

Hot water, efficiently



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



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

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

Chromagen Pty Ltd is proudly Australian owned and operated, with a mission to provide sustainable environmental solutions to Australian consumers and businesses. Today Chromagen Pty Ltd distributes a wide range of solar and energy solutions including the brilliant Midea Heat Pump.

Chromagen has a nation-wide presence with a network of offices, dealers and services agents across the country, so you can count on local experience, solutions and service.



*Energy use reduction based on CER (AS/NZS 4234) modelling

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.



Never before has there been such an advanced hot water system that includes helpful functions such as temperature monitor, ON/OFF timer, safety lock, auto-dimming LCD and power outage memory, all encompassed in a stylish and sophisticated design.

Plus, Chromagen's range of Midea Heat Pumps operate at a very low 48 dBA which will keep your neighbours happy and you will hardly know it's there!

Three operational modes

To ensure a constant and reliable supply of hot water no matter how cold the weather!

- ECO mode is the standard mode where the highest efficiency is achieved
- In Hybrid mode the heat pump & E-heater will operate together to ensure the set temperature is achieved
- 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 and stylish appearance suits current contemporary home design
- A one-piece streamline shape incorporates a top-mounted compressor and compact footprint for installation flexibility
- An automatic disinfection function 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 to ensure the perfect water temperature is acquired
- A tank-wrapped condenser coil applies efficient heat transfer to the water storage cylinder whilst preventing water contamination
- Built in frost protection mode protects the condenser from icing
- 25 Pa air outlet pressure enables ducted flueing up to 5 meters in length
- HP280 features optional cold air flueing into a house and warm air extraction from a roof space to improve energy efficiency



Tank-wrapped condenser coil

Heat Pump Selection

Model	Ideal for	Heat up time (hrs)	Recovery Rate (L/h)	1st hour delivery @ 60°C
Midea HP170	1 Bathroom, 2-3 Persons	6.58	25.83	195 Litres
Midea HP280	1.5 Bathrooms, 4-5 Persons	5.42	51.67	331 Litres

Based on standard heating capacity and 50°C temperature rise.

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.

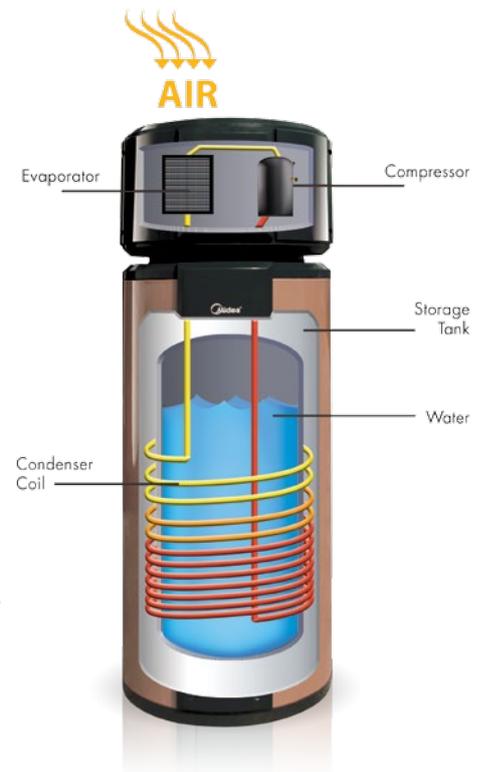
Heat pumps utilise an ingenious technology to efficiently transfer thermal energy directly from the surrounding air and into water, and so do not rely on the sun or fossil fuels to provide a constant energy source.

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 expansion and continues back to the evaporator for the process to start again

The Heat Pump advantage:

- Heat pumps produce more heat energy than the power input, normally 3:1 times, making them highly efficient
- Heat pumps do not require roof top thermal collectors. For this reason heat pumps are ideal where roof top solar systems are not suitable
- Chromagen's Midea heat pump is designed to provide a fast and easy replacement of an existing electric storage hot water system
- Huge savings in running costs over an electric storage system
- Economical to purchase, install and run
- Eligible for Government rebates and incentives (Eligibility criteria apply)



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



Small scale Technology Certificates (STC's)

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.

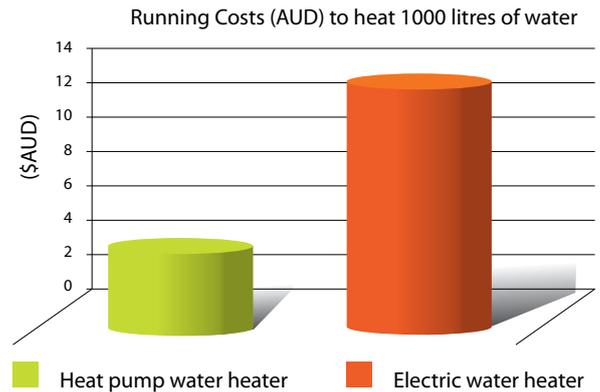
Energy efficiency

Environmentally friendly and a significant cost saver means Chromagen's Midea Heat Pump is the right choice for you.

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 a 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 and can save up to \$775* per year.



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



*Estimation based on the HP280 STC's in ZONE 4, obtained from independent laboratory tests by the Clean Energy Regulator (CER) and a retail electricity cost of \$0.25c per kWh.



Midea Heat Pump Product Specifications

Heat Pump Model	Midea HP170	Midea HP280	Residential Warranty		
Nominal volume capacity (L)	170	282	5 Years tank		
Voltage / Hz / Phase	220-240 / 50 / 1		2 Years Compressor & Electronics		
Element input power (W)	2150	3000	1 Year Parts & Labour		
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			
Pipe connection diam (mm)	20	20			
Outdoor resistance class	IP24	IP24			

Dimensions	Midea HP170	Midea HP280
Height (mm)	1580	1920
Diameter (mm)	568	650
Height to water inlet (mm)	655	217
Height to water outlet (mm)	949	1197
Net weight (Kg)	90	117

Running modes	Midea HP170			Midea HP280
	Economy	Hybrid	E-heater	Operating mode
Ambient temp	5 ~ 43 °C	-20 ~ 43°C		-20 ~ 45 °C
Heating Capacity (W)	1500	HP 1500	E-heater 2150	2150 3000
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

Specifications are subject to change without notice.

Why choose Chromagen?

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



Other Efficient Living products from Chromagen:

Solar Hot Water Systems | Eternity continuous flow gas hot water | Solar Electricity Systems



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