Hot Water, Efficiently

Midea® Hot Water Heat Pumps
Make savings appear out of thin air with a Midea heat pump

**Features**

- Modern & Stylish: A sleek design with a single-coil wrap incorporating a top-mounted compressor with compact footprint.
- Handy Controller: Providing intuitive operation & helpful settings, ensuring safety & peace of mind.
- Built in Frost: Protecting the condenser from icing for complete peace of mind.
- Auto Disinfection: Periodically disinfecting the water beyond its set temp to prevent the growth of bacteria and legionella.
- Tank-Wrapped Condenser Coil: For efficient heat transfer & preventing water contamination.
- Low Operating Noise: Operating at a very low 45 dB(A) you will hardly know it’s there!
- Power Outage Memory: Settings are retained in the event of a power outage.

**Smart Technology**

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

**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.

**How it Works**

1. A fan draws in air, containing heat energy, across the evaporator.
2. The evaporator turns the liquid refrigerant into a hot 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.

**Energy Usage**

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. It uses significantly less heat energy than the power input, saving on purchased energy and creating over 4 kW’s of output heat.

**Heat Pump Selection**

- HP170
  - 170L Capacity
  - No. of Persons: 1
  - Coefficient of Performance (COP): 4.5 at 17°C, 4°C & 3°C
  - 1 Energy use reduction based on CER (AS/NZS 4234) modelling, in Zone 3.

- HP280
  - 280L Capacity
  - No. of Persons: 2
  - Coefficient of Performance (COP): 4.5 at 17°C, 4°C & 3°C

**Did you know?**

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

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

Residential Warranty

- **5 Year**
  - Tank Cylinder
    - (3 Year Labour)
- **3 Year**
  - Compressor
    - (1 Year Labour)
- **1 Year**
  - Electronics, Parts & Labour

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

Hot Water Solutions by Chromagen

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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