



Stainless Steel Coin Cell Machine Cylindrical Cell Glove Box Equipment

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MRBEST
- Certification: CE
- Model Number: MR-Lab2000
- Minimum Order Quantity: 1 Set
- Price: Negotiable
- Packaging Details: Standard Export Wooden Packing
- Delivery Time: 7-30 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 500 sets per month



Product Specification

- Name: Glove Box With H2O & O2 Purification System
- Work Station: Two Work Station (Can Be Customized)
- Glovebox Box: 304 Stainless Steel, Thickness 3mm
- Environment Of Box Inside: H2O <1 Ppm O2 <1 Ppm
- Antechamber: $\Phi 360\text{mm}$ (Dia.)x 600mm(length)
- Mini Chamber Size: $\Phi 150\text{ Mm}$ (Dia.) X 300mm(L)
- Gas Purification System: Single Pure Column (Double Column Is Optional)
- Control System : SIEMENS Colors Touch Screen
- Highlight: **Stainless Steel Coin Cell Machine,
CE Coin Cell Machine,
Cylindrical Cell Glove Box Equipment**

Two Work Station Glove Box with H₂O & O₂ Purification System For Cylindrical Cell Manufacturing





Model: MR-Lab2000-2400×7




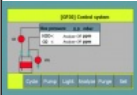

Glovebox is a device to providing anhydrous and anaerobic environment equipment consists of a display system. MRBEST offers the most advanced glove box for lithium-ion battery researching.









Features

- * Equipped with an enlarged organic solvent adsorption device, which can absorb HF and reduce the damage of electrolyte to the glove box components.
- * Closed Loop Gas Circulation - Inert gas in a closed loop. The gas is circulated by the blower and purifier, H₂O, O₂ can be removed continuously.
- * Auto Purging - The replacement of the atmosphere inside the glove box can be achieved automatically by the purging valves.
- * Automatic Regeneration - H₂O and O₂ removal material can be regenerated. The regeneration process can be program controlled.
- * Pressure Control in the Glove Box - The pressure in the glove box is controlled automatically by the Programmable Logic Controller (PLC). Working pressure can be set between +10mba and -10mba. If the pressure goes over+/- 12mbar, the system will be protected automatically.
- * Automatic Vacuum Pump Control - The vacuum pump will be activated automatically when necessary, and will turn off after a period of idle time.

Specifications:

Structure	Integrated structure (Purification System integrated under the box)	
Power Supply	110 - 220V AC, 50/60Hz, Single-phase	
Glove box Box	Box Material: 304 Stainless Steel (Type 304), thickness 3mm Box Size(excluded antechamber and support): 2400mm(L) x 750mm(W) x 900mm(H) 94.49 " x 29.5" x 35.4" Box Support height: 900mm(35.43")	
Tray	Standard Layout 	Two layers in box.
	Option/Add: tool boxes or other 	Various tool boxes, can be placed according to user needs.

Front window	Tilt design operating window, removable safety toughened glass front window, 8mm thickness, Wear resistance, corrosion resistance, good light transmission, sealing ring using 3/8 inch thick OMEGA sealing ring.	
	Option: Window Open	The front window can be designed to open instead of fix, in order to put in a variety of instruments (custom function). 
Environment of Box inside	H ₂ O <1 ppm (20°C/68 , 1 atm) O ₂ <1 ppm (20°C/68 , 1 atm)	
Antechamber	Control way: manual Design: two circular antechambers Main chamber size: Φ360mm (Dia.)x 600mm(length)(location: right-side of box) 14.17 "(Dia.) x 23.62" (L) Mini chamber size: Φ150 mm(Dia.) x 300mm(L)(location: right-side of box) 5.9 "(Dia.) x 11.8" (L) Vacuum degree: ≤ 0.1MPa(right side antechambers included main chamber and mini chamber, all of that are need vacuum and display. The vacuum pressure gauge brand is German WIKA.	
	Option/add auto control way	It will automatically control the antechamber by time setting and the number of times for gas exhaust and filling. 
	Option/Add: heating mode	Max temperature: 200 / 392 Control accuracy: ±2 / ±3.6 The main chamber and mini chamber are both can adding the heating function (compared with standard antechamber the size is a little different) 
Working gas and regeneration gas	Working gas: 99.999% high pure N ₂ , Ar, He and other inert gas Control gas: 99.999% high pure inert gas Regeneration gas: mixing gas of working gas and H ₂ , hydrogen(H ₂) Volume accounted for 5-10% If the pure system only has moisture removal function, the regeneration gas is the same with working gas	
Gas purification system	Double Column Gas Purification System included: German BASF Oxygen removal material, US UOP high moisture absorb material. The regeneration process of purification system is auto control and automatic moisture and oxygen removal function. Gas purity can be sustained and keep long-term: H ₂ O <1 ppm, O ₂ <1 ppm.	
	Why Choose Double Column? 1. The Pure column need to be regenerated after saturated by absorbing the oxygen and moisture. The regeneration time is 16 hours. If there is no reserved column, it may stop working. (we recommend double column purification system to factory or other unit which need glove box working Continuously); 2. The pure capacity of double pure columns is two times as much as single column	
Pressure control system	Box pressure can be auto controlled by PLC touch screen Control accuracy: ±1Pa Can also be manually controlled by foot switch	
Filter system	The ends of inlet and outlet both are provided with filter The filter precision is: 0.3 μm	
Closed circulating fan	High speed frequency conversion fan, flow 0-100m ³ /h, microprocessor control, Stainless steel device for pressure testing. With water cooling device (can equipped with water cooler and external refrigeration equipment)	
Control system	SIEMENS colors touch screen (6 inches), PLC control system, Bilingual in Chinese and English can be switched Pressure sensor: -2500 2500Pa touch screen, accuracy ±1Pa Pressure control: control the box pressure to one setting point (scope can be set) 	
measurements	Moisture analyzer: UK MICHELL brand, 0 1000ppm touch screen display, precision 0.1ppm	
	Oxygen analyzer: US Avcray brand, 0 1000ppm touch screen display, precision 0.1ppm 	

	Britain Brand EDWARDS, pumping speed 8.4-12m ³ /h, Model: RV12 Extreme pressure 2 x 10 ⁻³ mbar/1.5 x 10 ⁻³ Torr Inlet flange NW25 Outlet flange NW25 Noise level: 50 Hz 48 dBA
	Brand: US NORTH Material: Butyl Model for standard: 8B1532
illumination system	Equipped with Fluorescent lamp. Brand: PHILIP
Solvent removal system	Efficient adsorption of activated carbon, can effectively remove trace organic solvents;
Spare KF40 standard joint	Special design to KF40 Joint, you can lead the water into the box 
Can be connected to other devices (low temperature refrigerator, film coating machine, microscope, solvent purification system, low temperature cold trap, heating furnace, etc.)	low temperature refrigerator 
	microscope 
	Solvent Purification System 
	Coating machine Inside connection (one door of Coating machine is inside of glove box)  Outside connection 
Equipment size and room requirements	Overall size 3050mm(L) x 1000mm(W) x 1950mm(H) 120.08" x 39.37" x 76.77"
	Room size 2200mm(L) x 1500mm(W) x 2000mm(H) 133.86" x 59" x 78.74"
Wooden Package size and weight	3385mm(L) x 1145mm(W) x 2300mm(H) 133.27" x 45" x 91" (5.8M3)
	1020 kg (2197 lbs)
Notice	When the gas is circulating, must ensure that the piping of the circulation system is clear and cannot be blocked (if the color of the filter is changed from white to black, the filter should be replaced timely). No corrosive gas in the glove box. It needs to regenerate the column when the moisture and oxygen indicators cannot meet the work requirements. If the corrosive gas is released from inside of glove box. (such as LiPF ₆ electrolyte), please do not use. you must put the bottle filled with liquid seal. Vacuum pump needs to be checked the oil level and maintain in regular time.

Our Advantages

1. Steady and high quality ! -cause we are a manufacturer of Lithium Battery Equipment, and we only focus on one thing that is make professional Lithium ion Battery Equipment for customer around the world.
2. Friendly use! all MRBEST Battery Equipment with teach manual and support live teaching via media.
3. Reliable factory! My factory located in Shenzhen city of China, support factory visit and video factory visit .
4. 1 year warranty plus lifetime technical support.
5. All the parts use on machine, in stock forever.
6. Powerful technical support, NOT TRADE COMPANY! We are professional on Lithium Battery Equipment, the chief engineer team have more than 20 years experience on lithium battery area, so we can easy do diagnose on machine if customer have question.
7. 100% PATIENCE to all customers! Our patience not only before consult order, also after-sale service, one by one .



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