Residential Geothermal Ground Water Heating Systems / Groundwater Heat Pump

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: horizontal-slurrypump.com
- Certification: CCC, ISO, CQC
- Model Number: OEM
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Reinforced Carton box with wooden tray
- Delivery Time: 1-2 weeks
- Payment Terms: T/T
- Supply Ability: 10 sets/day

Product Specification

- Product Name: Geothermal Water To Water Heat Pump
- Feature: High Heat Exchange Efficiency
- Oil Return: Stable And Reliable
- Application: Residential
- Advantages: Energy Saving
- Other Name: Groundwater Heat Pump
- Highlight: **geothermal heat pump**

Our Product Introduction

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Product Description

Residential Geothermal Water To Water Heat Pump / Groundwater Heat Pump

Variable frequency falling film screw chiller

Set frequency conversion compression, vector frequency conversion control, variable VI, certain one-to-parallel parallel connection, falling film evaporation, etc., inherit the advantages of fixed-frequency unit high COP; double-machine parallel technology further improve the partial load performance of the unit.
Scope of application
Hotels, hospitals, theaters, gymnasiums, entertainment centers, commercial buildings, office buildings, industrial and mining enterprises

Geothermal Water To Water Heat Pump Characteristics

1. Advanced airborne variable frequency drive technology has high efficiency under full load and partial load, especially partial load efficiency is lower than traditional fixed frequency unit operating cost by more than 30%;
2. Excellent variable frequency drive system ensures low starting current and optimizes electrical performance;
3. Double compressor refrigerant parallel system, which increases the heat exchange area compared with the traditional independent system under partial load, and further improves the partial load energy efficiency;
4. Falling film evaporator, the refrigerant evaporates on the surface of the high efficiency heat exchange tube to improve the efficiency, and the refrigerant charge is reduced by about 40% compared with the conventional evaporator;
5. Non-polar spool variable capacity and inverter combination adjustment, accurately match load changes;
6. High-precision electronic expansion valve for precise dynamic control and optimized system operation.

Geothermal Water To Water Heat Pump Features:

1. High heat exchange efficiency.
The falling film evaporator used in the unit, the refrigerant is supplied from the upper part of the refrigerant, the internal heat exchange tubes are arranged according to a specific array, and the liquid supply distributor is arranged above the heat exchange tube. The refrigerant liquid is evenly dropped onto the heat exchange tube array, and a film is formed on the surface of the heat exchange tube, so that the refrigerant is in full contact with the heat exchange tube, and the vaporized gas is collected above the evaporator and passed through the passage. The suction pipe draws into the compressor. Therefore, the evaporation of the refrigerant in the falling film evaporator is more sufficient, and the heat exchange efficiency is higher. Compared with dry and full liquid evaporators, the heat transfer efficiency can be increased by about 10%.
2. The amount of working fluid is small and has obvious environmental benefits.
In the falling film evaporator, the refrigerant liquid can be fully evaporated by forming a film on the surface of the heat transfer tube. The refrigerant liquid in the flooded evaporator must be kept at a specified height to fully evaporate, and the refrigerant usage can be reduced by more than 20% compared with the full liquid evaporator. It has very important environmental significance.
3. The oil return is stable and reliable.
In the falling film evaporator, the frozen oil separated by the evaporation of the refrigerant is collected at the bottom of the evaporator, flows into the oil reservoir below the evaporator through the oil return pipe, and is sucked into the compressor through the oil return device to realize oil return. This oil return method is very stable and reliable, which ensures that the compressor is always operated under good lubrication, thus effectively extending the service life of the unit. It is difficult to return oil with the full liquid evaporator. The structure of the oil return system is complicated and the oil level is difficult to determine, which simplifies the design and effectively extends the service life of the unit. Therefore, the falling film heat pump unit has obvious energy saving effect and outstanding environmental protection effect.

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