

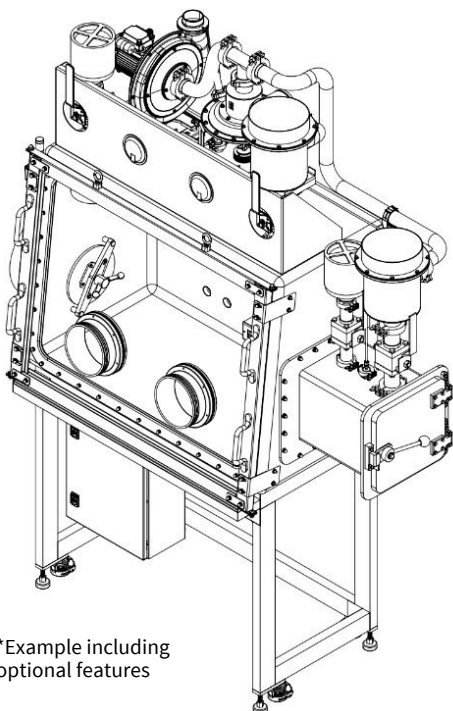
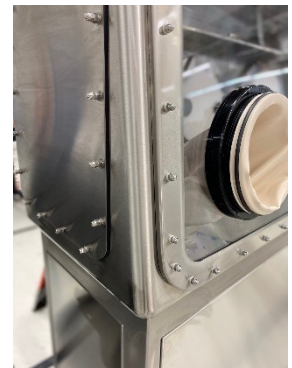


*Example including optional features

Introducing SafeLab, a premium line of filtered-air negative pressure gloveboxes designed to maximize operator safety and environmental protection.

All-welded stainless steel design with radius corners, engineered for cleanability and leak integrity.

Leak tested according to ISO10648-2 standards. Built to achieve ISO Class 5 working zone.



*Example including optional features

SafeLab 2GB

Internal Dimensions:
1200 mm W x 646 mm D x 900 mm H

External Dimensions:
1600 mm W x 864 mm D x 2503 mm H

SafeLab 3GB

Internal Dimensions:
1500 mm W x 646 mm D x 900 mm H

External Dimensions:
1900 mm W x 864 mm D x 2503 mm H

SafeLab 4GB

Internal Dimensions:
1800 mm W x 646 mm D x 900 mm H

External Dimensions:
2200 mm W x 864 mm D x 2503 mm H

DESIGN OPTIONS

- Double-Sided Access
- Left or Right Sided Antechambers
- Single or double filtration
- HEPA or ULPA filters
- Push-Through or Bag-In/Bag-Out filters
- Laminar Flow
- Lead glass window
- Lead shielding
- Safety Glass Window
- Alpha/Beta ports integration
- Custom design available

SPECIFICATIONS

Material : Type AISI 304 stainless steel enclosure and stand

Internal and External surfaces: Brushed finished #4

Wall thickness: 10 Gage

Feedthrough: 3 Welded DN 40 ISO-KF blank

Internal Power: Electrical Power feedthrough (15A) with a duplex outlet

Shelving: 3 x removable 304 stainless steel #4 finish

Plumbing: 304 stainless steel tubing

Filters: 1 x Inlet/ 1 x Outlet HEPA H13

Lighting: Ceiling-mounted external LED light

Power requirements: 100 VAC 50/60 Hz, 110-120 VAC 60 Hz, 200-240 VAC 50 Hz

Overall System Leak Rate: <0.05 vol%/h (ISO 10648-2) and AGS-G004-2014

Fully welded box design In accordance with AGS-G006-2005 standard
Easy cleaning and decontamination

Ventilated or Static cubic antechamber

Bolt-on left or right side

Dimensions : 400 mm W x 300 mm D x 300 mm H

Internal tray: 304 stainless steel #4 surface finish

Doors: Polycarbonate on hinge

Blanked test ports for filter integrity check

Ports installed before and after filter(s)

Gaskets, sealing materials: EPDM as standard

Window: Polycarbonate 3/8" (9.5 mm) thick.

Glove ports:

Circular, Black Delrin, 8" glove ports

0.0015" (0.4mm) thick butyl rubber gloves, hand size 9.75

Operator protection

Mechanical regulation safety valve (VMR63) – for regulation of negative pressure and operator protection in the event of a breach. Meets AGS standards air velocity 125ft/min +/-25ft/min
Overall system design for protection during maintenance

Manual isolation valves

Isolate glovebox during maintenance

Restrict airflow to adjust negative pressure

Integrated blower to generate negative pressure

Air flow exchange rate:

Nominal: 10-15m³/h

Safety mode: 70m³/h

Analog pressure gage monitoring system

Pressure control: -2mbars / -0.80 inH₂O adjustable

Alarm: LED tower lamp 2 colors

Engineering and Quality Documentation

Leak Tightness Report ISO 10648-2

P&ID

Safety and risk assessment: nuclear, seismic, ventilation (available at cost)

Welding book (available at cost upon request upon request)

Factory Acceptance Test (available at cost upon request)

Site Acceptance Test (available at cost upon request)

Material certificate/ Certificate of Compliance (available at cost upon request)

Approvals:

   ISO9001:2015

OPTIONS

- HEPA H14
- Filter clogging monitoring
- Stainless Steel glove ports
- Push Through glove ports
- Acid-resistant coating (Kynar, Epoxy...)
- Lead-lined radiation shielding
- Hoist on glovebox ceiling
- Activated charcoal filter
- Acid filter
- Automatic isolation valve
- Equipment integration
- Flip-up window
- Quick-release window
- Air conditioner
- Waste Ports
- Continuous liner
- Custom Feedthroughs
- Door Interlocks
- Automated Doors
- Vacuum Cleaner
- Safety Glass Window
- Custom Shelving
- Electrical Feedthroughs
- Fiberoptic Feedthroughs
- RS-232/USB/Ethernet Feedthroughs
- Custom Feedthroughs
- Static Eliminator- Ceiling Mounted
- Anti-vibration Table
- Sanitary connections
- Viton gaskets
- CSM, Neoprene, EPDM gloves
- Digital pressure monitoring system

SYSTEM APPLICATIONS

- Nuclear
- Waste sorting
- Powder handling
- Metal Additive Manufacturing
- Aerospace
- Automotive
- Pharmaceutical
- Radioisotope
- Specialty chemical
- Peptide synthesis
- Many other applications