

## JINGEDD DHG202-0A

# JINGEDD Constant Temperature Blast Drying Oven DHG202-0A User Manual

Model: DHG202-0A

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your JINGEDD DHG202-0A Constant Temperature Blast Drying Oven. This digital bench-top convection drying oven is designed for applications requiring precise temperature control for baking, drying, heat treatment, and other heating processes in industrial or laboratory settings. The oven features an intelligent microcomputer temperature control instrument, offering functions such as timing, alarm, and temperature calibration. Its hot air circulation system ensures a constant internal temperature, minimizing external environmental influences.

## 2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully before operating the oven. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the oven is connected to a properly grounded power outlet with the correct voltage (110V or 220V, as specified for your unit). Do not operate with damaged cords or plugs.
- **High Temperature Hazard:** The oven operates at high temperatures (up to 300°C). Always use heat-resistant gloves when handling items inside the oven or touching external surfaces during and after operation. Allow the oven to cool completely before cleaning or maintenance.
- **Ventilation:** Ensure adequate ventilation around the oven to prevent overheating. Do not block air vents.
- **Flammable Materials:** Do not place flammable, explosive, or volatile materials inside the oven.
- **Stable Placement:** Place the oven on a stable, level, and heat-resistant surface.
- **Supervision:** Do not leave the oven unattended during operation, especially when processing new materials.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

### 3. PRODUCT OVERVIEW

#### 3.1 Components and Features

The JINGEDD DHG202-0A oven is equipped with several key components designed for precise and safe operation.

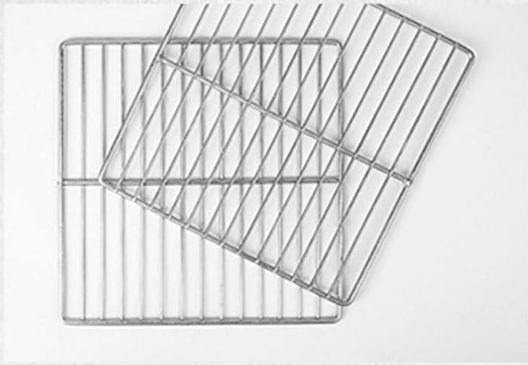


**Figure 1:** Overview of the JINGEDD DHG202-0A Constant Temperature Blast Drying Oven with key components labeled. Visible components include the temperature control panel, power/heating/blast switches, adjustable vent, reinforced hinge, silicone sealing strip, and push handle.



**Figure 2:** Detailed view of the control panel, highlighting the digital display for test temperature and preset temperature, function keys, up/down keys, and individual switches for power, heating, and blower (fan).

## Stainless steel standing rack



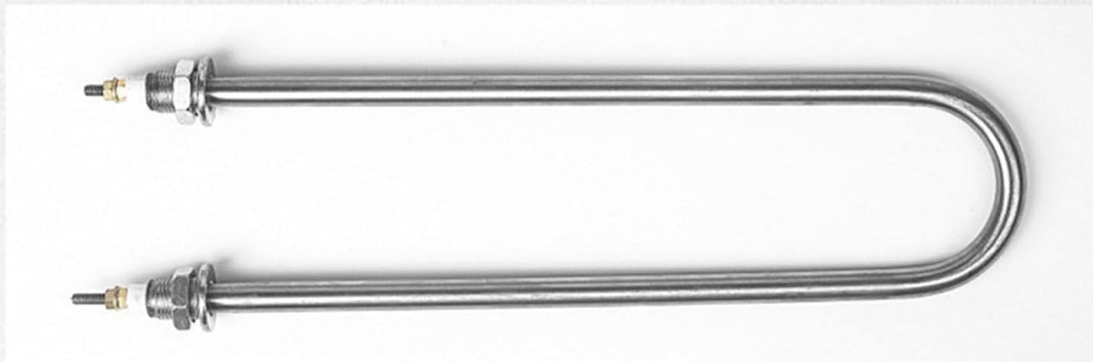
**2 shelves as standard**

## Special aluminum centrifugal fan blades



**Lightweight, faster speeds**

## Dual heating tubes



**Stainless steel double heating tube heating, durable, can be turned off a heating tube**

Figure 3: Internal components of the oven, showing the stainless steel standing racks, special aluminum centrifugal fan blades for air circulation, and dual heating tubes.

### 3.2 Key Features

- **Digital Microcomputer Control:** Intelligent temperature control with timing, alarm, and temperature calibration functions.
- **Constant Temperature Design:** Hot air circulation system with a high-temperature resistant fan and optimized air duct for uniform temperature distribution.
- **Over-Temperature Alarm:** Enhances safety by alerting users to excessive temperatures.
- **Durable Sealing:** New synthetic silicon sealing strip ensures good air tightness and long service life.
- **Enhanced Insulation:** Double-glazed windows provide improved thermal insulation.
- **Secure Door:** Lockable door handle for secure closure.
- **Power Protection:** Thyristor power-off protection for safe and long-term use.

## 4. SETUP

Follow these steps to set up your drying oven:

1. **Unpacking:** Carefully remove the oven from its packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.
2. **Placement:** Place the oven on a sturdy, level, and non-combustible surface. Ensure there is sufficient clearance (at least 10-15 cm) around all sides for proper ventilation. Avoid placing near heat sources or in direct sunlight.
3. **Internal Setup:** Install the two adjustable shelves into the desired positions within the oven chamber.
4. **Power Connection:** Connect the power cord to a grounded electrical outlet that matches the oven's voltage requirements (110V or 220V).
5. **Initial Cleaning:** Before first use, wipe the interior of the oven with a damp cloth to remove any manufacturing residues.

## 5. OPERATING INSTRUCTIONS

This section outlines the basic steps for operating the JINGEDD DHG202-0A drying oven.

### 5.1 Control Panel Overview

Refer to Figure 2 for a visual guide to the control panel buttons and displays.

- **PV Display:** Shows the current (Process Value) temperature inside the oven.
- **SV Display:** Shows the Set Value (target) temperature.
- **Function Keys:** Used to navigate menus and confirm settings.
- **Up/Down Keys:** Used to adjust numerical values (temperature, time).
- **Power Switch:** Turns the main power to the oven ON/OFF.
- **Heating Switch:** Activates/deactivates the heating elements.
- **Blower Switch:** Activates/deactivates the internal fan for forced air convection.

### 5.2 Basic Operation Steps

1. **Power On:** Ensure the oven is properly connected to power. Flip the main **Power Switch** to the ON position. The digital display will illuminate.
2. **Set Temperature:** Use the **Function Keys** to access the temperature setting mode. Use the **Up/Down Keys** to adjust the SV (Set Value) to your desired temperature (range: 50°C to 300°C). Confirm the setting with the appropriate **Function Key**.
3. **Set Timing (Optional):** If timing is required, use the **Function Keys** to access the timing setting mode. Use the **Up/Down Keys** to set the desired operation duration (range: 1 to 9999 minutes). Confirm the setting.
4. **Activate Heating and Blower:** Flip the **Heating Switch** to ON to begin heating. Flip the **Blower Switch** to ON to activate the forced air convection fan. The fan ensures uniform temperature distribution.
5. **Monitor Operation:** The PV display will show the current temperature inside the oven. The oven will automatically maintain the set temperature once reached.
6. **Completion:** Once the process is complete or the timer expires, the oven may sound an alarm. Flip the **Heating Switch** and **Blower Switch** to OFF.

7. **Power Off:** After the oven has cooled down sufficiently, flip the main **Power Switch** to OFF.

**Note:** Always allow the oven to cool down before opening the door to retrieve samples, especially after high-temperature operations.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drying oven.

- **Cleaning the Interior:** After each use, especially after spills, allow the oven to cool completely. Wipe the interior chamber and shelves with a damp cloth and mild detergent. Avoid abrasive cleaners. Ensure the interior is dry before next use.
- **Cleaning the Exterior:** Wipe the exterior surfaces with a soft, damp cloth. Do not use harsh chemicals or allow water to enter the control panel.
- **Door Seal Inspection:** Periodically inspect the silicone door seal for cracks, hardening, or damage. A damaged seal can lead to heat loss and inefficient operation. Replace if necessary.
- **Ventilation Check:** Ensure the air vents are free from dust and obstructions. Clean with a soft brush or vacuum as needed.
- **Power Cord Inspection:** Regularly check the power cord for any signs of damage, fraying, or cuts. Replace immediately if damage is found.

## 7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Oven does not power on.	No power supply; Power switch OFF; Damaged power cord.	Check power outlet; Ensure power switch is ON; Inspect and replace power cord if damaged.
Oven heats slowly or not at all.	Heating switch OFF; Incorrect temperature setting; Faulty heating element.	Ensure heating switch is ON; Verify temperature setting; Contact support if heating element is suspected faulty.
Temperature fluctuates significantly.	Door not properly sealed; Blower switch OFF; Overloaded chamber; Faulty temperature sensor.	Check door seal; Ensure blower switch is ON; Reduce load; Contact support if sensor is suspected faulty.
Over-temperature alarm sounds.	Temperature exceeded set limit; Sensor malfunction.	Check set temperature; Allow oven to cool; If problem persists, contact support.
Fan (blower) not working.	Blower switch OFF; Fan motor failure.	Ensure blower switch is ON; Contact support if fan motor is suspected faulty.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact JINGEDD customer support.

## 8. SPECIFICATIONS

Parameter	Value
Model	DHG202-0A
Display Mode	Digital Display
Working Chamber Size (L*W*H)	250mm * 250mm * 250mm
Each Layer Height	5cm
Overall Dimensions (L*W*H)	500mm * 340mm * 420mm
Temperature Control Range	50°C 300°C
Temperature Control Accuracy	±1°C
Temperature Fluctuation	≤2%
Timing Range	1-9999 minutes
Voltage	110V / 220V (Please verify your specific unit's voltage)
Power	0.6 kW (600W)
Shelves	Two (freely adjustable)
Inner Tank Material	Galvanized Sheet or Stainless Steel
Shell Material	Electrostatic Spray Cold Rolled Sheet
Item Weight	39.6 pounds (approx. 18 kg)
Manufacturer	JINGEDD

## 9. WARRANTY AND SUPPORT

Information regarding the product warranty and customer support contact details is not provided in the available product data. Please refer to your purchase documentation or contact your retailer for warranty terms and support options.

