

Lab Glove Box



Lab glove box is a kind of equipment with anhydrous and anaerobic environment.

- Brand:TOB NEW ENERGY
- Item No.:TOB-GB-800S
- Order(Moq):1
- Payment:L/C,T/T,Western Union
- Product Origin:China
- Shipping Port:XIAMEN

Product Detail

Lab Glove Box with Gas Purification System and Digital Control System

SPECIFICATIONS

1. Model

Super (1220/750/900)

Single station, single operation, integrated with a single column purification unit, PLC touch screen operation control, vacuum pump, bracket, a closed box, with operating surface tilt and detachable safety glass front window. Under normal conditions, namely the 20°C constant temperature, a standard atmosphere, inert gas 99.999%, water and oxygen index less than 1 ppm.

2. Basic configuration

- * 1 set 304 stainless steel box, acid-resisting, thickness : 3mm
- * 1 stainless steel vacuum transitional chamber, $\phi 360 \times 600$ mm
- * 1 small stainless steel transitional chamber, $\phi 150 \times 300$ mm.
- * 1 front window with 2 glove ports.
- * 1 pairs of butyl rubber gloves.
- * 1 set of lighting system
- * 1 power interface inside the box
- * 1 set of high-performance circulating fan
- * 1 set of purification system
- * 1 vacuum pump
- * 1 set of PLC control and touch screen operating system
- * 4 pcs blind flange
- * 1 set of water analyzer
- * 1 set of oxygen analyzer
- * 1 bracket and trundle
- * 1 foot pedal

Item		Parameter
Glove box	Box	Box size: (L*W*H)=1220×750×900mm Box material: stainless steel 304, thickness 3mm Inner surface:Stainless steel oil film drawing treatment Outside surface: paint, white
	Front window	Tilt windows, transparent tempered safety glass, thickness 8 mm
	Glove ports	The material is aluminum, O-ring seal, self-lubricating performance, easy to maintain, and good sealing performance
	Gloves	Butyl rubber, diameter 8", length 32", thickness≥0.4mm
	Filter:	0.3 microns, a gas inlet and a gas outlet
	Shelf	Stainless steel, 2 layers, height adjustable

	Lighting	LED lights, installed in front of each glass window
	Connector	Standby interface 3pcs, DN 40 KF, Power interface 1pc (220V)
BiggerAntechamber	Chamber	Size: diameter 360mm, length 600mm Material: 304 stainless steel
	Accessory	Sliding tray: 304 stainless steel Door: double door, anodized alumina material, thickness 10mm, vertical operation, with lifting mechanism Pressure gauge: Analog display
	Control	Solenoid valve touch screen automatic operation
SmallerAntechamber	Chamber	Size: diameter 150mm, length 300mm (100mm length into the glove box) Material: 304 stainless steel Surface: inner: wire oil film drawing treatment, outer: painting (white)
	Accessory	Tray:304 stainless steel Door: double door,Button flip Pressure gauge: Analog display
	Control	Solenoid valve touch screen automatic operation
Gas purification circulation system (Independent purification cabinet)	Purification column	Function: gas sealed, remove water, remove oxygen Container material: 304 stainless steel Purification materials: copper catalyst: 5kg, molecular sieve: 5 kg Purification capacity: oxygen: 60L, water: 2Kg Water and oxygen indicators: less than 1ppm
	Circulatory system	Working gas: nitrogen, argon Recycling capacity: integrated fan flow 90m ³ / h, install frequency conversion

	Regeneration	<p>Operation: PLC automatically controls the regeneration process</p> <p>Regeneration gas: working gas mixed with hydrogen gas, (hydrogen 5-10%)</p>
	Vacuum pump	8m ³ / h, rotary vane pump, with oil mist filter, air vibration control
	Valves	<p>Main valve: DN 40 KF, electrically operated angle valve</p> <p>Control valve: electromagnetic integrated valve (stainless steel integrated valve base, single column for the six valve integration)</p>
Control System	Function	<p>Including self-diagnosis, power-off self-starting characteristics, with pressure control and adaptive function</p> <p>Automatic control, cycle control, password protection, calculator,</p> <p>The unit is controlled by Siemens PLC touch screen. The touch screen is locked with a password. It is automatically locked after five minutes of unattended operation. You need to re-enter the password next time you enter the operation interface.</p>
	Pressure control	Automatically control the pressure of the cabinet and transition cabin through PLC, cabinet working pressure +/- 10mbar can be set freely, beyond +/- 12mbar system automatic protection
	Pedal	Control the box pressure, easy to operate boost and buck
Information memorandum		Automatic recording of system data
Display system		<p>Using Siemens PLC touch screen, display running status, box pressure, system records etc.</p> <p>The touch screen is locked with a password. It is automatically locked after five minutes of unattended operation. You need to re-enter the password next time you enter the operation interface.</p>
Vacuum system control		Vacuum pump, can be manually or through the PLC to start, flow 8m ³ /h, vacuum of the transition chamber, and keep the box pressure balance, vacuum pump limit vacuum $\leq 2 \times 10^{-1} \text{pa}$

Water analyzer	<p>Measuring range: 0 ~ 500ppm</p> <p>A wide range of applications, especially for lithium manufacturing and metal organic and other users, the water probe can be cleaned by the regeneration process to restore the initial state, can be reused</p>
Oxygen analyzer	<p>Measuring range: 0 ~ 1000ppm</p> <p>The use of ZrO₂ sensor, to avoid the fuel cell life is short, and avoid the problem of it can not be exposed in the air</p>
Organic solvent adsorber	<p>Size: diameter 136mm, height 256mm, filled with 2kg activated carbon, placed inside the box, can quickly replace the material</p>