Aluminium shell electric induction furnace

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: huarui
- Certification: ISO9001
- Minimum Order Quantity: 1 unit
- Price: USD10000-1000000
- Packaging Details: water proof packing
- Delivery Time: 15-30 days
- Payment Terms: L/C, T/T
- Supply Ability: 1000 sets per mt

Product Specification

- Control System: PLC
- Aluminium Output: 1500kg
- Working Hour: 24 Hours
- Power Consumption: 520kwh/ton
- Input Frequency: 50/60HZ
- Furnace Fuel: Electricity
- After Warranty Service: Video Technical Support
- Durability: High
- Melting Rate: 0.75ton /hour
- Working Life: About 10 Years
- Fuel: Electricity
- Supporting Transformer: 1600KVA
- Efficiency: High
- Working Temperature: 0- 800

Our Product Introduction

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Product Description

Adopting Aluminium alloy or pure aluminium as shell.

It is light, low density.

Low strength, can not resist high temperature.(It is mainly used in medium and low-temperature processes (such as aluminum smelting and heating of non-ferrous metals).

Good heat conduction, Heat pass ratio is high.(The shell conducts heat quickly, so attention should be paid to the heat dissipation design to avoid structural deformation due to overheating.)

It has good thermal conductivity, fast heating speed and high energy utilization rate, making it suitable for rapid heating or short-term operations. But if heat faster, insufficient heat preservation measures, may lead to increase energy consumption.

The surface of aluminum is prone to form a dense oxide film (Al_2O_3), which is naturally resistant to corrosion and suitable for humid, acidic and alkaline environments (such as in the chemical and food processing industries).

The initial cost is relatively low (aluminum is cheaper than steel), but the shell is prone to deformation due to impact or high temperature, and the structural stability needs to be checked regularly. Maintenance is relatively simple, focus on cooling system (such as fan, cooling line) is obstructed.

Aluminum shell furnace applicable scenario
non-ferrous metal processing: aluminum, copper alloy smelting, casting of aluminium alloy heat. Food and medicine: baking, drying, (resisting corrosion and temperature controlled required). Electronic and light industry, electronic components, plastic processing, (such as heat furnace to match injection molding machine matching).

1. Aluminium furnace shell is made by Aluminium. The outside shell is not so strong, after long time service, it is prone to deformation.
2. Aluminium furnace structure is simple. Mainly by aluminium shell, induction coil. Protective performance is poor. There is security thread. Without magnetic yoke, power loss is big. And the magnetic field generate by the furnace is harmful for operator.
3. The efficient is almost same with steel shell furnace.
4. The cost is lower.

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