

Operator's Manual

Dry Bath Incubator [DBI 33]



MODEL: DBI -33

❖ **Special Care:** Special care to be taken when using this Device.

- Bio-Hazard material: In case of breakage or leakage of tube containing bio-hazard material please follow – Bio-Hazard safety manual for decontamination process approved by your institution. Use only our suggested cleaning agents.

❖ **Item Insert :**

- 1) Dry Bath Incubator
- 2) Power Cord
- 3) Operator's Manual

❖ **Specifications :**

Sr.No.	Specification	Model No : DBI - 33
1	Mains Input	230v, 50Hz / 110v, 60Hz, AC
2	W x D x H	168 (W) x 232 (D) x 93 (H)
3	Body	Metal Body
4	Weight	2.3 Kg. Net
5	Temp.Controller	Digital Type
6	Temp. Range	37°C To 70°C
7	Accuracy	0.5°C @ 37°C, 3% Except 37°C
8	Heating Block	To be order separately as required
9	Timer	1 To 999 (Digital Type)



We reserve our right to modify specification for technical upgrade.

❖ **Intended Use :**

To warm up the sample blood tubes up to 70°C from ambient temperature.

❖ **General Safety Instruction: Must be followed by users**

- 1) DANGER – Misuse of electrical equipment can cause electrocution, burns, fire and other hazards. Basic safety precautions always should be taken, including all those listed below.
 - 2) Close supervision is necessary when equipment is used by or near children, handicapped persons or invalid persons.
 - 3) Check that the voltage setting matches the supply voltage.
 - 4) Plug the equipment into a supply outlet which has an earth connection.
 - 5) Switch off the MAINS supply, immediately after use.
 - 6) Do not place the equipment in liquid, nor put it where it could fall into liquid. If the equipment becomes wet, unplug it before touching it.
 - 7) Use the equipment only for the purpose described in the instructions for use / intended use.
 - 8) Do not use accessories which are not supplied or recommended by the manufacturer.
 - 9) Do not use the equipment if it is not working properly or if it has suffered any damage. Note Examples of typical defects include.
 - a] Damage to the flexible supply cord or its plug.
 - b] Damage caused by dropping the equipment.
 - c] Damage caused by dropping the equipment into water or splashing water on to it.
- Send this device to service center without delay.**
- 10) Do not let the equipment or its flexible cord come into contact with surfaces which are too hot to touch.

- 11) Do not block air openings nor place equipment on a soft surface which might block them, and keep air openings free from lint, hair, fluff, etc
- 12) Do not place anything on top of the equipment.
- 13) Unless specifically instructed to do so by the instruction for use, do not drop or put anything into any opening in the equipment. Or into any hose or coupling or vessel.
- 14) Do not use the equipment where aerosol sprays are being used: or where oxygen is being administered.
- 15) Do not use the equipment out of doors.
- 16) It is essential safety requirement that, electrical supply line must have ELCB / RCCB and proper earthing connection at socket.
- 17) It is recommended to have easy approach without any hurdle to main supply socket and switch.

❖ **Installation Procedures :**

It is essential to follow the procedure for Installation, setup, and initial testing of device before use.

- a. Put device cartoon in upright position. Open from top to unpack the device. Verify that all item insert listed on page 1 are in the package
- b. Inspect visually the device to conform that it is not damage during transits.
- c. If damaged , Notify freight carrier and distributor immediately
- d. **Select the place to install the device by considering the following criteria.**
 1. Install on flat, leveled, strong stationary surface free of vibration.
 2. It is recommended to provide 24" x 24" x 24" [H x W x D] space for device on rigid platform.
 3. It is essential to have good cool ventilation to avoid over heating of samples and device. The overheating may lead to premature failure of device.
 4. Power source: 220v (+/- 10v)/50 Hz & 110v (+/- 10v)/60 Hz, Properly ground power outlet with easy access in case of emergency is desirable

❖ **Set-Up and operating Procedure**

1. Connect the device to power outlet. Turn power switch "**ON**".
2. The machine will start for functional work.
3. Display will show default Temperature and timer setting (37 degree and 30 Minutes respectively).

❖ **Front Control Panel :**



Consist of the following operating SWITCHES, LED and displaying console.

[A] SWITCH Operations.

1] For Adjustment of “TEMP”

UP : It is a Programming switch, by pressing it, user can increase the Temp.
DOWN : It is a Programming switch, by pressing it, user can decrease the Temp.

1] For Adjustment of “TIME”

UP : It is a Programming switch, by pressing it, user can increase the Temp.
DOWN : It is a Programming switch, by pressing it, user can decrease the Temp.

4. PROCEDURE To set TEMPERATURE & TIME :-

1. **TEMPERATURE SETTING** :- In temperature section on label “TEMP”, press “UP” key to increase temperature **OR** press “DOWN” key to decrease temperature.

NOTE: - While “UP” or “DOWN” keys are pressed “TEMP” in display will blink.

2. **TIME SETTING** :- In temperature section on label “TIME”, press “UP” key to increase time **OR** press “DOWN” key to decrease time

NOTE: - While “UP” or “DOWN” keys are pressed “TIME” in display will blink.

3. Once desired Temperature & Time are SET, press “STA” key to start warming process.

NOTE: - Once “STA” key is pressed, “TEMP” or “TIME” will stop blinking in display. They will be steady, which shows machine is now under working condition

4. In center of display “HTR” will show condition of heater i.e.:- “ON” or “OFF”.
5. If user needs to use machine at default setting (37 degree and 30 Minutes respectively), they need to turn power switch “ON” & press “STA” key. Machine will run at this setting.
6. Once set time is over, machine will give buzzer sound and stop working.

❖ **Heating Block Replacement Procedure:**

1. Remove the supply power cord from device.
2. It is advisable to wait till heating block turns cool before replacing it.
3. Open the two screws provided on top side of heating block.
4. Hold the top side knob and pull the block toward top side with little force.
5. Note: Never give power supply to device when the block is removed, it will damage device.
6. Put the required Heating block in place and fix the two screws from top side.
7. Fix the power supply cord.

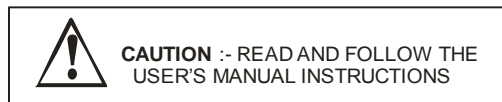
❖ **Lifting, shifting or carrying centrifuge after installation:**

If required to lift the device than lift it with both hand, holding in installed position from bottom side. You can put the device on any level surface, which must be free of vibration. If need re-installation than refer installation procedure of manual

❖ **Intermittent Operation Limit :**

It is advice to allow 15 minutes cooling time (Off Time) after every 120 Minutes use Of Device.

❖ **Explanation of warning statement marked on Equipment :**



It is not convenient to print all instruction on device. Hence it is essential for safety and utility purpose to read, understand and follow this user's manual.

❖ **Transport and storage Instruction :**


- a. Preferably, keep device straight (Top in up-right position) during transport and storage.
- b. It can be store in 5°C to 50°C temperature area.
- c. The device must be saved from water showers.
- d.

❖ **Procedure of cleaning and decontamination.**

Also in case sample tube break during spinning:

- 1) Remove power supply cable from socket. Do not Connect plug if device is wet.
- 2) Use safety gloves, to save your fingers from broken glass and contamination.
- 3) Remove sample tubes, outer bucket tubes for cleaning and decontamination.
- 4) Device can be cleaned with **soap and water, gentle bleach or Isopropyl Alcohol**. Use of any **other disinfectant may damage** the device and parts, so not permitted.
- 5) Clean the device and parts by wiping with cleaning agents. The Deeping in chemical for long time may damage the parts.

❖ **Care and preventive Maintenance :**

- a) **Cleaning of Spillage:** it is essential to clean device when breakage of sample tube occurs. *ALWAYS USE PROPER BIO-HAZARD SAFETY PROCEDURE WHEN CLEANING OF THIS DEVICE.*
- b) **Routine cleaning:** It is recommended to clean device at every six month.
 **Caution: Always remove power cord from source plug before PERFORMING any type of service or cleaning to device.**
- c) **Electrical components:** Do not need any routine or preventive maintenance.
- d) If device need to send to service center than it must be cleaned and decontaminated for safety.
- e) It is advised to get check earthing continuity after every 12 month.

❖ **Caution :**

- 1] “If the equipment is used in a manner not specified by the manufacturer, the protection provide by the equipment may be impaired”
- 2] It is recommended to enter in annual service contract after warranty, other wise The protection provided by equipment may be impaired.
- 3] Never set high temperature for more than 20 minutes, which may damage heater.
- 4] If the device does not start even after switching on, then check the Fuse at the backside and replace with a fresh 5 Amp. Fuse, if necessary and restart.