Low Noise Vacuum High Temperature Furnace Easy Operating With Small Footprint

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: OEM
- Certification: CE Certification
- Model Number: OEM
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Carton, pallet, wooden case or according to customer's package requirements
- Delivery Time: 30 working days
- Payment Terms: 30% deposit + 70% T/T before shipping
- Supply Ability: 20 sets per month

Product Specification

- Name: High Temperature Vacuum Furnace
- Maximum Operating Temperature: 3000
- Temperature Control: Program Control And Manual Control
- Temperature Uniformity: ≤ ± 10
- Temperature Measurement Accuracy: 0.2~0.75%
- Temperature Control Accuracy: ±1 °C
- Highlight: **high temperature vacuum furnace**, **high temp furnace**

Our Product Introduction

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Product Description

Low Noise IGBT Laboratory Vacuum Furnace Easy Operating With Small Footprint

The experimental graphitization furnace is a small laboratory special equipment tailored according to the university, scientific research institute and other units.

● **Features:**

Small footprint, low noise and low energy consumption;
Ultra-high temperature furnace body within 3000 °C, which can fully satisfy the sintering and graphitization of various materials;
IGBT series induction heating, less high harmonics, less pollution to the power grid, will not interfere with the operation of electronic equipment;
The product saves energy and is 15% more energy efficient than the old thyristor IF power supply;
Equipped with programmable controller and man-machine interface, the whole process can be automated, with fully automatic / semi-automatic / manual three working modes;
High security, comprehensive PLC water, electricity, gas automatic control and protection system, with super temperature, sensor break, water pressure, water flow, furnace overpressure, water temperature and other high sound and light alarm.
Technical parameters and model specifications:
Maximum operating temperature: 3000 ° C
High temperature zone volume: Φ100-300mmX100-300mm, or customized according to users
Working atmosphere in the furnace: vacuum, hydrogen, nitrogen, argon
Temperature uniformity: ≤ ± 10 ° C
Temperature measurement: infrared optical temperature measurement (1000 ~ 3200 ° C) (can be equipped with low temperature infrared thermometer 300-1100 ° C according to requirements)
Temperature measurement accuracy: 0.2~0.75%
Temperature control: program control and manual control; temperature control accuracy: ±1 °C
Limit heating rate: 100 ° C / min (empty furnace, depending on the volume of the high temperature zone and the furnace structure)
Comprehensive PLC water, electricity and gas automatic control and protection system The connection cable between the control cabinet and the furnace body can be up to 20m and remotely controlled by the equipment.
Configuration options
·Horizontal double door structure / vertical top cover
·Vacuum pump adopts rotary vane pump / rotary vane pump + Roots pump + digital vacuum gauge
· Temperature measurement system: dual colorimetric infrared thermometer (1000-3200 ° C) / tungsten rhenium thermocouple (0-1700 ° C) + dual color infrared thermometer (1000-3200 ° C) / monochrome infrared thermometer (300-1100 ° C) + double color infrared thermometer (1000-3200 ° C)
· Electrical: Chint / Schneider

● **Application**

High Temperature Vacuum Furnace Application of sintering of carbon materials, graphitization, sintering of carbon fiber ropes, sintering graphitization of carbon fiber filaments and other materials that can be sintered in a carbon environment. High heating efficiency, easy to operate, can be used in experiments, scientific research, teaching demonstration and other industries.

Product Model Specification	
Volume (L)	550
Rated Temperature (°C)	2800
Limit Temperature (°C)	3000
Effective Heating Zone (Mm)	Φ700X1400
Power (KW)	500
Frequency (HZ)	1000
Temperature Control Method	Japanese island electric thermostat
Heating Method	Induction heating
Vacuum System	Rotary vane vacuum pump (high vacuum requirement with Roots vacuum pump)
Sintering Atmosphere	N2, Ar2 and other gases
Rated Power Supply Voltage (V)	380
Rated Heating Voltage (V)	750
Vacuum Limit (Pa)	100 (vacuum cold state)

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