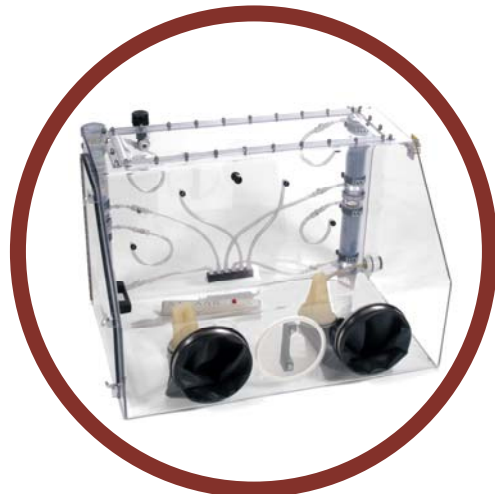


These units allow the user to control interior humidity levels below ambient conditions. All units are equipped with the latest in Humidity Sensor technology with PID control and your choice of a Desiccant Drying System or a Dry Gas Purge System.

**STYLES** Two standard styles available, a clear Polycarbonate unit that features a lower cost to purchase, and relatively lower cost to customize. The Aluminum units while more expensive on initial purchase are a longer lasting, sturdy build that with the addition of tempered Glass can be used in highly corrosive chemical use. Polycarbonate units have 4 standard sizes and Aluminum units have two to choose from.

**AUTOMATIC CONTROL** The automatic controller provides monitoring and control of the relative humidity. It activates the necessary system (dehumidification for humidification) when the moisture level deviates from the adjustable set point. Flow rates, sensor position circulation, and positions were all considered in the design to maximize control capabilities and humidity uniformity across the glove box. Since this is a closed loop circulation system, an inert gas environment can be maintained in the glove box while controlling the moisture. Depending on the atmosphere desired it may be more advantageous to operate these systems with the desiccant drying system so the dry gas purge does not affect other atmospheric conditions (oxygen?).



**1 Person Dry Glove Box**



**Automatic Controller**



## Manual Control

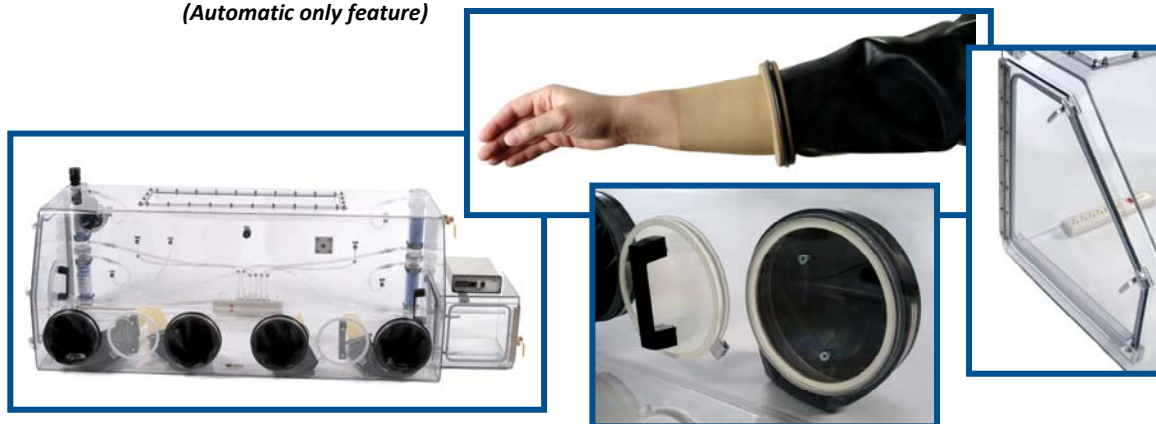
Manual Control units consist of a pump (air) and 2 desiccant capsules as well as tubing and fittings and connections to the Coy glove box in a sealed recirculating system. The Desiccant changes color with saturation, the pump is rated to run in an always on position and can be positioned anywhere in the lab as long as tubing supplied will allow it to reach in most instances this is the floor below the chamber. Air flow rate is up to 60 cu. ft. per hour or 1699 liters per hour. Desiccant can remove moisture down to 1% RH in most situations but moisture production from equipment or samples within the glove box may affect these times. Low cost digital monitors are available (Coy part # 2200110) to aid in operation of the system.

# Dry Gas Purge Times



## Features

- Ball Valve for rapid establishment of atmosphere through a dry gas purge.
- Large Side door for equipment placement and easier cleaning.
- Automatic pressure relief valve.
- Diaphragm top to compensate for hand entry in a sealed glove box
- 6 outlet interior power supply
- Gloveless Sleeves and Arm port Plugs for greater dexterity on the interior  
*(Automatic only feature)*



## Specifications

**Control Range: 1%\*- ambient**

*Automatic only Specs*

**Accuracy: +/- 2% RH**

**Resolution: 0.1%**

**Control Tolerance: 0.1%**

*\*Lowest moisture level dependent on the drying system and quality of gas used*

Part #'s	Automatic Dry Glove Box	Voltage
8308-020 /220	<b>Dry Glove Box, Mini 24" L x 24" D x 24" H (61 cm x 61 cm x 61 cm)</b>	110/220v
8308-030 /230	<b>Dry Glove Box, 1 Person 42" L x 24" D x 24" H (106 cm x 61 cm x 61 cm)</b>	110/220v
8308-050 /250	<b>Dry Glove Box, 2 Person Size 60" L x 24" D x 24" H (150 cm x 61 cm x 61 cm)</b>	110/220v
	<b>Manual Systems</b>	
8307-025	<b>Basic Glove Box, 1 Person Size 42" L x 24" D x 36" H (106 cm x 61 cm x 91 cm)</b>	110/220v
8308-070	<b>Basic Glove Box, 2 Person Size 72" L x 24" D x 36" H (182 cm x 61 cm x 91 cm)</b>	110/220v
<b>If you desire a desiccant based drying system add the below part #</b>		
8531-026/028	<b>Manual Dehumidification System for use with Basic Glove Boxes</b>	110/220v