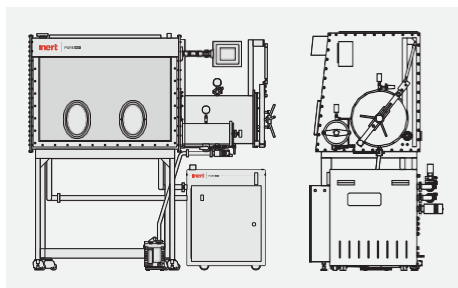




PureLab HE glovebox systems are our premium line, designed specifically for production and research applications.

Built on a flexible platform, PureLab HE allows customization and integration of processes for maximum efficiency and protection from O₂ and H₂O < 1ppm.

PURELAB HE 2GB



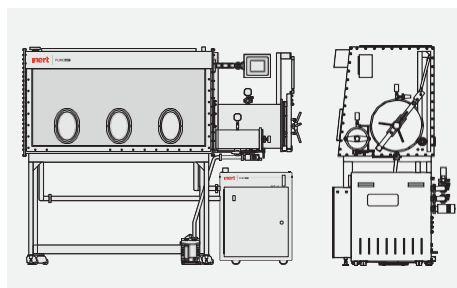
Internal Dimensions:

1250 mm W x 780 mm D x 900 mm H

External Dimensions:

2000 mm W x 1067 mm D x 1921 mm H

PURELAB HE 3GB



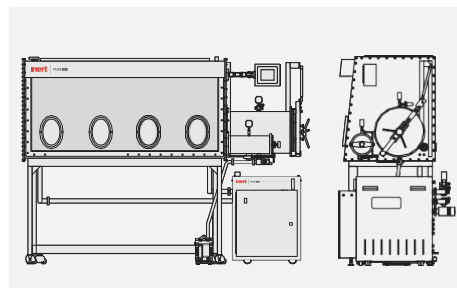
Internal Dimensions:

1500 mm W x 780 mm D x 900 mm H

External Dimensions:

2315 mm W x 1067 mm D x 1921 mm H

PURELAB HE 4GB 1800



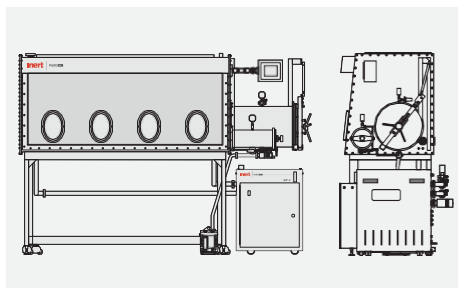
Internal Dimensions:

1800 mm W x 780 mm D x 900 mm H

External Dimensions:

2595 mm W x 1067 mm D x 1921 mm H

PURELAB HE 4GB 1950



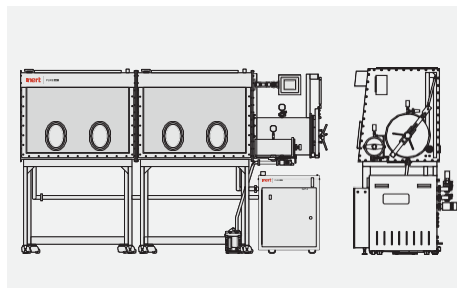
Internal Dimensions:

1950 mm W x 780 mm D x 900 mm H

External Dimensions:

2741 mm W x 1067 mm D x 1921 mm H

PURELAB HE 4GB 2500



Internal Dimensions:

2500 mm W x 780 mm D x 900 mm H

External Dimensions:

3218 mm W x 1067 mm D x 1921 mm H

DESIGN OPTIONS

- Double Sided Access
- Left or Right Sided Antechambers
- Through Flow Antechambers
- Laminar Flow
- Circular Glove Ports
- Safety Glass Window
- Dry Vacuum Pump
- PureSolv MD Integration

SPECIFICATIONS

Internal Finish: Type 304 stainless steel, #4

External surfaces: RAL 9011 (Graphite Black)

Wall thickness: 0.105" (2.6mm)

Feedthrough: DN 40 ISO-KF blank and 3/8" compression bulkhead, 1 each 2GB, 3GB, and 2 each 4GB

Internal Power: Electrical feedthrough, fuse protected 6 outlet power strip

Shelving: 3 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 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)

Modular box design

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

Bolt on left or right side

Internal tray: 304 stainless steel #4 surface finish

Automatic control: Evacuate/refill 1-9 Cycles

Leak rate: <10⁻⁵ mbar l/s

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

Internal tray: 304 stainless steel #4 surface finish

Manual evacuate/refill valve

Leak rate: <10⁻⁵ mbar l/s

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

Oval glove ports: Black Delrin, 8" glove port

Internal glove port cover

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

PureLab HE Gas Management System

Purifier, recirculates, and analyzes inert atmosphere, available as single and dual. column system, with and without external solvent removal

<1ppm O₂ and <1ppm H₂O purity level

O₂ capacity = 43 L purifier column

H₂O capacity = 1800 g per purifier column

Variable speed circulation blower: 60 cfm max flow rate blower

Siemens SIMATIC S7-1200 PLC control system

Siemens KTP800 7" (177.8 mm) color touch screen HMI

Automatic pressure control: (+/- 15 mbar)

Manual pressure control: Footswitch

Fully automatic regeneration sequence.

Auto Purge valve: O₂ level, Timer or manually controlled

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, Electrochemical

Integrated moisture analyzer: Range 0-1000 ppm

Eco Mode Features

Vacuum pump timer: Shuts pump off for energy reduction

Automated Blower speed control: O₂ level adjusts blower speed

Approvals:



OPTIONS

- 0-1000ppm Zirconia EOS-1 Analyzer
- 0-25% Zirconia Oxygen Analyzer EOS-3
- 0-25% Electrochemical Oxygen Analyzer EOS-4
- 0-1000ppm Moisture Analyzer
- 0-25% Helium in Argon Analyzer
- 0-25% Helium in Nitrogen Analyzer
- Vacuum Pumps
- Solvent Removal
- Rectangular Freezer: -35°C
Internal Volume = 20L (40L available)
- Custom Coldwell
- Numerous Antechamber Options
- Thermoelectric Box Cooling System +
air conditioner
- Heat Exchanger
- Dry Scroll Pump
- Vacuum Ovens
- Solvent Purification Systems
- Microscope Systems
- Custom Shelving
- Electrical Feedthroughs
- Fiberoptic Feedthroughs
- RS-232/USB/Ethernet Feedthroughs
- Quartz Window for Solar Simulator Testing
- Optical View Ports for Laser Spectroscopy
- Vacuum/Gas Feedthroughs
- Custom Feedthroughs
- Door Interlocks
- Automated Doors
- Vacuum Cleaner
- Safety Glass Window
- Evaporation System Integration
- Quick Release Window System
- Glove port Covers
- Static Eliminator- Benchtop Style
- Static Eliminator- Ceiling Mounted
- Binding Posts/BNC
- Anti-vibration Table

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