

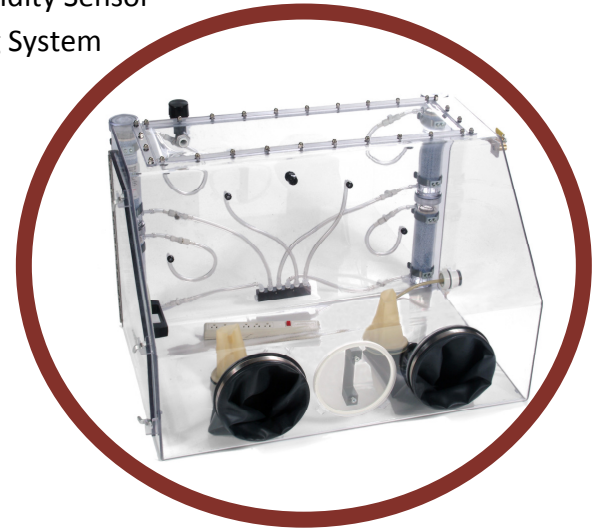


Humidity Control Glove Box

Control moisture from 1-100% RH

These units allow the user to control interior humidity levels above and 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 and ultra sonic humidification 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 for highly corrosive chemical use. Polycarbonate units have 3 standard sizes and Aluminum units have 2 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?).



Precise Control

DRYING SYSTEMS Two systems are available to dry these Humidity Control Glove Boxes a Desiccant Drying System and a Dry Gas Purge System. The Desiccant System is standard however the Dry Gas Purge System can be substituted at no substituted at no extra cost. The Dry Gas Purge System allows for a lower attainable humidity level (tested to 1% using special dry gas) vs. 3% for the desiccant System. The Gas Purge System is also cleaner, provides faster drying times and requires less maintenance (Desiccant needs to be rejuvenated). The Desiccant Drying system can be a lot less expensive to operate. The two systems can also be used to work together to minimize the cost of the dry gas purge system.



Humidity Control

Specifications

HUMIDIFIER The Ultra Sonic Humidifier vibrates the water in the reservoir to provide a cloud of mist that is driven into the glove box from the pump system. At the same time air is pulled out of the glove box and circulated through the water reservoir, completing the Humidification System's closed loop circuit. Water reservoir is equipped with Self Sealing Quick Disconnect inlet for refilling under sealed conditions.

Control Range: 1%- 100% RH
Accuracy: +/-2% RH
Resolution: 0.1%
Control Tolerance: 0.1%



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
- Gloveless Sleeves and Arm port Plugs for greater dexterity on the interior
- Circulation Fan

Part #'s	Polymer Humidity Control Glove Box	Voltage
8350100 /200	<i>Mini Humidity Control Glove Box, 24" L x 24" D x 24" H (61 cm x 61 cm x 61 cm)</i>	110/220v
8350110 /220	<i>1 Person Humidity Control Glove Box, 42" L x 24" D x 24" H (106 cm x 61 cm x 61 cm)</i>	110/220v
8350140 /240	<i>2 Person Humidity Control Glove Box, 60" L x 24" D x 24" H (150 cm x 61 cm x 61 cm)</i>	110/220v
	Aluminum Humidity Control Glove Box	
8306025 /225	<i>1 Person Humidity Control Glove Box, 42" L x 24" D x 36" H (106 cm x 61 cm x 91 cm)</i>	110/220v
8306030 /230	<i>2 Person Humidity Control Glove Box, 72" L x 24" D x 36" H (182 cm x 61 cm x 91 cm)</i>	110/220v