

# Glove Box : G180B-xx Series



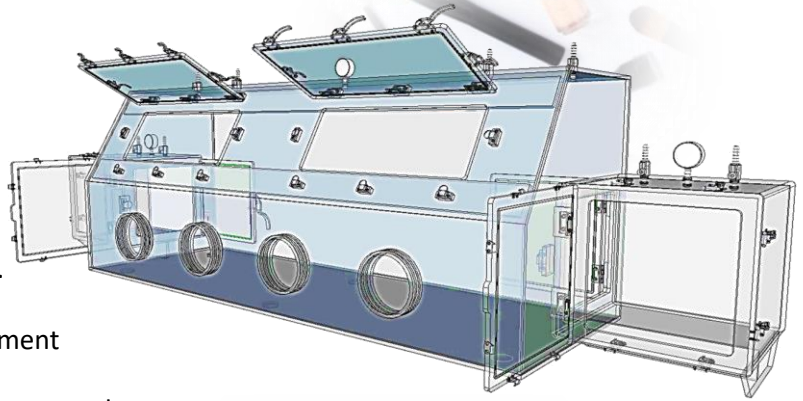
3A Instrument Co., Ltd.

for control environment with close system.

These basic compact Dry glove boxes provide low-humidity, low-oxygen Free controlled environment when used with Close system . Includes inlet-outlet gas port for inert gas condition testing . Dry Glove Box system *Glove boxes are ideal choice for laboratory testing cost system in such industries as Laboratory, Research Testing, pharmaceutical, Cosmetic, Semiconductor, Batteries, Electronic, Solar cell and University research.* tem designed for easy transfer of samples and close system for dry glove box.

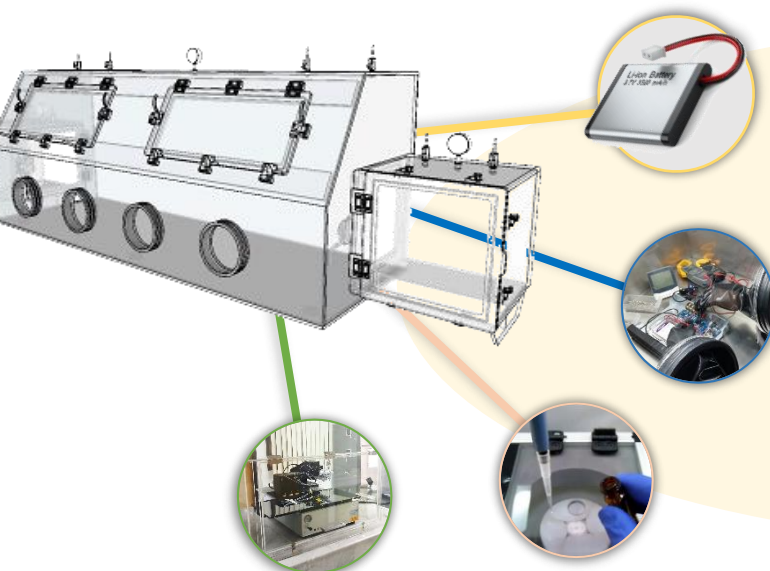
## Features:

- Clear Acrylic thickness 10 mm with large opening.
- Can be cleaning inside system with the inert gas port.
- Two glove port diameter 200 mm.
- Dry glove boxes provide low-humidity, controlled environment when used with Close system.
- Glove Box design for negative pressure and positive pressure testing.
- Double Pass box allow convenient sample parts transfer.



## Application

- Close system testing for Laboratories of pharmaceuticals, Biological, Chemical.
- Weighing samples of moisture sensitive drug powders.
- Experiments that require low-humidity conditions.
- Operation of various instruments requiring environmental control, Equipment Enclosure such as Instrument.



- **Anaerobic Test Glove Box.**
- **Negative or positive pressure glove box.**
- **Vacuum Glove box.**
- **Biosafety Glove Box.**
- **Benchtop Glove Box for control Environment Equipment Enclosure.**
- **Gas control system nitrogen purge for low –humidity.**
- **Temperature and Humidity control.**
- **Programmable process Controller Temperature and Humidity.**
- **Basic Research Glove Box.**

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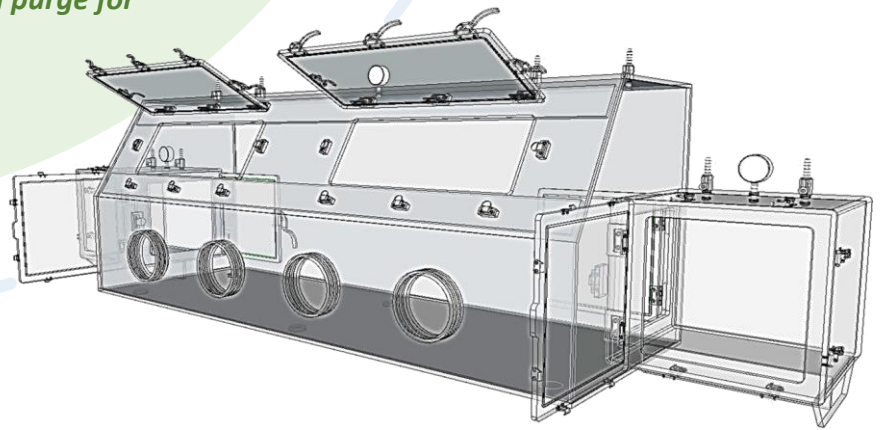
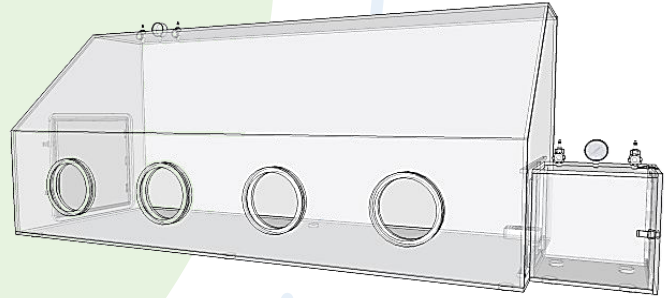
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## Benchtop Glove Box

- Dry glove boxes provide low-humidity, controlled environment when used with Close system.
- Glove Box design for negative pressure and positive pressure testing.
- Environment Equipment Enclosure for application Microscope , Balance and determination Instrument Laboratory control .
- *Gas control system nitrogen purge for low –humidity*



## Chamber

- Easy open and operate system .
- Glove Port ID 150 or 200 mm for use Long gloves Diameter 220 mm, Length 800 mm.
- Gas ( $N_2$ ,  $O_2$ , or Ar) in port Push-to Connect fitting and gas-out bleeding valve with Flow meter for gas control system.
- Glove port with O-Ring 2 Set (4 pcs)
- Option for Gloves Material : Natural Rubber, Neoprene, Hypalon CSM, BHP, PUR and EPDM Gloves

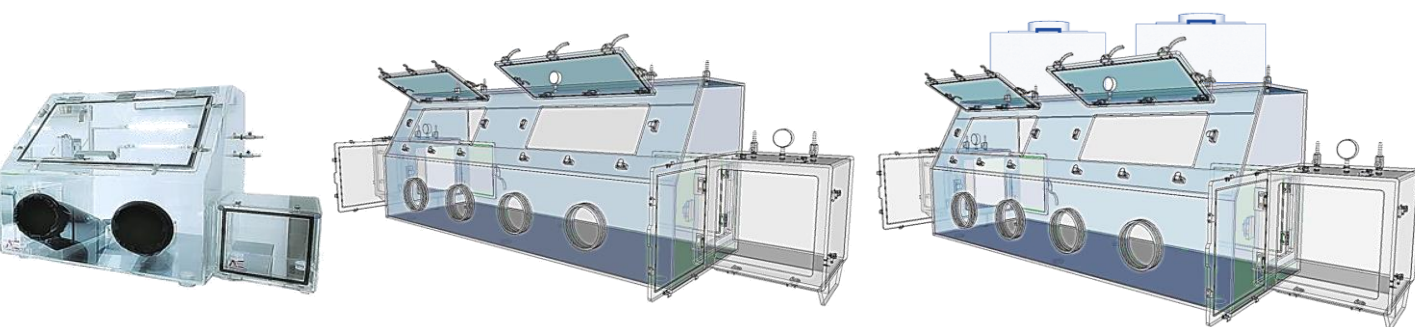


## Pass Box

- The PASS BOX is Accessories to transfer samples into the inside glove box, with size W350 x D300 x H300 mm. Side open window.
- The 300 x 300 mm. opening allows for parts to be easily placed inside the glove box with door slide.
- *Gas ( $N_2$ ,  $O_2$ , or Ar) in port Push-to Connect fitting and gas-out bleeding valve. Flow meter for gas control system.*

# Specifications:

Model	G180B-01	G180B-11	G180B-12
<b>Material</b>	Clear Acrylic		
<b>Material Thickness ( mm ) :</b>	10	10	10
<b>External Dimensions</b> (Main Chamber)	W 1800 x D 600 x H 700 mm.		
<b>UVC Lighting 15 W.</b>	Option.		
<b>Lighting 15 W .</b>	Yes.		
<b>Gas Port</b> : for inert gas such as nitrogen, argon, air, etc.( 4 pcs )	Yes.		
Analog Pressure Gauge : 0 - 1 bar	Yes.		
<b>Door open big side :</b>	-	W 540 x D 200 mm.	W 540 x D 200 mm.
<b>Side Door right open :</b>	-	Yes.	Yes.
<b>Glove Port Diamention</b> ( 4 pcs ) :	ID 200 mm. ( Option ID 150 mm )		
<b>Pass Box</b> for sample transfer : - Size : W410 x D370 x H370 mm - Inlet/Outlet Gas Port , 2 pcs - Analog Pressure 0-1 bar, 1 pcs	-	Yes.	Yes.
<b>Carbon Filter</b> with Blower	Option		
<b>Hepa Filter</b> with Blower	Option		
Auto Dry for low humidity	Option		
Temperature & Dehumidity Control - Thermoelectric Cooler - Anti-Condensation Heater - Dehumidifier	Option.		
Power Socket : 220V,50-60 Hz,	Yes. (2 Channel.)		
Gloves: Port ID 220 mm,Length 800 mm	Yes. (Options) Material : Natural Rubber /Neoprene/CSM/BHP/PUR/EPDM		

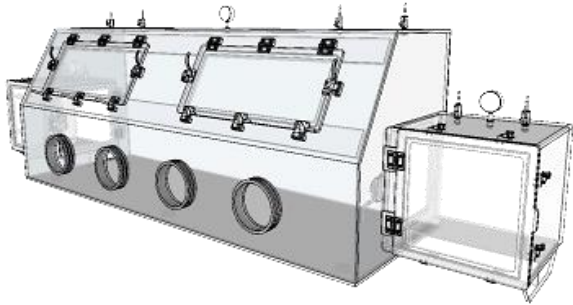


# Drawing dimensions

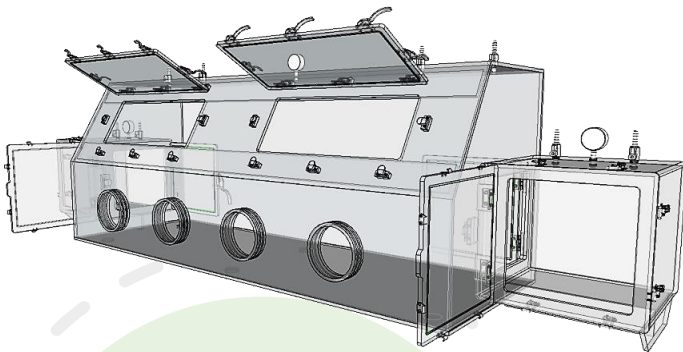
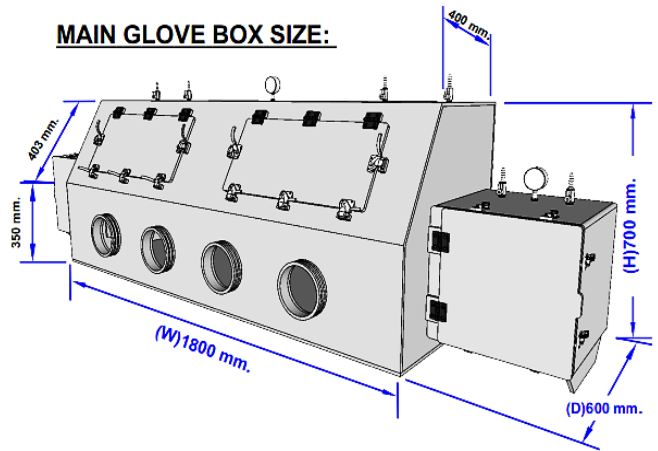
## Easy Maintenance and Testing



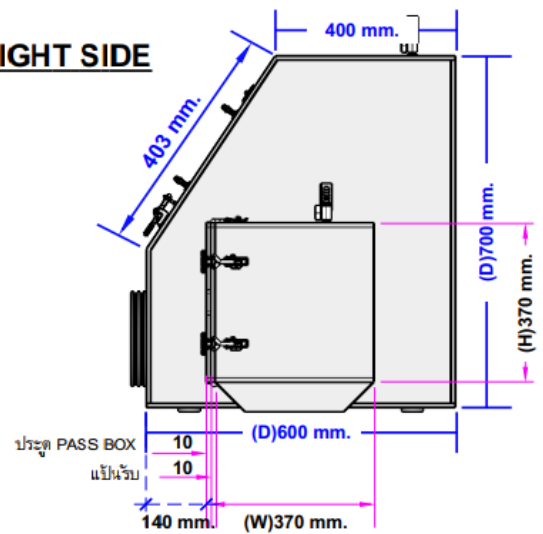
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### MAIN GLOVE BOX SIZE:



### RIGHT SIDE



### Main Chamber

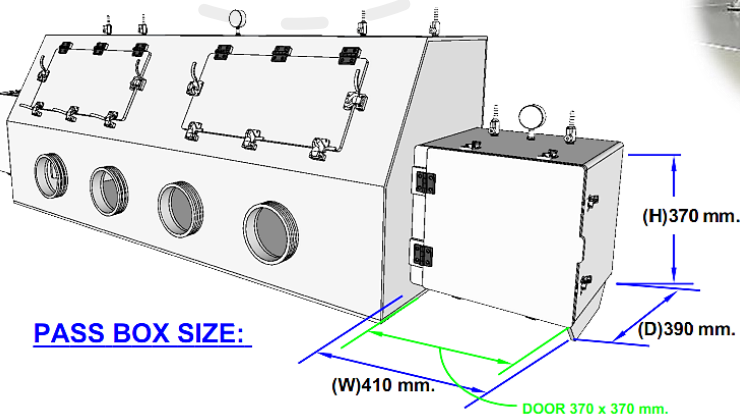
- External Chamber Dimension: W1800 x D600 x H700 mm.
- Main Chamber: Clear Acrylic
- Thickness: 10 mm.
- Open Door internal Dimension: W540 x D200 mm.



### Gas port

- Inlet / Outlet gas port for inert gas  $Ar_2$ ,  $N_2$ .
- Needle Valve Stainless Valve.

### PASS BOX SIZE:



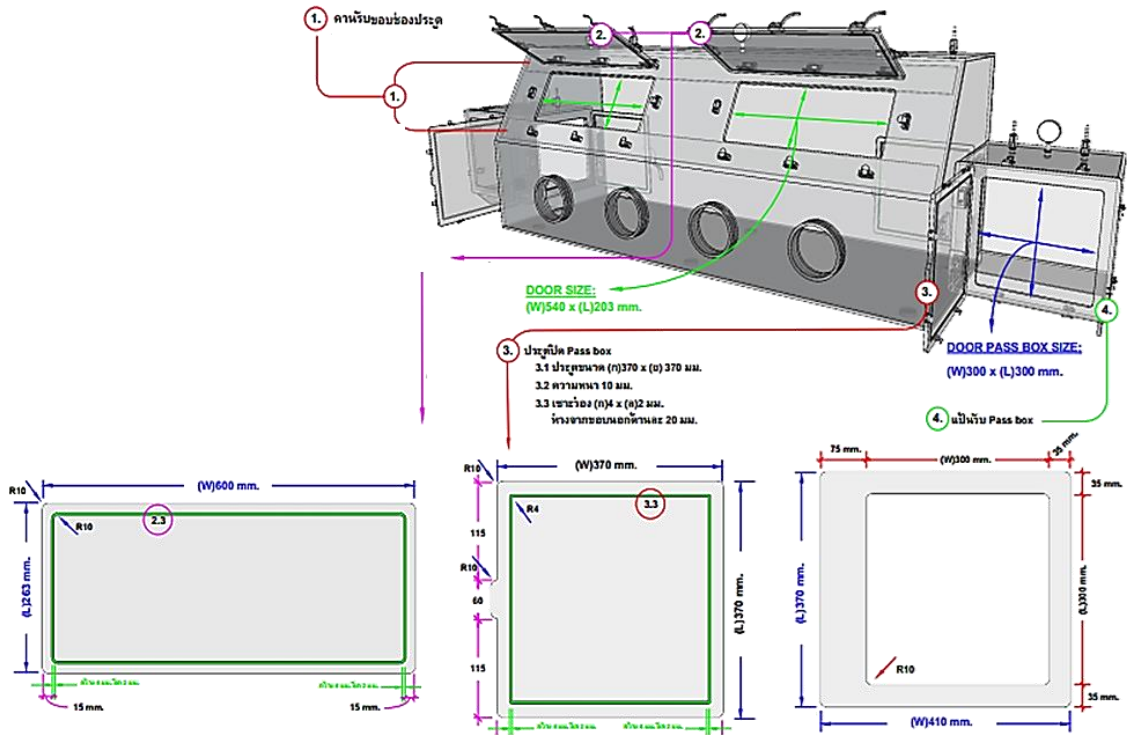


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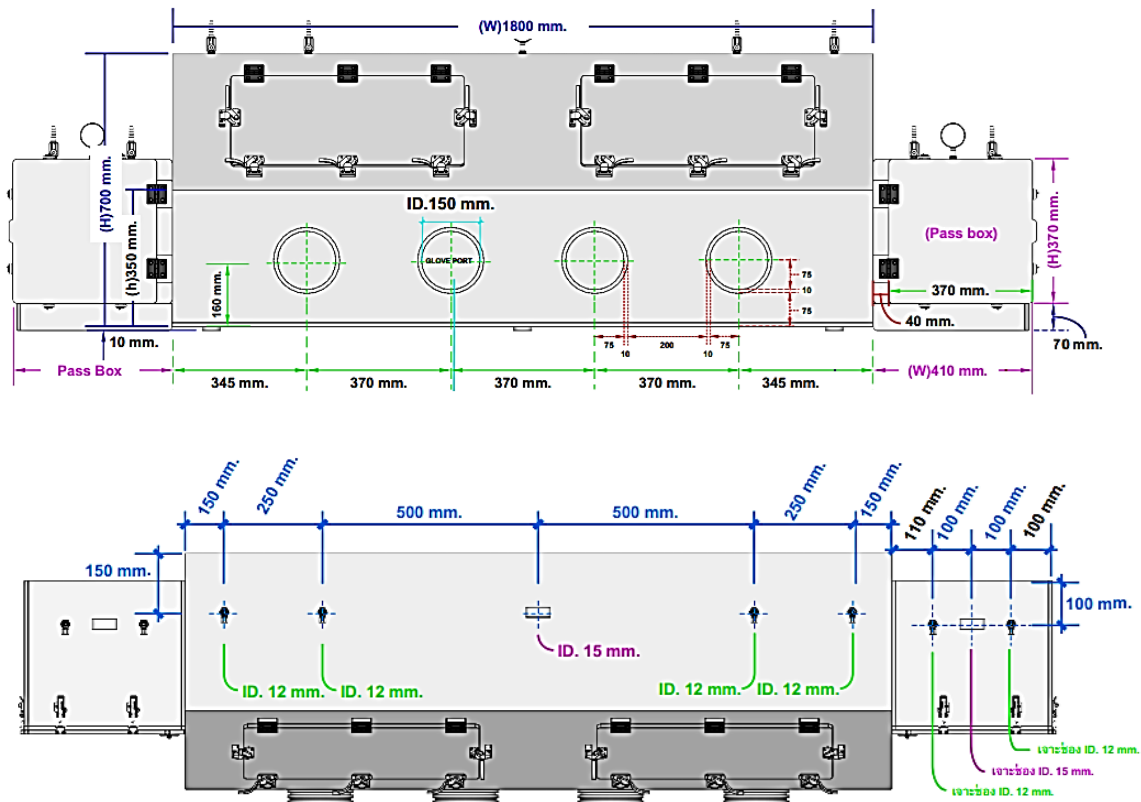


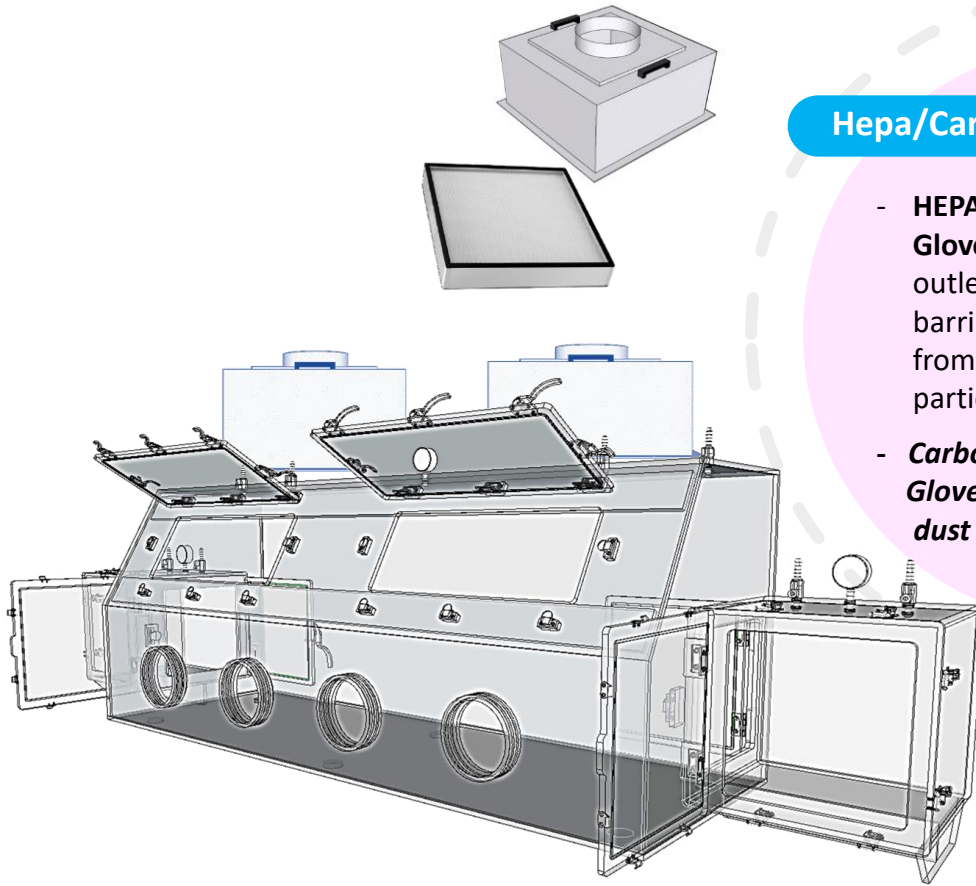
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## Easy Maintenance and Testing



### Main Chamber





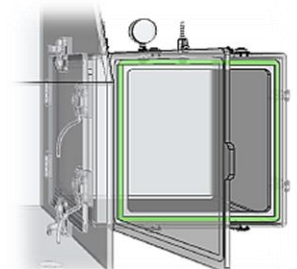
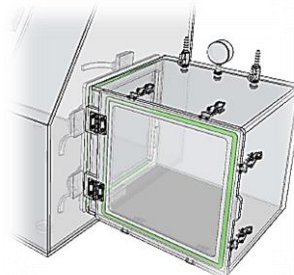
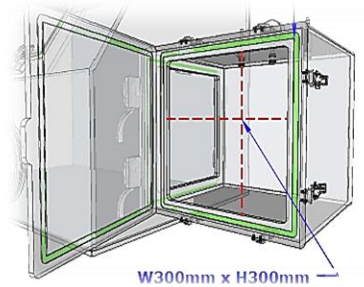
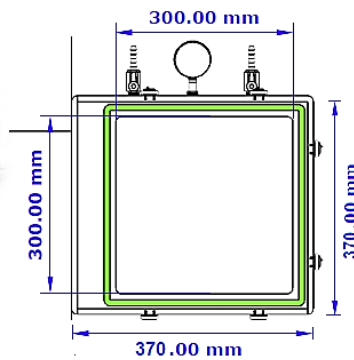
## Hepa/Carbon Filter

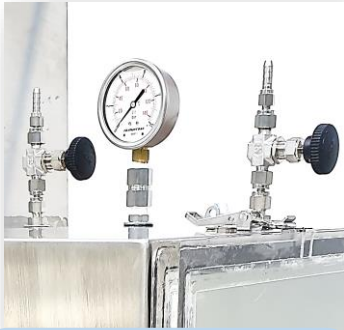
- **HEPA-Filtered with blower Glove Boxes** have inlet and outlet HEPA filters and provide barrier to protect the operator from hazardous airborne particulates and powders.
- **Carbon filter with Blower Glove Box** Helps prevent dust and chemicals.

## Pass Box Transfer sample

### Pass Box

- **Open Door internal Clear Acrylic:** W250 x D250 mm.
- **External Dimension:** W300 x D300 x H300 mm.
- Inlet/Outlet for inert gas Port 2 pcs.
- Pressure gauge 0-10 bar: 1 pcs.





Stainless Needle Valve



Molecular sieve



Humidity Temperature Datalogger



POM Glove Port

POM Glove Port



Long Gloves/ PIERCAN



Oil Free Laboratory Chemical Resistant Vacuum

Vacuum Pump



Ball Valve stainless steel

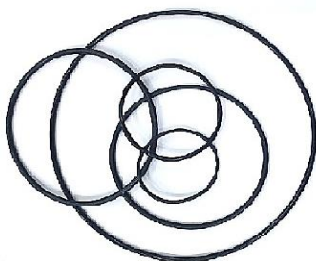


Ball Valve stainless steel



Vacuubrand MZ 2C NT 1. 2CFM Chemistry Diaphragm Pump 110V - Chemical Resistance

Vacuum Chemical diaphragm



EPDM O-ring



Air to air thermoelectric Cooler

Thermoelectric cooler



Digital Temperature Controller

Digital Controller

# Technical Dry Gloves for Glove Box

Technical Material gloves for all industrial and laboratory testing.



**PIERCAN** Glove is high quality product form France. The range of gloves that PIERCAN offers is very wide, comprising dry box gloves, sleeve, and isolator glove.



## CSM

### Chlorosulfonated Polyethylene glove (CSM).

- Resistance to ozone, UV and Sterilizing agents (VHP\*).
- Excellent mechanical properties.
- Resistance to ionizing radiation and sterilizing process (Gamma and Beta Radiation).

VHP\* (Vaporous hydrogen peroxide)



## Black EPDM

### Ethylene Propylene Diene Monomer glove.

- Antistatic
- Excellent Flexibility and dexterity.
- Excellent chemical properties, good mechanical properties.
- Composition in accordance with the FDA positive list (CFR 21 § 177. 2600).
- Resistance to AUTOCLAVE, GAMMA & VHP Sterilization 75 cycles of 30 minutes at 121 °C.



## Natural Rubber

### Natural rubber glove (polyisoprene)

- Excellent flexibility and dexterity
- Good resistance to alcohols, reducing acids and diluted bases.





# DRY GLOVE

for the Pharmaceutical and Cosmetics manufacturing.



## Neoprene

### Polychloroprene glove

- Good mechanical properties.
- Good general resistance to chemical products.
- Very good resistance to sterilisation agents (hydrogen peroxide) and radiation sterilisation (Gamma and Beta rays).
- Good technical and cost-effective compromise
- Self-extinguishing.



## POLYURETHANE

### POLYURETHANE glove

- Excellent mechanical properties (punctures, tears, abrasion)
- Highly resistant to ozone and UV rays



## POLYURETHANE / CSM

### Two layer polyurethane and chlorosulfonated polyethylene glove.

- A glove that combines mechanical properties (polyurethane) with chemical resistance (CSM)
- Good resistance to chemical sterilising agents (CSM side)
- High resistance to ozone and UV. Good resistance to ionising radiation.
- Excellent resistance to disinfectants.



## High Butyl Properties

### Polyisoprene isobutylene glove.

- Electrostatic dissipative glove in accordance with EN 16350.
- Highly impermeable to liquids and gases
- Good ability to withstand chemical products
- Highly resistant to ozone and UV rays
- Good flexibility and dexterity
- Antistatic (compliant with European standard EN 16350-2014)

