

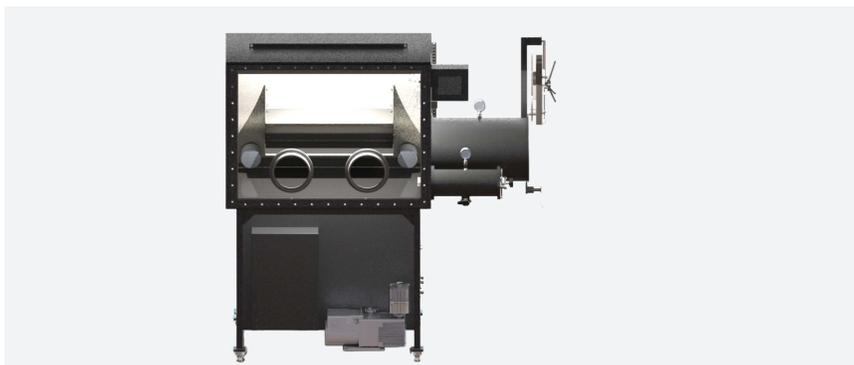
QUALITY YOU CAN COUNT ON

When you support small businesses, you get a better level of service.

I-LAB 2GB

Internal Dimensions:
1250 mm W x 764 mm D x 897 mm H

External Dimensions:
2035 mm W x 1034 mm D x 2024 mm H



I-LAB 4GB

4 glove system available, inquire for details

You also make your community a better place to live and work.

By supporting Inert, you ensure that other small businesses contribute to and benefit from their community as well.

Inert is proud to support local business, deliver a quality product, and build a better future.

Previously known as Innovative Technology, Inert has systems operating in ivy league universities, government labs, and industrial facilities around the globe.

SPECIFICATIONS

Internal Finish: Type 304 stainless steel, #4

External surfaces: RAL 9011 (black)

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: Internal LED

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

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

Polycarbonate window 3/8" (9.5 mm) thick.

Viewing size : 43.2" (1097 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 Management System

Single column system purifies, recirculates, and analyzes inert atmosphere

<1ppm O₂ and <1ppm H₂O purity level

O₂ capacity = 43 L

H₂O capacity = 1800 g

Variable speed circulation blower: 60 cfm max flow rate blower

Siemens SIMATIC S7-1200 PLC control system

Siemens KTP400 4" (101.6 mm) color touch screen HMI

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
EOS-2 analyzer

Integrated moisture analyzer: Range 0-1000 ppm

Approvals:



OPTIONS

- 0-1000 ppm EOS-1 Analyzer
- 0-25% Zirconia Oxygen Analyzer
- 0-1000ppm Moisture Analyzer
- Auto Purge Valve
- Solvent Removal
- Rectangular Freezer: -35°C
Internal Volume = 20L (40L available)
- Coldwell
- Heat Exchanger
- Dry Scroll Pump
- Electrical Feedthroughs
- Fiberoptic Feedthroughs
- RS-232/USB/Ethernet Feedthroughs
- Binding Posts
- Optical View Ports For Laser Spectroscopy Applications
- Vacuum Ovens
- Solvent Purification Systems
- Microscope Systems - Internal and Window Mounted.
- Vacuum/Gas Feedthroughs
- Custom Feedthroughs
- Numerous Glove Options - Material, Thickness, Hand Size
- Static Eliminator (Benchtop Style)
- Probe Stations
- UV Ozone Cleaners

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