

acrylic glove box capable of controlling water oxygenation

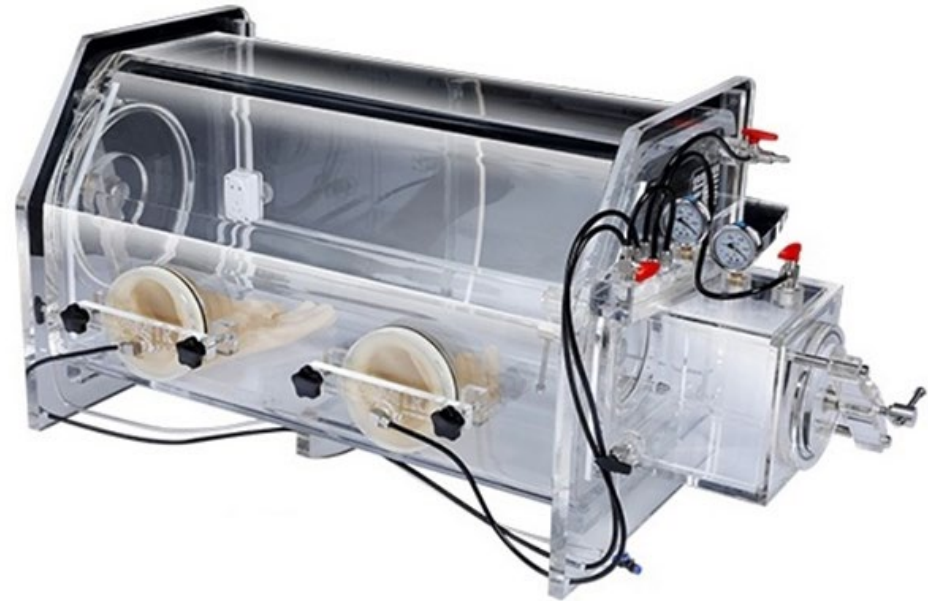
C series transparent acrylic glove box in the B series on the basis of optimization, added the function of controlling the water and oxygen content in the box, can effectively reduce the impact of moisture and oxygen in the environment, so as to ensure that the experimental conditions of rigorous.

Acrylic Glove Box

This series of acrylic glove box is made of high quality transparent acrylic sheet with transition box design to ensure safe and efficient operation during the experiment.

Features

1. **High transparency:** the selection of high transparency plexiglass acrylic sheet, can provide a clear field of vision, convenient for experimental personnel to observe the internal experimental situation in real time.
2. **Superior airtightness:** the use of three-pronged sealing buckle design, effectively ensure the airtightness of the box inside and outside, to avoid interference with the experimental process of the outside air.



3. **Stainless steel handle:** equipped with stainless steel handle, enhance the solidity and durability of the glove box, not easy to loosen, convenient operation.
4. **Natural latex gloves:** built-in natural latex gloves, with good elasticity, durability and safety, effectively prevent chemical leakage and external pollution.
5. **Transition box design:** transition box can be as high as -0.1 MPa vacuum extraction, effectively realize the precise control of the environment, suitable for experiments with strict requirements on water oxygen content.
6. **Thick acrylic sheet:** the glove box using 20 mm to 30 mm thick acrylic sheet, to ensure that the box solidity and long-term durability.
7. **With sample transfer box and vacuum pump.**

Advantages

1. **Tight gas control:** through the vacuum pump to extract the air inside the box, and then the high purity dry inert gas passes through, can effectively reduce the water and oxygen content in the box, enhance the experimental accuracy.
2. **A high degree of security:** high airtightness, strong durability and easy to damage the design to ensure the stability of the long time after use, can provide long-term safety and reliability of the experimental environment.
3. **Easy to operate:** equipped with stainless steel handles and natural latex gloves, to ensure that the experimental staff can comfortably and conveniently operate the equipment inside the box, without having to worry about sealing or safety issues.

4. **Customizable design:** transparent acrylic material is not only easy to process, but also can be customized according to the experimental needs of the size and function of the glove box.

Working Principle

Transparent acrylic glove box through the vacuum pump will be pumped out of the air inside the box, reduce air pressure, remove the water and oxygen, and then through the gas delivery system will be high-purity dry inert gas (such as nitrogen or argon) into the box, to ensure that the water and oxygen content in the box within the control range. As the gas composition of the box is isolated from the external environment, it can provide a stable and controlled experimental environment, suitable for humidity and oxygen-sensitive experiments.

Application Areas

1. **Chemical experiments:** for chemical reactions requiring low oxygen or low moisture environment, oxygen-sensitive organic synthesis and other chemical reagents operation.
2. **Materials research:** for the development and testing of high-performance materials, such as in the metal, alloy and new materials corrosion, thermal stability test.
3. **Biological experiments:** vital for cell culture, microbial research and other biological experiments that require an oxygen-free environment.
4. **Electronics industry:** suitable for microelectronic components packaging and testing, to ensure that the production process is not affected by oxygen and moisture, to extend product life.

5. **Environmental testing:** able to simulate special environmental conditions, for product testing and verification in special environments.
6. **Food science:** in food packaging, preservation and other research, control of water and oxygen content helps to extend the food freshness period.

Through this design and functionality, transparent acrylic glove box can provide a high standard of experimental platform for a variety of industries, to ensure the accuracy and stability of the experimental results.

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Model	Operation box dimension	Acrylic thickness	Transition box	Vacuum is pumped		Material	Left round door	Gloves
				Operation box vacuum	Transition box vacuum			
AG012-C	700x450x500mm	20mm	Yes	Yes	Yes	PMMA	300mm	2
AG011-C	800x550x600mm	25mm	Yes	Yes	Yes	PMMA	350mm	2
AG010-C	1000x500x500mm	25mm	Yes	Yes	Yes	PMMA	300mm	2

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Model	Operation box dimension	Acrylic thickness	Transition box	Vacuum is pumped		Material	Left round door	Gloves
				Operation box vacuum	Transition box vacuum			
AG009-C	1000x700x500mm	30mm	Yes	Yes	Yes	PMMA	300mm	2
AG008-C	900x600x700mm	30mm	Yes	Yes	Yes	PMMA	300mm	2
AG007-C	1000x600x700mm	30mm	Yes	Yes	Yes	PMMA	300mm	2
AG006-C	1000x750x700mm	30mm	Yes	Yes	Yes	PMMA	300mm	2
AG005-C	1200x600x600mm	30mm	Yes	Yes	Yes	PMMA	300mm	3
AG004-C	1200x600x700mm	30mm	Yes	Yes	Yes	PMMA	300mm	3
AG003-C	1200x800x600mm	30mm	Yes	Yes	Yes	PMMA	300mm	3

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Model	Operation box dimension	Acrylic thickness	Transition box	Vacuum is pumped		Material	Left round door	Gloves
				Operation box vacuum	Transition box vacuum			
AG002-C	1200x800x700mm	30mm	Yes	Yes	Yes	PMMA	300mm	3
AG001-C	1094x640x645mm	30mm	Yes	Yes	Yes	PMMA	400mm	4