

AUX



INTELLIGENT LIVING SOLUTIONS

AI 290 Thermal Heat Pumps



Environmentally Safe Refrigerant



Introducing our R290 Heat Pump, a standout solution in environmental responsibility. By employing propane (R290) with an ultra-low Global Warming Potential (GWP) of 3, it significantly cuts carbon emissions, reducing your environmental footprint while ensuring top-notch energy efficiency.

Compliant with strict environmental regulations and engineered for durability, it offers both ethical and legal peace of mind, providing exceptional comfort with minimal environmental impact. Join us in embracing sustainability with the R290 Heat Pump, where environmental consciousness and modern comfort intersect effortlessly.

Environmentally **Friendly**

OTP=0

Neutral for
the ozone layer

GWP=3

Low impact
on global warming



Very high
water outlet
temperature



Super
high
Efficiency



Low
noise
level



A renewable energy source

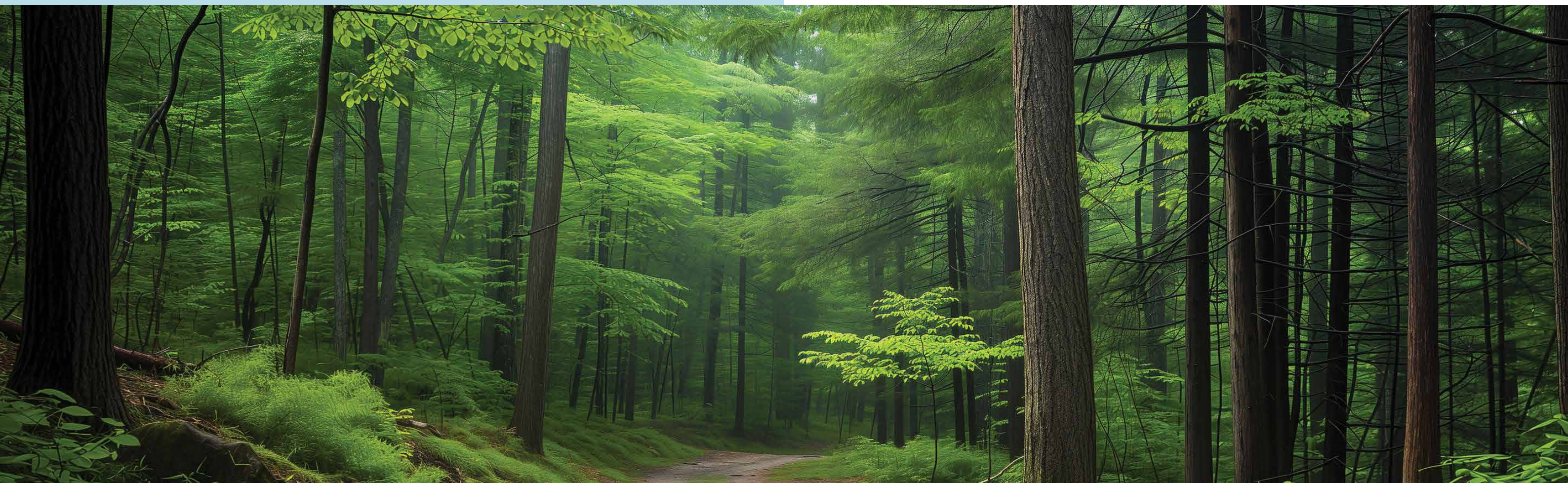
The AUX Air To Water Heat Pump outdoor unit harnesses up to 75% of its energy from the ambient air, enabling it to provide heating, cooling, and hot water, with the remaining energy supplemented by electricity.

This system relies on a compressor and refrigerant to transfer heat from the air to water, effectively heating it to meet household needs. The AUX R290 Monobloc Heat Pump represents a modern solution for maintaining optimal temperatures and supplying hot water affordably and sustainably.

By leveraging heat transfer rather than energy generation, this system exemplifies the latest advancements in eco-friendly heating solutions, utilizing a renewable and cost-free energy source: the air.



The Heat Pump KEYMARK is a voluntary, independent, European certification mark for all heat pumps. It certifies space heating performance, sound power level, domestic hot water performance as well as operating tests





Product Lineup

Capacity		4kW	6kW	8kW	10kW	12kW	14kW	16kW
Outdoor Units	Appearance							
	Power Type	220-240/1/50		220-240/1/50		380-415/3/50		
	Size	315x545x800		395x805x970		420x860x900		
LWT(35°C)		A+++	A+++	A+++	A+++	A+++	A+++	A+++
LWT(55°C)		A+++	A+++	A+++	A+++	A+++	A+++	A+++
SCOP(7°C)		5.15	4.9	5	4.7	4.8	4.5	4.5
SEER(35°C)		5.5	5.1	5.15	4.75	4.5	3.6	3.9

Why Choose
AI R290 Thermal Heat Pumps



Energy Efficiency



Refrigerant Gas



Silent Operation



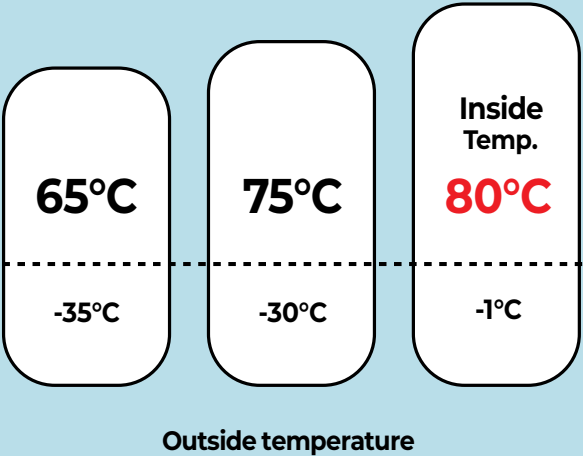
WIFI Control



Easy Installation



Multiple Solutions

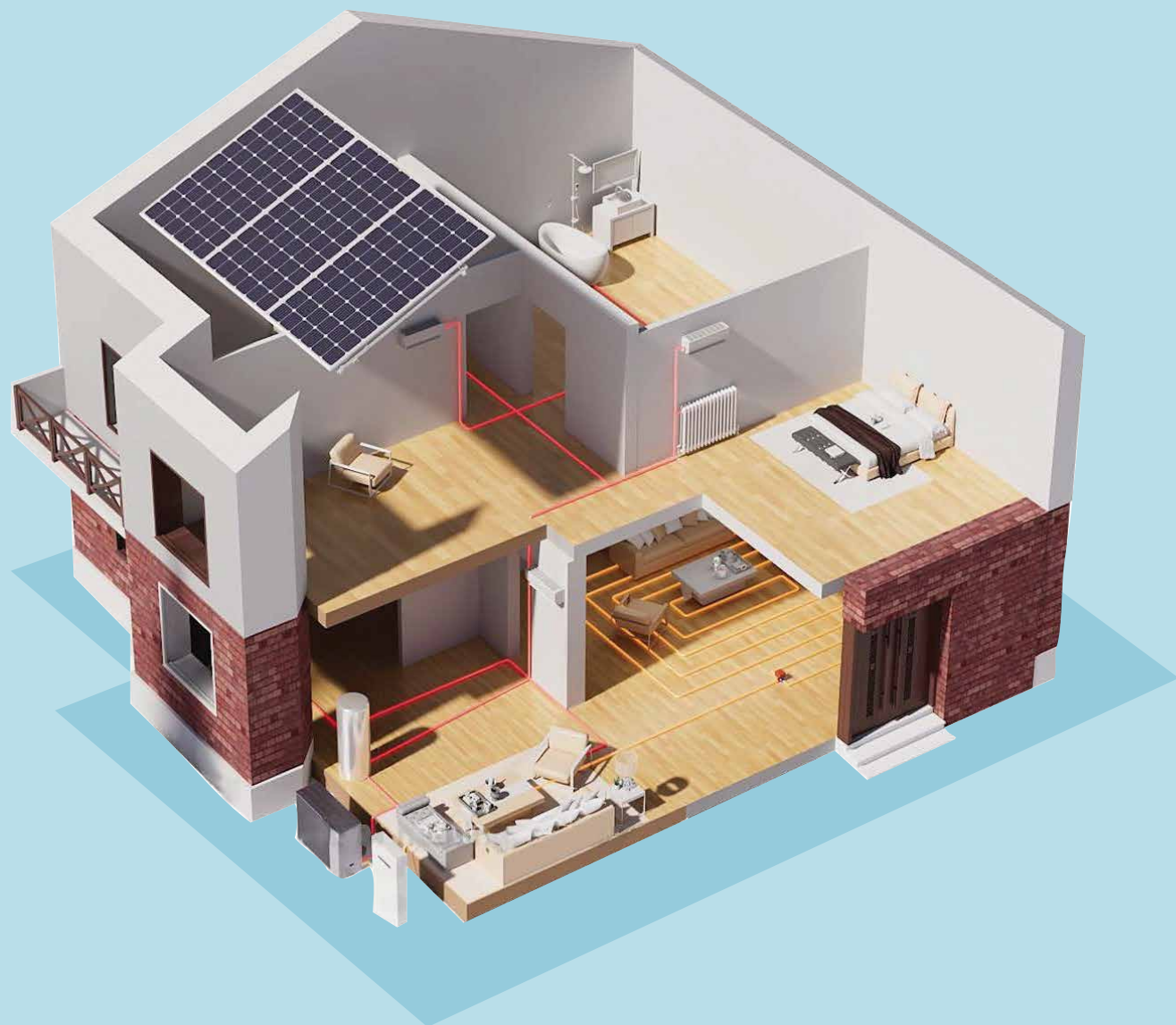


Very High Water
Temperature

The System includes the Fast Hot Water Function, which when selected, the heat pump and hot water tank are electrically heated at the same time, giving you instant hot water.

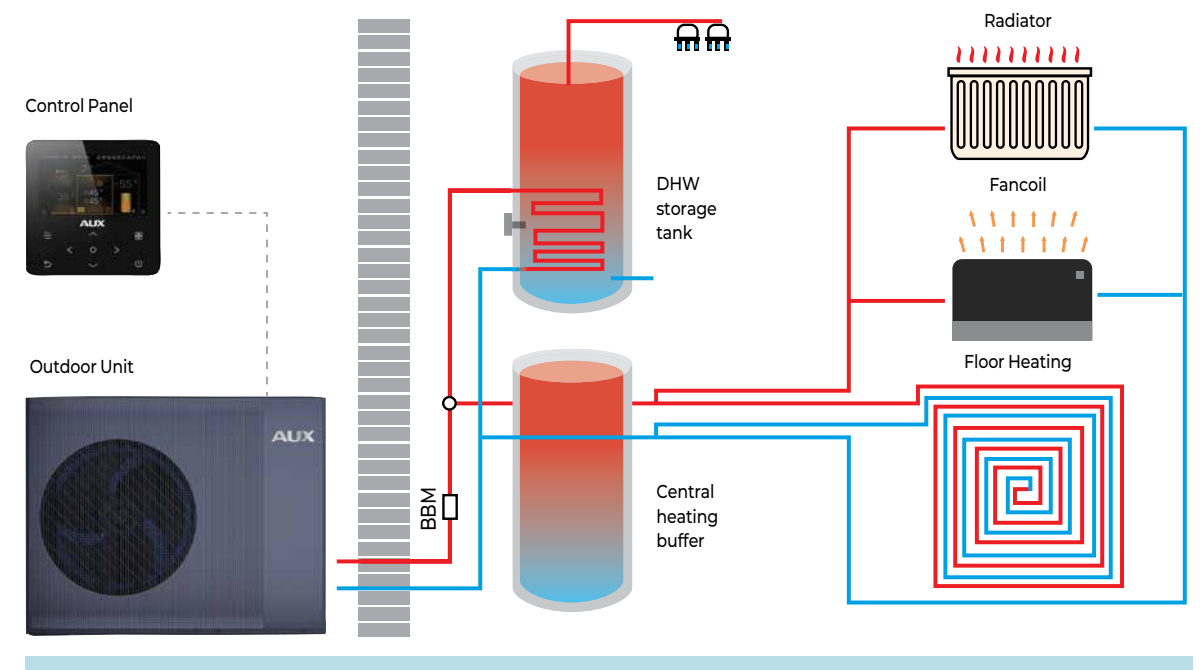
Flexible Design Options

The AUX AI Thermal System is ideal for delivering heating, domestic hot water and cooling for new build and low energy houses.



Heat Pump **Design Solutions**

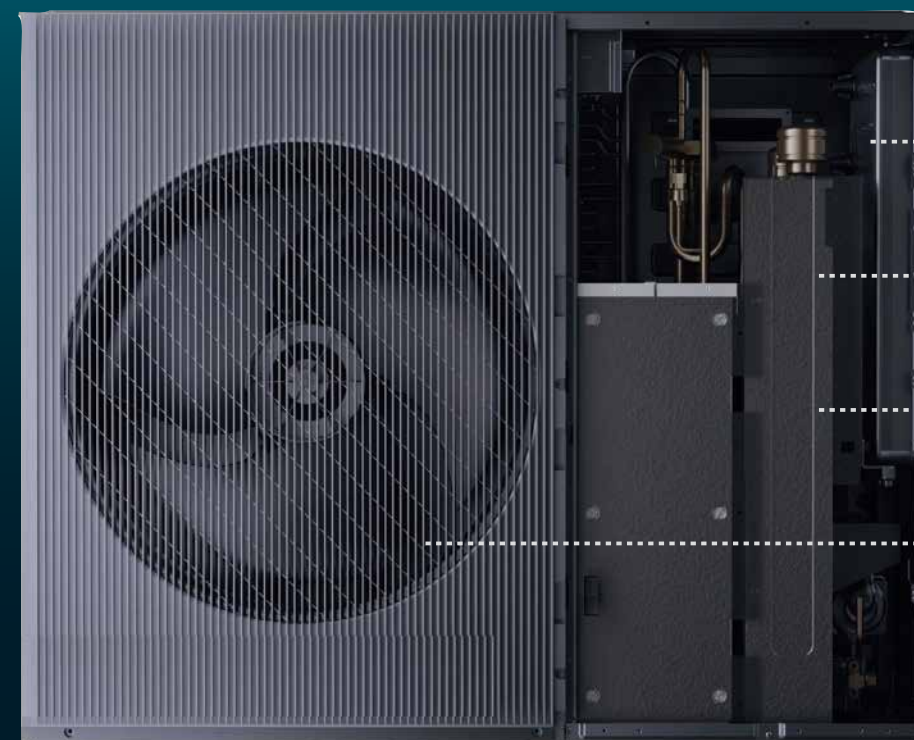
THE AUX ATW Unit can cover every household need in terms of climatization: heating, cooling and domestic hot water production. Its compact size and easy installation make it a unit suitable for new constructions. It is compatible with floor heating, radiators and fan coils. When combined with a suitable DHW tank, any model can also produce hot water.



Run up to **8 Units in Parallel**



A fusion of
efficiency,
functionality,
elegance and
silence



Full DC Inverter Technology



DC Inverter Compressor

The DC inverter compressor ensures precise temperature control and optimal energy efficiency in our heat pump.



DC Inverter Fan Motor

The DC fan motor enhances energy efficiency and reduces noise levels, ensuring comfort for users.



Fan Blade Patented Design

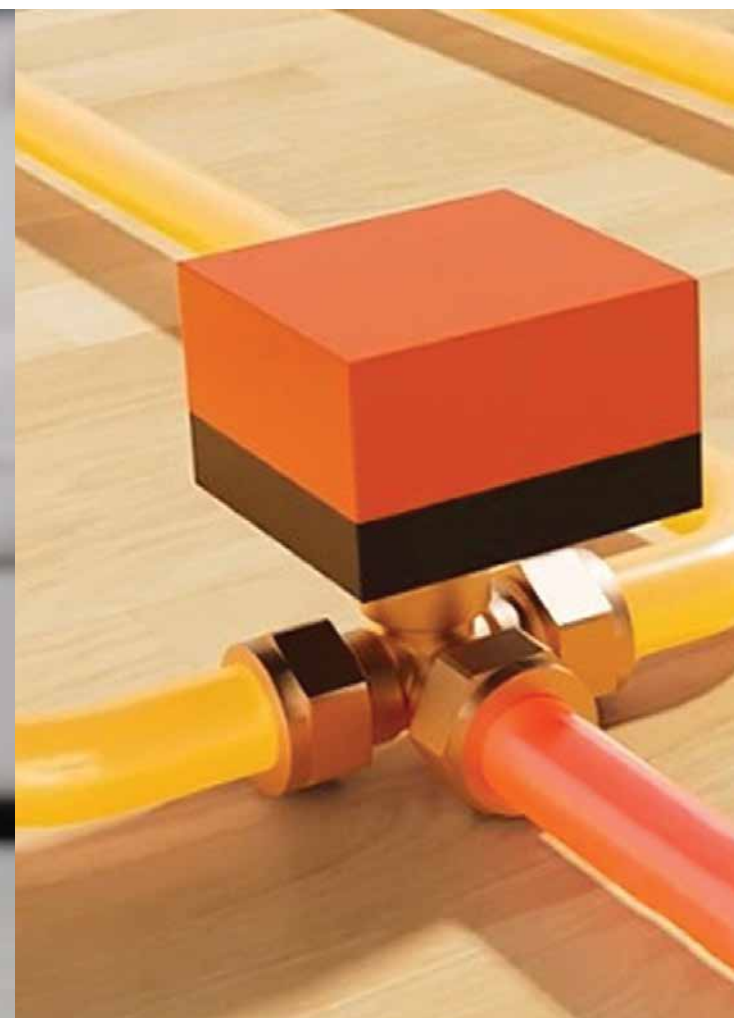
The Fan Blade Area is increased by 20% leading to greater energy efficiency and less wind resistance, thus lowering the noise levels.



Triple Layer Protection

Our heat pump's triple-layer insulation effectively dampens noise, achieving a remarkable 35 dB(A) at 3 meters.

Space Heating Solutions



Precise Temperature Control

Real Time control of floor heating mixing valve.

Adaptive Water Temperature Control

The heat pump automatically matches the best water temperature according to ambient temperatures, preventing users from setting the water temperature too high or too low causing high energy waste and discomfort.

Floor Protection Mechanism

The Floor Drying Mode can prevent damages caused by water remaining in the underfloor operation or warping and cracking during normal heating operation.

Dual Temperature Control

The AUX Air To Water Heat Pump can deliver high water temperature to radiators whilst at the same time delivering lower temperature water to your floor heating, meaning that conditions can be optimal throughout the house at all times.

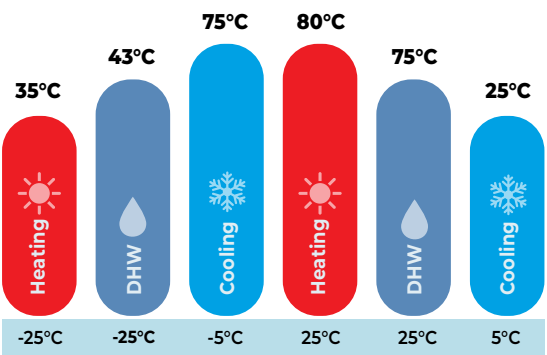
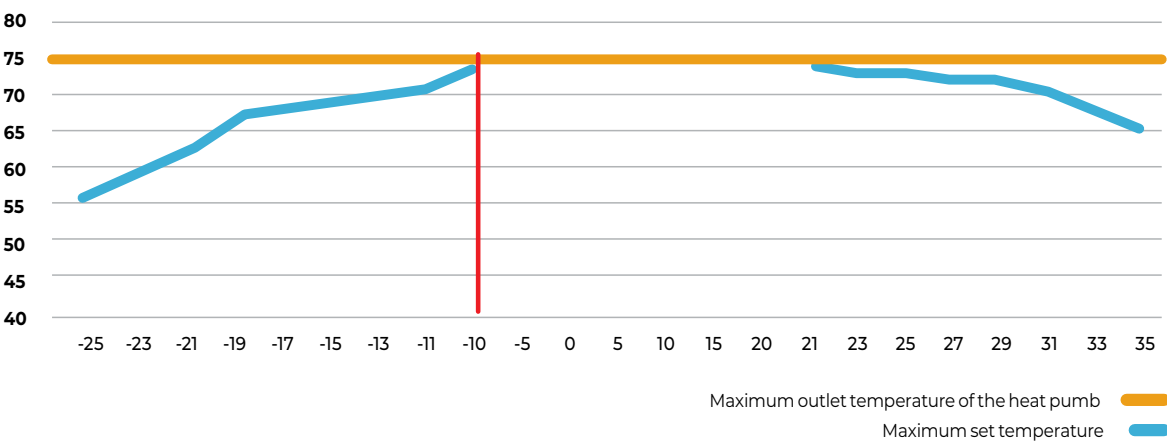
Hot Water Heating Solutions

Hot Water **Fast**

The System includes the Fast Hot Water Function, which when selected the heat pump and hot water tank are electrically heated at the same time, giving you instant Hot Water.



Highly **Reliable** Operation

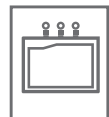


Even at **extreme low** temperatures

The unit can operate at -25°C, with a maximum outlet water temperature of 80°C, and hot water tank temperature of 75°C, meeting the needs of users for heating and domestic hot water.

Intuitive Control

The system comes with has a high-end controller with 5-ich colourful touch screen, which can be operated in 27 different languages. With temperature and power consumption curve, users can always be clear of the energy consumption at a glance, and also control many other functions.



Centralized Control

up to 8 rooms

With additional KIT modules, the temperature of up to 8 rooms can be controlled simultaneously.



Holiday Mode

The unit will operate at a lower set temperature in heating or Direct Water Heating Mode, protecting the system and terminal device from damages caused by freezing conditions.



USB Update

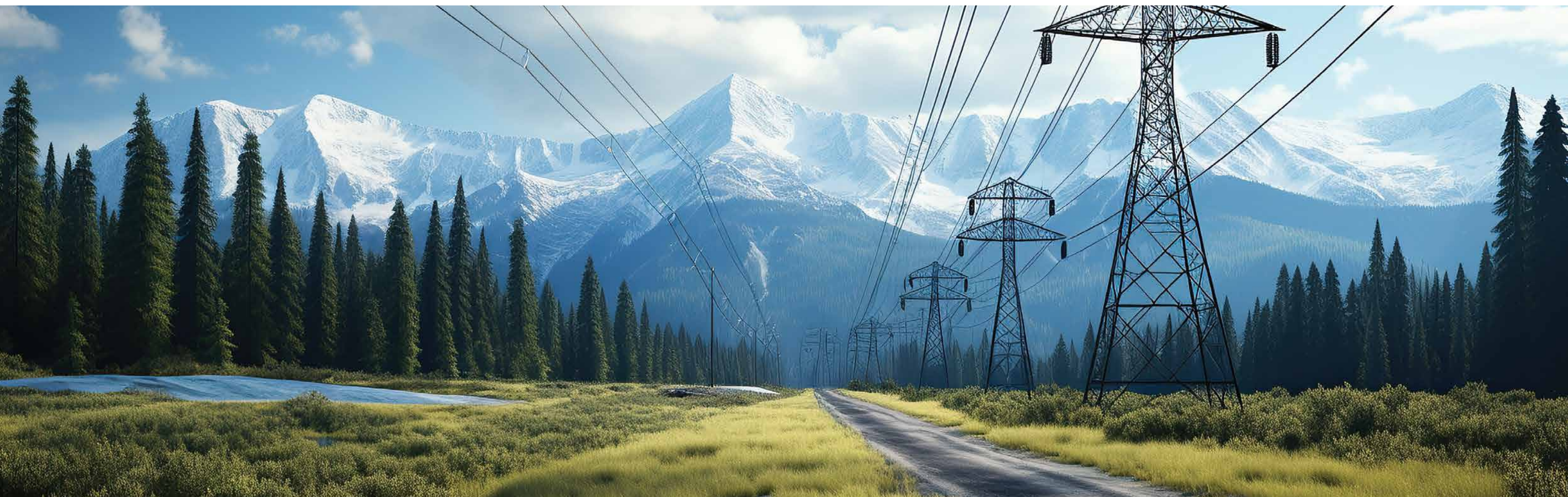
The unit can be upgraded and reprogrammed with a usb drive, thus providing a fast comissioning and parameter recovery option.



Silent Mode

At night the silent mode can be enabled to limit the maximum frequency of the compressor, and maximum speed of the fan motor to further reduce noise levels improving the comfort levels of users. There are 2 levels of Silent Mode: Normal Mute and Deep Mute.

Smart Energy Control



Smart Grid Function

The heat pump adapts its operation to different electric signals. The energy consumption of the system can be automatically adjusted according to peak and low power to reduce heating costs to the greatest possible extent. With this function, the pump switches on automatically to take advantage of a cheaper energy tariff or to store excess power from a photovoltaic system.



Electricity Consumption Monitoring

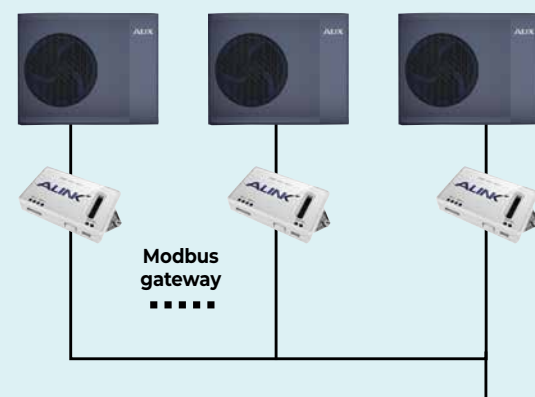
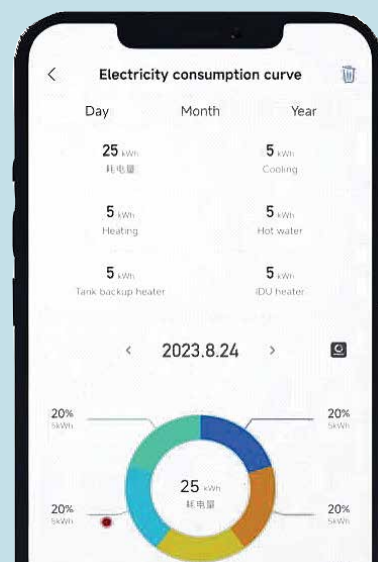
This function allows the user to analyse the heat pump's electricity consumption at different time intervals and optimise its settings to save even more in terms of heating costs.



Remote Control Capabilities

WIFI Control

The unit can be controlled through your mobile wherever you are, allowing you to monitor and adjust your home temperature before you arrive home.



BMS Control

The units can be controlled through a central BMS system, thus allowing the maintenance team of a building or complex to monitor and control the units remotely.



Network Monitoring

The unit can be monitored from a central service center for fast response time in diagnosing and repairing any system fault.





Supply Chain

Opticlima maintains seamless operations through strategically located warehouses, digitized processes, and a responsive logistics team, ensuring timely deliveries.

Technical Services

Our centralized Service Operating Centre (SOC) manages island-wide teams, enabling quick response to technical issues and delivering detailed reports after commissioning

Project Management

Our streamlined project management process ensures customer satisfaction by efficiently coordinating project stages, meeting key milestones, and providing comprehensive reports throughout the project lifecycle.

Our Commitment

Mission

To provide innovative, eco-friendly solutions for heating, cooling, water treatment, and sustainable energy, with a focus on comfort, safety, and sustainability.

Vision

To be a leader in intelligent living solutions, recognized for excellence, environmental responsibility, social commitment, and customer satisfaction.

Opticlima's Edge

Our dedication to excellence, environmental responsibility, and customer satisfaction makes us your trusted partner for intelligent living solutions.





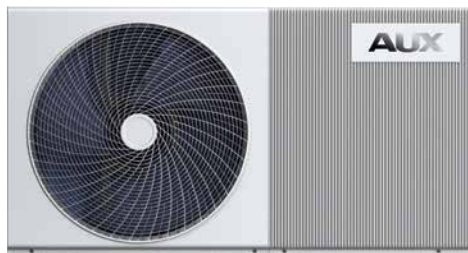
R290 AI Thermal
Monobloc system



R32 AI Thermal
Monobloc system



R290 AI Thermal
All in One system



Discover all our Heat Pumps range

opticlimate
Intelligent Living Solutions

Larnaca Office

Timiou Stavrou, 5 Aradippou, Larnaka 7101, Cyprus

Nicosia Office

Smyrnis 5, Strovolos, 2049, Cyprus

Limassol Office

Steliou Kyriakidi 39, Limassol, 3080, Cyprus

Tel: +357 77770003

e-mail: info@opticlimate.net



www.opticlimate.net / www.auxcyprus.com