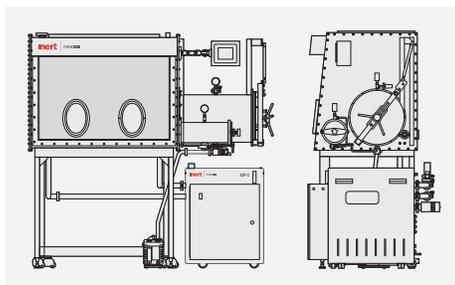


PureLab High Efficiency (HE) is our premium line of gloveboxes, designed specifically for production and research applications.

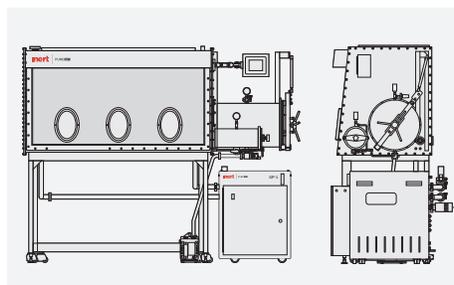
Time management and maximum efficiency are crucial, so this line is fully automated and is our most flexible platform, allowing for easy integration of OEM equipment.

### PURELAB HE 2GB



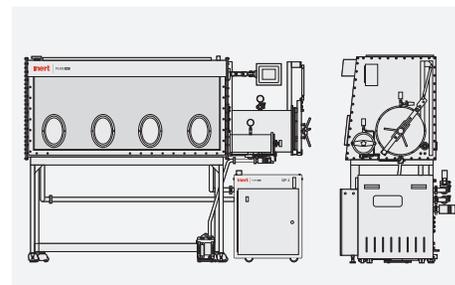
**Internal Dimensions:**  
1250 mm W x 780 mm D x 900 mm H  
**External Dimensions:**  
2000 mm W x 1067 mm D x 1921 mm H

### PURELAB HE 3GB



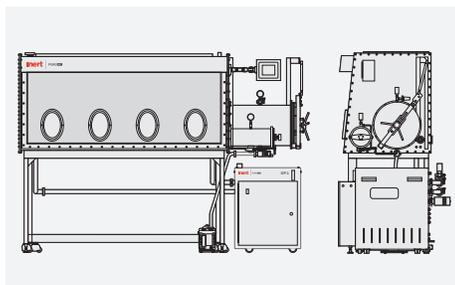
**Internal Dimensions:**  
1500 mm W x 780 mm D x 900 mm H  
**External Dimensions:**  
2315 mm W x 1067 mm D x 1921 mm H

### PURELAB HE 4GB 1800



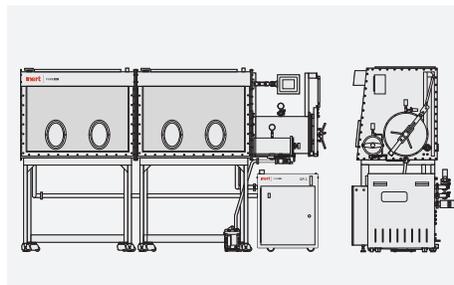
**Internal Dimensions:**  
1800 mm W x 780 mm D x 900 mm H  
**External Dimensions:**  
2595 mm W x 1067 mm D x 1921 mm H

### 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 Sided Antechambers
- Through Flow Antechambers
- Laminar Flow
- Circular Glove Ports
- Polycarbonate Window
- Dry Vacuum Pump
- Pure Solv MD Integration
- Other Customizations

## SPECIFICATIONS

**Internal Finish:** Type 304 stainless steel, #4

**External surfaces:** RAL 7035

**Wall thickness: 0.105" (2.6 mm)**

**Feedthrough:** DN 40 ISO-KF blank and 3/8" compression bulkhead

**Internal Power:** Electrical feedthrough

**Internal Power:** 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 Fluorescent light

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

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

### 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

**Automatic control:** Evacuate/refill 1-9 Cycles

**Leak rate:** < 10<sup>-5</sup> mbar l/s

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

**Internal tray:** 304 stainless steel #4 surface finish

**Manual evacuate/refill valve**

**Leak rate:** < 10<sup>-5</sup> mbar l/s

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

**Oval glove ports:** Black Delrin, 8" glove port  
Internal glove port cover  
0.015" (0.4mm) thick butyl rubber gloves, hand size 9.75

### Pure Lab HE Gas Purifier

Available as single and dual column purifier versions with and without external solvent removal. (GP-1, GP-2, GP-1-SR, GP-1-RSR, GP-2-SR, GP-2-RSR)

**<1ppm O<sub>2</sub> and <1ppm H<sub>2</sub>O purity level**

O<sub>2</sub> capacity = 43 L per purifier column

H<sub>2</sub>O capacity = 1800 g per purifier column

**Variable speed circulation blower:** 120 cfm max flow rate blower

**PLC control system**

**6" color touch screen**

**Automatic pressure control:** (+/- 15 mbar)

**Manual pressure control:** Footswitch

**Fully automatic regeneration sequence.**

**Purge valve:** O<sub>2</sub> Level, Timer or manually controlled

**Vacuum pump:** 10 cfm (17 m<sup>3</sup>/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

### Eco Mode Features

**Vacuum pump timer:** Shuts pump off for energy reduction

**Automated Blower speed control:** O<sub>2</sub> level adjusts blower speed

Approvals:   

## OPTIONS

- 0-1000 ppm Zirconia Oxygen Analyzer
- 0-1000 ppm Electrochemical Oxygen Analyzer
- 0-25% Zirconia Oxygen Analyzer
- 0-1000ppm Moisture Analyzer
- 0-25% Helium in Argon Analyzer
- Vacuum Pumps
- 0-25% Helium in Nitrogen Analyzer
- Solvent Sensor
- Rectangular Freezer
- Coldwell
- Custom Coldwell
- Numerous Antechamber Options
- Thermoelectric Box Cooling System
- Heat Exchanger
- Dry Scroll Pump
- Vacuum Ovens
- Solvent Purification Systems
- Microscope Systems
- Custom Shelving
- Electrical Feedthroughs
- Fiberoptic Feedthroughs
- RS-32/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
- Polycarbonate Window
- Evaporation System Integration
- Quick Release Window System
- Gloveport Covers
- 250°C Hot Plates
- Static Eliminator - Benchtop Style
- Inkjet Printers
- Probe Stations
- UV Ozone Cleaners
- Static Eliminator - Ceiling Mounted
- Optical View Ports for Laser Spectroscopy
- Binding Posts

## 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