

IKA 0020003957

IKA Oven 125 Basic Dry Oven - Glass Door

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the IKA Oven 125 Basic Dry Oven with Glass Door. Please read this manual thoroughly before operating the device to ensure proper usage and to prevent potential hazards.

The IKA Oven 125 Basic Dry Oven is designed for tempering, drying, aging, and heating applications in laboratory environments, suitable for use in industry, educational institutions, research, and quality control.



Figure 1: IKA Oven 125 Basic Dry Oven with Glass Door. This image displays the front view of the oven, highlighting its digital control panel and the transparent glass door, which allows for visual monitoring of samples inside.

2. SAFETY INFORMATION

Observe all safety precautions to prevent injury and damage to the equipment. This oven is intended for professional use only.

2.1 General Safety

- Always operate the oven on a stable, level, and non-combustible surface.
- Ensure adequate ventilation around the unit to prevent overheating.
- Do not operate the oven in explosive atmospheres or with explosive substances.
- Wear appropriate personal protective equipment (PPE), such as heat-resistant gloves, when handling hot materials or surfaces.
- Keep the area around the oven clear of flammable materials.

2.2 Electrical Safety

- Connect the oven only to a grounded power outlet with the correct voltage and frequency.
- Do not use extension cords or adapters unless absolutely necessary and rated for the oven's power requirements.
- Inspect the power cord regularly for damage. Do not operate the oven with a damaged cord.

- Disconnect the power supply before performing any maintenance or cleaning.

2.3 Temperature Safety

- The oven operates at high temperatures (up to 250°C). Surfaces will be hot. Avoid direct contact.
- Allow the oven to cool down completely before opening the door for an extended period or performing maintenance.
- Do not place items directly on the oven floor; always use shelves.
- Monitor the temperature display to ensure it is within safe operating limits for your application.

3. SETUP

3.1 Unpacking

1. Carefully remove the oven from its packaging.
2. Inspect the unit for any visible damage incurred during transit. Report any damage to the carrier and supplier immediately.
3. Remove all packing materials from inside the oven chamber and from the exterior.
4. Retain the original packaging for future transport or storage.

3.2 Placement

- Place the oven on a sturdy, level, and heat-resistant workbench or floor.
- Ensure there is sufficient clearance (at least 10 cm) around all sides of the oven for proper air circulation and heat dissipation.
- Avoid placing the oven near heat sources, direct sunlight, or in areas with excessive drafts.
- The ambient temperature should be within the specified operating range (typically 5°C to 40°C).

3.3 Electrical Connection

- Before connecting, verify that the local power supply matches the voltage and frequency specified on the oven's rating plate.
- Plug the power cord into a properly grounded electrical outlet.
- Ensure the power switch on the oven is in the "OFF" position before connecting to power.

4. OPERATING INSTRUCTIONS

The IKA Oven 125 Basic features a clear display and control menu for intuitive operation.

4.1 Powering On/Off

- To power on, flip the main power switch located on the control panel to the "ON" position. The display will illuminate.
- To power off, flip the main power switch to the "OFF" position.

4.2 Setting Temperature

1. Press the "Set" button (refer to the control panel diagram in the full manual for exact button location).
2. Use the up/down arrow keys to adjust the desired temperature. The temperature range is from RT + 5°C to 250°C.
3. Press "Set" again to confirm the new temperature. The oven will begin heating to the set point.

4.3 Adjusting Ventilation

The oven features electronically adjustable ventilation for precise control over the drying process.

- Access the ventilation settings through the control menu.
- Use the arrow keys to increase or decrease the fan speed or vent opening percentage.
- Confirm your selection to apply the changes.

4.4 Timer Function

The integrated timer allows for timed operations.

- Navigate to the timer settings in the control menu.
- Set the desired duration for the heating cycle.
- Once the timer expires, the oven will either switch off or enter a standby mode, depending on configuration.

4.5 Key Lock Function

To prevent accidental changes to settings, the control panel can be locked.

- Activate the key lock function via the control menu.
- To unlock, follow the instructions displayed on the screen or refer to the full manual.

4.6 USB Control and Data Logging

The IKA Oven 125 Basic can be controlled via USB, allowing for remote operation and recording of test parameters for further analysis.

- Connect the oven to a computer using a standard USB cable.
- Install the appropriate IKA software (available from the manufacturer's website) on your computer.
- Follow the software instructions for controlling the oven and logging data.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your IKA Oven 125 Basic.

5.1 Cleaning

- **Exterior:** Wipe the exterior surfaces with a soft, damp cloth and a mild detergent. Avoid abrasive cleaners or solvents.
- **Interior:** Ensure the oven is cool and disconnected from power. Remove shelves and clean the interior chamber with a soft cloth and mild, non-corrosive cleaning agent. Rinse with distilled water and dry thoroughly.
- **Glass Door:** Clean the glass door with a glass cleaner. Avoid scratching the surface.
- Do not spray cleaning agents directly into the control panel or ventilation openings.

5.2 Regular Checks

- Periodically check the power cord for any signs of wear or damage.
- Ensure the door seal is intact and free of debris to maintain proper insulation.
- Verify that ventilation openings are not obstructed.

6. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact IKA customer support.

Problem	Possible Cause	Solution
Oven does not power on.	No power supply; power cord disconnected; main switch off.	Check power connection; ensure main switch is on; check circuit breaker.
Oven not heating to set temperature.	Incorrect temperature setting; door not fully closed; faulty heating element.	Verify temperature setting; ensure door is sealed; contact service if heating element is suspected.
Temperature fluctuations.	Poor door seal; external drafts; sensor issue.	Check door seal; relocate oven away from drafts; contact service for sensor check.
Display shows an error code.	Internal fault; sensor error.	Note the error code and consult the full IKA manual or contact customer support.

7. SPECIFICATIONS

Technical data for the IKA Oven 125 Basic Dry Oven.

Model	IKA Oven 125 Basic Dry Oven
Item Model Number	0020003957
Temperature Range	RT + 5°C to 250°C
Capacity	125 liters
Ventilation	Electronically adjustable
Control	Clear display and control menu, USB controllable
Features	Key lock function, Timer, Adjustable temperature limit, Glass door
Product Dimensions	48 x 40 x 52 inches
Manufacturer	IKA

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official IKA website. IKA products typically come with a manufacturer's warranty covering defects in materials and workmanship.

For technical support, spare parts, or service inquiries, please contact your local IKA distributor or the IKA customer service department. Ensure you have your model number (0020003957) and serial number ready when contacting support.

IKA Contact Information:

Please visit the official IKA website for the most current contact details and support resources.