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## DRY-BATH INCUBATOR

MODELS I-G35, I-G55, I-120 and I-240

Owner/Operator Manual



[www.ravenlabs.com](http://www.ravenlabs.com)

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# Safety Information

## PRECAUTIONS:

**DO NOT ADD WATER TO UNIT OR IMMERSE UNIT IN WATER. DAMAGE TO EQUIPMENT OR ELECTRICAL SHOCK MAY OCCUR.**

1. For the best results, only test tubes or self-contained biological indicators matching the size of the tube wells should be used.
2. Do not place the unit where outside sources of heat or cold could affect its performance (heating or cooling ducts, sunlight, other equipment, etc.)

**WARNING:** DO NOT USE THIS UNIT NEAR COMBUSTIBLE OR FLAMMABLE MATERIALS. EXPLOSION OR FIRE MAY RESULT. THIS UNIT CONTAINS INTERNAL COMPONENTS THAT MAY IGNITE FLAMMABLE MATERIALS.

**WARNING:** DISCONNECT FROM POWER SOURCE BEFORE CLEANING OR SERVICING.

**WARNING:** DO NOT ATTEMPT TO ADJUST TEMPERATURE CONTROL OR OPEN UNIT TO EXPOSE CIRCUITRY. **RISK OF SERIOUS ELECTRICAL SHOCK!!**

**WARNING:** RISK OF ELECTRICAL SHOCK-NO USER SERVICABLE PARTS LOCATED INSIDE ENCLOSURE-DO NOT USE IF UNIT IS SUSPECTED TO BE DAMAGED OR UNSAFE TO USE.

**IF THIS EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY THE MANUFACTURER, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.**

## SYMBOLS USED:



-- See owner/operator manual for instructions



-- Earth (ground) Terminal

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# General Description

The Raven Dry-Bath Incubator is a safe, reliable means of incubating Raven media tubes or self-contained biological indicators.

The incubator consists of an aluminum block pre-drilled with incubation wells enclosed in a sturdy plastic body. For ProSpore and ProSpore2 a removable polycarbonate rack is inserted into the aluminum block. Media tubes and ProTest are incubated directly in the aluminum block wells.

The incubator is a preset temperature model to allow for incubation of bacterial species.

A liquid crystal temperature strip is located on top of the aluminum block (or under the plastic rack for ProSpore and ProSpore2 units) for easy, reliable temperature monitoring.

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# Installation

## Positioning the Incubator

### Area of Operation

Operate the incubator away from direct sunlight, flammable materials or heating/cooling ducts.

### Support Surface

Place the incubator on a level, heat-resistant surface.

## Electrical Requirements

Your incubator can be plugged into any standard outlet in country of use.

## Operational Checkout

Plug the incubator in and ensure the power indicator (green light) comes on.

Allow the incubator to heat for approximately 30 minutes, checking that the incubator is cycling properly (cycling is indicated by orange light cycling on and off).

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# Operation

Plug the incubator power cord into power source and into incubator.

Monitor temperature indicator strip (current temperature indicated by illumination of the background to a green color) located on the aluminum block (underneath the plastic rack for ProSpore and ProSpore2 units) to ensure preset temperature has not changed during shipment or due to climatic conditions.

## **WARNING**

**DISCONNECT FROM POWER SOURCE BEFORE CLEANING OR SERVICING**

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# Troubleshooting

<b>PROBLEM</b>	<b>REMEDY</b>
Power indicator light does not come on.	Check that the unit is plugged in. Check power source. Thermal fuse has blown and requires manufacture repair.
Orange heating element indicating light does not illuminate.	Incubator heating element is out and requires manufacturer repair.
Unit does not heat to incubation temperature.	Return to manufacturer
Unit heats above incubation temperature.	Return to manufacturer

**NOTE:**

There are no serviceable parts. Return unit to manufacture for repair if remedy can not fix the problem, or call technical support at 1-800-728-5702.

**WARNING**

RISK OF ELECTRICAL SHOCK- NO USER SERVICABLE PARTS LOCATED INSIDE ENCLOSER-DO NOT USE IF UNIT IS SUSPECTED TO BE DAMAGED OR UNSAFE TO USE.

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# Maintenance

**CAUTION: DO NOT IMMERSE IN WATER!  
DAMAGE TO EQUIPMENT OR ELECTRICAL  
SHOCK MAY OCCUR**

## **Weekly**

Remove the plastic rack insert (ProSpore and ProSpore2 units only). Clean all outside surfaces and inside each well with a damp cloth. Wipe dry with a clean, dry towel.

Your Dry-Bath incubator is designed to give you years of reliable service. If the unit does not perform as intended, contact the manufacturer or authorized service provider for repair/replacement. Return Material Authorization (RMA) number is required.

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# Technical Specifications

<b>Model</b>	I-G35, I-G55, I-120 I-240
<b>Incubator Size</b>	4 3/8" W x 11 1/8"L x 3 1/2" H
<b>Weight</b>	3.5 lb
<b>Heater Wattage</b>	50 Watts
<b>Electrical Rating</b>	I-G55, I-G35 and I-120: 120VAC, 50/60 Hz, 0.42 Amps not to exceed 10% of 120V I-240: 240VAC, 50/60 Hz, 0.22 Amps
<b>Fuse Ratings and Characteristics</b>	Thermal fuse 100 Degrees Celsius +/-4 Celsius 15 Amps Max
<b>Heating Block Maximum Operating Temperature</b>	100 Degrees Celsius *

\* Maximum Temperature limited to 100 Celsius by way of thermal fuse maximum temperature range

## Environmental Conditions

**Operating:** 5 to 40°C. Installation Category II in accordance with IEC 664.  
Pollution Degree 2 in accordance with IEC 664.

**Storage:** 10° to 60°C, away from direct sunlight.

**Usage:** Indoor use only

**Maximum elevation:** 2000m

**Maximum relative humidity:** 80% up to 31degrees Celsius

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# Warranty

For one year from date of purchase, Raven Labs, a division of Mesa Laboratories, Inc., will repair or replace, at no extra charge, defects in materials in the incubator.

This warranty does not cover accidental damage or abuse. Damage that is determined to be of this nature will be repaired at the user's expense. Any and all shipping, handling and insurance will be at the user's expense.

For Service, Technical Support or ordering information contact:

Raven Labs

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