



Hypoxic/ Hyperoxic Glove Box

**Oxygen Control
from 0-100%**

**The Hyperoxic
Glove Box allows
researchers bare-
handed access to
an oxygen (0 to
100%) controlled
environment, with
temperature,
humidity and CO₂
(0 to 20%) control.**



Description

COY Labs Hypoxic Glove Box enables users the ability to manipulate samples under an oxygen controlled environment, with temperature, humidity, and CO₂ Control Options. Biochemical, protein, cell interaction, or live animal studies can now be performed in a stable, precise hypoxic or hyperoxic atmosphere. Eight standard-size glove boxes and the modular design allow users to efficiently build a system suited to their lab and type of research. The patented glove box design and transfer chamber (airlock) facilitate the transfer of samples in and out without the fluctuations in oxygen or CO₂ associated with Tri-Gas Incubators or other hypoxic cabinet systems. The gloveless sleeves allow barehanded sample manipulation without compromising the interior atmosphere or the use of bulky gloves. Options for HEPA filtration, micro-scope adaptation, and UV lights are available.

- Oxygen Control 0-100%
- Temperature Control
- + 4 ambient to 40° C
- CO₂ Control Option 0-20%
- 8 Standard Sizes, Custom Sizing available
- Humidity Control Options
- Internal Plug Strip
- HEPA Filtration Option
- Gloveless Sleeves
- Live Animal Waste Removal System (Manual and Automatic systems)
- Large Humidified Incubation Box maintains +85% Rh to keep media from drying out during long incubation periods (+ 24 hours)
- Unique Airlock System allows sample transfer without affecting internal atmosphere

How It Works

Through a strategically positioned oxygen sensor and controller, the Coy Hypoxic Glove Box can maintain a uniform gas concentration throughout the chamber with an automatic purge control. As gases are required in the glove box, they are introduced through a unique gas tube shower system which, along with the internal fan, provides the circulation required for uniform gas distribution and fast response of the controller. To allow for the relief of pressure induced by gas addition, special check/bleed valves are installed in the glove box. Samples are transferred through the airlock which is purged based on time and flow rate to equilibrate O₂ levels prior to entry to the glove box interior.

Various Glove Box Sizes and Styles to Choose From



1 Person Polymer Hypoxic Glove Box

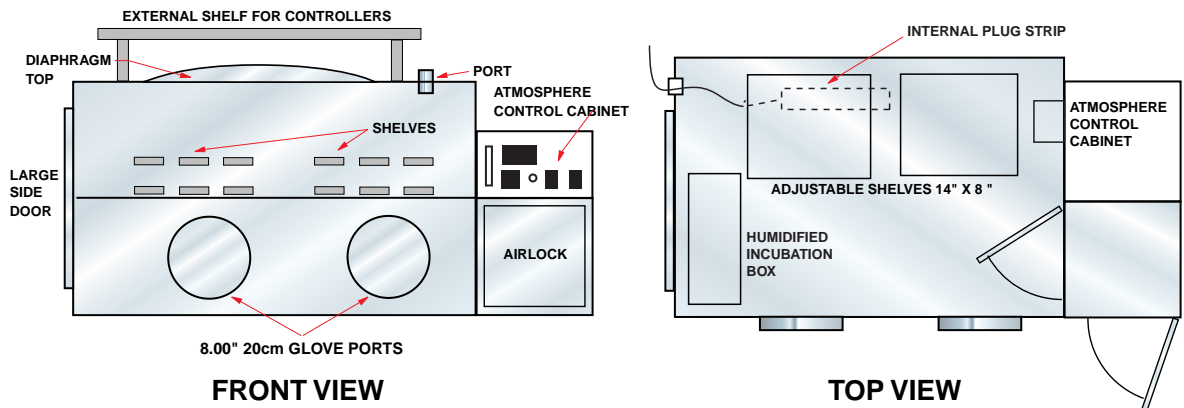


1 Person Aluminum Hypoxic Glove Box



2 Person Vinyl Hypoxic Glove Box

Floor Plan for Heated Units



Standard Dimensions

POLYMER GLOVE BOX

Mini: 24"L x 24"D x 20"H
 1 Person: 42"L x 24"D x 24"H
 2 Person: 60"L x 24"D x 24"H

VINYL GLOVE BOX

Mini: 30"L x 28"D x 26"H
 1 Person: 44"L x 28"D x 26"H
 2 Person: 78"L x 28"D x 26"H

ALUMINUM GLOVE BOX

1 Person: 42"L x 24"D x 36"H
 2 Person: 60"L x 24"D x 36"H

