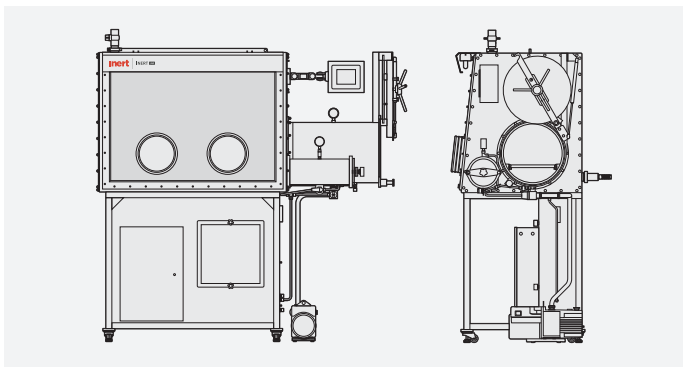


QUALITY YOU CAN COUNT ON.

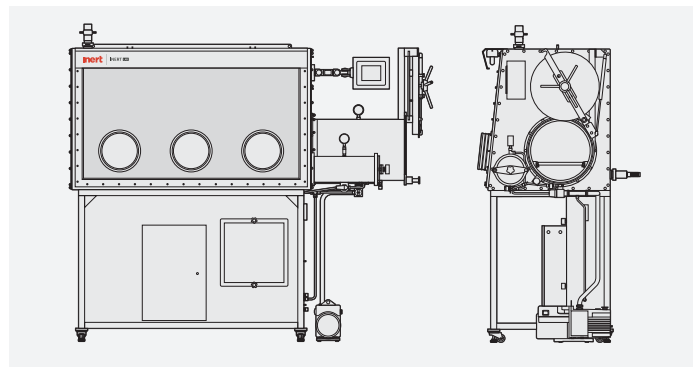
Inert's line of I-Lab Glovebox Systems are designed as an economical solution for inert research applications. As with all our Gloveboxes, I-Lab Gloveboxes are manufactured using the industry's finest components from globally recognized manufacturers.

I-LAB 2GB



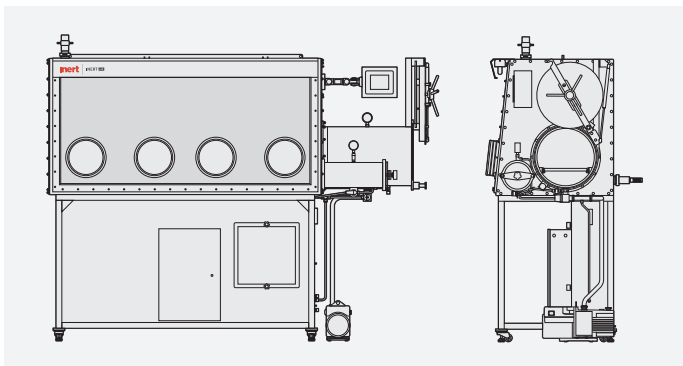
Internal Dimensions:
1213 mm W x 764 mm D x 897 mm H
External Dimensions:
2005 mm W x 1034 mm D x 2024 mm H

I-LAB 3GB



Internal Dimensions:
1524 mm W x 764 mm D x 897 mm H
External Dimensions:
2316 mm W x 1034 mm D x 2024 mm H

I-LAB 4GB



Internal Dimensions:
1803 mm W x 764 mm D x 897 mm H
External Dimensions:
2595 mm W x 1034 mm D x 2024 mm H

DESIGN OPTIONS

- Left Sided Antechambers
- Oval Glove Ports
- Polycarbonate Window
- Modular
- Dry Vacuum Pump
- Cold Wells
- Pure Solv MD Integration

SPECIFICATIONS

Internal Finish: Type 304 stainless steel, #4

External surfaces: RAL 7035

Wall thickness: 0.105" (2.6 mm)

Feedthrough: 4 x DN 40 ISO-KF blank

Internal Power: 1 x electrical feedthrough

Internal Power: 1 x fuse protected 6 outlet power strip

Shelving: 2 x Height adjustable 304 stainless steel #4 finish.

Plumbing: 304 stainless steel tubing

Filters: 1 x Inlet/ 1 x Outlet HEPA (99.99% vs 0.3 micron MPPS)

Lighting: External Fluorescent light

Power: 100-120 or 200-240 VAC 50/60 Hz 20 Amp

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

Non-modular box design

Large Antechamber, 15" (381 mm) internal diameter x 24" (609 mm) internal length

Bolt on left or right side

Internal tray: 304 stainless steel #4 surface finish

Manual evacuate/refill valves

Leak rate: < 10⁻⁵ mbar l/s

Small Antechamber, 6" (152 mm) internal diameter x 17.3"(441 mm) internal length

Manual evacuate/refill valve

Leak rate: < 10⁻⁵ mbar l/s

Tempered safety glass window 3/8" (9.5 mm) thick.

Viewing size : 41.8" (1061 mm) Wide x 30.2" (767 mm) High

Circular glove ports

0.015" (0.4mm) thick butyl rubber gloves, hand size 9.75

I-Lab Gas Purifier

Single column gas purification system

<1ppm O₂ and <1ppm H₂O purity level

O₂ capacity = 43 L

H₂O capacity = 1800 g

Automated purifier column valves: Interlocked with the blower.

Blower will not run if the valves fail to open

Max flow rate through purifier column : 30 cfm (50 m³/h)

PLC control system

Monochrome touch screen

Automatic pressure control: (+/- 15 mbar)

Manual pressure control: Footswitch

Fully automatic regeneration sequence.

Manual purge valve

Vacuum pump: 10 cfm (17 m³/h) rotary vane pump with oil mist eliminator & oil return kit

Integrated oxygen analyzer: Range 0-1000 ppm

Zirconia sensor as standard or electrochemical sensor for solvent compatibility

Integrated moisture analyzer: Range 0-1000 ppm

OPTIONS

- 0-1000 ppm electrochemical oxygen analyzer (solvent compatible)
- 0-25% zirconia oxygen analyzer
- 0-1000ppm moisture analyzer
- Auto purge valve
- Small capacity external solvent removal
- Rectangular freezer: Temp range -35°C to +5°C. Internal volume = 20L. Fitted with 3 height adjustable 304 stainless steel shelves 6.75" (171mm) deep x 10" (254mm) Wide
- Coldwell: 6" (152mm) diameter x 7" (178mm) deep. Fitted with a dewar on sliding rails.
- Heat exchanger located in the circulation loop. 1000W cooling capacity with 18 lpm flow rate of cooling water
- Dry scroll pump
- Electrical feedthroughs
- Fiberoptic feedthroughs
- RS-232/USB/ethernet feedthroughs
- Binding posts
- Optical view ports for laser spectroscopy applications
- Vacuum ovens - 200°C to 600°C
- Microscope systems - internal and window mounted.
- Vacuum/gas feedthroughs
- Custom feedthroughs
- Numerous glove options- material, thickness, hand size.
- Static eliminator. Benchtop style

SYSTEM APPLICATIONS

- Additive (3D) Manufacturing
- Aerospace
- Automotive
- Chemistry
- Lamp Manufacturing
- Lithium Ion Battery
- Medical Device
- Nuclear
- OLED
- Pharmaceutical
- Semiconductor
- Solar
- Specialty Chemical
- Thin Film
- Many other applications