

Labnet Accublock™ Mini Digital Dry Bath

Instruction Manual

Catalog Numbers:

D0100

D0100-230V



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1.0 Safety Information

1.1 Symbols and Conventions

The following chart is an illustrated glossary of the symbols that may be used in this manual or on the product.



CAUTION: This symbol refers you to important operating and maintenance (servicing) instructions within the product Instruction Manual. Failure to heed this information may present a risk of damage or injury to persons or equipment.



WARNING: To avoid accidental burning be very careful touching the heater block of the unit. It can be very hot after it is used at high temperatures. Allow the heater block to cool down before handling.

1.2 Safety Precautions

- Do not use this product in an explosive environment.
- Do not use in the presence of flammable or combustible material.
- Do not heat substances that react violently when heated.
- Do not touch area around the block or block well when unit is hot.
- Do not spill liquids into the well area or into the unit.
- Connect the unit only to a properly grounded outlet.



CAUTION: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.



CAUTION: Hot surfaces that can burn or cause injury.

Use of this product in any manner not specified by the manufacturer or modification of the product may cause injury and/or may void the warranty. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTES:

- The equipment should be used in a basic electromagnetic environment only.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this Instruction Manual, may cause harmful interference to radio communications. Operation of equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference.

2.0 Specifications

Temperature range	Ambient, 5° to 100°C
Temperature increments	0.1°C
Temperature uniformity	0.8°C
Temperature accuracy	0.8°C
Timer	0 to 19 hours 59 minutes or continuous
Block	Anodized aluminum
Block capacity	12 x 1.5 mL tubes
External temperature range	5°C to 40°C (up to 80% RH at 31°C, decreasing linearly to 50% RH at 40°C)
Dimensions (W x D x H)	5.5 x 4.8 x 2.4 in. (14 x 12 x 6 cm)
Weight	2.2 lbs. (1 kg)
Electrical	24 VDC, 1.25A, 30W
Adapter input	AC100-240V or 100-240VAC, 50/60 Hz, 1.5A, 30W
Protection class	IP21

This ISM device complies with Canadian ICES-001.

Cet appareil ISM est conforme à la norme NMB-001 du Canada.

The Labnet Accublock Mini Digital Dry Bath is designed to be safe when operated under the following conditions:

- ▶ Indoor use
- ▶ Altitude up to 2,000 meters
- ▶ Pollution Degree 2

3.0 Package Contents

- ▶ Labnet AccuBlock™ Mini dry bath
- ▶ Labnet AccuRack™ transfer rack
- ▶ Switching power adapter
- ▶ Instruction manual

4.0 Installation

Select a location that is dry and not subject to drafts or moving air from heating or air conditioning vents, or air blown by other equipment. Place the unit on a flat, non-flammable surface. Allow sufficient room around the unit for access and cooling. Six inches (15 cm) minimum on all sides. The unit is now ready for use.

5.0 Controls



6.0 Operation

1. Turn the unit On using the Main Power switch on the rear of the unit.
2. The LCD will display a self test and the LED will illuminate.
3. After two seconds the unit will enter normal operation and display the current temperature of the block.
4. Press the Up or Down buttons to set the block to the desired temperature. The display will change to the current temperature set point. The temperature is set in 0.1°C increments. Holding the Up or Down button for more the eight seconds will increase or decrease the set point rapidly. The display will automatically return to current temperature four seconds after the button is released.
NOTE: The temperature may not be adjusted with the unit actively heating the block.
5. The temperature setting will be stored in memory when the display returns to the current block temperature. This setting will be retained if the power is turned Off. **NOTE:** The display must return to current temperature before the power is turned Off or the new set temperature will NOT be saved.
6. Press START/STOP to begin the temperature control. The Heat LED will illuminate as the heater is actively heating.
7. The LED will turn On and Off with the heating element. During heating, it is normal for the LED to blink On and Off.
8. The LED will not be illuminated when the units is turned Off and when the heater is not actively heating the block.
9. The maximum set temperature is 101°C.
10. The Mode switch will scroll through current temperature, the elapsed time from the press of the START button and countdown timer.

6.1 Heating and Countdown Timer

1. Turn the unit On using the Main Power switch.
2. Press the Up or Down buttons to set the block to the desired temperature. Holding the Up or Down button for more the eight seconds will increase or decrease the set point rapidly. The display will automatically return to current temperature four seconds after the switch is released. **NOTE:** The Timer may not be adjusted with the unit running.
3. Press the Mode button until 1:00 is displayed. This is the default Count Down timer setting. The maximum time is setting is 19:59.
4. Press the Up or Down button to set the desired countdown time.
5. Press START/STOP to begin heating.
6. The LCD will alternate between actual temperature and time remaining.
7. When time runs out, the LCD will alternate between the current temperature and "---". The beeper will sound when "---" is displayed.
8. Heating will NOT turn Off when time expires.
9. To cancel the countdown timer, press the Mode button one time to advance to the standard temperature only read out.

7.0 Calibration

1. Press and hold START/STOP then simultaneously power up the unit with the ON/OFF switch.
2. Release START/STOP when the LCD displays "---".
3. The beeper will sound 4 times, and the display will show the calibration set point, and the ":" will flash rapidly.
4. Press the Up or Down button to set the desired temperature at which you want to calibrate the unit.
5. Press START/STOP to begin calibration. Heat LED will blink On and Off when the unit is in active temperature control.
6. Allow 10 to 40 minutes for the unit to heat up and reach equilibrium. A high temperature calibration set point will require more time.
7. After the unit has equalized, the LCD will flash "---" and the current temperature.
8. Read the thermometer (or sensor meter) and use the Up and Down buttons to adjust the display to the thermometer or sensor reading.
9. Press START/STOP to save the new settings.
10. Press START/STOP again. The unit will adjust to the operating temperature with the new calibration factor. Allow sufficient time for the unit to re-equilibrate, and then compare the thermometer or sensor reading to the calibrated display. They should closely match ($\pm 0.2^{\circ}\text{C}$). If not, repeat calibration procedure.

8.0 Troubleshooting Guide

Problem	Solution
Display/LEDs do not light up	<ul style="list-style-type: none">▶ Check power cord and outlet.▶ Check ON/OFF switch.▶ Call for service.
Unit not heating	<ul style="list-style-type: none">▶ Check if the set point is more than 5°C above room temperature.▶ Check the heating LED.▶ Press START/STOP.▶ Call for service.
Block or Sample temperature is not the same as the display temperature	<ul style="list-style-type: none">▶ Check if the unit is in heating mode.▶ Check if the unit is sitting in a draft.▶ Check accuracy of thermometer.▶ Check if the reference thermometer is making good contact.▶ Follow the Calibration procedure.

9.0 Cleaning and Maintenance

Make sure that the dry bath and block are cool and the power cord is disconnected before performing any cleaning or maintenance. Repair or maintenance should only be performed by an authorized service technician.

The dry bath may be cleaned with a moist cloth containing a mild soap solution. Do not immerse the dry bath in water or any liquid.

Spills: In the event liquid is accidentally spilled into the block area, disconnect the plug from the outlet and turn the unit upside down to minimize liquid contact with the internal components. Allow the unit to dry. Have a qualified service technician clean the unit and replace any damaged parts.

10.0 Limited Warranty

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Corning's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in material or workmanship within the warranty period, provided the purchaser notifies Corning of any such defect. Corning is not liable for any incidental or consequential damages, commercial loss or any other damages from the use of this product.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

In the event this product fails within the specified period of time because of a defect in material or workmanship, contact Corning Customer Service at: USA/Canada 1.800.492.1110, outside the U.S. +1.978.442.2200, visit www.corning.com/lifesciences, or contact your local support office.

Corning's Customer Service team will help arrange local service where available or coordinate a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging. Corning may elect for onsite service for larger equipment.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

No individual may accept for, or on behalf of Corning, any other obligation of liability, or extend the period of this warranty.

For your reference, make a note of the serial and model number, date of purchase, and supplier here.

Serial No. _____ Date Purchased _____

Model No. _____ Supplier _____

11.0 Equipment Disposal



According to Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), this product is marked with the crossed-out wheeled bin and must not be disposed of with domestic waste.

Consequently, the buyer shall follow the instructions for reuse and recycling of waste electronic and electrical equipment (WEEE) provided with the products and available at www.corning.com/weee.

To request certificates, please contact us at www.labnetlink.com.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only.* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. *For a listing of US medical devices, regulatory classifications or specific information on claims, visit www.corning.com/resources.

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