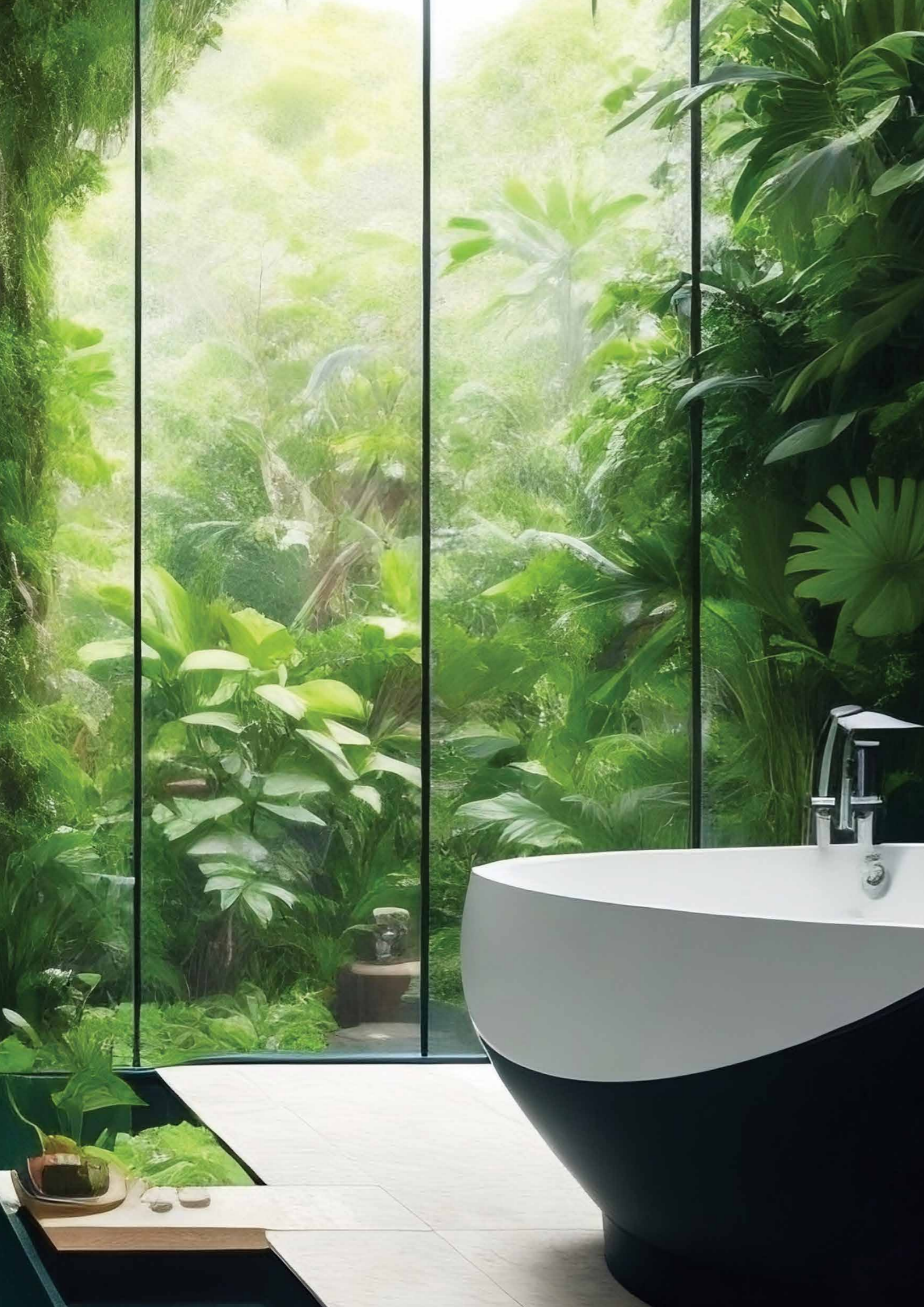


**AUX**



INTELLIGENT  
LIVING  
SOLUTIONS

**AI 290 Thermal Heat Pumps**



## Environmentally Safe Refrigerant

**R290**

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

**80°C**

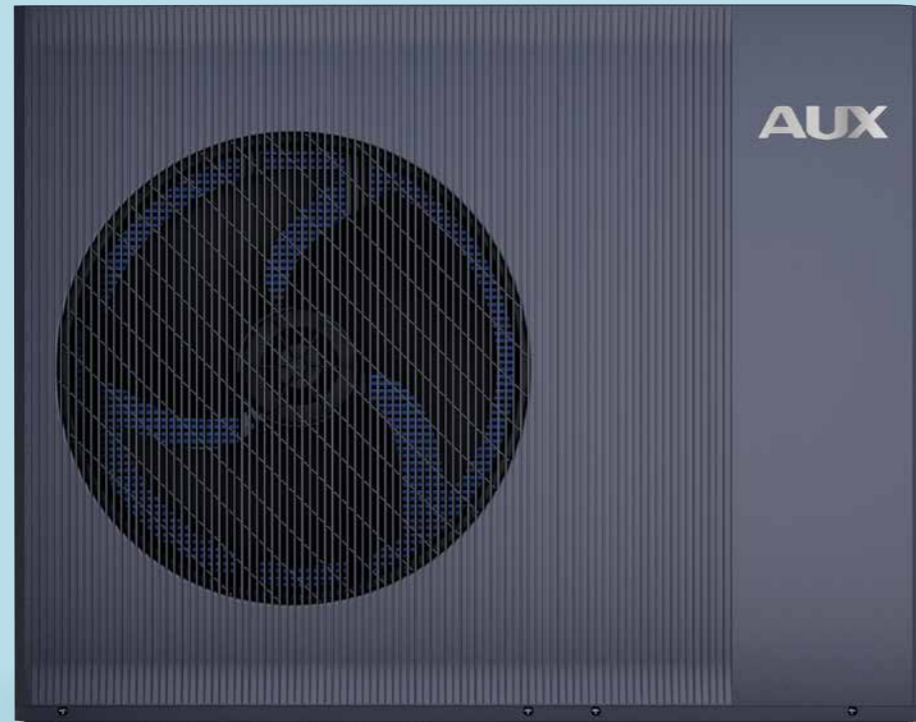
Very high  
water outlet  
temperature

**A+++**

Super  
high  
Efficiency

**×**

Low  
noise  
level



## A renewable energy source

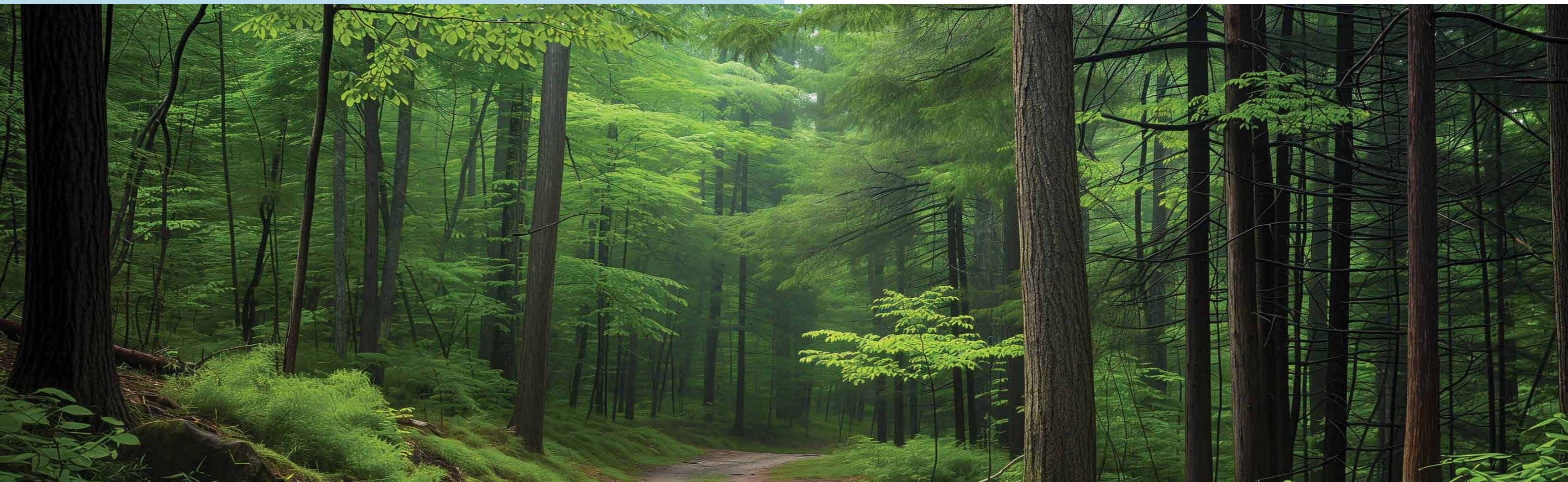
The AUX Air To Water Heat Pump outdoor unit harnesses up to 75% of its energy from the ambient air, enabling it to provide heating, cooling, and hot water, with the remaining energy supplemented by electricity.

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
Appearance							
Outdoor Units	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

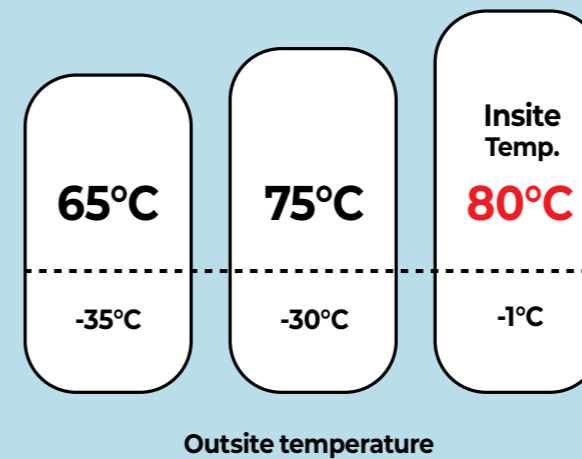


Easy Installation



Multiple Solutions

**AUX** AI 290 Thermal Heat Pumps



### 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

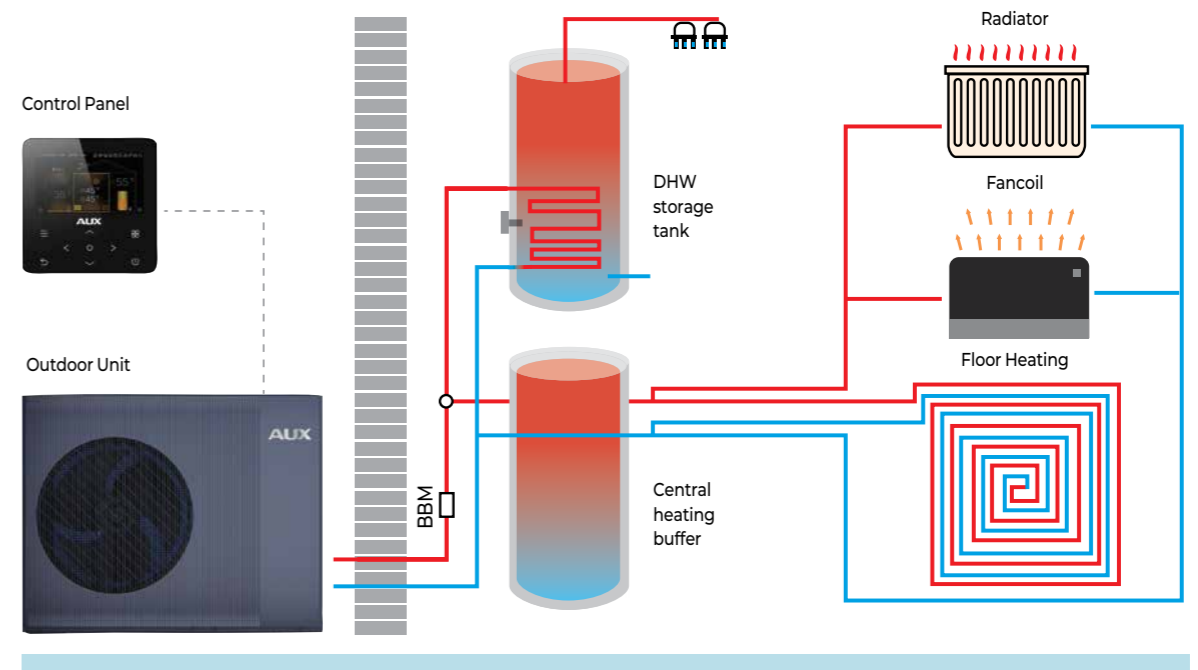
# Flexible Design Options

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

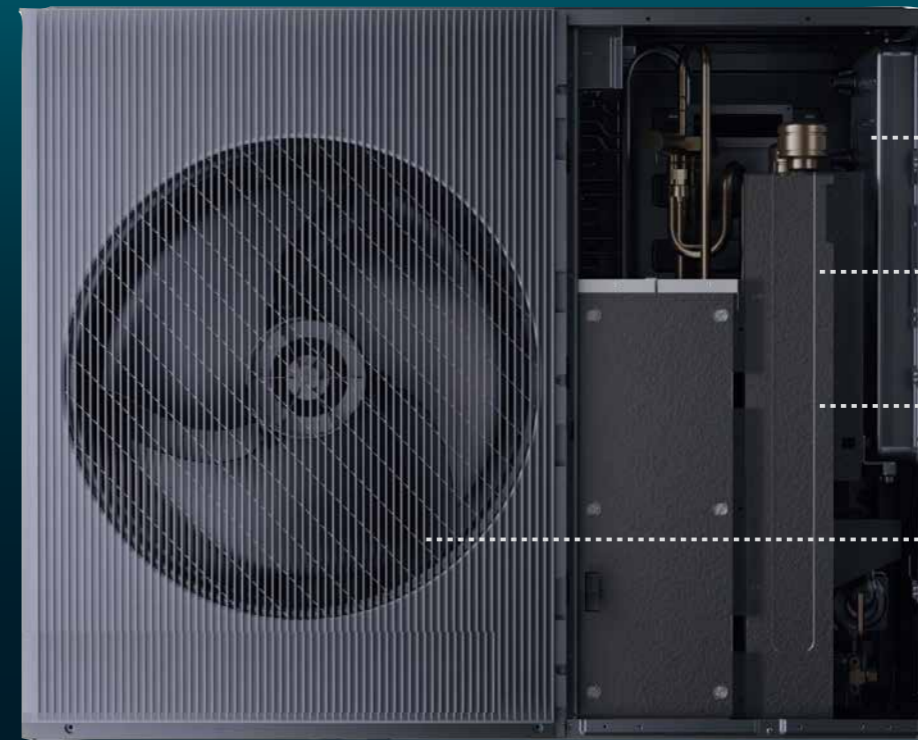
THE AUX ATW Unit can cover every household need in terms of climatization: heating, cooling and domestic hot water production. Its compact size and easy installation make it a unit suitable for new construction. It is compatible with floor heating, radiators and fan coils. When combined with a suitable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

## Multiple Noise Reduction Technology



### Fan Blade Patented Design

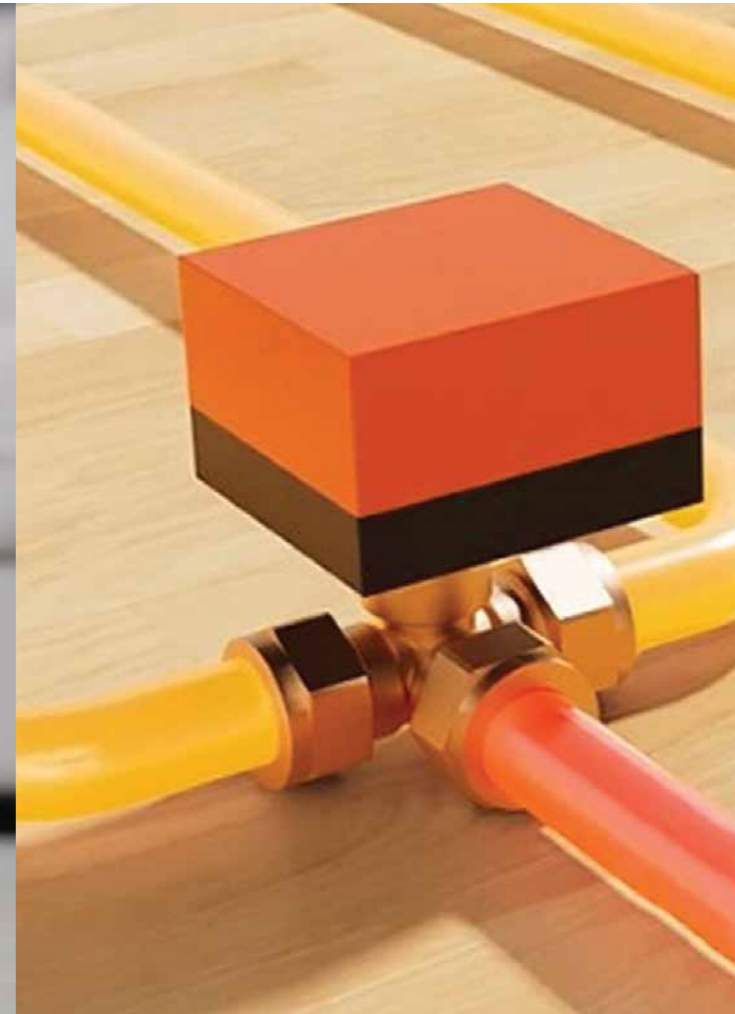
The Fan Blade Area is increased by 20% leading to greater energy efficiency and less wind resistance which lowers the noise levels.



### Triple Layer Protection

Our heat pump's triple-layer insulation effectively dampens noise, achieving a remarkable 35 dBA 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.

## **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.

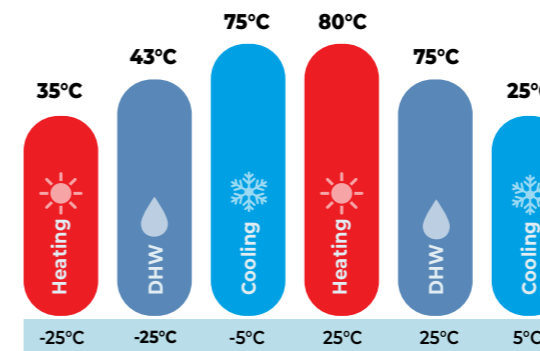
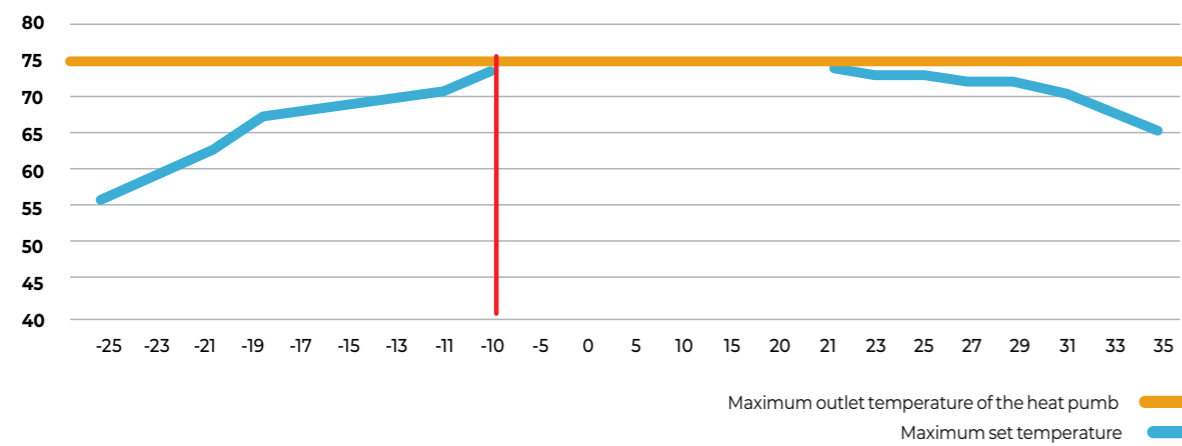
# Hot Water Heating Solutions

## 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

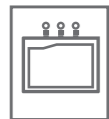


### Even at **extreme low** temperatures

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

# Intuitive Control

The system comes with has a high-end controller with 5-inch 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 extent possible. 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

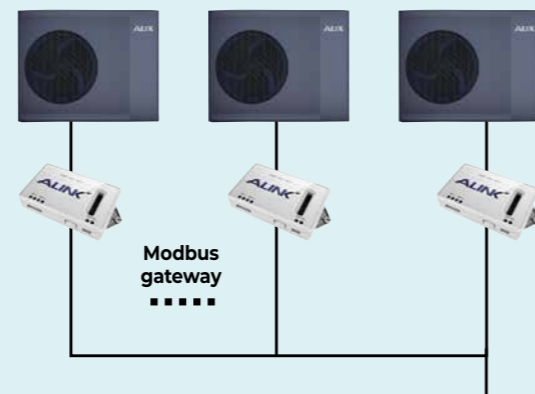
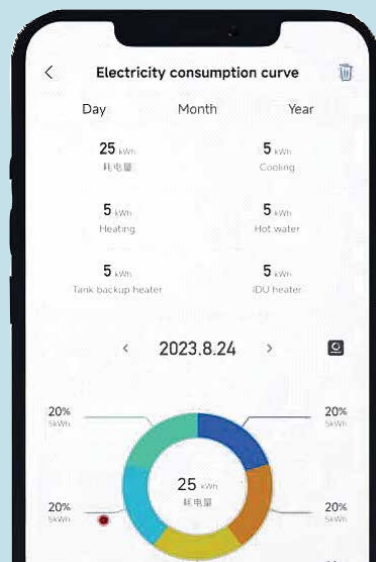
This function allows the user to analyse the heat pump's electricity consumption at different time intervals and optimise its settings to save even more in terms of heating costs.



# 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.

