

1. INTRODUCTION

This manual provides important safety information for this Dry Bath. It should be kept near the equipment for quick & easy reference. The Dry Bath is equipped with better display for safe operations. This dry bath has range from ambient +5°C to 120°C, making it useful for wide range of applications. Probe is provided for monitoring accurate temperature of samples.

2. INTENDED USE

The dry bath is intended to use for specific applications such as Enzymatic / kinetic reactions Denaturation of DNA/RNA and protein samples, Labelling of nucleic acids and proteins, quantification assays, Lysis reactions, Immune precipitation etc.

NOTE: Before using the instrument, please read this user manual carefully. This user manual is intended to assist with the operation and care of the unit only and not to replace for repair please contact the supplier.

3. FEATURES

- Dry heating block with temperature control range from ambient +5°C to 120°C.
- Aluminum made blocks, resistant to chemical spillage & temperature shocks.
- 1 heating blocks with long timer range from 1min- 99hr 59mins & infinite mode.
- Clear display shows critical parameters. Can be used as heat bath & water bath.
- Various tube capacity with convenient lifting gear for cleaning & disinfecting.
- Rapid heating & constant temperature across the blocks throughout operation.
- Built-in safe temperature protection.

4. STANDARD ACCESSORIES

- Power Adapter, Dry Block (Refer Product user manual & warranty card)

5. TECHNICAL SPECIFICATIONS

Temperature Range	Ambient +5 to 120°C
Temperature Uniformity	± 0.1°C
Temperature Stability	± 0.1°C
Set up Block material	Aluminium alloy
Number of Blocks	1 Nos.
Display	Digital
Rise Time & Mode	Locks to 99hr 59mins
Ambient Temperature	5-40°C
Permissible Relative Humidity	60%
IP Rating	IP21
Dimensions with block (H)	180 x 70 x 140 mm
Power Adapter Detail	Input - 100-240 VAC, 50/60 Hz Output - 10V 770 mA
Power Consumption	25 W
Altitude	Use upto an altitude of 5000 m above MSL
Relative Degree	1
Environment	For indoor use only

6. SAFETY PRECAUTIONS

- Read all safety & usage information provided in this manual carefully before using the device.

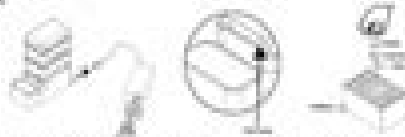
- Never use the instrument in any manner not specified in this manual or by the manufacturer might result in the loss of warranty.
- Repair must only be performed by authorized service technician.
- Only use recommended original spare parts for best result & product safety.
- If liquids are spilled in blocks, the instrument must be cleaned carefully and properly before being used again.
- Prior to operation, the tubes should be visually inspected for material damage.
- Damaged tubes must not be used as this can result in sample loss and the contamination of the product.
- This product must be used for specified applications only. It must not be operated in flammable or combustible environment and must not be used to mix explosive or highly reactive substances.
- Do not place the potential hazardous material within the clearance area envelope.
- Wear your personal protective equipment in accordance with the hazard category of the medium to be processed. There is risk of liquid splashing.
- Do not move the instrument while it is operating or connected to the main power supply.
- Do not touch the block surface when temperature of dry bath is over 60°C. This could result in serious burns or injury. Pay attention to the residual heat after switching off.
- Properly lift the device with both hands while moving or installing. Also, the device should only be moved from its position once it attains the room temperature.
- Ensure that only closed tubes are used in thermal reactions.
- Do not lean on the equipment. It may damage the equipment or harm the operator.
- Do not fill tubes near the device. Liquid spillage may harm the device.
- In the event of contamination caused by aggressive agents, the device must be cleaned immediately using a neutral cleaning liquid. If any damage is seen, contact the service technician.
- Only process media which will not react dangerously to the radio energy produced by mixing.
- Do not operate the appliance in explosive atmosphere with hazardous substances or under water.

7. INSTALLATION

Gently remove the upper packaging and take out the dry bath by holding it from the bottom. When this equipment is used for the first time, ensure that all the packaging accessories are removed from the product.

LOCATION & MOUNTING

Place the device on a flat and levelled surface and ensure that all four feet stand on the surface firmly. Avoid installing on a slippery surface or surface prone to vibration.



1. Ideal ambient temperature is 20°C ± 5°C, avoid placing the device in direct sunlight.
2. Keep clearance of at least at least 30 cm from all sides to guarantee cooling

efficiency

1. Keep this away from heat or water to avoid sample temperature issues.
2. Do not place the device in such a place that it becomes difficult to operate.
3. Lid extended can be used with 15 and 50ml block to increase the height of the dry bath ensuring the closure of the lid to maintain the Temp. uniformity

8. REMOVING & INSTALLING BLOCKS

REMOVING BLOCKS

Device blocks can be removed / changed by a simple screwing device in to the blocks for lifting/removing/changing the blocks. Above image shows the process to remove blocks.

INSTALLING BLOCK

Follow the exact reverse process to insert the blocks back to dry bath. Above image shows the step by step procedure to replace the blocks back in the unit.

9. USER INTERFACE & DISPLAY



CONTROL PANEL OPERATION

Action	Function
[Start/Stop]	Start/Stop button for operation start and stop.
[Mode]	1. Pulse / pulse mode selection (long press double condition) 2. Time / time change (single press)
[Temp +/-]	(+) and (-) button will increase or decrease the value of temperature (only Temp. setting allowed)

ALL LED will blink as per status of command.

10. OPERATION

SWITCH ON THE DEVICE

After connecting the power cord, switch ON the main power supply. Make sure that tubes are placed properly in the wells.

10.1 START /STOP OPERATION

- Single Press this button to "START" Operation (as per set Time, Temp & Mode).
- With the start of operation, temperature will increase on display. Press this button again to "STOP".

10.2 MODE

- When we select the "MODE" button we can enable Time and Temperature Mode alternate. To change its value Press (+) and (-) button.
- You can set time from 1 min to 99hr 59mins or infinite "∞" Mode.
- The TMA value will increase by 1 min by single press (+) button.
- After adjusting Temp & time, value will be seen after 3 times clicks and then it will show power home screen alternatively.

10.2.1 HEATING FUNCTION

- You can set Temperature from Ambient + 5°C to 120°C.
- The temperature value will increase by 0.1°C by single press (+) button & decrease by (-) button. The temperature remains in Celsius (°C).
- With the start of unit, display show value for temperature function default.

Lumina Signature Lumd150 1 User Guide

SJ Ball



Lumina Signature Lumd150 1 User Guide:

Adopting the Song of Term: An Emotional Symphony within **Lumina Signature Lumd150 1 User Guide**

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