



Automated Operation Wastewater Treatment Plant Heat Pump Scraper Low Temperature Vacuum Crystallisation System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: Dry crystallisation systems
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



Product Specification

- Material: Stainless Steel
- Model: Dry Crystallisation Systems
- Place: China
- Highlight: Automated Heat Pump Scraper, Wastewater Heat Pump Scraper, Low Temp Heat Pump Scraper



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Product Description

Heat Pump Scraper Low Temperature Vacuum Crystallisation System Automated Operation Wastewater Treatment Plant

Product Description

VESALT S-HP Scraper Series

The final hazardous waste product is a solid dry sludge or dried crystals with a water content of <10%.

The distillation temperature is maintained at around 35° C. The water is separated from the waste using the heat generated by the closed-loop refrigeration circuit of the heat pump, resulting in crystal-clear distilled water with a COD reduction of 99%, which is recycled or discharged in compliance with standards.

-Applicable to the distillation of highly saline wastewater, resulting in crystal clear distilled water and near-solid waste.

-S-HP series can be fully automated for continuous operation and unmanned for 24 hours. Can be customised to meet specific customer treatment needs.

Special stainless steel materials resistant to corrosive liquids, such as SAF or titanium, are available.

Main Features

Made of AISI316L, 2205, SAF2507 stainless steel or titanium, completely detachable.

Suitable for high salt wastewater and high concentration wastewater, increase the drying efficiency by built-in scraper and separate the crystals at the same time.

Heat pump low temperature vacuum distillation design, using R407C and R134a refrigerant.

The only heat source is electricity. There is no need for any steam heating or as an auxiliary heat source.

Wastewater inlet, distillate and concentrate outlet are all fully automated and completely sealed with no exhaust gas emission.

The control system adopts Siemens PLC and control panel.

Modular design, compact structure, small footprint, fast and convenient assembly and operation.

Market Distribution

We have 42 offices throughout the country, in addition to Taiwan Province, 33 provinces in the country's administrative regions have a sound sales and service network. We can provide you with pre-sale, in-sale and after-sales service in a timely and convenient manner, understand your needs, and constantly improve the service and quality system while meeting the customized needs of customers.

High Performance Aerodynamic Design Methodology for Wide Service Conditions

By studying the influence of impeller and volute flow on efficiency and working stability, the R&D team proposed a flow control method and a pneumatic optimization design method to improve the performance of the main engine, which greatly improved the efficiency of the main engine.

Manufacturing & Equipment Base

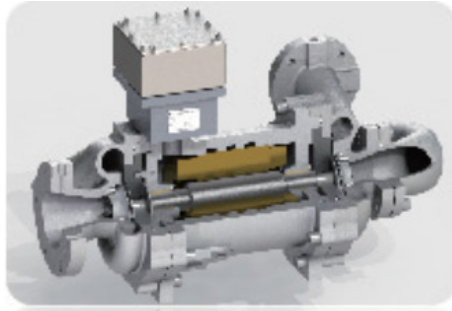
has built laboratories, R& D buildings, processing workshops, etc., with internationally advanced and China leading high-precision processing equipment.



High power density permanent magnet synchronous motor technology

Based on the thermal multiphysics coupling design technology of electro magnetic machine, the R&D team independently developed a permanent magnet synchronous motor (PMSM); Through the electromagnetic optimization design technology of

high speed permanent magnet motor coordinated with the control strategy, the problems of large rotor heat, high torque ripple and large motor noise are solved, so that it has the advantages of high reliability, high temperature resistance and low wind resistance loss. The design and process of rotor structural integrity were overcome, and a permanent magnet synchronous motor with high power density, low cost and high efficiency was developed.



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