

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

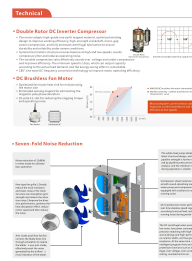
Operating Temperature Range

-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 for the user to adjust the air temperature. With the DC inverter air conditioning control system, which has more precise temperature control and operation mode of the unit and the water unit through the independent control panel on the indoor side. User-friendly main machine interface for easy operation.



• Room Thermostat


Performance Features

- An LCD display, touch sensitive for easy operation
- Temperature and fan speed control
- High, middle, low fan speed (ON/OFF)
- Keyboard lock
- Room temperature setting and display
- Filter check time, filter reset time

• Heat Pump Control Panel

Working Mode

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



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

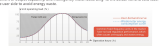
- Must be installed on a level surface
- Unit requires elevation of e30cm from ground
- Ensure unobstructed drainage for condensation

Comparative Efficiency

Energy Efficient


• Inverter DC Inverter Core

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



• Highest Energy Efficiency Level

The DC inverter compressor core has the highest energy efficiency level, which can reach the highest energy efficiency level.



• Annual Energy Costs

Compared with traditional gas boiler, the DC inverter compressor core can save a lot of energy costs.

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 (100m² Area)

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