

# 9kW DC Inverter Air to Water Heat Pump for Floor Heating

This 9kW air-to-water heat pump features a DC inverter for efficient floor heating. It provides both heating and cooling, using R410A refrigerant.



## ADDITIONAL IMAGES



## Overview



### High-Efficiency DC Inverter Heat Pump

This 9kW DC inverter air-to-water heat pump is a versatile solution designed for floor heating, cooling, and domestic hot water production. Utilizing advanced frequency conversion technology, it intelligently adjusts output to match real-time demand, significantly reducing energy waste compared to fixed-frequency units. Its robust design ensures reliable operation in diverse climates, ranging from -20°C to 48°C, making it an ideal choice for sustainable residential climate control.

## Performance Metrics



### Key Performance Indicators

**9 kW**

Nominal Capacity

**4.15**

Max COP

**5**

IPLV Rating

## Technical Specifications

### Ingress Protection

IPX4

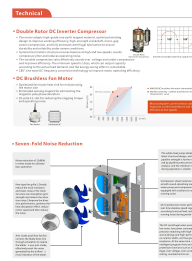
### Operating Temperature Range

-20°C to 48°C

### Refrigerant

R410A, R32

## Core Technology



### Compressor Technology

- Double Rotor DC Inverter Compressor
- 180° Sine Wave Frequency Conversion
- High-grade rare earth magnet motor
- Fully enclosed centrifugal lubrication
- Minimum speed of 15rps for low-load efficiency

### Noise Management


- 7-fold noise reduction design
- Silent mode reduction of 15dB(A)
- Anti-shake axial flow fan blades
- Sound-absorbing compressor insulation
- DC brushless fan motor with stepless regulation

## Intelligent Control

**Intelligent Control**

**• Intelligent System**

By the intelligent air conditioning system, the heat pump and the boiler will need to be separately controlled, which operates in more coordination. It is not hard to realize technology due to the open operation. With the DC inverter air conditioning control system, which has more flexible operation mode and operation time of the unit and the water unit through the independent control panel on the indoor side. Clean-friendly maintenance method for easy operation.




**• Room Thermostat**

**Performance Features**

- Auto learning, auto identification, auto control
- High, middle, low fan speed (3000/2000/1000)
- Room temperature setting and display
- Temperature and fan speed control
- Keyboard lock
- Fan speed time delay start

**• Heat Pump Control Panel**

**Working Mode**



### Operation Modes

- Summer: Fan coil cooling
- Winter: Floor heating & Fan coil heating
- Excessive Season: Ventilation & Dehumidification
- Four Seasons: Domestic hot water

### Smart Control Features

Timer Switch, Keyboard Lock, Auto Fan Speed, Room Temp Display

## Installation Requirements

### Installation Guidelines

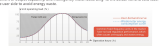
- Must be installed on a level surface
- Unit requires elevation of e30cm from ground
- Ensure unobstructed drainage for condensation

## Comparative Efficiency

**Energy Efficient**


**• Inverter DC Inverter Core**

Compared with traditional AC compressor, the DC inverter compressor core, which can reduce the energy consumption by 30%~40% compared with traditional AC compressor, and can reduce the energy consumption by 30%~40% compared with traditional AC compressor.



**• Highest Energy Efficiency Level**

Compared with traditional AC compressor, the DC inverter compressor core, which can reduce the energy consumption by 30%~40% compared with traditional AC compressor, and can reduce the energy consumption by 30%~40% compared with traditional AC compressor.



**• Annual Energy Costs**

Compared with traditional AC compressor, the DC inverter compressor core, which can reduce the energy consumption by 30%~40% compared with traditional AC compressor, and can reduce the energy consumption by 30%~40% compared with traditional AC compressor.

System Type	Energy Source	Annual Fee (RMB)	Efficiency
DC Inverter System	Electricity	3,554	High (COP 3.0 avg)
Traditional Gas Boiler	Natural Gas	6,825	Standard (0.93)

### Energy Cost Comparison (100m<sup>2</sup> Area)

System Type	Energy Source	Annual Fee (RMB)	Efficiency
DC Inverter System	Electricity	3,554	High (COP 3.0 avg)
Traditional Gas Boiler	Natural Gas	6,825	Standard (0.93)