

## 3GB Series – 3 Port Glove Box



### A. Product introduction:

This 3 Port Glove Box are design to meet customer desired specification for their lab testing purpose.

### B. Features & Configuration :

#### Part 1: Body structure:

- 1 x Chambers made of SUS304 stainless steel, acid resistant, 3mm thickness; dimension: 1500W x760D x 900H mm (3 gloves)
- 1 x Toughed glass windows
- 3 x Glove ports Diameter 218-220mm
- 3 x Gloves made of Butyl
- 1 x PowerBoard,110V~250V
- 1 x Lighting systems
- 1 x UV light Mercuric germicide with 254nm
- 4 x KF40 spare connectors

#### Part 2: Antechamber

- 1 x Large antechamber made of stainless steel, diameter 381mm x length 800mm, right side.

#### Part 3: Nitrogen / Oxygen Analyzer Controller

- Range 100ppm-21%, can control the Oxygen level inside the glove box by communicate with the Nitrogen purge system.



#### Part 4: Temperature & Humidity - Thermo hygrometer

- Display of Temperature & Humidity
- Range Temp: 0-99°C ; Humidity: 1-99% RH

#### Part 5: Automatic Pressure Controller

- Range -2500PA ~2500PA ,
- Can control the pressure inside the main chamber automatically

#### Part 6: Vacuum Pump

- Single Stage Vacuum Pumps for vacuum glove box.
- Flow rate: 8CFM / 212L/min
- Ultimate Vacuum: 10Pa/75Microns
- Power: ½ HP

#### C. Working Process/Principle Inside the glove box:

- Mixing sample by heating using the hotplate.
- Fumes will be created, so it's needed to extract the fumes, meanwhile N2 inside the glovebox will decrease.
- (The soft pipe at the top inside the glove box can be used to extract the fumes.)
- (The Automatic Pressure Controller can control the pressure inside the glove box)
- So must purge in the N2 again to meet the desired spec.

D. Picture for References:



Figure 1.1: Connection Structure

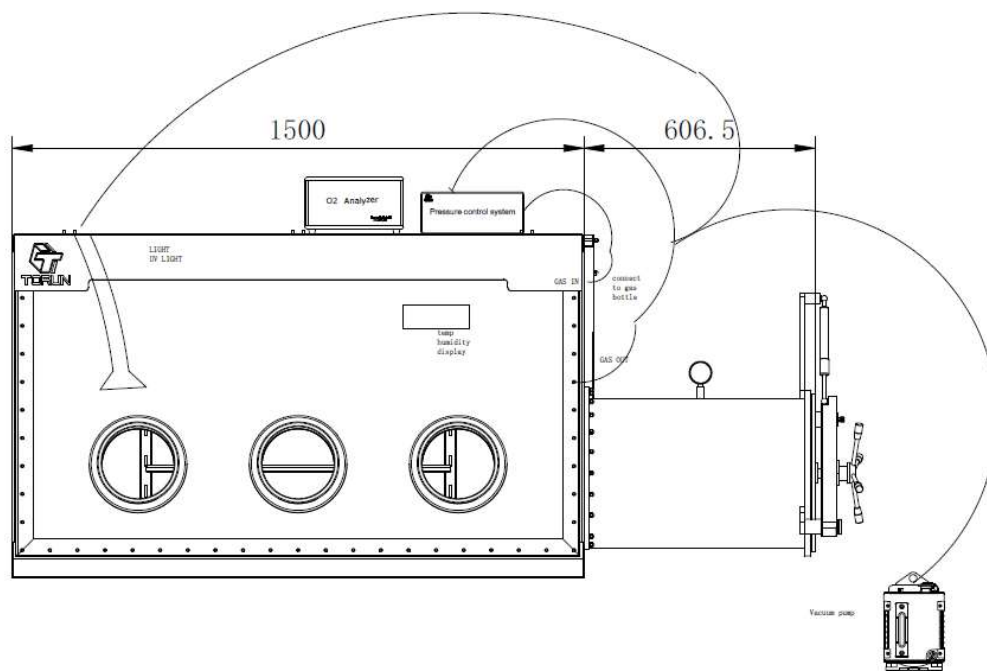


Figure 1.2: Connection Structure