Chromagen™

Efficient Hot Water

Midea

All-in-one Heat Pump

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 75% less energy than a conventional water heater, whilst providing reliable hot water all day and night.

USES UP TO
75%
LESS
ENERGY

Hot water is a basic household need and there are few things more soothing than soaking 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 this advanced range of heat pump hot water systems, reliable, environmentally-friendly hot water is on tap.

Features

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

Wide Operating Range
Operates as low as 5°C in ECO mode & between -20°C & 47°C with additional E-heat boost

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

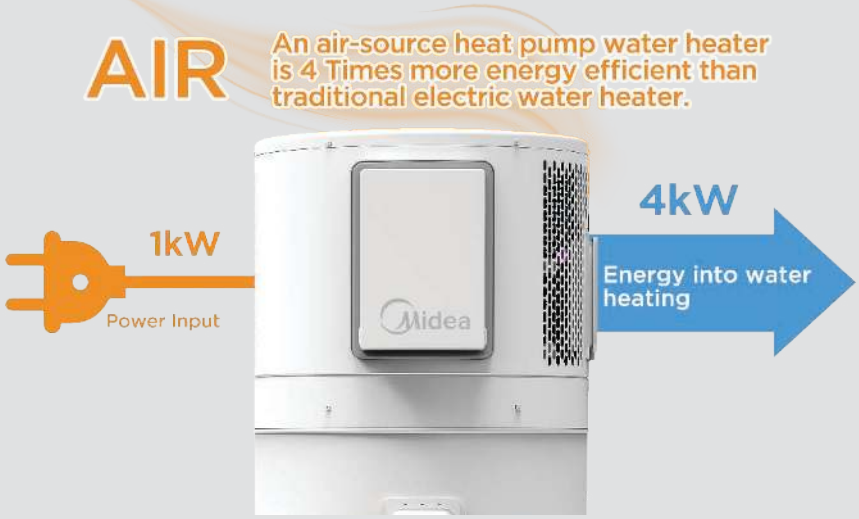
Micro Channel Heat Exchanger
For efficient heat transfer & preventing water contamination

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

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 1kW of power input, it can create over 4kW's of output heat. That's a performance efficiency of a remarkable 400%. Where as conventional electric storage water heaters can only convert 1kW of input power into a maximum of 1kW of output heat.

Take full control

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

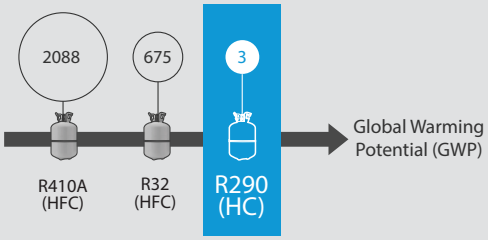
Economy Mode (Heat Pump Only)
The standard mode where the highest efficiency is achieved.

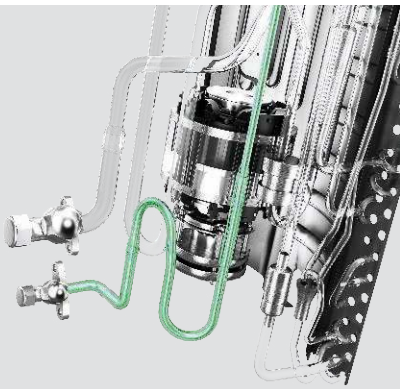
Hybrid Mode
The Heat Pump & E-heater operate together to ensure the set temperature is achieved.

E-Heater Mode
When the air temperature drops to below -7°C, the heat pump will automatically select E-heater mode for an electric hot water boost.

Environmentally Friendly

This heat pump uses R290 which is one of the most environmentally friendly refrigerants, with a extremely low Global Warming Potential (GWP) of only 3.





How it works

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

Specs

Application	Residential	Residential	Commercial
Model Reference	RSJ-15/190RDN7-L2	RSJ-23/300RDN7-L2	RSJ-23/300RDN7-L2-C
Storage size (L)	170	280	280
Running ambient temp - HP only (°C)	-7 ~ 43	-7 ~ 43	-7 ~ 43
Running ambient temp - HP & E-Heater (°C)	-20 ~ 47	-20 ~ 47	-20 ~ 47
Out water Temp. (°C)	Default 60°C, 55°C~70°C	Default 60°C, 55°C~70°C	Default 60°C, 55°C~70°C
Power supply (Ph / V / Hz)	1 / 220~240 / 50	1 / 220~240 / 50	1 / 220~240 / 50
Capacity - HP Only (kW)	1.8	2.5	2.5
COP (kW/kW)	4.2	4.6	4.6
Max. current (A)	13.0	13.8	18.7
Dimension (D×H) (mm)	552 x 552 x 1692	650 x 650 x 1962	650 x 650 x 1962
Net/gross weight (kg)	95.5 / 119	138 / 170	138 / 170
Sound pressure level (dB(A))	47	48	48
Refrigerant type/quantity (kg)	R290 / 0.29	R290 / 0.42	R290 / 0.42
System protection	TCO, PTR valve, automatic defrosting, over-load protector, high-pressure protector		
Air flow (m3/h)	540	830	830
Water inlet pipe (mm)	DN20	DN20	DN20
Water outlet pipe (mm)	DN20	DN20	DN20
Drainage pipe (mm)	DN20	DN20	DN20
PT valve joint (mm)	DN15	DN15	DN15
Max. pressure (kPa)	850	850	850
E-heater (kW)	2	2	3

Suitable for external installation only

Warranty

Tank Cylinder	Condenser	All other parts & Labour
5 years (3 years labour)	3 years (1 year labour)	1 year

WaterMark

Certified Product Australian Standard AS/NZS 2712 Lic. SMKP21791

CE

Additional warranties apply for Solar Victoria customers, please refer to separate warranty details online at chromagen.com.au/warranty

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Efficient Water Heaters | Solar Power Solutions | Air Conditioning

This revision supersedes all previous versions. All details in this document are accurate at time of publishing. Product specifications may change without notice. Visuals shown are representative and are to be used as a guide only. For the latest product details and specifications, please visit our website

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