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Labconco 7318702

Labconco 7318702 Short Clear Chamber Instruction Manual

Model: 7318702 (Internal Model: 1177K22EA)

1. Introduction

This manual provides essential instructions for the proper setup, operation, and maintenance of the Labconco 7318702 Short Clear Chamber. This chamber is designed for use with Labconco Freezone 6, 12, and 18 liter freeze dry systems, facilitating the convenient attachment and processing of samples. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. Safety Information

Always observe standard laboratory safety practices when operating this equipment. Ensure proper vacuum connections are made to prevent leaks. Avoid applying excessive force to the chamber components. Do not use the chamber with corrosive or incompatible materials that could compromise its integrity or create hazardous conditions.

3. Product Overview

The Labconco 7318702 Short Clear Chamber is a robust and corrosion-resistant component for freeze-drying applications. It features a clear acrylic body for visibility of samples during processing and a durable stainless steel (Type 304) base. The chamber is equipped with a clear acrylic cover and gaskets to ensure a proper seal when under vacuum. It is designed to accommodate 1/2" and 3/4" adapters for connection to a freeze dry system.



Figure 1: Labconco 7318702 Short Clear Chamber. This image displays the cylindrical clear acrylic chamber, its black base, and the black lid with a brass valve and black handle.

Key Features:

- **Material:** Stainless steel (Type 304) base and clear acrylic body/cover.
- **Visibility:** Clear design allows for observation of samples.
- **Compatibility:** Designed for Labconco Freezone 6, 12, and 18 liter freeze dry systems.
- **Adapters:** Accommodates 1/2" and 3/4" adapters.

4. Setup

1. **Unpacking:** Carefully remove the chamber and all components from the packaging. Inspect for any damage incurred during shipping.
2. **Placement:** Position the chamber on a stable, level surface near your Labconco Freezone freeze dry system. Ensure adequate space for connections and sample access.
3. **Gasket Installation:** Ensure the rubber gaskets are properly seated in the grooves of the chamber base and lid to create an

airtight seal.

4. **System Connection:** Connect the chamber to the vacuum port of your Labconco Freezone freeze dry system using appropriate 1/2" or 3/4" adapters and vacuum tubing. Ensure all connections are secure and leak-free.
5. **Lid Placement:** Place the clear acrylic lid securely onto the chamber, ensuring the gasket forms a tight seal.

5. Operation

1. **Sample Loading:** Before placing the lid, carefully arrange your pre-frozen samples within the chamber. Ensure samples do not obstruct the vacuum port or interfere with the lid's seal.
2. **Seal Chamber:** Place the lid firmly onto the chamber, ensuring the gasket is properly compressed to create a vacuum-tight seal.
3. **Initiate Vacuum:** Close the valve on the chamber lid. Start the vacuum pump on your Labconco Freezone system. Slowly open the chamber valve to apply vacuum to the chamber. Monitor the vacuum gauge on your freeze dry system.
4. **Monitor Process:** Observe the freeze-drying process through the clear acrylic chamber.
5. **Release Vacuum:** Once freeze-drying is complete, close the chamber valve. Slowly introduce air into the system (e.g., via a bleed valve on the freeze dry system) to equalize pressure before carefully removing the chamber lid.
6. **Sample Removal:** Remove processed samples from the chamber.

6. Maintenance

- **Cleaning:**
  - **Acrylic Components:** Clean the clear acrylic chamber and lid with a soft cloth and mild, non-abrasive detergent. Avoid using harsh chemicals or abrasive cleaners, as these can scratch or damage the acrylic.
  - **Stainless Steel Base:** The stainless steel base can be cleaned with a damp cloth and mild detergent. For stubborn stains, use a stainless steel cleaner.
- **Gasket Inspection:** Regularly inspect the rubber gaskets for cracks, tears, or signs of wear. Replace damaged gaskets immediately to maintain a proper vacuum seal.
- **Valve Maintenance:** Periodically check the valve for smooth operation and ensure it seals completely when closed.
- **Storage:** When not in use, store the chamber in a clean, dry environment away from direct sunlight and extreme temperatures.

7. Troubleshooting

- **Issue:** Chamber does not hold vacuum.
  - **Possible Cause:** Improperly seated lid or damaged gasket.
  - **Solution:** Ensure the lid is firmly and evenly seated. Inspect gaskets for damage and replace if necessary.
  - **Possible Cause:** Loose vacuum connection to the freeze dry system.
  - **Solution:** Check all vacuum tubing and adapter connections for tightness.
- **Issue:** Slow or inefficient freeze-drying.
  - **Possible Cause:** Vacuum leak (see above).
  - **Solution:** Address any vacuum leaks.
  - **Possible Cause:** Samples not adequately pre-frozen.
  - **Solution:** Ensure samples are completely frozen before placing them in the chamber.

8. Specifications

Attribute	Detail
Model Number	7318702
Internal Model Number	1177K22EA
Dimensions (Diameter x Height)	13.6" Diameter x 16.8" Height
Materials	Stainless Steel (Type 304) base, Clear Acrylic body and cover
Compatibility	Labconco Freezone 6, 12, and 18 liter freeze dry systems
Adapter Accommodation	1/2" and 3/4" adapters
Approximate Package Dimensions	30 x 16 x 15 inches
Approximate Package Weight	16.9 Pounds
Manufacturer	Labconco
Date First Available	December 29, 2016

9. Warranty and Support

Specific warranty information for the Labconco 7318702 Short Clear Chamber is not provided in this document. For detailed warranty terms, technical support, or to order replacement parts, please contact Labconco directly or refer to the documentation supplied with your complete Labconco Freezone freeze dry system.

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