



# MAXX Series

R290 All DC Inverter  
Air Source Heat Pump




# An environmentally friendly and energy efficient unit

## What is the refrigerant?

Refrigerant is a kind of working medium used in refrigeration and air conditioning systems, which absorbs and releases heat through circulation flow, so as to achieve the effect of refrigeration and air conditioning.

## Why is Maxx Series unit equipped with R290 refrigerant?

Natural Refrigerant R290 

- Much lower GWP value to meet EU carbon neutrality
- No ozone depletion potential
- Excellent thermodynamic performance
- Great thermal efficiency for most conditions

Maxx series unit has obtained certifications from multiple organizations, which is worthy of the customers' trust.

**ODP=0**

Neutral for the ozone layer

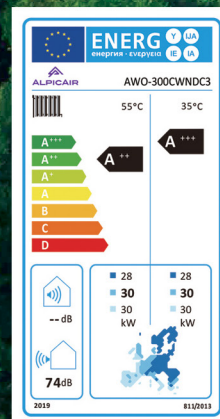
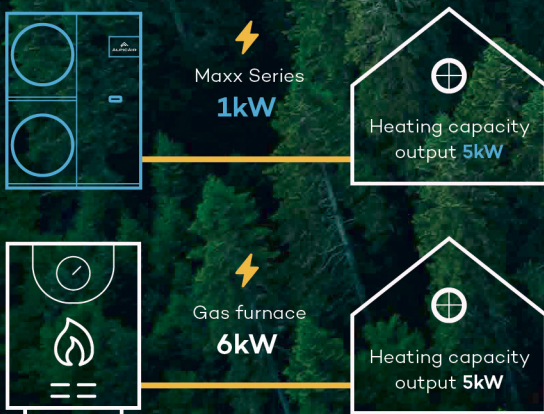
**GWP=3**

Lower impact on global warming



Maxx Series meets the highest rank of energy efficiency

$\eta_s$ . Seasonal space heating energy efficiency  
 $\eta_s$  average up to A+++ at 35°C





# A light commercial Heat Pump that can be installed on a balcony

Maxx Series unit has models with two capacities ranges: 30kW, and 40kW, focusing on light commercial applications. It is suitable for villa garden, small office buildings, apartments, hotels and other light commercial application scenarios.

Maxx Series units can be connected in parallel up to 6 units, with a maximum heating capacity of 240kW. Its large capacity can meet the requirements of many commercial applications.

What should be done when the distance between houses is small and it is not possible to install unit with high heating capacity?

Maxx Series unit adopts a side air outlet structure, with a footprint of approximately 0.72 m<sup>2</sup>, a length of 1384mm, and a width of 523mm. When installing, a width of not less than 300mm should be reserved behind the unit.

When the distance between houses is small and it is not possible to install machines on the roof, the special design of the Maxx structure allows it to be installed in small spaces such as balconies, meeting the user's heating/cooling needs throughout the year.

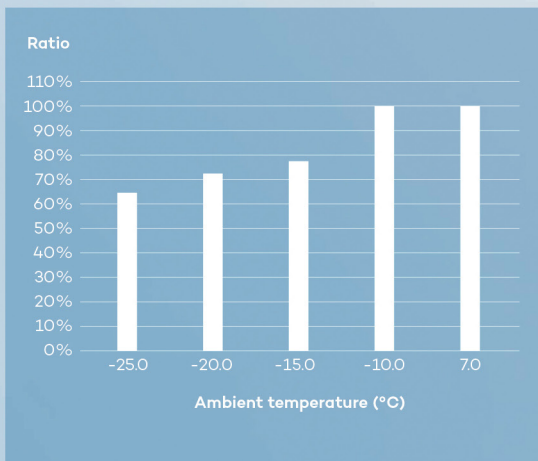




# A heat pump that can operate efficiently at low ambient temperatures

Ordinary heat pump at low ambient temperature heating capacity decay more, need to be combined with gas furnace or electric heating to meet the heating demand.

Ratio of actual heating capacity to rated heating capacity (55°C LWT)



Heating capacity reaches **100%**,  
at ambient temperatures of **-10°C**

Heating capacity **≥75%**,  
at ambient temperatures of **-15°C**

Heating capacity **≥70%**,  
at ambient temperatures of **-20°C**

Heating capacity **≥65%**,  
at ambient temperatures of **-25°C**

Note:

Test condition: EN14511

Under the ambient temperature of -10°C to 7°C, due to the defrosting of the unit, the cycle heating capacity has a certain attenuation.

## Why can the Maxx series unit achieve excellent low-temperature heating capacity?

Maxx series unit is equipped with an R290 dedicated Inverter EVI (Enhanced Vapor Injection) Scroll Compressor, which, combined with EVI technology, improves low-temperature heating capacity and energy efficiency by increasing refrigerant circulation of the heat pump at low ambient temperature.

Maxx series unit has a strong low temperature capacity, without the need to match an external heat source, one machine can provide year-round heating needs, not only worry, but also save electricity.





# A heat pump that can achieve a leaving water temperature of up to 85°C

## Heating application scenarios

Some old projects use old cast iron radiators, requiring high water temperatures, and traditional heat pumps cannot directly replace the Boiler



## Hot water application scenarios

With just Maxx series heat pump, it is possible to produce 75°C hot water when the temperature ranges from -20°C to 20°C.

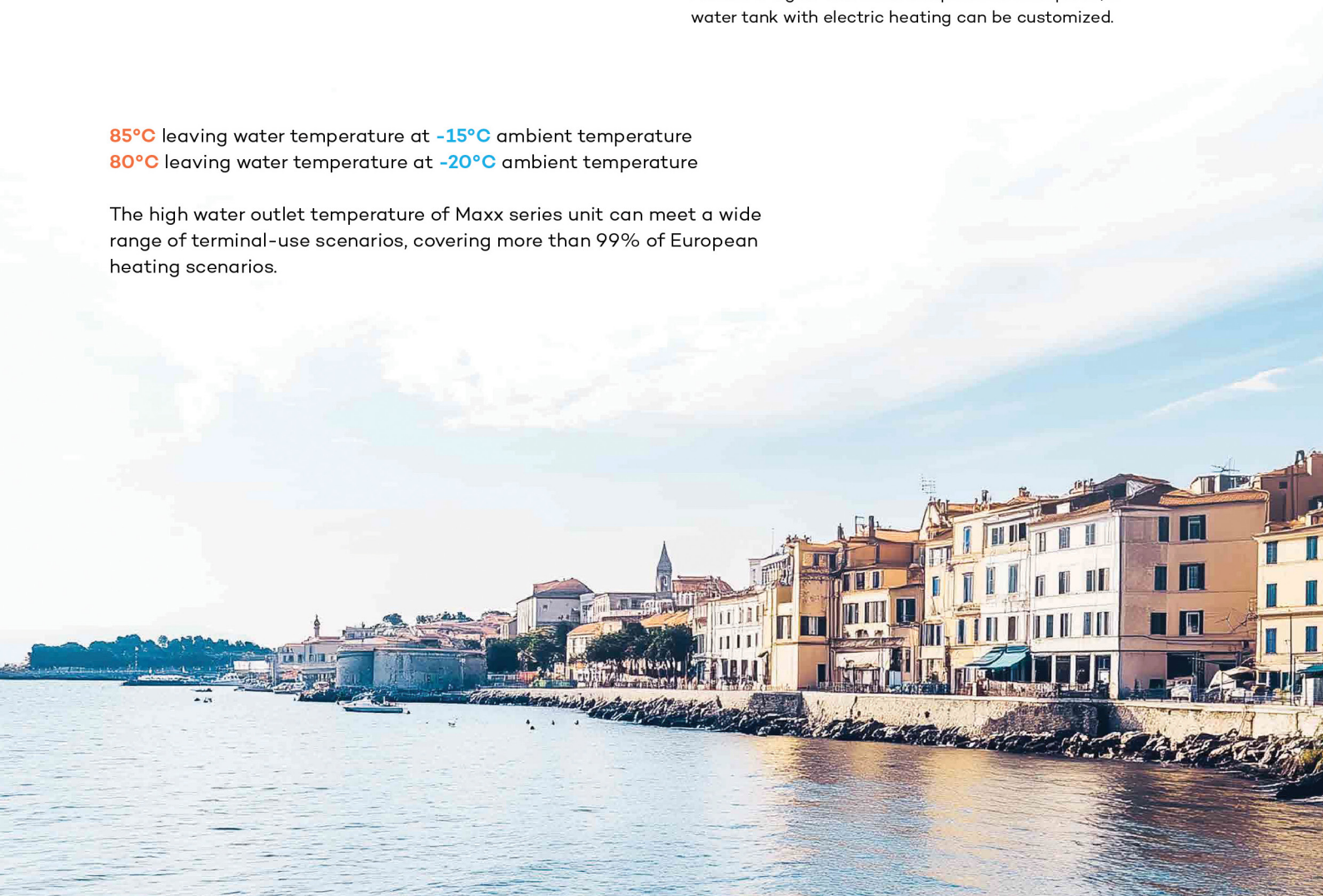


Note: If a higher hot water temperature is required, a water tank with electric heating can be customized.

85°C leaving water temperature at -15°C ambient temperature

80°C leaving water temperature at -20°C ambient temperature

The high water outlet temperature of Maxx series unit can meet a wide range of terminal-use scenarios, covering more than 99% of European heating scenarios.



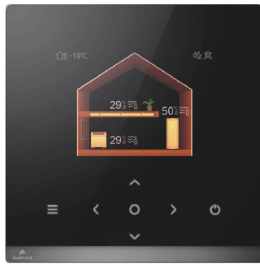


# A good heat pump is inseparable from comfortable use experience

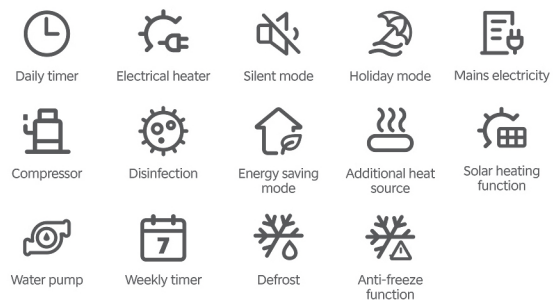
Maxx comes with a color screen wired controller with an attractive design that has won the Red Dot Award. The interface is simple and direct, and the operation is easy. It can be paired with the AlpicAir SmartHome app, allowing the unit to be remotely controlled from anywhere.

## Intuitive and easy-to-use for best experience

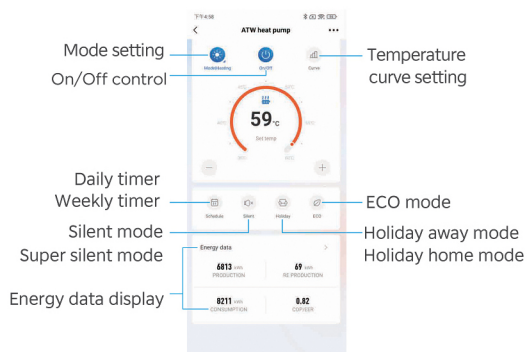
### New User Interface



- Color display
- Intuitive interface
- Touch-key design
- Liquid crystal display
- Built-in Wi-Fi module
- Modbus protocol
- APP control
- Non-polarized wiring



## Control from anywhere at your fingertips



### Monitoring

- System status
- Real-time temperature
- Energy consumption data

### Scheduling

- On/off operation
- Holiday settings
- Hot water heating control

### Convenient modes

- Silent mode
- Eco mode
- Holiday mode





In light commercial scenarios, different heating temperature requirements often exist in the same building, such as different temperature requirements for shopping areas and office areas, which may have different hot water temperature requirements when using different end units.

The dual-zone control function equipped in Maxx series unit can perfectly meet the requirements of this scenario. The wired controller can be used to set different water outlet temperatures for two independent zones, providing users with a more comfortable experience.





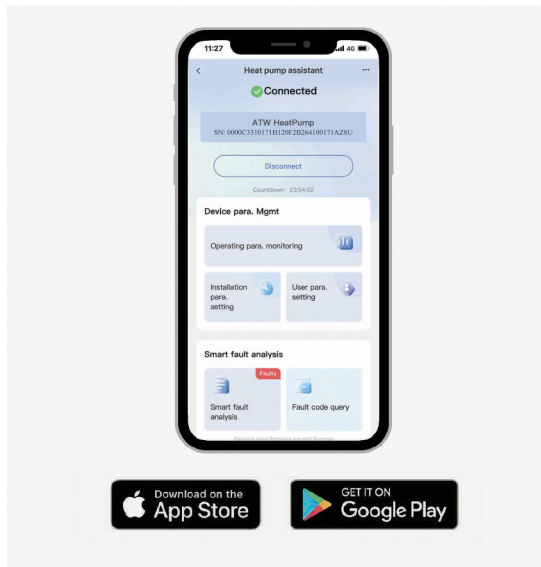
# Heat pump selection and after-sales service are also important aspects of the user experience.

AlpicAir has developed professional selection software and after-sales service tools to help dealers better serve customers. The selection software helps customers choose models with suitable capacity, and the after-sales service tools enable customers to enjoy better and more timely after-sales service experience.





## Multiple after-sales service and



**LetsLink Heat Pump Assistant**  
**APP**

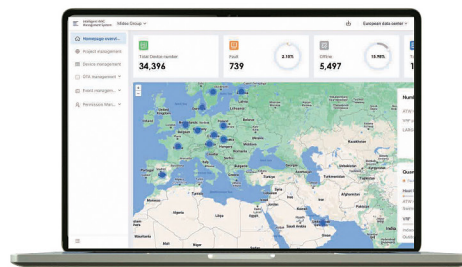
### Heat pump remote connection and control from anywhere

- Ideal for busy service providers
- Enables faster service and eliminates unnecessary service calls
- Control various operations, monitor set parameters remotely
- Get reports with historical data
- Fault-code queries and troubleshooting

## Intelligent HVAC Management System

### Centralized, 24/7 monitoring of multiple units

- Enables complete control of all installed units
- Real-time status updates for multiple units with a single click service calls
- Get access to historical data
- No limit to the number of connected devices and user accounts
- No need to carry multiple devices





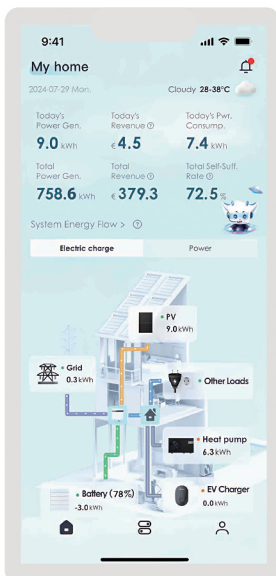
# iEasyEnergy solution - A Step Toward Energy Independence

AlpicAir MBT has launched the iEasyEnergy solution to provide one-stop services spanning from design to installation to meet the needs of energy consuming devices in households. iEasyEnergy solution is based on PV panels, LFP batteries and heat pump system, through iEasyEnergy app for energy scheduling and centralized flexible control, greatly improve energy efficiency, the entire system can be up to 0% home energy self-sufficiency increased to 90%, customers not only save energy bills, it can also improve energy security.

- 1 Heat Pump
- 2 M-ESS (Energy storage)
- 3 M-Master (Central controller)
- 4 M-Charger (EV Charger)
- 5 M-Solar (Solar module)

**Analyze whether your home energy is safe, perform visible energy management automatically**

iEasyEnergy is an intelligent energy management APP that integrates heat pumps, photovoltaic modules, energy storage, hybrid inverters, and other equipment into a flexible and efficient system. It enhances the energy independence of your home and opens up a new era of home energy management.



## Advanced Highlights



3-in-1 one-stop management



Excess solar for continues heating and free cooling"by flexible control



Home energy self-sufficiency and anergy bill savings analysis



Automatic fault notification push and analysis



## Heat Pump + PV + Battery + DHW Water Tank Professional Selection

AlpicAir Energy Super Advisor helps installers configure energy systems with auto-generated reports and analysis.

## Simple, 4-Step professional energysolution proposal



Basic info.  
For solar



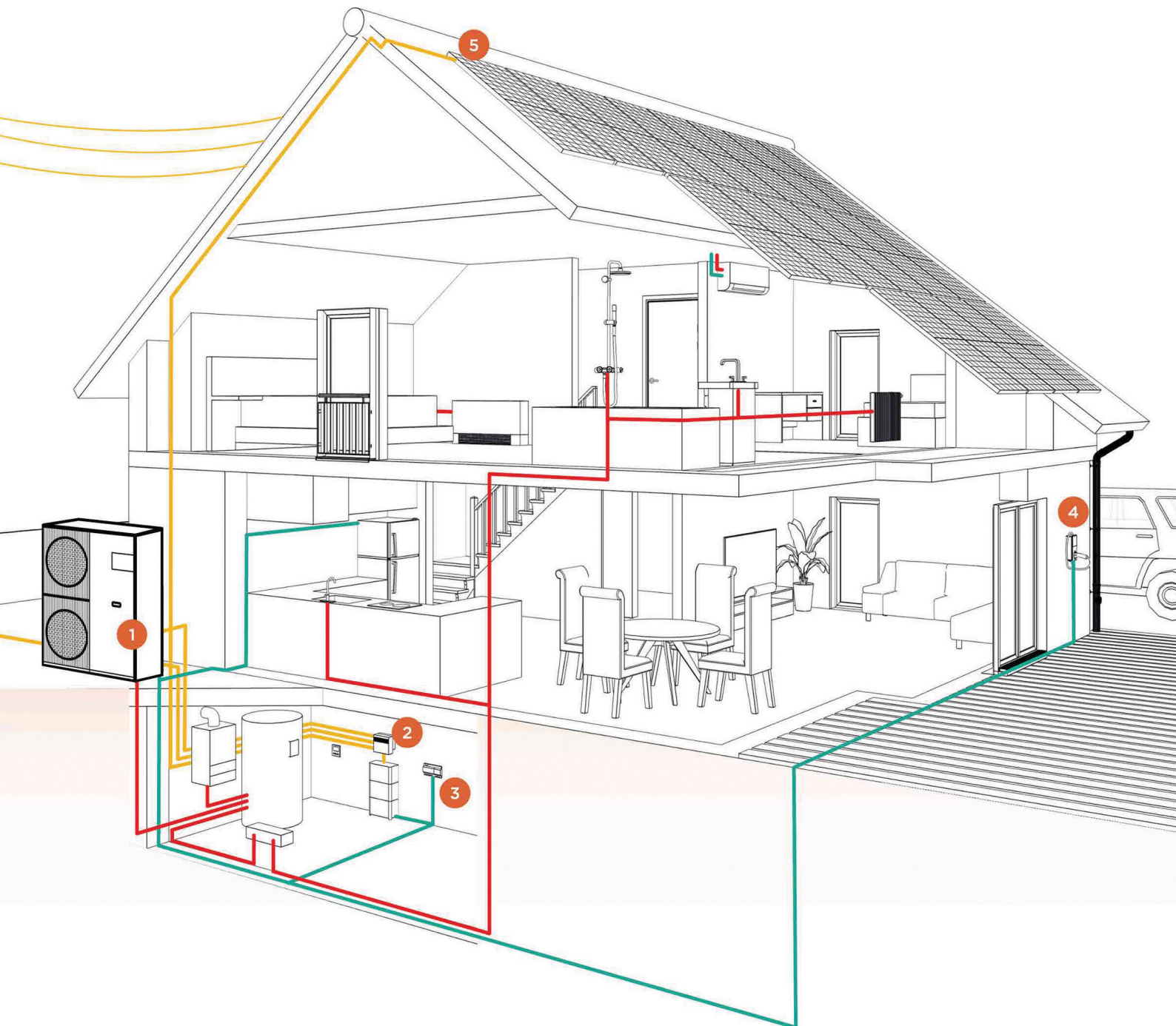
Basic info.  
For HP



Historical  
energy data



Hardware proposal  
& Financing analysis





# Specifications

Model			AWO-300CWND3		AWO-400CWND3	
Heating (A7/W35)	Capacity	kW	30.0		39.0	
	Rated input	kW	6.67		9.75	
	COP		4.50		4.00	
Cooling (A35/W18)	Capacity	kW	30.0		39.0	
	Rated input	kW	6.80		9.85	
	EER		4.41		3.96	
Seasonal space heating energy efficiency class	Water outlet at 35°C	ηs	193.8%		169.7%	
		class	A+++		A++	
Power supply		V/Ph/Hz	380~415/3/50			
Compressor	Type		Scroll Type			
Outdoor fan	Motor type		DC brushless motor			
	Number of fans		2			
	Air flow	m³/h	10500			
Air side heat exchanger	Type		Finned tube			
Water side heat exchanger	Type		Plate heat exchanger			
Connection of water side	Dimension	mm	DN32			
	Method		Threaded connection			
Water pump	Type		Canned -motor pump			
	Max. pump head	m	12			
Expansion vessel	Volume	L	5			
	Charge pressure	MPa	0.8			
Safety valve		MPa	0.3			
Water flow range		m³/h	1.2-6.2		1.2-8.1	
Refrigerant	Type		R290			
	Charged volume	kg	2.9			
Throttle type			EEV			
Unit dimension (W×H×D)		mm	1384*1816*523			
Packing dimension (W×H×D)		mm	1480*2000*570			
Net/Gross weight		kg	260/285			
Outdoor air temperature range	Cooling	°C	-15~-48			
	Heating	°C	-25~-43			
	DHW	°C	-25~-43			
Water outlet temperature setting range	Cooling²	°C	0~25			
	Heating	°C	25~85			
	DHW	°C	20~75			

Note:

- Parameters may change with product updates, based on the machine nameplate.
- Antifreeze liquid is needed when water outlet temperature reaches 5°C.
- The specifications of 40kW unit under test.

## ALPICAIR AIR CONDITIONING

Note: AlpicAir is committed to continuously improving its products to ensure the highest quality and reliability standards and to meet local regulations and market requirements.

V 3.15.0 \* Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. [www.alpicair.com](http://www.alpicair.com)

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