

INERT GAS GLOVEBOX WORKSTATION

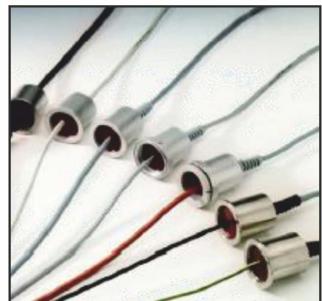


- Best value for Money
- Closed loop recirculation
- Attainable oxygen and moisture level, <1ppm
- Modular Design for extension in future
- Smart Energy Mode Feature
- Automatic control of antechamber
- Automatic box purging function
- Negative and /or positive pressure operation
- Foot pedal switch for temporary pressure adjustment

GLOVEBOX AND ACCESSORIES



Quick Opening Window



Feedthroughs



Sensor Set



Activated Charcoal Filter

GLOVEBOX TECHNICAL DATA*

Box Structure	Modular Design
Material	Stainless steel (US304, 1.4301)
Inner dimension (2P)	length 1200mm
	Depth 750mm(bottom), 650mm(top)
	height 900mm
Leakrate	< 0.01 vol%/h
Inside surface	Brushed finish Ra1.2µm
Outside surface	Coated, signal white (RAL9003)
Window	Safety Glass, Polycarbonate Window
Glove ports	black anodized AL, port dia.220mm
Glove	Butyl, thickness 0.4mm
Light	LED lamp
Feedthroughs	4xDN40KF flange
Electrical feedthrough	1
Dust filter	inlet/outlet, HEPA H13
Shelves	6 shelves mounted on the rear panel, height adjustable

MAIN ANTECHAMBER TECHNICAL DATA*

Type	Cylindrical
Material	Stainless steel (US304, 1.4301)
Dimension	380 (or 390) x 600mm (Dia)
Inside surface	Brushed finish Ra1.2µm
Outside surface	Coated, signal white (RAL9003)
Leak rate	<10 ⁻⁴ mbar·L/s
Sliding tray	Stainless steel
Dimensions of sliding tray	570 x 278 mm (LxW)
Doors	Al, anodized, thickness 10mm
Door lock	Door closing mechanism with spindle handle for one hand operation
Pressure gauge	Analog Display
Vacuum/Refill process	Automatic, PLC control
Valves	Electro-pneumatic Valve (DN25 vacuum line / 3/8" refill line)

OPTIONAL ACCESSORIES

Large choice of feedthroughs for signals, gas, liquid, light fiber
A variety of glove types (Hypalon, Neoprene and Butyl) are available
Quick opening window
Polycarbonate window

MINI-ANTECHAMBER TECHNICAL DATA*

Type	Cylindrical
Material	Stainless steel (US304, 1.4301)
Dimension	150 x 300mm (Dia.)
Doors	Al, anodized, thickness 10mm
Vacuum/Refill process	Manual valve



GAS PURIFICATION SYSTEM TECHNICAL DATA

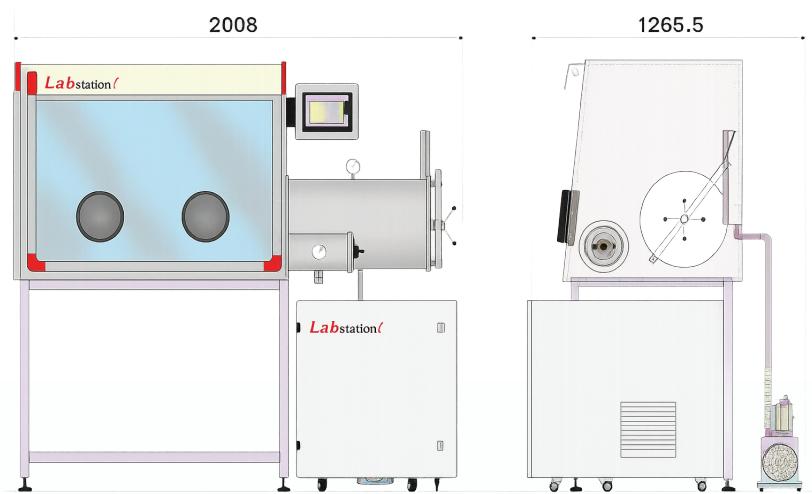
Attainable purity level	H2O <1ppm, O2 <1ppm
Moisture and oxygen analyzer	Solid State
Number of purifier column	1
Regeneration	Automatic program controlled by PLC
Control unit	SIEMENS PLC
Box pressure control	Automatic pressure control with foot switch (+/-15mbar)
Vacuum Pump	Option 1: RV12 flow rate 12m ³ /h
	Option 2: DRV10Y flow rate 10m ³ /h
Blower (50Hz)	0–90 m ³ /h with frequency controller
Main and side piping	Stainless steel (US304, 1.4301)
Regeneration gas	N ₂ /H ₂ or Ar/H ₂ mix (H ₂ 5–10%)
Working gas	N ₂ , Ar or Helium
Recirculation control	Electro-pneumatic
Heat Exchanger	Included
Function	Automatic box purging Automatic antechamber control Smart Energy Mode

OPTIONAL

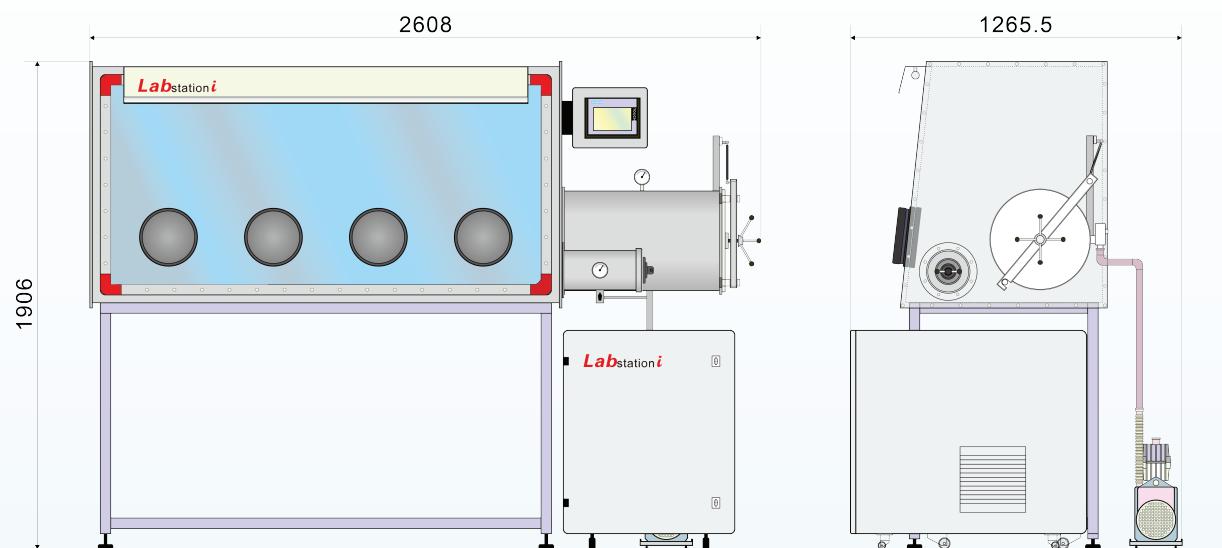
Solvent adsorber
Dry pump upgrade
Box cooling unit
Refrigerator -35 °C
Particle removal unit - Easy cleaner
Laminar flow upgrade
Dual Purifier columns
Remote Monitoring
Vacuum Oven

CHOOSE FROM ANY OF THE FOLLOWING STANDARD CONFIGURATION

Labstation i	(1200/750mm) 2 Port Standard
Labstation i	(1500/750mm) 3 Port Standard
Labstation i	(1800/750) 4 Port Standard
Labstation i	(1200 x 1100mm) 2+2 Port (front + back)
Labstation i	(1500 x 1100mm) 3+3 Port (front + back)
Labstation i	(1800 x 1100mm) 4+4 Port (front + back)
* Custom size/ custom configured glove boxes also possible	



Two Port



Four Port

UTILITY	Medium (or type)	Pressure	Flow rate	Connection
Electrical Supply	220V/50Hz, single phase			
Power	1.5Kw			
Working gas	Nitrogen, Argon or Helium	5~6bars	200 L/Min	Inner Diameter 9mm Flexible Tube
Regeneration gas	N ₂ /H ₂ or Ar/H ₂ mix (H ₂ 5~10%)	0.3~0.4 bars	15~20 L/Min	Inner Diameter 9mm Flexible Tube
Cooling water	less than 25 °C	1 atm	4 L/Min	Inner Diameter 9mm Flexible Tube
Regeneration Exhaust				Inner Diameter 9mm Flexible Tube
Vacuum Pump Exhaust				DN25KF
Box purge Exhaust				DN40KF