

# Operating Instructions

## Labnet Mini Incubator

I5110  
&  
I5110-230

**Labnet**   
**Labnet International, Inc.**

PO Box 841 • Woodbridge, NJ 07095 USA  
Phone: 732-417-0700 • Fax: 732-417-1750

July 2003

## 1. Specifications

The Labnet Mini Incubator is a compact general purpose convection incubator capable of uniformly heating samples up to a maximum of 60C. The unit comes with a movable shelf and has a door window area so samples can be observed without opening the door causing heat loss.

Temperature range: ambient +5C to 60C    Controls: analog –hydraulic  
Unit size w x d x h: 28.5 x 28 x 33.5 cm    Unit weight: 8.3 kg  
Chamber w x d x h: 23 x 20 x 20 cm (.325 cu. ft.)  
Accessories: one movable stainless steel shelf  
Electrical: 115V, 50/60 Hz, 0.6 amps or 230V, 50/60 Hz. 0.3 amps

Inspect the unit and accessories thoroughly upon receipt. If any item is damaged, contact the carrier immediately. The carrier is responsible for shipping damage. Also verify that all accessories are included and that the unit is in good working order before discarding the shipping packaging.



**Your satisfaction and safety require a complete understanding of this unit. Read the instructions thoroughly and be sure all operators are given adequate training before attempting to put the unit in use. NOTE: This equipment must be used only for its intended application; any alterations or modifications will void your warranty and may cause injury.**

## 2. Installation

Local city, county, or other ordinances may govern the use of this equipment. If you have any questions about local requirements, please contact the appropriate local agency. Installation may be performed by the end user.

### 2.1 Power Source

Check the data plate for voltage, cycle, wattage and ampere requirements. If matched to your power source, plug the power cord into a grounded outlet. Voltage should not vary more than 10% from the data plate rating.

### 2.2 Location

In selecting a location, consider all conditions which might effect performance, such as heat from radiators, autoclaves, etc. Avoid direct sun, fast-moving air currents, heating/cooling ducts and high traffic areas. Allow a minimum of 5cm between the unit and walls or partitions which might obstruct free airflow.

### 3. Controls Overview

#### 3.1 Power Switch (Front Panel)

The main power switch is on the front panel and controls all power to the unit. The switch will light when the unit is energized.

#### 3.2 Temperature Controller (Front Panel)

This control knob is marked TEMPERATURE. It controls the incubator oven operating temperature on a scale of 1 to 10.

#### 3.3 Heating Lamp (Front Panel)

This light is ON when unit is heating. When the unit has reached the set point temperature the light will be on only when the unit is calling for heat to maintain temperature.

### 4. Operation



**Do not use this incubator in explosive or flammable environments. Do not heat or incubate flammable, explosive or highly reactive materials in this incubator as serious injury may result.**

**4.1** Place the unit on a level surface and plug the unit into a properly grounded outlet of appropriate voltage.

**4.2** Install the shelf at the desired height, shelf edges down. If you intend to place samples on the bottom of the chamber, install the shelf so that it sits edges down on the chamber bottom thus creating an air gap between the chamber bottom and your samples. When installing your shelf, remember to leave clearance for the thermometer bulb which will come down from the roof of the chamber.

Additional shelves can be purchased through your Labnet representative if you need them.

**4.3** Gently insert the user supplied thermometer into the hole in the top of the incubator. Inserting or removing the thermometer too quickly can dislodge the rubber grommet used to hold the thermometer. For maximum accuracy, insert the thermometer to a point where the thermometer immersion line is just inside the incubator chamber.

**4.4** Push the power switch to the ON position. The switch should illuminate.

**4.5** Set the Temperature Controller to 10. When the thermometer reaches the desired operating temperature, turn the control down until the heating light turns off. Wait for the temperature to stabilize. Make small adjustments up and down as required until the desired operating temperature is obtained. Allow the unit to stabilize between each adjustment. Temperature stability is obtained when the HEATING lamp is going on and off automatically and the temperature remains constant.

## 5.0 Cleaning and Maintenance



**Prior to any cleaning or maintenance of the unit, disconnect the power cord from the wall outlet.**

**5.1** No routine maintenance on the unit is required.

**5.2** Clean the unit internally and externally with a damp cloth and mild soap. Do not immerse the unit or spill liquids into or on the unit. Use of alcohol or ammonia based cleaners on the door window may cause the window to craze.

Allow the incubator to dry completely inside and out before reconnecting the power and using.

## 6.0 Troubleshooting and Service

If the unit fails to operate, check that the unit is plugged into a properly grounded working wall outlet. Check that the unit is switched on and the power switch is illuminated and that the temperature controller is turned up. Finally, check the fuses.

If return of the unit is needed, contact Labnet's Service Department for return authorization at 1-732-471-0700. Please have the serial number of the unit available when you call.