

Jingxin Technology JX100-2

Jingxin Technology JX100-2 Mini Dry Bath Incubator User Manual

Model: JX100-2 (MD06 Module: 16 x 15mm)

1. INTRODUCTION

This manual provides instructions for the safe and efficient operation of the Jingxin Technology JX100-2 Mini Dry Bath Incubator. The JX100-2 is a high-temperature dry-type thermostat controlled by a microcomputer, designed for precise temperature control in laboratory applications. It utilizes high-purity aluminum material as a heat-conducting medium, offering a wide temperature control range and high accuracy.

It is suitable for various applications including sample preservation and reaction, DNA amplification, electrophoresis pre-denaturation, and serum coagulation. The device features a two-level redundant hardware circuit design with an intelligent soft algorithm for stable and reliable operation, instant temperature display, and time decrement display.

2. SAFETY INFORMATION

- Always connect the instrument to a grounded power outlet.
- Do not operate the instrument if the power cord is damaged.
- Ensure proper ventilation around the unit to prevent overheating.
- Avoid spilling liquids onto the control panel or internal components.
- Do not touch the heating block when it is hot. Allow it to cool down before handling.
- Disconnect power before cleaning or maintenance.
- This instrument is designed for laboratory use only.
- The unit includes a built-in over-temperature protection device and automatic fault detection with a buzzer alarm.

3. PRODUCT OVERVIEW

3.1 Components

The JX100-2 Mini Dry Bath Incubator consists of the main unit, a heating block module, and a power cord. The main unit houses the control panel, LED display, and heating elements.



Figure 1: JX100-2 Mini Dry Bath Incubator with various sample tubes and heating block modules. The main unit features an LED display and control buttons. Several aluminum heating blocks are shown, designed to hold different sizes of test tubes and centrifuge tubes.

3.2 Control Panel

The control panel features an LED display for temperature and time, along with buttons for setting parameters.

- **LED Display:** Shows current temperature and remaining time.
- **Up/Down Arrows:** Adjust temperature and time settings.
- **Set Button:** Enters setting mode.
- **Start/Stop Button:** Initiates or halts the heating process.

4. SETUP

1. **Unpacking:** Carefully remove the incubator and all accessories from the packaging. Inspect for any damage.

2. **Placement:** Place the unit on a stable, level surface in a well-ventilated area, away from direct sunlight or heat sources. Ensure adequate space around the unit for air circulation.
3. **Module Installation:**
 - Ensure the unit is powered off and cool.
 - Gently place the desired heating block module (e.g., MD06 for 16 x 15mm tubes) into the chamber of the main unit. Ensure it sits flush.
 - The module is designed for convenient replacement, allowing for easy cleaning and disinfection.
4. **Power Connection:** Connect the power cord to the back of the unit and then to a grounded AC 100-220V, 50/60Hz power outlet.

5. OPERATING INSTRUCTIONS

1. **Power On:** Turn on the main power switch, usually located at the back or side of the unit. The LED display will illuminate.
2. **Setting Temperature:**
 - Press the **Set** button. The temperature display will flash.
 - Use the **Up** and **Down** arrow buttons to adjust the desired temperature. The temperature control range is from room temperature +5°C to 130°C.
 - Press **Set** again to confirm the temperature.
3. **Setting Time:**
 - After setting the temperature, press the **Set** button again. The time display will flash.
 - Use the **Up** and **Down** arrow buttons to adjust the desired incubation time (up to 99 hours and 59 minutes).
 - Press **Set** again to confirm the time.
4. **Starting Operation:**
 - Place your samples in the appropriate tubes and insert them into the heating block module.
 - Press the **Start/Stop** button to begin the heating and incubation process. The display will show the current temperature and countdown timer.
5. **Stopping Operation:**
 - To stop the process before the timer expires, press the **Start/Stop** button.
 - When the set time elapses, the unit will automatically stop heating and emit a buzzer alarm.
6. **Temperature Deviation Calibration:** The unit supports temperature deviation calibration for enhanced accuracy. Refer to the specific calibration procedure in the advanced settings menu, if available, or contact technical support for guidance.

6. MAINTENANCE

- **Cleaning:**
 - Ensure the unit is powered off and completely cool before cleaning.
 - Wipe the exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
 - The heating block modules can be removed for easy cleaning and disinfection. Clean them with appropriate laboratory detergents and rinse thoroughly. Ensure they are completely dry before re-inserting.

- **Module Replacement:** Modules can be easily interchanged to accommodate different tube sizes. Always ensure the unit is cool before replacing modules.
- **Storage:** When not in use for extended periods, store the incubator in a clean, dry environment.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Power cord loose or damaged; Power switch off.	Check power connection; Ensure power switch is on; Replace power cord if damaged.
Temperature not reaching set point.	Heating element malfunction; Incorrect temperature setting; Module not seated correctly.	Verify temperature setting; Ensure module is properly installed; Contact technical support.
Buzzer alarm sounds.	Over-temperature condition; System fault detected.	Check for error codes on display; Power cycle the unit; If alarm persists, contact technical support. The unit has automatic fault detection.
Inaccurate temperature reading.	Need for calibration; Sensor issue.	Perform temperature deviation calibration; Contact technical support if issue persists.

8. SPECIFICATIONS

Parameter	Value
Model	JX100-2
Temperature Control Range	Room temperature +5°C to 130°C
Temperature Stability (@40°C~100°C)	≤±0.5°C
Temperature Stability (@100°C~150°C)	≤±1°C
Module Temperature Uniformity	≤±0.5°C
Maximum Temperature Difference of Module (@40°C)	0.3°C
Display Accuracy	0.1°C
Heating Time (from 40°C to 150°C)	≤30 minutes
Long Time Setting	99 hours 59 minutes
Power	400W
Power Supply Voltage	AC 100~220V 50/60Hz
Dimensions	260mm x 220mm x 100mm
Weight	5.5 KG
Current Module (MD06)	16 x 15mm (Hole Depth 47mm)

8.1 Optional Modules

The JX100-2 supports various interchangeable heating block modules to accommodate different sample tube sizes:

- MD01: 48 x 6mm (hole depth 47mm)
- MD02: 48 x 7mm (hole depth 47mm)
- MD03: 24 x 10mm (hole depth 47mm)
- MD04: 24 x 12mm (hole depth 47mm)
- MD05: 24 x 13mm (hole depth 47mm)
- MD06: 16 x 15mm (hole depth 47mm)
- MD07: 16 x 16mm (hole depth 47mm)
- MD08: 12 x 19mm (hole depth 47mm)
- MD09: 12 x 20mm (hole depth 47mm)
- MD10: 8 x 26mm (hole depth 47mm)
- MD11: 4 x 28mm (hole depth 47mm)
- MD12: 3 x 40mm (hole depth 47mm)
- MD13: 48 x 0.2ml (centrifuge tube)
- MD14: 48 x 0.5ml (centrifuge tube)
- MD15: 24 x 1.5ml (centrifuge tube)
- MD16: 24 x 2.0ml (centrifuge tube)
- MD17: 96 x 0.2ml (standard plate)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact your supplier. Ensure you have your model number (JX100-2) and purchase date available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question