

# Hot Water, Efficiently



**Midea**  
Hot Water Heat Pumps

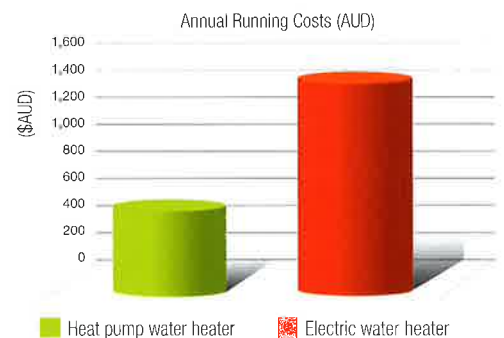


# Providing Hot Water, Efficiently



USE UP TO **65% LESS ENERGY**<sup>1</sup>

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



## Features



### No Solar Panels Required

Does not require roof top solar thermal collectors. Ideal for where solar water heaters are not viable



### Government Rebates

Eligible for Government Small-scale Technology Certificates (STCs)



### Highly Efficient

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



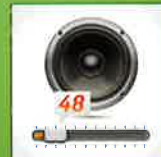
### Modern & Stylish Design

Stylish slimline single piece unit incorporating a top-mounted compressor with compact footprint



### User Friendly Controller

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



### Low Operating Noise

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

GRAPH: \*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.



## Energy Efficiency

A heat pump is like an energy multiplier. From 1 kW of power input, it can create over 4 kW's of output heat<sup>2</sup>. 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.

**AIR** Heat Pump extracts around 4kW from surrounding air.



## How it Works

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.

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

## 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<sup>1</sup>

**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



<sup>1</sup> Energy use reduction based on GER (AS/NZS 4234) modelling, in Zone 3; <sup>2</sup> Average COP is 3.72 based on AS/NZS 5125 test condition 2. <sup>3</sup> Applicable to HP170 model only. Images representable only - actual product configuration may differ.

## Product Specifications



## Product Sizing

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

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)	1600	3000
Max water temperature (°C)	65	80
Max rated input power (W) / current (A)	2780 / 12.1	4300 / 18.7
Relief valve pressure (kPa)	1000	1000
Noise level (dBA)	46	43
Net Weight (kg)	90	145
Pipe connection diameter (mm)	DN20	DN20
Cylinder Type	Vitreous Enamel <sup>1</sup>	Vitreous Enamel
Outdoor resistance class	IP24	IP24
Operating Mode Function	Manual	Automatic
Refrigerant type/quantity	R134a / 0.8kg	R134a / 1.2kg



## 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 pump 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.

Green Logic has over 15 years experience in the solar industry and specialise in the supply and service of energy efficient hot water and solar power systems in Western Australia. We are a local company that prides itself on delivering a high level of service and only high quality products to our customers.



OVER 15 YEARS  
EXPERIENCE



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