



advanced energy efficiency solutions for australian conditions

# enviroheat

## HEAT PUMP WATER HEATER

The ENVIROHEAT hot water heat pump represents a leap forward in energy efficiency and is now **available in Australia!**

UP TO  
**71%**  
CHEAPER  
TO RUN





## ENVIROHEAT – ENERGY EFFICIENT HOT WATER HEATER

### 5 YEAR REPLACEMENT WARRANTY

*If your tank or  
mechanical components  
fail within 5 years,  
we will replace it with a  
BRAND NEW UNIT.\**

The ENVIROHEAT energy efficient hot water heaters use heat pump technology, a leap forward in energy efficiency and is now available in Australia. Produced by the world's largest appliance manufacturer, the system was initially introduced into Europe over a decade ago and has proven performance in temperatures as low as -7°C.

It offers the best performance of any system in its class with up to a massive 71% saving in energy when compared to a conventional water heater. The ENVIROHEAT

system has undergone rigorous testing and has been certified by the Australian Government Clean Energy Regulator. ENVIROHEAT's inclusion to the CER Register allows you to claim generous government rebates and dramatically reduces your investment.

The ENVIROHEAT HP series has an advanced control system that is feature packed and above all, easy to use. It can be programmed to maximize the use of roof top solar power systems whilst not compromising a plentiful supply of steaming hot water when you need it. The automatic sanitization feature ensures that your family is safe from legionella and other water borne bacteria.

The combination of whisper quiet operation, smart controls, superior UV protection and generous government rebates makes ENVIROHEAT the natural choice for an energy efficient home.

\* Conditions apply, please consult the  
Enviroheat warranty policy.

# The Product



- ✓ The ENVIROHEAT heat pump is manufactured by HAIER, the worlds largest manufacturer of white goods in the world.
- ✓ Southern Cross Water Heaters, a subsidiary of Energie Group has been granted exclusive licence for the Australian market.
- ✓ The ENVIROHEAT heat pump is the most technologically advanced system of its kind.
- ✓ The ENVIROHEAT heat pump has been exported to Europe for over 8 years and sold domestically in China for over 10 years.
- ✓ The ENVIROHEAT heat pump complies with all relevant Australian Standards and has been admitted into the Clean Energy Regulators register of air source heat pumps. It is eligible for 29 STC's, among the highest in its class.
- ✓ A combination of a high quality, competitive price point and attractive styling makes The ENVIROHEAT heat pump the product of choice in the Australian market.

**UP TO 71% CHEAPER TO RUN**

**NO FIXED WIRING**  
Simply plug the unit into a 15 Amp power point, no fixed wiring required.

**DUAL ANODES**  
Twice the corrosion protection with dual full length anodes. Reduces costly maintenance and gives peace of mind in hard water areas.

**MICRO-CHANNEL CONDENSER**  
Unique micro-channel condenser has a larger contact surface area for faster heat transfer and exceptional performance.

**HEAT PUMP COMPRESSOR**  
Specifically designed for heat pumps to maximise operating efficiency and service life.

**BASE HEAT EXCHANGER**  
The unique base heat exchanger ensures total tank heating to maximize hot water delivery and efficiency.

**ECO POWER**

**LOW NOISE**

**SMART BOOST**

**SMART VACATION**

**HIGH EFFICIENCY**

**ANTI FREEZE**

**FROST PROOF**

**OVERHEAT PROOF**

**LEGIONELLA PROOF**

**MICRO CHANNEL**

# Why choose enviroheat ?



**Value for money** – The Enviroheat system is significantly **less expensive** than other products in its class.



**Warranty** – The Enviroheat system has a **5 year replacement warranty**, the most generous warranty of all available systems. Warranty service can be carried out by the installer or maintenance staff.



**Features** – The Enviroheat system has features that many other brands consider options. **Dual anodes**, timers and auxiliary element are all standard.



**Robust Design** – The Enviroheat system has been available in Europe for over a decade and meets or exceeds all relevant Australian Standards. Dual anodes as standard reduce future maintenance and extends product life.



**Optional damage resistant case** – The Enviroheat system has an optional moulded polyethylene damage resistant cover.

**Installation** – The Enviroheat system is easy to install and is not hard wired.

*Compare the market...*

## Damage Resistant Casing



Energie Group has designed a moulded polyethylene casing that will resist impact and stop tampering. The locally made, 8mm thick UV resistant cover has been specially designed to meet demanding requirements of industrial applications.





### **Casing**

The Quantum system casing is formed from punched thin gauge steel sheet and is susceptible to denting during installation unlike the Enviroheat which is formed from thicker powder-coated galvanized steel. The Enviroheat plastic components are made from UV resistant painted plastic that have undergone accelerated UV resistance testing.

### **Tank**

The Quantum system utilizes a single anode which has some issues in hard water areas. The Enviroheat has 2 anodes as standard which doubles the time between anode changes. The Quantum system has no auxiliary element which so there is no backup if the refrigeration system fails.

### **Refrigeration system**

The Quantum system uses a copper coil wrapped around the tank which has poor surface contact which limits heat transfer. The Enviroheat uses a micro channel heat exchanger made from a titanium alloy as well as a copper base heat exchanger which improves efficiency of heat transfer by 31%. The Quantum system uses a mechanical refrigerant expansion device which has limited responsiveness to load changes. The Quantum system does not come standard with a timer function or auxiliary element, the Enviroheat comes standard with these features. The Quantum system uses an uncommon, flammable refrigerant. This is a safety issue during operation and servicing as well as an issue with availability of refrigerant gas in remote areas. The Quantum does not have an active (reverse cycle) defrost system and as such can have freezing issues in colder areas.

### **Installation and Operation**

The air crossflow design of the Quantum necessitates a large clearance from side walls to stop short cycling of air. The top discharge airflow design of the Enviroheat allows the system to be installed with minimal clearance on both sides and back. The Quantum system needs to be hard wired into an isolator. The Enviroheat is connected electrically with a 15amp plug making maintenance easier.

### **Warranty**

Quantum - 5 years tank, 2 years electrics and refrigeration.

Enviroheat – 5 year REPLACEMENT warranty on tank and refrigeration. Enviroheat warranty service in regional areas can be done by the installer with approval from Energie Group.

### **Availability**

Quantum distributes direct and through plumbers. Enviroheat is available nationally through dealer network.

### **Cost and Rebates**

Quantum wholesale value is significantly higher than Enviroheat. In zone 3, Quantum has an average of 29.6 STC's across the range compared to 29 STC's for the Enviroheat range.





### **Casing**

The top section of the Evo Heat system casing is vacuum formed plastic with no UV coating which tends to suffer from chalking and ultimate failure due to sun damage. The plastic components are made from UV resistant painted plastic that have undergone accelerated UV resistance testing.

### **Tank**

The Evo Heat system utilizes a single anode which has some issues in hard water areas. The Enviroheat has 2 anodes as standard which doubles the time between anode changes. Evo Heat offers a 170ltr and 270ltr system, Enviroheat has a 200ltr and 250ltr system.

### **Refrigeration system**

The Evo Heat system uses a copper coil wrapped around the tank which has poor surface contact which limits heat transfer. The Enviroheat uses a micro channel heat exchanger made from a titanium alloy as well as a copper base heat exchanger which improves efficiency of heat transfer by 31%.

The Evo Heat system uses a mechanical refrigerant expansion device which has limited responsiveness to load changes. The Enviroheat uses an electronic expansion device controlled by the control system, this improves performance and efficiency.

### **Installation and Operation**

The air crossflow design of the Evo Heat necessitates a large clearance from side walls to stop short cycling of air. The top

discharge airflow design of the Enviroheat allows the system to be installed with minimal clearance on both sides and back. The Evo Heat needs to be hard wired into an isolator. The Enviroheat is connected electrically with a 15amp plug making maintenance easier.

### **Warranty**

Evo Heat - 5 years tank, 2 years electrics and refrigeration.

Enviroheat – 5 year REPLACEMENT warranty on tank and refrigeration.

Enviroheat warranty service in regional areas can be done by the installer with approval from Energie Group.

### **Availability**

Evo Heat has good distribution through The Evo Heat, iStore and Phnx. Enviroheat is available nationally through dealer network.

### **Cost and Rebates**

Evo Heat's wholesale value is significantly higher than Enviroheat. In zone 3, Evo Heat has an average of 27.5 STC's across the range compared to 29 STC's for the Enviroheat range.





### **Casing**

The Stiebel system casing is formed from punched thin gauge steel sheet and is susceptible to denting during installation unlike the Enviroheat which is formed from thicker powder-coated galvanized steel. The Enviroheat plastic components are made from UV resistant painted plastic that have undergone accelerated UV resistance testing.

### **Tank**

The Stiebel system utilizes a single anode which has some issues in hard water areas. The Enviroheat has 2 anodes as standard which doubles the time between anode changes. Stiebel only has a 300ltr system, Enviroheat has a 200ltr and 250ltr system.

### **Refrigeration system**

The Stiebel system uses a copper coil wrapped around the tank which has poor surface contact which limits heat transfer. The Enviroheat uses a micro channel heat exchanger made from a titanium alloy as well as a copper base heat exchanger which improves efficiency of heat transfer by 31%. The Stiebel system uses a mechanical refrigerant expansion device which has limited responsiveness to load changes. The Stiebel system does not come standard with a timer function or auxiliary element, the Enviroheat comes standard with these features.

### **Installation and Operation**

The air crossflow design of the Stiebel necessitates a large clearance from side walls to stop short cycling of air. The top discharge airflow design of the Enviroheat allows the system to be installed with minimal clearance on both sides and back. The Stiebel system needs to be hard wired into an isolator. The Enviroheat is connected electrically with a 15amp plug making maintenance easier.

### **Warranty**

Stiebel - 5 years tank, 2 years electrics and refrigeration.

Enviroheat – 5 year REPLACEMENT warranty on tank and refrigeration. E

Enviroheat warranty service in regional areas can be done by the installer with approval from Energie Group.

### **Availability**

Stiebel has good distribution through plumbing merchants. Enviroheat is available nationally through dealer network.

### **Cost and Rebates**

Stiebel's wholesale value is significantly higher than Enviroheat. In zone 3, Stiebel has an average of 28 STC's across the range compared to 29 STC's for the Enviroheat range.







#### **Casing**

The plastic components of the Midea system casing are unpainted injection moulded plastic with no UV coating which tends to suffer from chalking and ultimate failure due to sun damage. The Enviroheat systems plastic components are made from UV resistant painted plastic that have undergone accelerated UV resistance testing. The control panel on the Midea system suffers from sun damage. The Enviroheat system has a sturdy extruded aluminium cover.

#### **Tank**

The Midea system utilizes a single anode which has some issues in hard water areas. The Enviroheat has 2 anodes as standard which doubles the time between anode changes. Midea has a 170ltr and 280ltr system, Enviroheat has a 200ltr and 250ltr system.

#### **Refrigeration system**

The Midea system uses a copper coil wrapped around the tank which has poor surface contact which limits heat transfer. The Enviroheat uses a micro channel heat exchanger made from a titanium alloy as well as a copper base heat exchanger which improves efficiency of heat transfer by 31%.

#### **Installation and Operation**

The air crossflow design of the Midea necessitates a large clearance from side walls to stop short cycling of air. The top discharge airflow design of the Enviroheat allows the system to be installed with minimal clearance on both sides and back. The Midea system needs to be hard wired into an isolator. The Enviroheat is connected electrically with a 15amp plug making maintenance easier.

#### **Warranty**

Midea- 5 years tank, 3 years refrigeration.

Enviroheat – 5 year REPLACEMENT warranty on tank and refrigeration.

Enviroheat warranty service in regional areas can be done by the installer with approval from Energie Group.

#### **Availability**

Midea has good distribution through dealers, Bunnings and direct sales through Chromagen. Enviroheat is available nationally through dealer network.

#### **Cost and Rebates**

Midea's wholesale value is comparable with Enviroheat. In zone 3, Midea has an average of 29 STC's across the range compared to 29 STC's for the Enviroheat range.





#### **Casing**

The Rinnai system casing is formed from punched thin gauge steel sheet and is susceptible to denting during installation unlike the Enviroheat which is formed from thicker powder-coated galvanized steel. The Enviroheat plastic components are made from UV resistant painted plastic that have undergone accelerated UV resistance testing.

#### **Tank**

The Rinnai system utilizes a single anode which has some issues in hard water areas. The Enviroheat has 2 anodes as standard which doubles the time between anode changes. Rinnai has a 250ltr and 315ltr system, Enviroheat has a 200ltr and 250ltr system.

#### **Refrigeration system**

The Rinnai system uses a plate heat exchanger with a water pump which can suffer from plating and premature failure due to hard water scaling. The Enviroheat uses a micro channel heat exchanger made from a titanium alloy as well as a copper base heat exchanger which improves efficiency of heat transfer by 31%. The Rinnai system uses a highly flammable R290 (propane) refrigerant which, due to limited applications, is not widely available. The Enviroheat uses R134a refrigerant which is non flammable and widely available.

#### **Installation and Operation**

The air crossflow design of the Rinnai necessitates a large clearance from side walls to stop short cycling of air. The top discharge airflow design of the Enviroheat allows the system to be installed with minimal clearance on both sides and back. The Rinnai system needs to be hard wired into an isolator. The Enviroheat is connected electrically with a 15amp plug making maintenance easier.

#### **Warranty**

Midea- 5 years tank, 3 years refrigeration.

Enviroheat – 5 year REPLACEMENT warranty on tank and refrigeration.

Enviroheat warranty service in regional areas can be done by the installer with approval from Energie Group.

#### **Availability**

Rinnai has good distribution through plumbing merchants. Enviroheat is available nationally through dealer network.

#### **Cost and Rebates**

Rinnai's wholesale value is significantly higher than Enviroheat. In zone 3, Rinnai has an average of 27.5 STC's across the range compared to 29 STC's for the Enviroheat range.



 Residential installation.



# Energie Group Australia

Energie Group is a company with a long pedigree. We started in the solar water heater business 28 years ago working with one of the pioneering companies in the field. Forming alliances with premier solar companies located in countries as diverse as Holland, Australia, China, Germany & Italy and focusing on designing the best and most appropriate systems – and only directly manufacturing those items and components that could not be better sourced elsewhere. We learnt our craft well and over time, we came to understand what was good and what wasn't, what worked and what didn't, what would last and what wouldn't.

We formed CapAus, an alliance with one of Europe's premier solar companies and designed a range of solar hot water systems suited to Australian conditions. Over time we extended our portfolio and expanded into the international market. In November 2019, after 3 years research, we introduced a range of heat pump water heaters under the Enviroheat brand. The ENVIROHEAT hot water heat pump represents a leap forward in energy efficiency.

With corporate offices in the major Australian capital cities, warehouse and assembly facilities in Perth and Melbourne, a national installation and service network and a life-time of experience, we're geared for growth.

Visit us at <https://energiegroup.com.au/>

