

# Precise HEPA-Filtered Glove Box

View online: <http://www.labconco.com/product/precise-hepa-filtered-glove-boxes-3/459>



## Overview

Precise HEPA-Filtered Glove Boxes have inlet and outlet HEPA filters and provide a leak-tight physical barrier to protect the operator from hazardous airborne particulates and powders. These boxes have uses in pharmaceutical research, nanotechnology and biochemistry. Microorganisms, low-level radiochemicals, chemical carcinogens and asbestos may also be used in these boxes.

These boxes may be used for cleanroom applications requiring ISO Class 3 (ISO 14644-1) conditions. Labconco HEPA Filtered Glove Boxes may be appropriate for use as containment isolators for applications involving compounds assigned ISO 4 and ISO 5 Banding Levels. Contact your Health and Safety Officer for specific Engineered Containment Device requirements.

**Catalog Number:** 5220220

## Specifications

- **Weight:** 280.0 lbs
- **Weight metric:** 127.0 kg
- **Dimensions:** 52.7" w x 31.6" d x 40.0" h
- **Dimensions metric:** 148 x 80 x 102 cm
- **Electrical:** 230 volts, 50 Hz, 4 amps
- **Region:** International
- **Built-In Options:** None
- **Conformance:** CE
- **Filter Type:** HEPA
- **Interior Working Width:** 33.5"
- **Liner Material:** Polyethylene
- **Number of Glove Ports:** Two
- **Power Cord & Plug:** 230 volts, 4 amps, no plug
- **Primary Application:** Hazardous materials
- **Product Subcategory:** Filtered Glove Box
- **Required Accessories:** Supporting Base

## Description

### Features

- One-piece molded, medium-density polyethylene shell. Labconco recommends this website for a comprehensive listing of chemical resistance data for polyethylene.
- Dry powder epoxy-coated steel superstructure
- 1/4" thick laminated safety glass viewing window, 26.4" wide x 12.5" high, removable for loading equipment, with powder-coated steel frame and neoprene gasket
- Space-saving inner and outer transfer chamber doors that pivot upward, are counterbalanced and equipped with quick-latches
- Black, chemical-resistant work surface sealed to the glove box floor
- Interior ceiling-mounted electrical duplex receptacle with 5 amp maximum circuit load
- Neoprene gloves, size 9 3/4", are included.
- Built-in blower with speed control capable of airflow from 13 CFM to 75 CFM.
- Fluorescent lamp, 22 watts, with easy replacement from the top
- Switches for light, blower and innermost interior electrical receptacle
- Inlet and outlet HEPA filters, 99.99% efficient on 0.3 micron particulates
- Test port for challenging HEPA filter integrity
- Main chamber static pressure gauge for monitoring HEPA filter loading.
- Approximately 13 cubic feet of interior space in main chamber
- 11.0" nominal ID x 12.0" long transfer chamber
- Factory leak tested with a mass spectrometer while glove box is pressurized with helium at 5 inches of water gauge.
- No detectable leaks greater than  $1 \times 10^{-3}$  ml/sec
- Meet Class 1 atmosphere containment conditions for oxygen leak rates per ISO 10648-2 test method
- Transfer chamber interior interlocking shelf of dry powder epoxy-coated steel
- 0.05 ppm average tracer gas levels or less detected during perimeter scan testing (surpasses ASHRAE 110 standards)
- Airborne particulate cleanliness (measured under positive and negative pressures per ISO 14644-1 test method) exceeds ISO Class 5 conditions (equivalent to Class 100) and achieved ISO Class 3 conditions (equivalent to Class 1) at both minimum and maximum operational airflow volumes
- Vibration less than  $1.5 \times 10^{-5}$  inches displacement measured at the work surface at both minimum and maximum airflow volumes
- ETL listed (115 volt models)
- CE Conformity (230 volt models)

### Options

- International electrical configurations

### Required Accessories

- Adjustable Height Base Stands
- Base Cabinet
- Work Surface

### Optional Accessories

- Acrylic Viewing Window
- Add-A-Valve Kit
- Anti-Static Ionizer Fan
- Balance Vibration Isolator

- Blower Foot Switch
- Complete Valve Set
- Diaphragm Pumps
- Electrical Power Strips
- Exterior Transfer Chamber Shelf
- External Glove Port Covers
- FilterMate Portable Exhausters
- Gloves and Glove Box Accessories
- Hanging Shelf Accessories
- Positive Pressure Conversion Kit
- Recirculation Kit
- Remote Blowers
- Storage Shelf Kits
- Trap Inserts
- Waste Chute

## For Product Assistance



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