



**SAPPHIRE**  
CLEANROOMS

# GLOVEBOXES



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Our gloveboxes offers a wide range of ready to use units that can be equipped with a comprehensive set of optional features. These can be used for the research and development of emerging technologies including lithium batteries, chemical, OLED / PLED and welding.

We offer a variety of economical isolation and containment gloveboxes.

Our laboratory gloveboxes provide a controlled atmosphere which is particle free along with a low humidity and oxygen free environment. Our gloveboxes provide a clean, low-humidity, oxygen free environment for laboratory, cleanroom, electronic assembly and other critical processing. These Gloveboxes are set up for positive pressure operations and when utilized with automatic purge control units they can maintain a preset relative humidity (or oxygen level using an inert gas such as Nitrogen).

Our glovebox chambers are available in single and double user options. They can be used with any control modules for humidity / dehumidification and static neutralization.

## MATERIALS

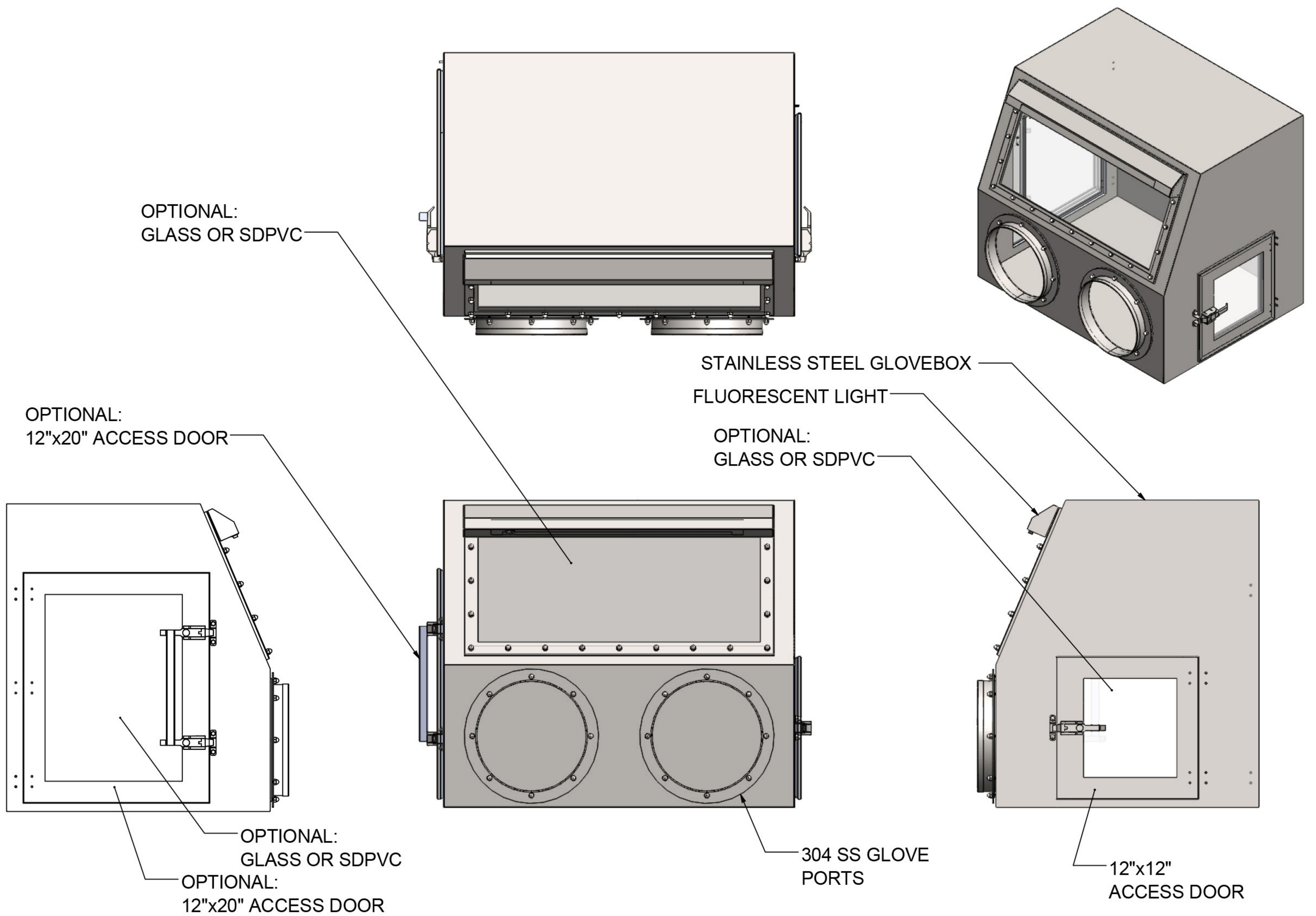
- **Acrylic:** Full visibility and outstanding tensile strength. These economical panels are lightweight and easy to clean. Acrylic is not recommended for use with alcohol or other strong cleaning agents.
- **Static Dissipative PVC:** This loads safely to the ground surface, protecting against the potential damage from ESD (electrostatic discharge) and particle pollution. Dissipative layers are molecularly embedded for optimum durability.
- **Polycarbonate:** Resists many common acids, solvents and cleaning solutions. Its high tensile strength makes it shatter resistant.
- **Polypropylene:** Provides resistance to acids and other chemicals.
- **Stainless Steel:** Provide excellent corrosion resistance, easy cleaning and disinfecting. They also operate well in harsh environments.

## HUMIDITY CONTROL

**Flowmeter:** Gas regulators for low-volume flows; they are suitable for total pressures up to 100 psig and temperatures to 150°F (66°C). Flow ranges (SCFH) = 0.6 –5, 1 –10, 2 –20.

**Humidity Control System:** For a time-saving and economical approach to efficient dry storage, the Humidity Control System not only eliminates worker supervision over delicate materials in desiccator chambers, but is proven to save up to 78% in nitrogen expenses! Set-point can be established for applications requiring a specific level and the recovery time is shortened. Personnel can program the humidity control system and let the auto-purging operation do the rest.





## Standard:



**Stainless Steel Glove Ports**  
Glovebox ports with detachable covers provide user access to instruments.



**Removable Back Panel**  
Convenient access for large items.

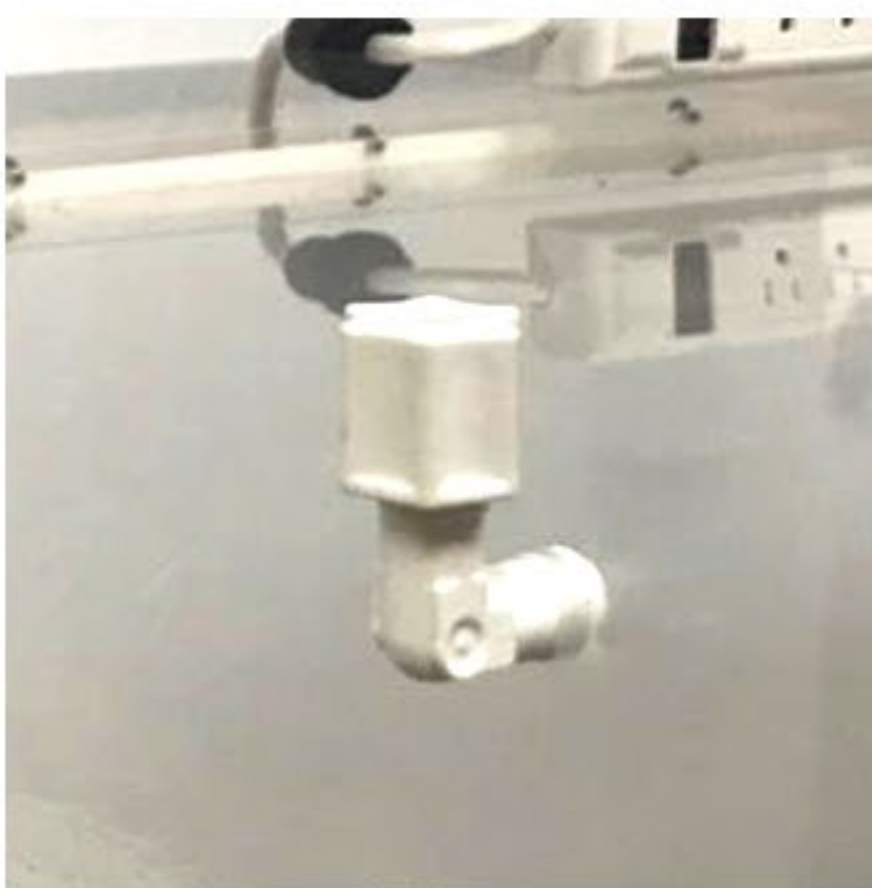
## Optional:



**Casters**  
Casters to fit any mobility requirement available from our extensive inventory.



**Flowmeter**  
Easy to read 1-10 SCFH, 2" scale flowmeters tolerate temperatures to 150F, and pressures to 100psig.



**Relief Valve**  
Automatic relief bleed valves provide one-way pressure relief to sustain desired settings. Various sizes and base materials available.



**Glovebox Stand**  
Powder coated steel, or stainless-steel glove box stands are fully customizable, fixed height or height adjustable.



**Side Access Door**  
Large side-access doors provide access of large parts or instruments.



**Air Lock**  
Our air locks substantially reduce risk of cross-contamination and humidity fluctuations during transfers, available right hand or left hand.





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