Large Glove Box with Gas Purification System and Digital Control Model: 2GBS

HOW GLOVE BOX WORK

- Box and gas purification system, form a sealed environment, filled with Inert gas or nitrogen to the cabinets, and circulation to remove internal active substances, allowing the system always maintain high cleanliness and high purity inert gas environment (water, oxygen are equipment a 1 ppm below).
- Mainly for O_2, H_2O clearing.

GLOVE BOX APPLICATIONS

- Anhydrous, anaerobic and clean, ultra-clean work environment
- The R&D and production of batteries and battery materials (lithium-ion battery, battery, solar cell, the lithium iron phosphate, etc.)
- The R&D and manufacturing of special lamps: HID lamps, metal halide, ceramic metal halide.
- Welding: resistance welding, TIG welding, laser welding, plasma welding, brazing.
- OLED R&D and production.
- The development and production of medical supplies.
- Development and production of the super capacitor.
- Fine chemicals, nuclear industry.
- The new energy and new materials development and production.

Technical Parameters

Product technical parameters

Model	Cabinet Size （mm）	The total size of equipment （mm）	Configuration Description
2GBS	≈L1220*W760*H900	≈L1935*W790*H1800	Monomer type. Material：SUS304 stainless steel

Hardware configuration

Configuration and Quantity	Technical parameters	Remark
1 large antechamber	DN385×600mm	Located in the cabinet right side, The airlock with sliding tray Exterior doors equipped with door booster device. Material: SUS304 stainless steel, aluminum alloy.
1 mini antechamber	DN150×300mm	Located in the cabinet right side, Material: SUS304 stainless steel.
1 cabinet rack	H = 900mm	Carbon steel ,with casters (with support feet), convenient mobile glovebox, fine-tune the level

1 transparent visualization panel	thickness: 12mm	tempered glass, the front glass can be removed to facilitate the small device placed;
2 Gloves	Cuff diameter 8”	Material: butyl rubber
1 Power outlet	220V、10A	Located inside of the cabinet
1 Lighting system	Lamp, ballast	Configuration fluorescent tubes
4 Standby interface	KF40	Configuration quick connector, located in the box right side, so that the liquid or gas can be easily and safely in and out of the cabinet。 Material: SUS304 stainless steel
2 HEPA filters	Subject to HEPA standards	Filter precision 0.3μm, installed in the cabinets ,filter dust.
2 Vacuum gauge	Mechanical dial display	Used to measure the vacuum value of the airlock.。
1 Foot controller	Double pedal	Control purification system to supplement and emptying the gas in the cabinet.
1 Purge valve		Automatic electro-pneumatic valve
1 Gas purification system	Single purification the column (GP-1)	With water scavenging, and oxygen scavenging function; The purification system of regeneration process automatically control, Long-term, continuing to maintain gas purity: H_20 & O_2 ≤ 1ppm
Control system	Color touch screen: 6 inch	PLC control system, touch-screen operation
1 Pressure-sensing instrument	-2500 ~ 2500Pa (relative pressure)	Touch-screen display;
1 Oxygen Sensor	0 ~ 1000ppm	Touch-screen display; oxygen sensor
1 Water Sensor	0 ~ 1000ppm	Touch-screen display;
1 Circulating fan	High-speed frequency fan	High degree of vacuum of the circulation pump;
2 Feedthrough	Connect use	Use for gas and source