Chromagen™
Solar & Energy Solutions

Hot Water, Efficiently

Midea®
Hot Water Heat Pumps

Make savings appear out of thin air with a Midea heat pump

USES UP TO **65% LESS ENERGY**[1]

Harvest the free energy from our plentiful air to heat your water with the advanced Midea heat pump from Chromagen. This renewable energy water heating technology uses up to 65% less energy[1] than a conventional water heater, whilst providing reliable hot water all day and night.

Features

Modern & Stylish
A stylish slim line single piece unit incorporates a top-mounted compressor with compact footprint

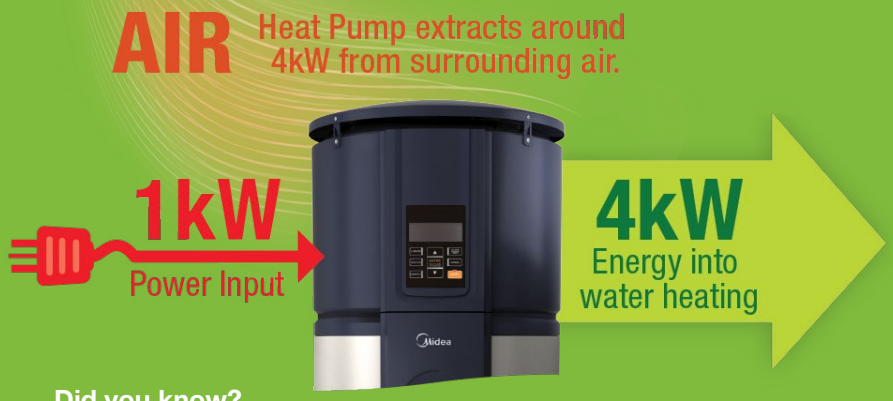
Highly Efficient
Produces significantly more heat energy than the power input; saving on purchased energy

Handy Controller
Providing intuitive operation & helpful functions such as temp setting, timer & safety lock

Built in Frost Protection
Protecting the condenser from icing for complete peace of mind

Smart Technology

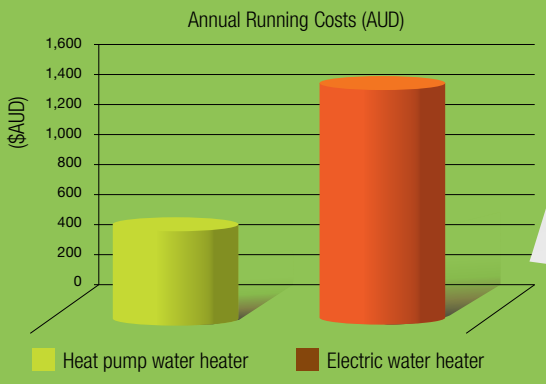
Heat pumps utilise an ingenious technology to efficiently transfer thermal energy directly from the surrounding air and into the water, and so do not rely on direct sun or fossil fuels to provide an energy source.



Did you know?
A heat pump is like an energy multiplier. From 1 kW of power input, it can create over 4 kW's of output heat[2]. That's a performance efficiency of a remarkable 400%. Where as conventional electric storage water heaters can only convert 1 kW of input power into a maximum of 1 kW of output heat.

Energy efficiency

Did you know?
Water heating accounts for nearly a quarter of the energy use and greenhouse gas emissions in the average Australian home.



**Estimation based on HP280 (RSJ-35/300RDN3-D) STC's in Zone 3 under medium load, obtained from independent laboratory test results and followed by TRNSYS modelling and a retail electricity cost of $0.30c per kWh.*

Heat Pump Selection

HP170

170L
Capacity

HP280

280L
Capacity

No. of Persons	Climate		
	Cold	Warm	Hot
	170	170	170
	280	170/280	170
	280	280	170/280
	-	280	280
	-	280	280

To be used as a guide only

HP170 HP280

Smart Technology

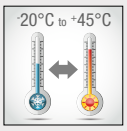
With a Midea heat pump, set up and operation monitoring is made simple thanks to an amazing, in built user-friendly controller.

Operational modes□

ECO (Heat Pump Only) mode: The standard mode where the highest efficiency is achieved

Hybrid Mode: The Heat Pump & E-heater operate together to ensure the set temperature is achieved

E-Heater: When the air temperature drops to below 5°C, the heat pump will automatically select E-heater mode for an electric hot water boost



Wide Operating Range

Operates as low as 5°C in ECO mode & between -20°C & 45°C with additional E-heat boost

Tank-Wrapped Condenser Coil

For efficient heat transfer & preventing water contamination

Low Operating Noise

Operating at a very low 48 dBA you will hardly know it's there!

Auto Disinfection^

Periodically heating the water beyond its set temp to prevent the growth of bacteria and legionella

Vacation Mode^

Conserving energy while the heat pump is idle, and automatically reactivates prior your return

Power Outage Memory

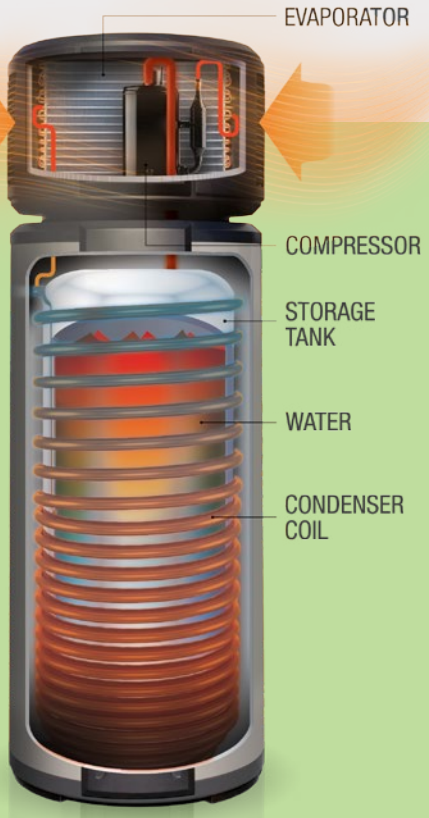
Settings are retained in the event of a power outage

An energy efficient hot water system such as the Midea heat pump is a great way for households to make substantial reductions in their energy consumption and cost of living.

A heat pump provides a quick and easy replacement of your old energy-hungry electric water heater, whilst also reducing CO_2 emissions by over 4 tonnes, and saving you up to $930* per year.

How it works

1. A fan draws in air, containing heat energy, across the evaporator
2. The evaporator turns the liquid refrigerant into a gas
3. The compressor pressurises the refrigerant into a hot gas
4. The hot gas inside the condenser coil heats the water inside the coil-wrapped tank
5. The refrigerant reverts back to a liquid after heating the water and continues to the evaporator for the process to start again



[1] Energy use reduction based on CER (AS/NZS 4234) modelling, in Zone 3. [2] Average COP is 3.72 based on AS/NZS 5125 test condition 2.
□ Applicable to HP170 model only. ^ Applicable to HP280 model only. Images indicative only - Actual product configuration may differ

Product Specifications

Heat Pump Model	HP170	HP280
Nominal volume capacity (L)	170	280
Voltage / Hz / Phase	220-240 / 50 / 1	220-240 / 50 / 1
Element input power (W)	2150	3000
Heating capacity - Heat Pump Only (W)	1500	3000
Max water temperature (°C)	65	60
Max rated input power (W) / current (A)	2780 / 12.1	4300 / 18.7
Relief valve pressure (kPa)	1000	1000
Noise level (dBA)	48	48
Net Weight (kg)	90	145
Pipe connection diameter (mm)	DN20	DN20
Cylinder Type	Vitreous Enamel	Vitreous Enamel
Outdoor resistance class	IP24	IP24
Operating Mode Function	Manual	Automatic
Refrigerant type/quantity	R134a / 0.8kg	R134a / 1.2kg

Certified Product
Australian Standard
AS/NZS 2712
Lic. SMKP21791

WaterMark
AS/NZ 3498
Lic. WMKA21792

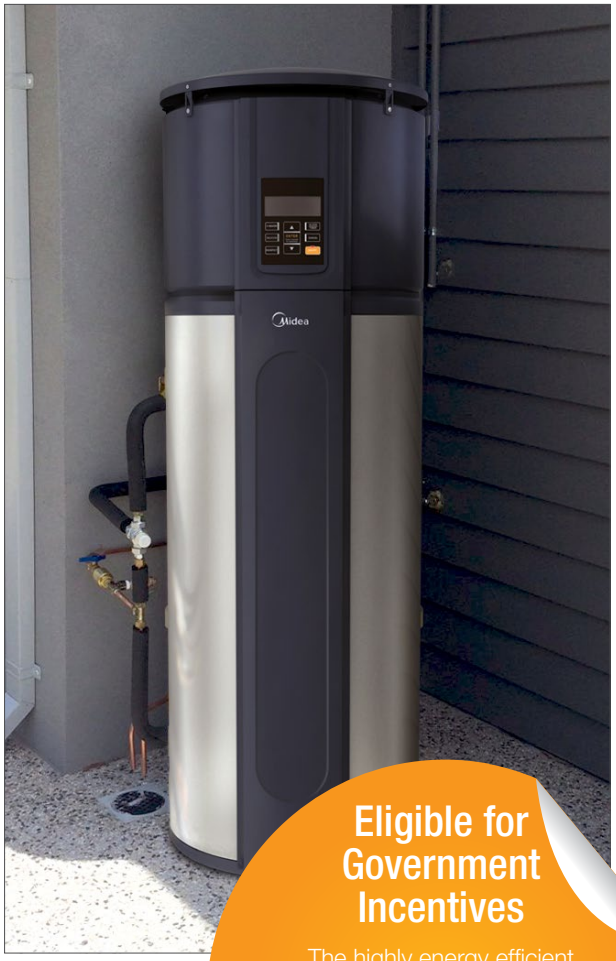
CE

Residential Warranty

5 Year Tank Cylinder (3 Year Labour)

3 Year Compressor (1 Year Labour)

1 Year Electronics, Parts & Labour



280L Installed Unit

Eligible for Government Incentives

The highly energy efficient Midea hot water heat pumps qualifies to generate Small-scale Technology Certificates (STCs) under the Federal Government RET scheme and so Australian consumers can use these to reduce the point of sale price of their heat pump.

Why choose Chromagen?

- A leading provider of solar energy solutions with over 50 years history
- Offices Australia wide with a national dealer & service network
- A wide range of energy efficient solutions to suit your lifestyle
- Committed to quality, innovation & energy-efficient solutions

A Hot Water Solution from Chromagen™
Solar & Energy Solutions

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Solar Water Heaters | Continuous Flow Water Heaters | Heat Pump Water Heaters | Solar Power Systems

This revision supersedes all previous versions. All details in this document are accurate at time of publishing. Product specifications may change without notice. For the latest product details and specifications, please visit our website - www.chromagen.com.au