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Labconco 113408000

Labconco Protector Pass-Through Laboratory Hood

Model: 113408000

1. Introduction

The Labconco Protector Pass-Through Laboratory Hood is designed to provide a safe and efficient environment for laboratory procedures requiring containment and ventilation. Its unique pass-through design allows for operation from both sides, making it suitable for demonstrations or installations between two separate laboratory spaces.

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Labconco Protector Pass-Through Laboratory Hood.

Key Features:

- By-pass airflow design for consistent containment.
- Glacier white, dry powder epoxy-coated steel and aluminum frame for durability and chemical resistance.
- Ergonomic air foil with aerodynamic clean-sweep airflow openings to optimize air capture.
- Two tempered safety glass vertical-rising sashes, one on each side, for dual-sided access.
- Audible alarm system to prevent simultaneous opening of both sashes, ensuring safety.
- Unobstructed visibility from either side, ideal for demonstrations.
- Optional right-side or left-side viewing window (specific to this model: Right Window).

2. Safety Information

Always prioritize safety when operating laboratory equipment. Read and understand all safety warnings and instructions before using the hood. Failure to follow these instructions may result in personal injury or damage to the equipment.

General Safety Precautions:

- Ensure proper ventilation and exhaust connections are established and functioning correctly before operation.
- Do not operate the hood if the audible sash alarm is malfunctioning.
- Never open both sashes simultaneously. The audible alarm is a critical safety feature.

- Wear appropriate personal protective equipment (PPE) such as safety glasses, lab coats, and gloves when working inside the hood.
- Do not place flammable or explosive materials near the hood's exhaust or intake vents.
- Regularly inspect the hood for any signs of damage or wear.
- Refer to local safety regulations and institutional guidelines for specific laboratory practices.

3. Setup and Installation

Installation of the Labconco Protector Pass-Through Laboratory Hood should only be performed by qualified personnel in accordance with local building codes and safety regulations. This section provides general guidance.

Pre-Installation Checks:

1. **Unpacking:** Carefully unpack the hood and inspect for any shipping damage. Report any damage immediately to the carrier and supplier.
2. **Location:** Choose a location that allows for proper exhaust ducting and access from both sides. Ensure adequate clearance around the hood for maintenance and operation.
3. **Power Requirements:** Verify that the electrical supply matches the hood's requirements (115V as specified for this model).
4. **Ducting:** Ensure the exhaust ductwork is correctly sized and installed to provide adequate airflow for the hood's operation.

Installation Steps (General):

1. Position the hood on a stable, level surface or integrate it into a wall opening as intended.
2. Connect the exhaust ductwork to the hood's exhaust collar. Ensure a tight, leak-free connection.
3. Connect the hood to the appropriate electrical supply.
4. Perform an initial airflow verification and test all safety features, including the sash alarm.

4. Operation

Operating the Labconco Protector Pass-Through Laboratory Hood correctly is crucial for maintaining a safe working environment.



Figure 1: Labconco Protector Pass-Through Laboratory Hood in operation, demonstrating dual-sided access. The image shows a researcher on one side and two students on the other, all wearing safety glasses and lab coats, interacting with equipment inside the hood.

Starting the Hood:

1. Ensure the hood is powered on and the exhaust system is active.
2. Verify that the airflow monitor (if equipped) indicates proper airflow.

Sash Operation:

- The hood features two vertical-rising sashes, one on each side.
- To open a sash, gently lift it to the desired working height.
- **Audible Alarm:** An audible alarm will sound if both sashes are opened simultaneously. This is a critical safety

feature designed to maintain proper containment. If the alarm sounds, immediately close one of the sashes.

- Always work with the sash at the lowest possible height that allows comfortable access, typically at the designated safe working height mark.

Working Inside the Hood:

- Place all apparatus and chemicals at least 6 inches (15 cm) inside the hood opening to prevent escape of fumes.
- Avoid rapid movements or opening/closing of laboratory doors near the hood, as this can disrupt airflow.
- Keep the work area clean and organized to ensure optimal airflow and safety.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Labconco Protector Pass-Through Laboratory Hood.

Routine Checks:

- **Daily:** Inspect the sashes for smooth operation and ensure the audible alarm functions correctly. Check for any obstructions in the airflow openings.
- **Weekly:** Clean the interior surfaces of the hood with appropriate laboratory cleaning agents. Ensure the tempered safety glass sashes are clean for clear visibility.
- **Monthly:** Verify the integrity of the exhaust duct connections. Check for any signs of corrosion or damage to the hood's frame.
- **Annually:** Have a qualified technician perform a comprehensive inspection, including airflow verification, electrical checks, and calibration of any monitoring devices.

Always disconnect power before performing any maintenance that requires access to internal components.

6. Troubleshooting

This section provides basic troubleshooting steps for common issues. For more complex problems, contact Labconco customer support or a qualified service technician.

Problem	Possible Cause	Solution
Audible alarm sounds when only one sash is open.	Sensor malfunction or obstruction.	Check for obstructions around sash sensors. If problem persists, contact service.
No airflow or low airflow.	Exhaust fan off, duct blockage, or motor issue.	Verify exhaust fan is on. Check ductwork for blockages. Contact service if fan is running but airflow is low.
Sash does not move smoothly.	Debris in tracks or worn sash mechanism.	Clean sash tracks. If problem persists, contact service for mechanism inspection.

7. Specifications

Detailed specifications for the Labconco Protector Pass-Through Laboratory Hood, Model 113408000.



Figure 2: Front view of the Labconco Protector Pass-Through Laboratory Hood, showing its overall design and the closed sash.

Attribute	Detail
Model Number	113408000
Item Model Number (Internal)	1187P53EA
Voltage	115V
Overall Depth	33.4 inches
Overall Width	48 inches
Overall Height	59 inches
Approximate Package Dimensions	71 x 56 x 44 inches

Attribute	Detail
Approximate Weight	410 Pounds
Sash Type	Vertical-rising, tempered safety glass (two sashes)
Frame Material	Glacier white, dry powder epoxy-coated steel and aluminum
Viewing Window	Right-side (optional, included in this model)
ASIN	B01N2YKYRQ

8. Warranty and Support

Labconco products are manufactured to high standards of quality and performance. For specific warranty information, please refer to the documentation provided with your purchase or visit the official Labconco website.

For technical assistance, troubleshooting beyond this manual, or to order replacement parts, please contact Labconco Customer Service. Have your model number (113408000) and serial number ready when contacting support.

Labconco Official Website: www.labconco.com

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