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## ONiLAB HB120-S

# ONiLAB Scientific Dry Bath Incubator User Manual

Model: HB120-S

## 1. INTRODUCTION

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Thank you for choosing the ONiLAB Scientific Dry Bath Incubator, Model HB120-S. This device is designed for precise temperature control in various laboratory applications, including sample preparation, enzyme preservation, enzyme-substrate reactions, DNA amplification, electrophoresis gel degeneration, and serum coagulation. It can also be used for making Plasma Bio Gels. This manual provides essential information for the safe and efficient operation of your dry bath incubator.



Figure 1: ONiLAB Scientific Dry Bath Incubator HB120-S. This image shows the compact design of the dry bath incubator with its control panel and heating block chamber.

## 2. SAFETY PRECAUTIONS

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Please read and understand all safety information before operating the device. Failure to follow these instructions may result in injury or damage to the equipment.

- Always operate the incubator on a stable, level surface.
- Ensure proper ventilation around the unit.
- Do not block the ventilation openings.
- Use only the specified power supply and voltage.
- Avoid spilling liquids into the unit. In case of spillage, immediately disconnect power and clean thoroughly.
- The unit features overheating protection to ensure safety. It conforms to international safety standards and regulations marked with CE, cTUVus, and FCC.

- Do not touch the heating block or samples during operation as they will be hot. Allow the unit to cool before handling.
- Disconnect power before cleaning or maintenance.

# Security

- **Overheating protection**

- **Marked with CE  
cTUVus and FCC**



Figure 2: Security features of the ONiLAB Dry Bath Incubator. This image highlights the overheating protection and compliance with CE, cTUVus, and FCC safety standards.

### 3. PACKAGE CONTENTS

Carefully unpack the box and verify that all items listed below are present and undamaged. If any items are missing or damaged, please contact ONiLAB customer support.

- 1 x Mini Dry Bath Incubator (HB120-S)
- 1 x 40 x 1.5ml Heating Block
- 1 x Lid for quick heating
- 1 x Tool for block removal/insertion

## Package Included



- ① 1 x Mini Dry Bath Incubator
- ② 1 x 40 x 1.5ml heating block
- ③ 1 x Lid for quick heating
- ④ 1 x Tool for block

Figure 3: Contents included in the ONILAB Dry Bath Incubator package. This image visually lists the main unit, heating block, lid, and a tool for the block.

## 4. PRODUCT OVERVIEW

The ONILAB HB120-S Dry Bath Incubator features an intuitive LED display and control knob for easy operation. The unit is designed to accommodate various heating blocks for different tube sizes and applications.

### 4.1. Control Panel

# LED Display For Easy Use

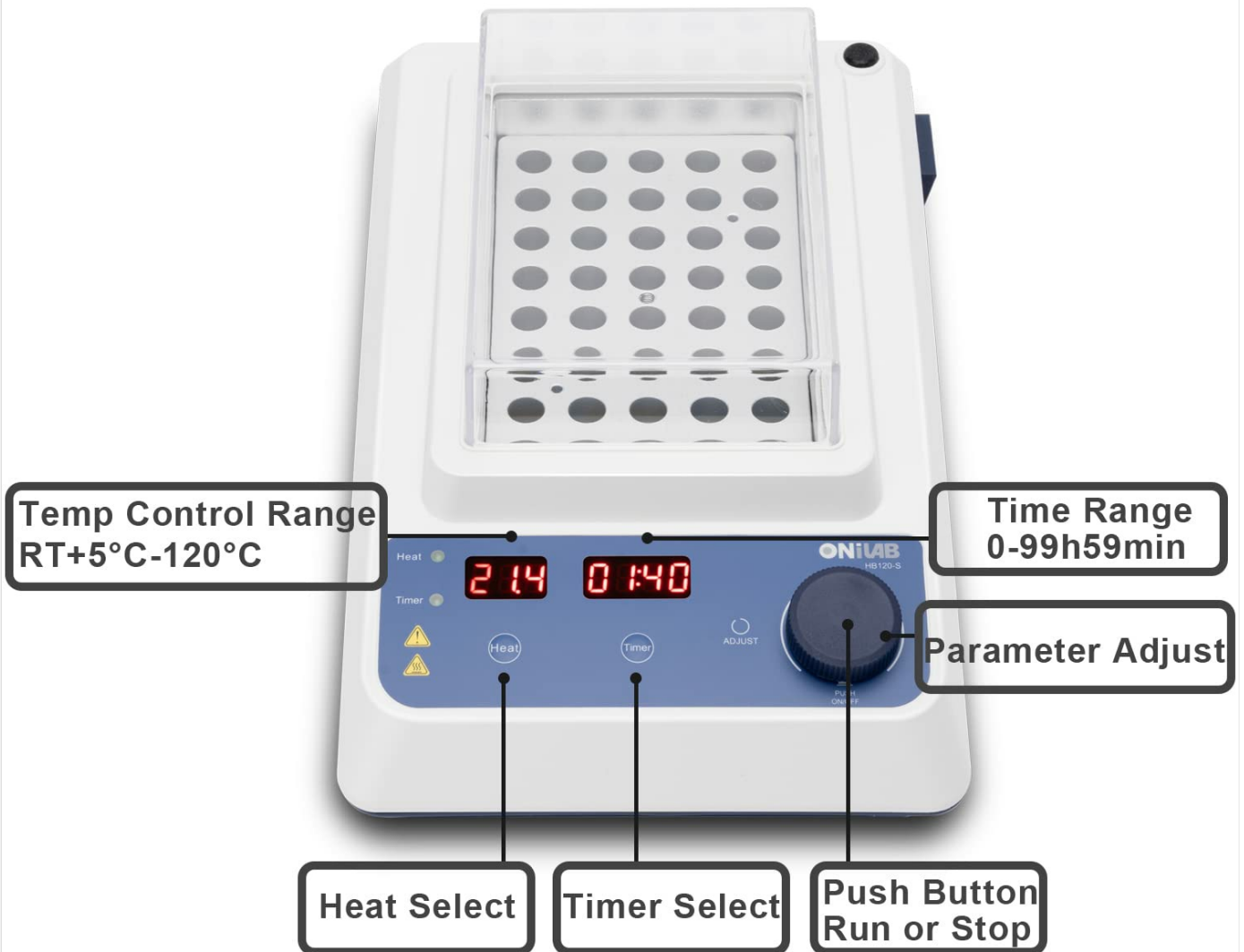


Figure 4: LED Display and Control Panel. This image labels the key components of the control panel including the LED display for temperature and timer, Heat Select button, Timer Select button, Parameter Adjust knob, and Push Button for Run/Stop.

- **LED Display:** Shows current temperature and remaining time.
- **Heat Select Button:** Used to select and adjust temperature parameters.
- **Timer Select Button:** Used to select and adjust timer parameters.
- **Adjust Knob:** Rotates to change values, push to confirm or start/stop operation.

## 4.2. Heating Blocks

The HB120-S comes with a 40 x 1.5mL heating block. The hole diameter is  $\Phi 11$  mm and the hole depth is 34.7mm, suitable for conical tubes. Various other blocks are available separately for different applications.

## Multiple Blocks For More Selections

1.5ml block included in box



Figure 5: Examples of various heating blocks available for the ONILAB Dry Bath Incubator. This image shows different block configurations for 0.2mL, 0.5mL, 1.5mL, 2mL, 5mL, 15mL, 50mL tubes, PCR strips, microplates, and a bead bath/water bath option.

## 5. SETUP

1. **Placement:** Place the dry bath incubator on a stable, level, and heat-resistant surface away from direct sunlight and heat sources. Ensure adequate space for ventilation around the unit.
2. **Insert Heating Block:** Carefully place the desired heating block into the chamber. Ensure it sits flush and securely.
3. **Connect Power:** Plug the power cord into the back of the unit and then into a grounded electrical outlet.
4. **Initial Power On:** Press the "PUSH ON/OFF" knob to turn on the unit. The LED display will illuminate.

## 6. OPERATING INSTRUCTIONS

### 6.1. Setting Temperature

1. With the unit powered on, press the **Heat Select** button. The temperature display will flash.

2. Rotate the **Adjust Knob** to set the desired temperature. The temperature range is 15°C to 120°C.
3. Press the **Adjust Knob** to confirm the setting. The display will stop flashing.
4. The unit will begin heating to the set temperature. The actual temperature will be displayed.



## Precise Temp Control

- °C Temperature setting  
15°C-120°C
- Temp Control Accuracy  
±0.5°C
- Temp Uniformity  
±0.5°C
- Max. heating rate  
5.5°C/min

Figure 6: Precise Temperature Control features. This image illustrates the temperature setting range (15°C-120°C), temperature control accuracy ( $\pm 0.5^{\circ}\text{C}$ ), temperature uniformity ( $\pm 0.5^{\circ}\text{C}$ ), and maximum heating rate (5.5°C/min).

## 6.2. Setting Timer

1. Press the **Timer Select** button. The timer display will flash.
2. Rotate the **Adjust Knob** to set the desired time. The time range is 0-99 hours and 59 minutes (0-99h59min).
3. Press the **Adjust Knob** to confirm the setting. The display will stop flashing.
4. The timer will start counting down once the set temperature is reached.

## 6.3. Starting and Stopping Operation

- After setting both temperature and timer, press the **Adjust Knob** (PUSH ON/OFF) to start the heating and timing

process.

- To stop the operation at any time, press the **Adjust Knob** again.
- When the timer reaches zero, the heating will stop, and an audible alarm may sound (if applicable).

## 7. MAINTENANCE

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### 7.1. Cleaning

- Always disconnect the power cord before cleaning.
- Wipe the exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- For the heating block, remove it from the unit and clean with a mild detergent solution if necessary. Ensure it is completely dry before reinserting.
- Do not immerse the unit in water or any other liquid.

### 7.2. Storage

When not in use for extended periods, store the dry bath incubator in a clean, dry environment, preferably in its original packaging.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Unit does not power on.	Power cord not connected; Power outlet faulty; Unit fuse blown.	Check power cord connection; Try a different outlet; Contact customer support for fuse replacement.
Temperature not reaching set point.	Heating block not properly seated; Ambient temperature too low; Faulty heating element.	Ensure heating block is fully inserted; Operate in a suitable environment; Contact customer support.
Display shows error code.	Internal malfunction.	Note the error code and contact ONiLAB customer support with the details.

## 9. SPECIFICATIONS

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Parameter	Value
Model	HB120-S
Temperature Control Range	15°C to 120°C
Temperature Control Accuracy	±0.5°C
Temperature Uniformity	±0.5°C
Time Range	0-99h59min
Heating Block Included	40 x 1.5mL (Hole diameter: Φ11mm, Hole depth: 34.7mm)
Product Dimensions (L x W x H)	11.41 x 6.88 x 3.34 inches
Product Weight	4.29 Pounds

Parameter	Value
Safety Certifications	CE, cTUVus, FCC
Manufacturer	ONiLAB

## 10. WARRANTY AND SUPPORT

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ONiLAB provides a **1-year warranty** for this product from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For any questions, technical assistance, or warranty claims, please contact ONiLAB customer support. Please have your model number (HB120-S) and purchase information ready when contacting support.

You can find contact information on the official ONiLAB website or through your point of purchase.

*ONiLAB is a manufacturer with over 20 years of experience in lab products, committed to providing excellent service.*