

Biosafety Equipment

Biocontainment



Right-sized glovebox solutions, delivered.

Germfree is internationally recognized as a leading manufacturer of Class III Biological Safety Cabinets. Our Class III Gloveboxes provide containment for diverse research applications in the most advanced ABSL-3, BSL-3 and BSL-4 laboratories. Our Class III BSCs are engineered to exceedingly rigorous standards for work that involves dangerous pathogens or unknown agents. We specialize in the seamless integration of all laboratory components, analytical instruments and process equipment.

Gloveboxes serve the needs of a diverse range of industries including biotechnology, biomedical, nuclear, defense, pharmaceutical, semiconductor and chemical applications. When these enclosures are used for microbiological research or to handle pathogens, they are referred to as Class III Biological Safety Cabinets. These units provide containment for work with high-risk biological agents and must be constructed in compliance with the Biosafety in Microbiological and Biomedical Laboratories (BMBL) specifications.

Explore key options and specifications below, and get in touch to build your perfect glovebox.



Equipment pictured may include custom or optional features

Application

Germfree's Class III BSCs are engineered with the optimal direct connections to any laboratory equipment, including autoclaves, incubators, and gas decontamination systems. Germfree designs systems that may be configured to keep analytical equipment controls outside of the containment zone. Designed for ergonomics, all products are engineered with the user in mind.





Testing, warranty, and support information

- Equipment and HEPA filters are Factory Acceptance Tested (FAT) prior to shipment, meeting AGS and EN guidelines and an airflow test prior to shipping
- Independent 3rd party certification onsite is recommended prior to operation
- Germfree will include an operation and maintenance manual
- Germfree custom equipment carries a 1 year warranty

Specifications

Standard features

■ Robust construction

All-welded stainless steel.

■ Ergonomic glove position and viewing window

0.375" (9.5 mm) thick clear polycarbonate.

■ Stainless steel gloveports

Stainless steel 7" x 11" (180 mm x 280 mm) oval gloveports.

■ Single inlet and double exhaust HEPA filters

Rated at 99.995% efficient at a 0.3 μm particle size.

■ Active or static airlocks

Doors are interlocked

■ Control panel

Mechanical pressure gauge. Optional digital gauge. Low pressure alarm. GFCI.

Sample Custom Class III Gloveboxes



















Equipment pictured may include custom or optional features

Optional features

- ☐ PASS-THROUGH/AIRLOCKS
- Pass-throughs and airlocks can be virtually any size and can be equipped with the following: Windows, Sliding Trays, Gloveports, Interlocks, HEPA Purge, Maximum of 4 doors, Piping for decon, and chain of custody port.
- ☐ THROUGH-WALL EMBEDS
 - Through-wall embeds are equipped with seamless bioseals and gaskets to prevent the ingress and egress of contaminants into or out of the containment zone. Examples: RTP, Autoclaves, Airlocks, Dunk Tanks
- ☐ STAINLESS STEEL TRANSPORT CONTAINERS

 Consult a Germfree Expert for more information
- ☐ CHEMICAL DUNK TANKS
 - Available in a variety of configurations: Side Mount w/ Drain, Bottom Mount, Sliding Bottom
- ☐ BIOSECURITY OPTIONS

 Options include: Cameras, Security Bars
- ☐ EXHAUST FILTRATION SYSTEMS

 Consult a Germfree Expert for more information

Integrations

☐ RAPID TRANSFER PORT



Rapid Transfer Ports provide a fast method for safely moving specimens, materials, supplies and waste into and out of the Class III BSC without breaking containment.

■ ENVIRONMENTAL TEST CHAMBERS



Germfree's Class III Biosafety Cabinets can be provided with programmable temperature & humidity control systems in order to match environmental conditions. The bulk of the mechanical equipment may be located outside of the containment zone for ease of service and maintenance.

☐ INTEGRATED AUTOCLAVE, STERILIZER



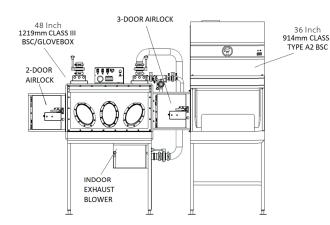
Germfree offers seamless integration of our Class III BSC-glovebox to double door autoclaves to provide the highest level of hazardous waste decontamination and removal. Units are Factory Acceptance Tested (FAT) at our facility prior to shipment.

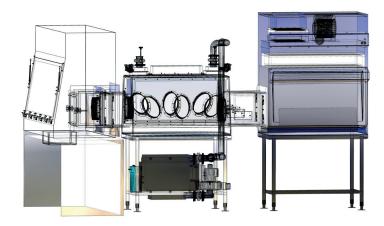
☐ GAS DECONTAMINATION



Germfree Class III
Biological Safety Cabinets
are equipped for gas
decontamination with
Vaporized Hydrogen
Peroxide or Chlorine Dioxide.
Ports allow for independent
gas decontamination of the
main chamber, double door
airlocks and filter housings.

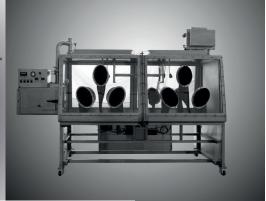
Sample integrations













Technical questionnaire

Device #1 Device #2 Device #3 11. The standard internal dimensions YES NO (Glovebox can always be augmente	the cabinet? If so, please identify below. Dimensions Dimensions Dimensions of Germfree's 3ft Class III BSC are 36"w x 23"d x 27"h. Is this suitable? ed larger or smaller -or- be upgraded to double-sided.) om the exterior of the laboratory to where the equipment will be installed:	
10. Will any devices be placed inside to Device #1 Device #2 Device #3 11. The standard internal dimensions YES NO (Glovebox can always be augmente) 12. Please list doorway dimensions from the standard internal dimensions in the standard internal dimensi	Dimensions Dimensions Dimensions Of Germfree's 3ft Class III BSC are 36"w x 23"d x 27"h. Is this suitable? End larger or smaller -or- be upgraded to double-sided.)	
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	the cabinet? If so, please identify below.	
☐ Gas ☐ Air ☐ Other		
9. What utilities or equipment will be □ Power Voltage	used within the Class III BSC environment?	
8. What are the dimensions of the lar the HEPA-filtered or non-filtered airl	rgest materials and/or samples that are to be passed into the Class III BSC through lock?	
GAS MANUAL OTHER		
5. How will the unit be decontaminat	ted?	
4. Do you plan to work with any amoi standard double HEPA exhaust of the □YES □NO	unts of chemicals or solvents which would require Carbon filtration in addition to the e Class III BSC?	
☐ Exhausted back to lab		
3. How will the exhaust be handled? Hard ducted to outdoors	rest Germfree-supplied exhaust blower	
POSITIVE NEGATIVE		
z. will the room/lab be kept under a	controlled positive or negative pressure?	
2 14/11 +6	de C	
□ BSL-3 □ ISO 8 □ Grade B □ Grad		

