

21kW Water Source Geothermal Heat Pump

This geothermal heat pump absorbs heat from the ground, underground water, or groundwater, operating similarly to an air source heat pump. It uses the stable temperature of groundwater and soil for heating or cooling, providing efficient and environmentally friendly climate control.



ADDITIONAL IMAGES



Overview

Advanced Geothermal Climate Control

This water source geothermal heat pump utilizes the earth's stable underground temperature to provide high-efficiency heating, cooling, and domestic hot water. Featuring advanced DC inverter technology, it offers precise temperature control within 0.5°C and operates with significantly higher efficiency than traditional air conditioning systems. Designed for both residential and commercial applications, this unit minimizes energy consumption while maintaining a comfortable indoor environment year-round.

Performance

Key Performance Metrics

21.6 kW

Max Heating Capacity

4.9 W/W

Max COP

4.2 W/W

Max EER

Technical Specifications

Refrigerant	R410A
Sound Level	55 dB(A)
Inverter Frequency Range	20Hz - 120Hz

Operating Conditions

Ambient Temperature Range	-30°C to 50°C
Ground/Water Source Temp	8°C to 38°C

Features

Precise Temperature Control
The DC inverter technology provides precise temperature control and superior energy efficiency compared to traditional systems.

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Suitable Applications

- Private Houses
- Hotels
- Bathing Pools & Saunas
- Commercial Centers
- Factories

System Capabilities

Heating, Cooling, Domestic Hot Water, DC Inverter, Variable Frequency Drive