



NICHWELL

α -1800P Min Glovebox



- stands above the competition with our all-welded design
- all stainless steel pipework
- Regeneration averages ~ once per year
- Automatic antechamber control
- Mini antechamber
- vacuum pump
- Oxygen Analyzer / Moisture Analyzer
- Solvent absorber
- Auto purge function
- PLC controlled with color touch panel
- EnergySave mode, Automatically reducing power consumption by up to 90% during idle periods.
- Automatic regenerable H₂O/O₂ purifier
- Attainable purity O₂<1 ppm , H₂O<1 ppm (dew point also available for moisture reading)
- Industry leading low leak rate of <0.05%Vol/h
- Circulation capacity more than 84 m³/h (50 cfm) at ΔP = 60 mbar (60 Hz)
- World-wide operation using standard power supply
- Integrated high vacuum feedthroughs
- Conform to CE

DESIGN OPTIONS

- Double Sided Access
- Left Sided Antechambers
- Vacuum Oven
- Freezer Temperature -35°C
- Through Flow Antechambers
- Laminar Flow
- Cold Well With Cover
- Regenerable Solvent Adsorber
- Dual Purification Columns
- Circular Glove Ports
- Polycarbonate Window
- Dry Vacuum Pump
- Solvent purification System
- Other Customizations

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

SPECIFICATIONS

Glovebox

Material: Stainless Steel 1.4301 (US type 304), thickness 3 mm
Glovebox inside dimensions: 1800mm(L) x 700mm(W) x 800mm(H)
Feedthrough: DN 40 ISO-KF blank and 3/8" compression bulkhead
Internal Power: Electrical feedthrough
Shelving: 3 Height adjustable 304 stainless steel
gloves: Butyl, thickness 0.4 mm
Filters: 1 Inlet/ 1 Outlet HEPA
Lighting: Fluorescent lamp, Front mounted
Power: 100-120V or 200-240 VAC 50/60 Hz 20 Amp
Leak Rate: <0.05vol%/h (ISO 10648-2)

Large Antechamber

10" (250 mm) internal diameter x 12" (300 mm) internal length
Bolt on left or right side
Internal tray: 304 stainless steel
Automatic control: Evacuate/refill
Leak rate: < 10⁻⁵ mbar l/s

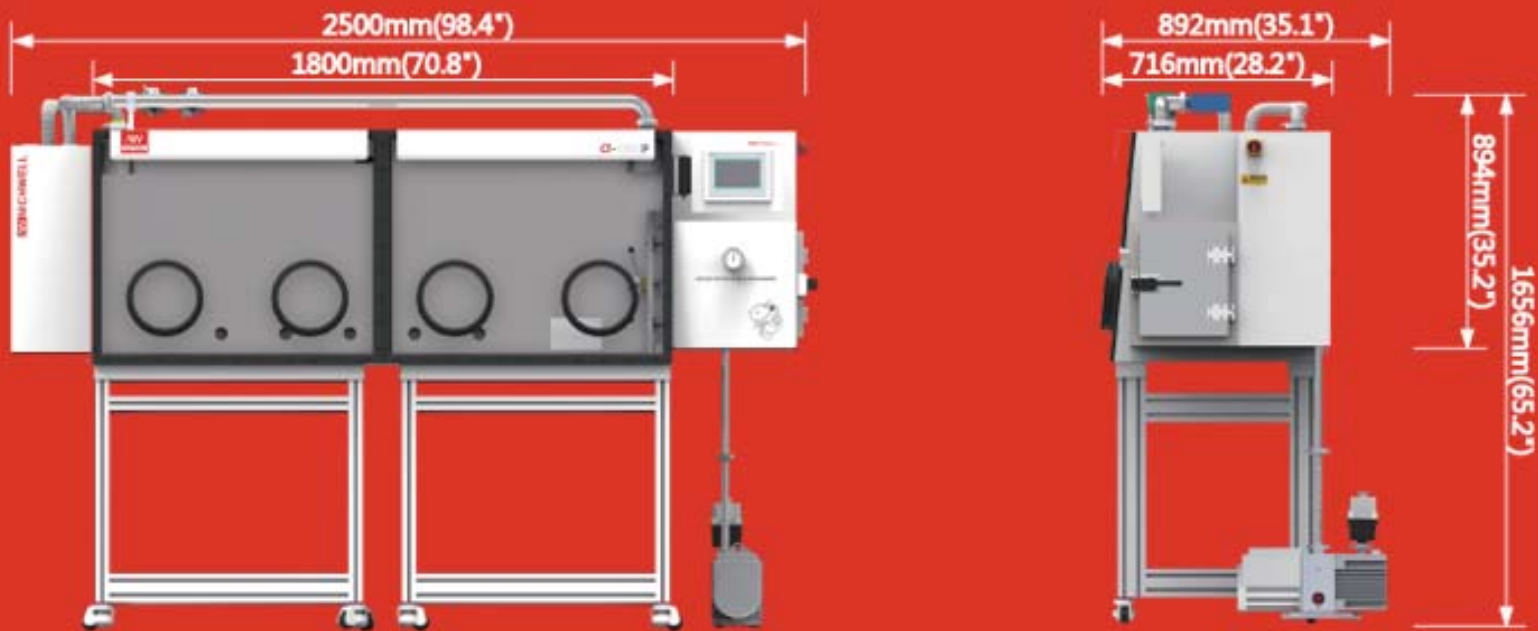
Gas purification System

Available as single and dual column purifier with solvent removal.
purity level: <1ppm O₂ and <1ppm H₂O
O₂ capacity = 43 L per purifier column
H₂O capacity = 1800 g per purifier column
Variable speed circulation blower
PLC control system 6" color touch screen
Automatic pressure control: (+/- 12 mbar)
Blower : Automated speed control: O₂ level adjusts blower speed
Circulation capacity more than 84 m³/h (50 cfm) at ΔP = 60 mbar (60 Hz)
Pressure control: Footswitch
Fully automatic regeneration sequence.
Purge valve: O₂ Level, Timer or manually controlled
Vacuum pump: 10 cfm (17 m³/h) rotary pump with oil mist eliminator
Shuts pump off for energy reduction

Oxygen Analyzer: Range 0-1000 ppm

Moisture Analyzer: Range 0-1000 ppm





Type Select

	650mm	800mm	1000mm	1200mm	1500mm	1800mm
Acrylic						
Vacuum						
Mini						
Standard						

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