Etelux Inert Gas Systems (Beijing) Co. Ltd.

Lab2000 Series Integrated Single-Sided Glove Case

The Lab2000 glove box is a high-performance, high-quality, automatically absorbing water and oxygen molecules to purify the working environment in a closed-loop system. It provides an inert atmosphere of ≤1ppm O2 and H2O to meet your specific cleaning requirements. This system is an economical circulating purification system designed to meet the needs of customer research and development.

The Lab2000 system includes a sealed enclosure, a set of (large and small) transition chambers, a rotary vane vacuum pump, and a circulating purification system with an integrated microcontroller control panel. The standard Lab2000 system is equipped with an inert gas purification system that installs a purification column (fully automatic and regenerable) to purify and maintain the atmosphere inside the glove box.

Performance Characteristics

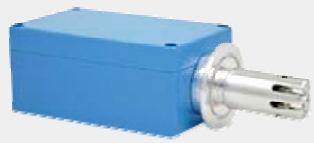
- Stainless steel enclosure design, tempered glass or polycarbonate front window (optional);
- Specifications: Water, Oxygen ≤1ppm;
- Leakage rate: ≤0.05vol%/h;
- Modular design of solenoid valves reduces leakage and facilitates replacement;
- Large transition chamber with sliding tray, uniquely designed transition chamber door that is lightweight and easy to open;
- GP-20 inert gas purification system;
- SIEMENS microcontroller;
- SIEMENS touch screen for easy access to functions;
- Data memo: Automatically records system data;
- Closed-loop gas circulation, oil-free and vacuum;
- Foot pedal pressure control instead of manual adjustment;
- All stainless steel gas flow piping and fittings;
- EDWARDS RV12 vacuum pump;
- HEPA high-efficiency filter;
- Automatic pressure control, working pressure settable within ±12mbar range;
- Height-adjustable stand;
- Adjustable casters for easy movement;
- Lampshade with anti-reflective coating;

Technological Advantages

1. The glove box features an attractive design, compact structure, and fine workmanship.
2. The inert gas inside the glove box is circulated in a closed loop by a circulating fan and purifier, continuously absorbing oxygen and water.
3. The deoxygenation material is regenerable, and the regeneration process is automatically controlled by a program.
4. It adopts the latest European technology, and all key components are imported from Europe from world-renowned manufacturers.
5. The control system includes self-diagnosis, power-off self-starting, pressure control and adaptive functions, password protection, and the control unit uses a Siemens PLC touch screen.
6. The water analyzer is highly corrosion-resistant and has a wide range of applications, especially for users in lithium battery manufacturing and metal-organic industries. It can be cleaned three times free of charge and reused, avoiding the problem of being scrapped after a single contamination.
7. The oxygen analyzer uses a ZrO2 sensor, avoiding the problem of short fuel cell lifespan and continuous exposure to air.
8. An integrated valve structure is adopted, reducing and optimizing... The optimized system piping layout reduces potential leaks, simplifies leak detection, and ensures greater product stability and reliability.
9. The equipment operates stably and can run continuously 24/7.
10. Automatic control simplifies operation and reduces maintenance costs.
11. Specialized, standardized, and large-scale production of all glove box components.
12. Products are available to meet various special requirements.
13. All components undergo rigorous review and control.
14. Extensive design and control experience.
15. The production process strictly adheres to ISO9001 standards.
16. High-precision, modern testing methods are used, including helium buoy leak testing of critical stages during production to ensure impeccable product quality.
17. A highly skilled technical team enables continuous product improvement and perfection.

Product Dimensions

Parts List

			
Oxygen Analyzer 1pcs	Water Analyzer 1pcs	Oil Mist Filter 1pcs	Bellows 3pcs
			
Gloves 4pcs	Edwards Vacuum Pump 1pcs	Clamp 7pcs	Glove Sealing Ring 8pcs

Technical Parameters

Glove Box	
Describe	Material: Stainless steel 1.4301(SUS type 304), thickness 3mm.Dimensions: 2400mm (L) x 750mm (W) x 900mm (H)
Volume	0.8 m^3
Front Window	Panel: 8 mm thick tempered safety glass or 10 mm thick polycarbonate (optional) Dimensions: 1123 mm (L) x 839 mm (H)
Glove Caliber	Made of hard aluminum alloy or polyoxymethylene (optional), 220 mm diameter, O-ring seal
Gloves	Material: Butyl rubber Thickness: 0.4 mm or 0.8 mm (optional)
Filter	Inlet and outlet filters, filtering <0.3μm
Illumination	LED lighting is located at the top of the front windshield
Leakage Rate	Final acceptance testing will be conducted according to the standard of leakage rate < 0.05 vol%/h
GP20 Gas Purification System	
Describe	Automatic removal of H2O and O2; single purification column system with automatic regeneration (optional GP200 dual purification column); closed gas circulation pipeline
Use Voltage	AC 230 V / 50-60 Hz, 10 A or AC 115 V / 50-60 Hz, 20 A (optional)
working Gas	Working gas: N2, Ar, He (purity ≥ 99.999%); Regeneration gas: H2 accounts for 5%-10%, the remainder is working gas (purity ≥ 99.999%)
Vacuum Pump	Specifications: Rotary vane vacuum pump, equipped with oil mist filter and gas ballast control; Flow rate: 12 m^3/h (7 cfm), vacuum level < 2 x 10 ^{3} mbar (dry pump optional)
Loop Unit	Oil-free high-speed fan; air volume: 0 - 100 m^3/h
Valve	Electromagnetic high vacuum valve
Leakage Rate	Final acceptance testing will be conducted according to the standard of leakage rate < 0.05 vol%/h
Cleaning System	
Describe	Once the appropriate time and pressure are set, the system can automatically replace the gas in the chamber.

Analyzer		
Volume	Size	205 mm (L) x 80 mm (W) x 60 mm (H)
	Measurement Range	0-1000 ppm
	Other Oxygen Analyzers	GE oxy.IQ™ Oxygen Transmitter
Gloves	Size	205 mm (L) x 80 mm (W) x 60 mm (H)
	Measurement Range	0-500 ppm
	Other Oxygen Analyzers	GE VeriDri™ Dew-Point Transmitter
Solvent Purification System		
Leakage Rate	Material: 1.4301 stainless steel (SUS type 304), 3 mm thick; Internal dimensions: 220 mm (Φ) x 450 mm (H); High-quality activated carbon;	
Optional Equipment		
Refrigerator	Independent control system integrated into the side panel of the cabinet; temperature range -35℃; 18L or 32L capacity available; main body made of 304 stainless steel; 5-layer variable partition; R404 environmentally friendly refrigerant, original import;	
Heated Chamber	The large transition chamber is equipped with a heating system with a temperature of 200℃ and a temperature control range of ±1℃.	
Other Notes		
Product Certification	ISO9001 certification, CE certification, UL certification	
Warranty Period	One-year warranty, lifetime repair	
Precautions	For details, please refer to the danger, warning, and precaution clauses in the instruction manual	

Order Information

E	*	1	2	3	4	Explanation
Standard Enclosure	1200					The box dimensions are 1200mm (L) × 750mm (W) × 900mm (H)
	1500					The box dimensions are 1500mm (L) × 750mm (W) × 900mm (H)
	1800					The box measures 1800mm (L) × 750mm (W) × 900mm (H)
	2400					The box measures 2400mm (L) × 750mm (W) × 900mm (H)
Structural Configuration		U				Standard integrated glove box
		S				Standard split glove box
		D				Configured with operable double-sided glove box
Function Options			P			Equipped with an automatic cleaning function, it can quickly replace the gas inside the chamber
			G			The rapid absorption chamber contains trace amounts of H2O and O2 ≤ 1 ppm (including water and oxygen analyzers).
			O			Equipped with an organic solvent adsorption system and high-quality activated carbon
Transition Cabin				A0		Large transition cabin φ360mm×600mm(L)
				A1		Large transition cabin φ390mm×600mm(L)
				A2		Small transition compartment: φ150mm×330mm (L)
				A3		Square cabin: 400mm (L) × 300mm (W) × 300mm (H)
Other Function Options					FW	With an openable front window
					18F	Includes a refrigerator with a capacity of 18L and a temperature of -36℃
					32F	Includes a refrigerator with a capacity of 32L and a temperature of -36℃

* Indicates a basic required option; 1, 2, 3, and 4 are optional order numbers that can be configured according to your needs. Please contact us if you have any special requirements for ordering.

Example of order number:

① E-1200UPGO indicates an integrated single-station 1200mm long glove box with automatic cleaning, water and oxygen purification system, and solvent adsorption system;

② E-1800SDPG-A3 indicates a split-type 1800mm double-sided four-station glove box with automatic cleaning, a water and oxygen purification system, and other configurations.

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★ 更省钱：

1）购买延保服务后，设备维修时您无需支付任何额外费用（耗材除外）；

2）免费增值服务，适时更换您平时不注意报修的零部件，消除隐患，保证设备一直处于良好使用状态；

3）更优惠的硬件升级，以满足您对设备更高的需求；

4）更优惠购买耗材。

★ 更及时：

您选择延保服务后，公司就能在工程师那里备置常用模块化配件，工程师可以高效及时地更换出现故障的模块，缩短维修周期，使您的生产工作更顺畅、更高效，为您创造更高的利润。

★ 更安心：

设备在过了1年的免费保修期后，将不再享受全免保修服务，而购买延保服务后，您可以继续享受免费保修，我们会定期回访设备使用情况，为您提供优质、完善的设备保修服务，免去您的后顾之忧。

★ 更方便：

您只需拨打伊特克斯统一客户服务热线：400-086-8156。400呼叫中心将24小时为您服务，您的一切需求我们能即刻满足。

★ 维修费用可控：

未购买延保服务，维修费用将根据故障设备和故障情况收取，企业对设备维修费用不可控；购买了延保服务，对维修费用就可控了，变为预算制投入，可大幅减少设备维修成本增加带来的风险。

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