

Hot water, efficiently



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



USES UP TO
**65%
LESS
ENERGY***

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* than a conventional water heater, whilst providing reliable hot water all day and night.

Midea heat pump by Chromagen

Chromagen Pty Ltd is a proudly Australian owned and operated company with a mission to provide sustainable environmental solutions for Australian consumers.

Founded in 1962, the Chromagen brand is now a major international player in thermal solar technology. Their world-class solar hot water systems are sold to over 35 countries and are recognised across the globe for their high quality, reliability and durability.

Today Chromagen Pty Ltd distributes a wide range of solar and energy solutions including the brilliant Midea heat pump. In Australia, Chromagen has a nation-wide presence with a network of offices, dealers and service agents across the country, so you can count on local experience, solutions and service.



*Energy use reduction based on CER (AS/NZS 4234) modelling, in Zone 3

Hot water on tap

Hot water is a basic household need and there are few things more soothing than relaxing in a warm shower or bath. There are however, few things more frustrating than running out of hot water just when you want it, but with a Midea heat pump, regardless of the weather, reliable hot water is always on tap.

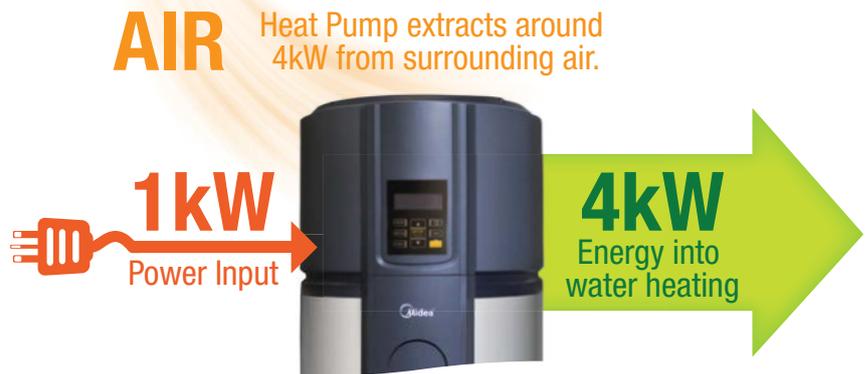
Heat pumps utilise an ingenious technology to efficiently transfer thermal energy directly from the surrounding air and into the water, and so do not rely on direct sun or fossil fuels to provide an energy source.

Did you know?

A heat pump is like an energy multiplier. From 1 kW of power input, it can create over 4 kW of output heat¹.

That's a performance efficiency of a remarkable 400%.

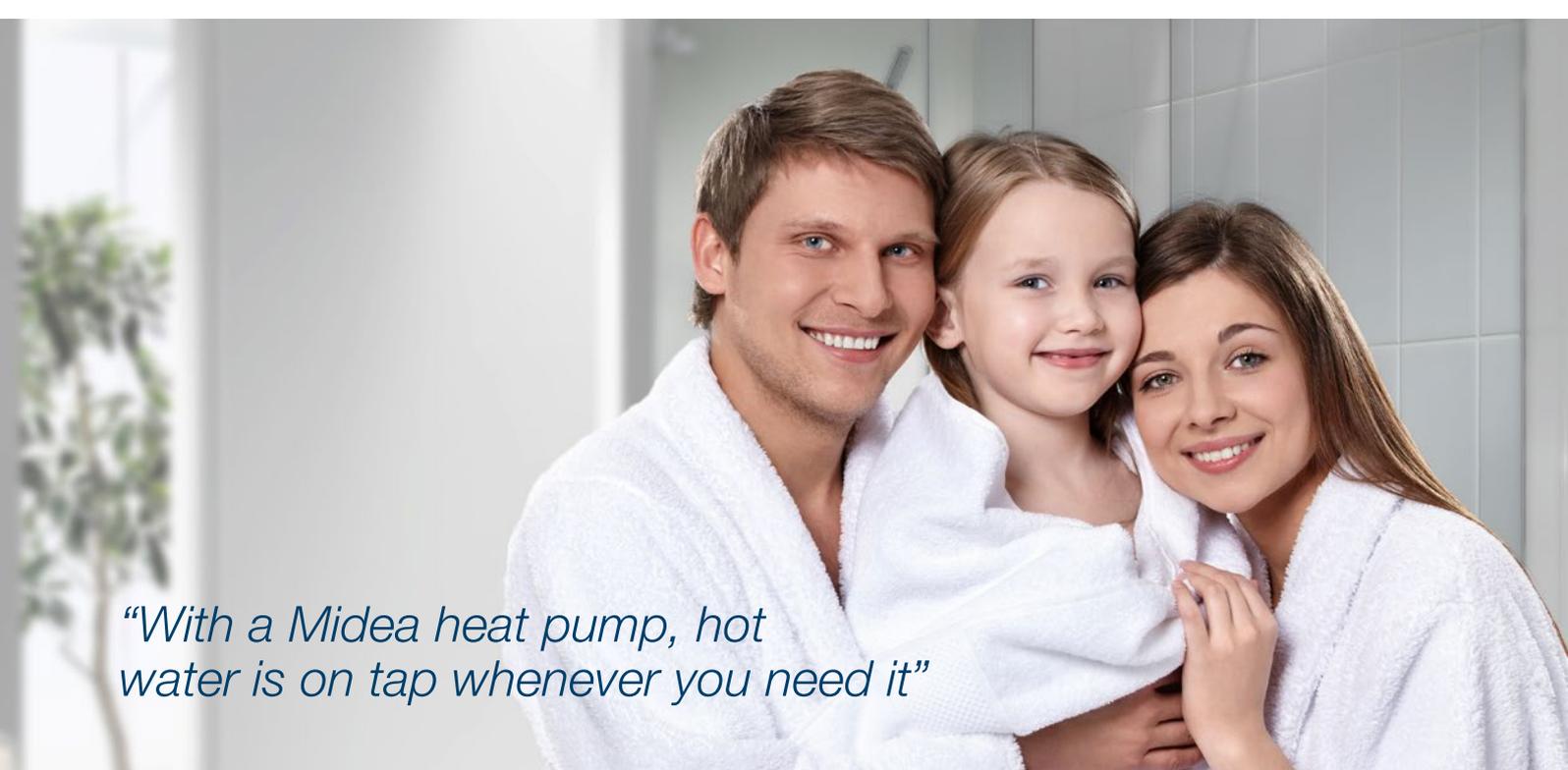
Where as conventional electric storage water heaters can only convert 1 kW of input power into 1 kW of output heat.



¹ Average COP is 3.72 based on AS/NZS 5125 test condition 2.

The heat pump advantage:

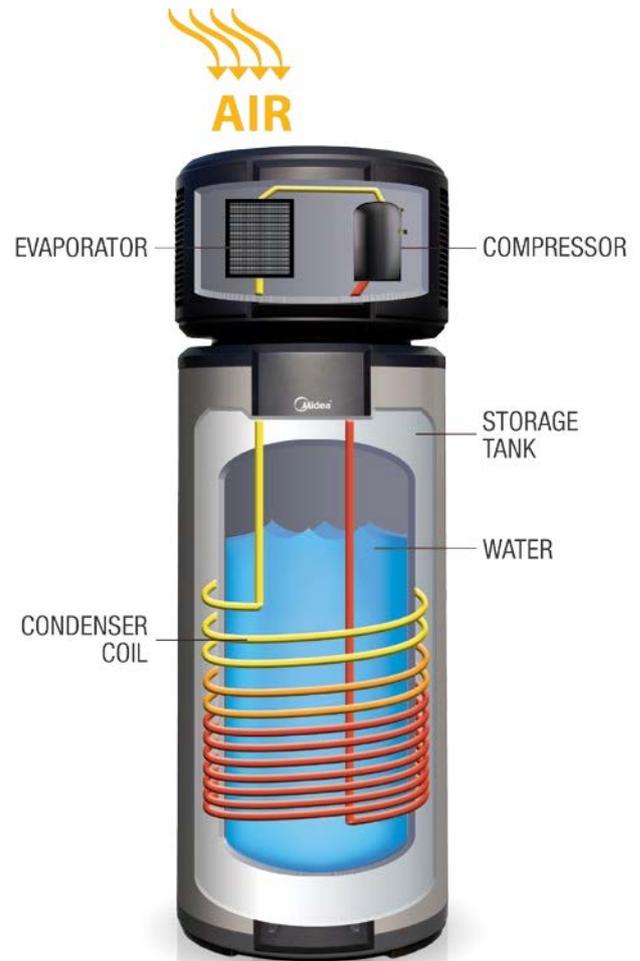
- Heat pumps produce significantly more heat energy than the power input, making them highly efficient water heaters
- Provide huge savings in running costs over an electric storage system
- Do not require roof top solar thermal collectors. For this reason heat pumps are ideal where solar water heaters are not viable
- The Midea heat pump is designed to provide fast and easy replacement of an existing electric storage hot water system
- Economical to purchase, install and run
- Eligible for Government Small-scale Technology Certificates (STCs) (Eligibility criteria apply)
- Eligible for VEECs (Victoria Only)



“With a Midea heat pump, hot water is on tap whenever you need it”

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



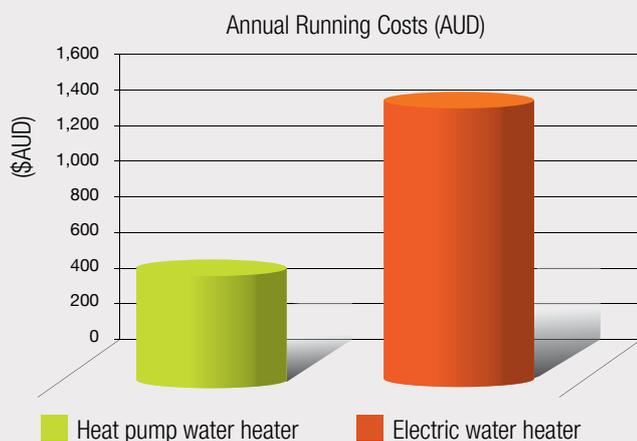
Small-scale Technology Certificates (STCs)

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

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.



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 CO₂ emissions by over 4 tonnes, and saving you up to \$930* per year.

SAVE UP TO
\$930*
 PER YEAR

*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

170L
Capacity

Suitable for
3-4
persons

5h:43m
Heat up time

30L/hr
Recovery Rate



HP170

280L
Capacity

Suitable for
3-6
persons

5h:13m
Heat up time

54L/hr
Recovery Rate



HP280



Smart Technology

With a Midea heat pump, set up and operation monitoring is made simple thanks to an amazing, user-friendly touch pad interface and clear Liquid Crystal Display.

Operational modes

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

Hybrid Mode: In Hybrid mode the heat pump & E-heater will 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

Special Features



Modern & Stylish Design
A stylish slimline single piece unit incorporates a top-mounted compressor with compact footprint to complement contemporary home design



Highly Efficient
Produces significantly more heat energy than the power input; saving on purchased energy and generating generous rebates



Large Operating Range
Utilising this smart technology the heat pump mode will operate with air temps as low as 5°C, whilst other modes can operate in ambient temps between -20°C & up to 45°C



Tank-Wrapped Condenser Coil
The tank-wrapped condenser coil applies efficient heat transfer to the water storage cylinder whilst preventing water contamination



Low Operating Noise
Operating at a very low 48 dBA will keep your neighbours happy and you will hardly know it's there!



User Friendly Controller
Provides intuitive operation and helpful functions such as temperature monitor, ON/OFF timer and safety lock



Built in Frost Protection
Built in frost protection mode protects the condenser from icing



Automatic Disinfection[^]
Periodically heats the stored water beyond its set temperature to prevent the growth of bacteria and legionella



Vacation Mode[^]
Conserves energy while the heat pump is idle, and automatically reactivates prior to the home owners return

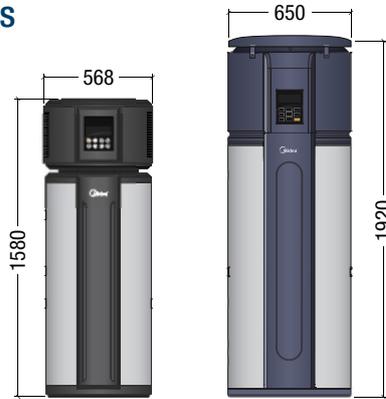


Power Outage Memory[^]
Settings are retained in the event of a power outage

Figures based on expected recovery times in Brisbane (Zone 3). Heat up time and recovery rate is based on AS/NZS 5125 test condition 2 test data.

□ Applicable to HP170 model only. ^ Applicable to HP280 model only.

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
Hot water heating capacity (W)	1500	3000
Max water temperature (°C)	65	60
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 diam (mm)	20	20
Cylinder Type	Vitreous Enamel	Vitreous Enamel
Outdoor resistance class	IP24	IP24

Residential Warranty

5 Year
Tank Cylinder
(3 Year Labour)

3 Year
Compressor
& Electronics

1 Year
Parts &
Labour



Why choose Chromagen?

- Chromagen Pty Ltd is Australian owned and operated
- Offices Australia-wide
- National dealer & service network
- A wide range of efficient hot water solutions to suit your lifestyle
- Committed to quality, innovation & energy-efficient solutions

Operating Modes Specifications

Heat Pump Model	HP170			HP280	
	Economy	Hybrid	E-heater	Operating mode	
Ambient temp	5 ~ 43 °C	-20 ~ 43°C	-20 ~ 43°C	-20 ~ 45 °C	
Heating Capacity (W)	1500	HP	E-heater	2150	3000
		1500	2150		
Cop	3.5	3.5	1	1	3.6
Rated input power (W) / current (A)	780 / 3.4	2780 / 12.1	2150 / 9.3	4300 / 18.7	
Refrigerant type/quantity	R134a / 0.8kg			R134a / 1.2kg	

Other efficient living products from Chromagen:

Solar Water Heaters | Eternity Continuous Flow Gas Water Heaters | Solar Power Systems | LED Lighting



Chromagen Pty Ltd | chromagen.com.au | info@chromagen.com.au | 1300 367 565

VICTORIA | QUEENSLAND | WESTERN AUSTRALIA | SOUTH AUSTRALIA | NEW SOUTH WALES | NORTHERN TERRITORY

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