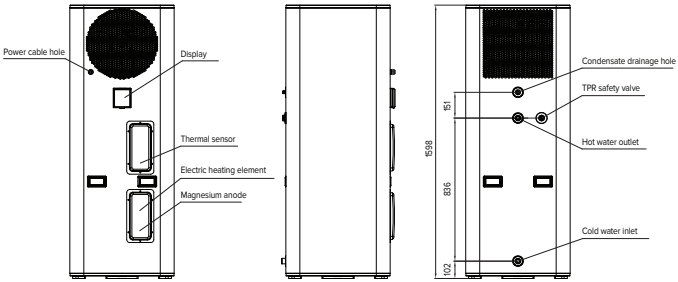
GAIN VISIBILITY OF YOUR HEAT PUMP NETWORK

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

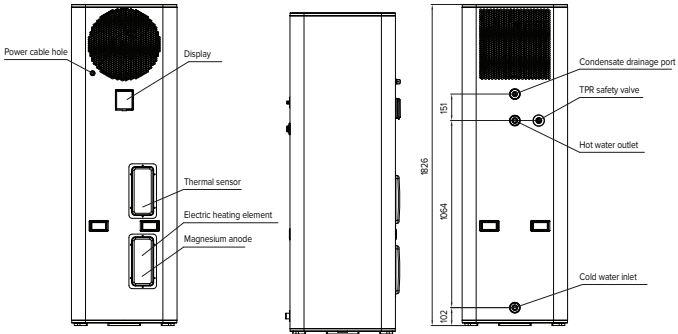
Setting up the Wi-Fi connection with the heat pump is easy for both installers and customers. Emerald's Wi-Fi-enabled heat pumps can automatically register customer warranties and ensure they receive system updates.



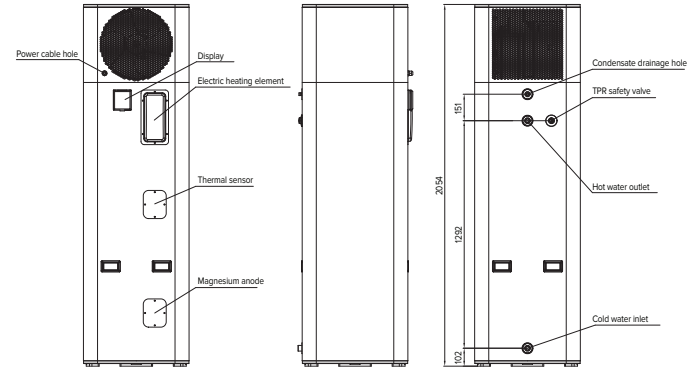
Set up Wi-Fi access to Emerald Heat Pumps through the Emerald app



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

GENEROUS 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 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 and approved by energy-efficiency schemes across Australia such as VEU, ESS and REPS.

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.

RESIDENTIAL	VEECS - METRO				VEECS - REGIONAL				ESCS - METRO				ESCS - REGIONAL				NATIONAL				
	1D - Elec		3C - Gas		1D - Elec		3C - Gas		D17 - Elec		D19 - Gas		D17 - Elec		D19 - Gas		STC				
	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
EE-HWS-A1-220/E	13	13	9	8	14	14	9	8	29	30	15	15	30	31	14	15	19	18	23	25	24
EE-HWS-A1-270/E	13	13	8	8	14	13	8	8	28	29	13	14	29	30	13	13	18	18	22	23	23
EE-HWS-A1-320/E	13	12	8	7	14	13	8	7	28	29	14	14	29	30	13	14	18	18	22	24	23

COMMERCIAL	VEECS - METRO						VEECS - REGIONAL						ESCS - METRO						ESCS - REGIONAL					
	44A(i) Gas		44A(ii) Elec		44A(iii) New		44A(i) Gas		44A(ii) Elec		44A(iii) New		F16 Gas		F16 Elec		F17 New		F16 Gas		F16 Elec		F17 New	
	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 4	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5	Zone 3	Zone 5
EE-HWS-A1-220-1	22	18	48	42	19	15	21	17	51	44	18	14	46	30	110	82	40	26	45	29	114	85	39	24
EE-HWS-A1-220E-2	25	18	63	48	21	14	23	16	67	51	19	13	49	30	134	94	41	23	47	28	138	97	39	22
EE-HWS-A1-270-1	20	16	47	40	18	14	19	15	50	42	16	13	45	28	113	79	39	23	44	27	116	81	38	22
EE-HWS-A1-270E-2	26	20	66	53	22	16	24	18	70	56	20	15	50	34	138	105	42	27	48	32	142	108	40	25
EE-HWS-A1-320-1	20	18	50	46	17	15	19	16	53	48	15	13	39	30	107	90	32	24	37	28	110	93	31	23
EE-HWS-A1-320E-1	26	23	72	65	21	19	24	21	76	69	19	16	49	38	153	129	39	30	46	36	158	133	36	27



*All certificates have been calculated for the dates between the 19th of June 2024 - 31st of Jan 2025.

(i) VEEC's & ESC's Commercial certificates have been calculated when installing a new water tank and replacing an electric resistance boiler/heater of a 3.6 kW capacity in a metro area. For residential installations, the existing system size is not required for the calculations.



Contact Emerald to access our bespoke certificate calculator

sales@emeraldplanet.com.au

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	Standard mode (Heat pump only)	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	*Silent mode (Heat pump only)	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	*Booster mode (Heat pump + Electric heater)	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	*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		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 × 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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Net Weight (outdoor unit)		118kg	118kg	132kg	132kg	146kg	146kg
Gross Weight (outdoor unit)		126kg	126kg	141kg	141kg	154kg	154kg

*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.