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## Thermo Scientific 51028066

# Heratherm IMH60 Advanced Protocol Microbiological Incubator User Manual

Model: IMH60 (51028066)

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## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of the Heratherm IMH60 Advanced Protocol Microbiological Laboratory Incubator. Please read this manual thoroughly before operating the device to ensure proper usage and to prevent damage or injury.

The Heratherm Advanced Protocol incubator, Model IMH60, is designed for demanding microbiological applications, offering precise temperature control and uniformity. It features a 66-liter capacity, an interior glass door for sample viewing without temperature impact, and an intuitive user interface for easy temperature setting.



Figure 1: Front view of the Heratherm IMH60 Advanced Protocol Microbiological Incubator. The incubator is white with a blue control panel and handle. The control panel displays "37.0°C" and other operational indicators. The "HERATHERM incubator" logo is visible on the lower right.

## 2. SETUP

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### 2.1 Unpacking and Inspection

1. Carefully remove the incubator from its packaging.
2. Inspect the unit for any visible damage incurred during transit. Report any damage to the carrier and supplier immediately.
3. Retain the packaging materials for future transport or storage.

### 2.2 Placement

- Place the incubator on a stable, level surface capable of supporting its weight (approximately 99 lbs / 45 kg).
- Ensure adequate clearance around the unit for ventilation and maintenance. Avoid placing it directly against a wall or

in an enclosed space.

- The incubator is designed for indoor use only, in a laboratory environment with stable ambient temperature and humidity.
- Ensure the power outlet is easily accessible. The unit operates on 120V/60Hz.
- The unit is conveniently stackable without the need for tools or stacking kits.

## 2.3 Shelf Installation

The incubator is supplied with 2 shelves and can accommodate up to 13 shelves maximum.

1. Open the main door and the interior glass door.
2. Locate the shelf supports inside the chamber.
3. Insert the shelves into the desired positions. The "One Click" shelf system allows for easy removal and installation.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Power Connection

1. Ensure the incubator is properly placed and all initial setup steps are complete.
2. Connect the power cord to a grounded 120V/60Hz electrical outlet.
3. The unit will power on, and the large vacuum fluorescent display will illuminate.

### 3.2 Setting Temperature

The incubator features an intuitive user interface for temperature setting.

1. Use the control panel buttons (refer to the display for navigation) to access the temperature setting menu.
2. Adjust the desired temperature within the range of ambient +5°C to 105°C.
3. Confirm the setting. The incubator will begin to heat or cool to reach the set point.

### 3.3 Fan Speed Adjustment (Dual Convection)

The dual convection system allows for fan speed adjustment from 0 to 100%.

1. Navigate to the fan speed control menu on the display.
2. Adjust the fan speed according to your application requirements. Higher fan speeds generally lead to faster temperature recovery and better uniformity.

### 3.4 Sample Loading

- Open the main door and then the interior glass door.
- Place samples evenly on the shelves, ensuring not to block the airflow vents.
- Close both doors securely to maintain temperature stability. The interior light facilitates sample observation.

### 3.5 Data Interface (RS232)

The incubator includes an RS232 data interface for connecting to external data logging systems or computers. Refer to the separate RS232 communication protocol guide for detailed instructions on data transfer and control.

## 4. MAINTENANCE

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### 4.1 Cleaning the Interior

The interior chamber features rounded corners for easy cleaning. The chamber is made of corrosion-resistant stainless

steel (AISI 430).

1. Always disconnect the incubator from the power supply before cleaning.
2. Remove all samples and shelves. The "One Click" shelf system makes removal easy.
3. Wipe the interior surfaces with a soft cloth dampened with a mild, non-abrasive laboratory detergent.
4. Rinse with distilled water and dry thoroughly.
5. Do not use abrasive cleaners or solvents that could damage the stainless steel.

## 4.2 Cleaning the Exterior

Wipe the exterior surfaces with a soft cloth dampened with a mild detergent. Avoid getting liquids into the control panel or ventilation openings.

## 4.3 Routine Checks

- Periodically check the door seals for any signs of wear or damage. Ensure they are clean and provide a tight seal.
- Verify that the ventilation openings are clear of obstructions.
- Regularly calibrate the temperature if precise measurements are critical for your application.

# 5. TROUBLESHOOTING

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This section provides solutions to common issues. For problems not listed here, or if issues persist, contact technical support.

Problem	Possible Cause	Solution
Incubator does not power on.	No power supply; power cord disconnected; faulty outlet.	Check power cord connection; verify outlet functionality; check circuit breaker.
Temperature deviation alarm.	Door not properly closed; power fluctuation; internal component issue.	Ensure door is securely closed; check power supply stability; if alarm persists, contact support. The unit has an automatic overtemperature alarm.
Temperature not reaching set point.	Overloaded chamber; faulty heating element; fan speed too low.	Reduce sample load; check fan speed setting (adjust from 0-100%); contact support if heating element is suspected.
Excessive condensation inside chamber.	High ambient humidity; frequent door openings; samples with high moisture content.	Ensure laboratory environment is controlled; minimize door openings; use sealed containers for samples.

# 6. TECHNICAL SPECIFICATIONS

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Parameter	Value
Model Number	51028066 (IMH60)
Capacity	66 Liters (2.3 cubic feet)
Temperature Range	Ambient +5°C to 105°C
Spatial Temperature Deviation at 37°C (Fan Off)	+/-0.6°C
Spatial Temperature Deviation at 37°C (Fan Full Speed)	+/-0.2°C
Temperature Deviation Over Time at 37°C	+/-0.1°C
Airflow Technology	Dual Convection (fan speed adjustable 0-100%)
Chamber Material	Corrosion resistant stainless steel (AISI 430)
Chamber Dimensions (W x H x D)	13.9 x 20 x 14.5 inches
Exterior Dimensions (W x H x D)	20.9 x 28.3 x 22.2 inches
Footprint	0.3 sq m / 3.2 sq ft
Supplied Shelves	2 (can hold 13 shelves maximum)
Weight	99 lbs (45 kg)
Power Supply	120V/60Hz
Certifications	cCSAus certified
Data Interface	RS232

## 7. WARRANTY & SUPPORT

### 7.1 Warranty Information

The Heratherm IMH60 Advanced Protocol Microbiological Incubator is backed by a **two-year warranty** on parts and labor. This warranty covers defects in materials and workmanship under normal use and service.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from misuse, accident, modification, or unauthorized service.

### 7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Thermo Scientific customer support. Have your model number (IMH60 or 51028066) and serial number ready when contacting support. For the most current contact information, please visit the official Thermo Scientific website or refer to the documentation included with your purchase.

