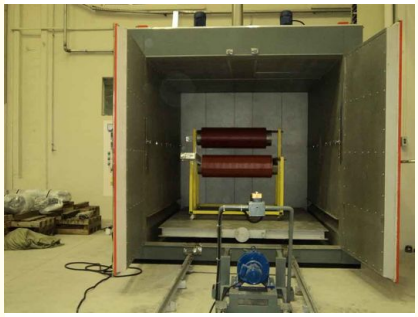
Resin Silicone Vertical Curing Oven Transformer Drying Oven Improved Insulation

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: JC
- Certification: SGS CE,UL
- Model Number: 8245-1
- Minimum Order Quantity: 1 pcs
- Price: consult
- Packaging Details: Export standard packaging
- Delivery Time: 5 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100pcs/month



Product Specification

- Driving Type: Electric
- Life Time: 100000000 Times
- Chamber Size: 500*500*500mm
- Control System: PID Control
- Cooling Time: 30min
- Heating Element: SUS304
- Insulation Material: Glass Wool
- Power: 2.2KW
- Product Name: Transformer Drying Oven
- Safety Protection: Over Temperature Protection
- Highlight: **vertical curing oven**, **silicone curing oven**, **resin curing oven**

More Images

Our Product Introduction

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Product Description

Transformer Drying Oven for Improved Insulation Properties & Quality Control

Manufacturers employ various techniques and features to ensure consistent and accurate drying conditions in custom drying ovens. Here are some common methods used:
Temperature Control: Drying ovens are equipped with temperature control systems that maintain a consistent and precise temperature throughout the drying process. This is typically achieved using digital temperature controllers or programmable logic controllers (PLCs) that monitor and adjust the heat source, such as electric heating elements or gas burners. Temperature sensors placed strategically inside the oven help provide feedback for precise temperature regulation.
Airflow and Ventilation: Proper airflow and ventilation are crucial for consistent drying. Drying ovens are designed with airflow systems that ensure uniform heat distribution and efficient moisture removal. This can be achieved through the use of fans, blowers, or forced convection systems that circulate heated air evenly across the parts being dried. Adequate ventilation systems are also incorporated to exhaust moisture and fumes generated during the drying process.
Insulation: Custom drying ovens are constructed with high-quality insulation materials to minimize heat loss and maintain a stable internal temperature. Effective insulation helps prevent temperature fluctuations and ensures consistent drying conditions throughout the oven chamber.
Uniform Heat Distribution: To achieve consistent drying, manufacturers design drying ovens with features that promote uniform heat distribution. This can include the placement of heating elements or heat sources in strategic locations, the use of baffles or airflow directors to control air movement, and the consideration of part placement within the oven to avoid hotspots or cold spots.
Monitoring and Control Systems: Advanced monitoring and control systems are often incorporated into custom drying ovens. These systems include sensors for temperature, humidity, and airflow, which continuously monitor the drying conditions. The data collected is then used to adjust and regulate the oven's parameters to ensure consistent and accurate drying.
Calibration and Testing: Manufacturers perform calibration and testing of the drying ovens to ensure the accuracy and reliability of temperature and humidity controls. This involves comparing the actual oven conditions with the set values and making necessary adjustments to achieve the desired drying parameters.
By implementing these measures, manufacturers can create custom drying ovens that provide consistent and accurate drying conditions, ensuring reliable and high-quality drying results for the specific materials and applications they are designed for.

Main technical parameters of HG Series transformer curing oven

Parameter	HG-1	HG-2	HG-3	HG-4	HG-5
Dimension of working chamber(width×depth×height) mm	550×450×550	850×800×1000	1500×1000×1500	1900×800×1500	1700×1800×2000
Operating temperature(ºC)	Indoor temperature-200	Indoor temperature-200	Indoor temperature-200	Indoor temperature-200	Indoor temperature-200
Operating voltage/ frequency(V/ Hz)	3-380/50	3-380/50	3-380/50	3-380/50	3-380/50
Heating power(kw)	4	10.5	18	21	36
Temperature uniformity(%)	±2.5	±2.5	±2.5	±2.5	±2.5
Temperature fluctuation(ºC)	±1	±1	±1	±1	±1
Note: Non-standard product can be designed and manufactured in accordance with the requirement of the user.					

Oven accepts customization

Manufacturers of drying ovens typically offer a range of standard models, but they also have the capability to design and manufacture custom drying ovens based on specific user requirements. This flexibility allows them to meet the diverse needs of different industries and applications.

When designing a custom drying oven, manufacturers take into account factors such as the type of materials being dried,

the desired drying or curing process, the required temperature range, the size and shape of the parts to be processed, and any specific environmental or safety considerations.
Based on these requirements, manufacturers can customize various aspects of the drying oven, including:
Size and Capacity: The dimensions of the oven can be adjusted to accommodate the size and quantity of the parts to be dried or cured. This ensures optimal space utilization and productivity.
Temperature Range and Control: The temperature range of the oven can be tailored to suit the specific drying or curing requirements of the materials. Precise temperature control systems can be incorporated to maintain consistent and accurate drying conditions.
Airflow and Ventilation: The airflow patterns and ventilation systems can be designed to provide uniform heat distribution and efficient moisture removal. This ensures thorough and even drying or curing of the parts.
Controls and Automation: Custom drying ovens can be equipped with advanced control systems and automation features, such as programmable logic controllers (PLCs), touchscreen interfaces, and data logging capabilities. These features enhance process control, monitoring, and data analysis.
Safety Features: Depending on the application and industry requirements, safety features like temperature alarms, overheat protection, explosion-proof construction, and exhaust systems can be integrated into the oven design to ensure safe operation.
By designing and manufacturing drying ovens according to user requirements, manufacturers can provide tailored solutions that meet specific needs, optimize drying processes, and enhance overall productivity and quality.

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