

# Protector Fiberglass Controlled Atmosphere Glove Box with Auto Pressure Control



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**Catalog Number:** 5080035

## Overview

Protector Controlled Atmosphere Glove Boxes provide a leak-tight environment to perform work with contamination-sensitive materials under vacuum or in an inert environment. Fiberglass-lined models are performance tested to maintain oxygen levels as low as 0.4 ppm and moisture levels as low as 2 ppm. Stainless steel-lined models are performance tested to maintain oxygen levels as low as 0.2 ppm and moisture levels as low as 1 ppm.

Need an ultrapure inert atmosphere? All Protector Controlled Atmosphere Glove Boxes are compatible with the new AtmosPure Re-Gen Gas Purifier accessory, which has the capacity to remove up to five liters of oxygen (13,500 ppm) and 660 grams of moisture (18 million ppm) at standard temperature and pressure (STP).

## Specifications

- **Weight:** 500.0 lbs
- **Weight metric:** 227.0 kg
- **Dimensions:** 63.9" w x 34.4" d x 45.7" h
- **Dimensions metric:** 162.3 x 87.4 x 116.1 cm
- **Electrical:** 208-230 volts, 50/60 Hz, 10 amps
- **Region:** International
- **Built-In Options:** Pressure control module and foot pedal
- **Conformance:** CE
- **Filter Type:** None
- **Interior Working Width:** 35.0"
- **Liner Material:** Fiberglass
- **Number of Glove Ports:** Two
- **Power Cord & Plug:** Schuko
- **Primary Application:** Atmosphere-sensitive materials
- **Product Subcategory:** Controlled Atmosphere Glove Box
- **Required Accessories:** Inert Gas, Supporting Base, Vacuum Source

## Description

### Features

- Factory leak-tested with a mass spectrometer while pressurized with helium at 5 inches of water gauge. No detectable leaks greater than  $1 \times 10^{-6}$  ml/sec.
- Exceed Class I atmosphere containment conditions for oxygen permeation  $<1.67$  ppm/min per ISO 10648-2 test method.
- Oxygen permeation  $<0.3$  ppm/min (fiberglass-lined models) and  $<0.15$  ppm/min (stainless steel-lined models) per ISO 10648-2.
- Four manual valves – two on the main chamber and two on the transfer chamber – for evacuating, filling and added control. With 3/8" compression fittings and 3/8" hose barbs.
- Factory-installed, rear-mounted, low profile stainless steel pressure relief bubbler at  $\pm 6$  inches of water gauge.
- Two rear-mounted inlet and outlet 3/4" OD compression fittings for easy connection to optional AtmosPure Re-Gen Gas Purifier or other accessory drying train.
- Large viewing area, 36" w x 27.6" high, provides maximum visibility. Viewing window is 3/8" thick, laminated safety glass.
- Space-saving inner and outer transfer chamber doors that pivot upward, are counterbalanced and equipped with quick-latches.
- Interior right-hand side wall-mounted electrical duplex receptacle with 10 amp maximum (100/115 volt models) or 10 amp maximum (230 volt models) circuit load.
- Interior left-hand side wall-mounted pass through plug for on-site installation of an optional accessory: electrical outlet, RS-232 port, gas/liquid port, or port for oxygen or moisture monitor.
- Pair of neoprene gloves, 0.015" thick, 30" long, size 9  $\frac{3}{4}$ .
- Switches for light, blower and electrical duplex.
- Two 8" ID, epoxy-coated aluminum double-grooved glove ports mounted 17" apart, with neoprene gaskets.
- Two 25-watt fluorescent lights.
- Dry-powder epoxy-coated, 18 and 20 gauge steel exterior panels.

### Options

- Chemical resistant, one-piece molded fiberglass liner or type 304 stainless steel liner
- Clear acrylic inner and outer transfer chamber doors (fiberglass-lined models).
- Type 304 stainless steel inner and outer transfer chamber doors and front panel (stainless steel-lined models).
- Main chamber pressure analog gauge with readings from -5 to +5 inches of water gauge (basic models).
- Transfer chamber pressure analog gauge with readings from 0 to 29.5 inches of mercury (basic models).
- Automatic Pressure Controller controls main chamber pressure (-5 to +5 inches of water gauge), main chamber evacuation and filling cycles (up to 499 cycles) and transfer chamber evacuation and filling cycles (up to 499 cycles) (auto pressure control models).
- Muteable, audible alarm that sounds when pressure/vacuum level is outside set limits (auto pressure control models).
- LCD display of main chamber and transfer chamber pressure in inches of water, inches of mercury and mBar (auto pressure control models).
- Three-position foot pedal (increase gas/fill, off, evacuate/decrease gas) (auto pressure control models).
- Input/output port for optional AtmosPure Re-Gen Gas Purifier (auto pressure control models).
- Protector Stainless Steel Double Filtered Glove Boxes have 81.84" of interior working width and four glove ports
- International electrical configuration

### Required Accessories

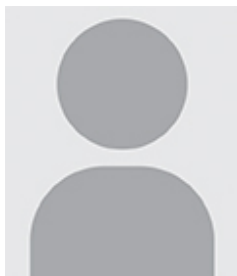
- Adjustable Height Base Stands
- Vacuum source

- Inert gas for filling

#### **Optional Accessories**

- AtmosPure Re-Gen Gas Purifier

## For Product Assistance



**International Customer  
Service**



**Mauro Ferri**  
Regional Sales Manager,  
Europe, Africa and Middle  
East Sales

