

acrylic glove box for simple isolation experiments

Acrylic glove box is a closed operation box, using transparent acrylic sheet manufacturing, commonly used in the need to avoid contamination, control the environment or isolation of the occasion of the experiment.

Acrylic Glove Box

The Acrylic Glove Box enables safe and precise operations in a sealed environment, allowing the operator to manipulate experiments through external gloves while maintaining controlled interior atmospheres. Ideal for chemistry, physics, biology, and electronics, this glove box series excels in inert gas replacement, drying, dust control, and UV experiments, offering superior sealing and observation capabilities.

Features

1. **High transparency acrylic material:** Premium acrylic panels provide clear visibility for easy monitoring of experiments.
2. **Tight airtight design:** Three-pronged sealing buckle ensures complete gas isolation for precise, contamination-free results.



3. **Stainless steel handle:** Durable and secure, designed for long-term use and reliable operation.
4. **Natural latex gloves:** Thick, safe, and long-lasting gloves offer robust protection and operator safety.

Working Principle

Operated within a sealed enclosure, the glove box allows users to perform various tasks via external gloves without direct exposure. Interior conditions—such as atmosphere and humidity—can be regulated, and the specialized sealing system guarantees isolation from the external environment. This design enables safe handling of hazardous chemicals, precise environmental control, and protection from external contamination.

Advantages

1. High transparency for clear observation and enhanced work efficiency.
2. Excellent airtightness ensures experimental precision and safety.
3. Durability and safety through stainless steel handle and premium latex gloves.
4. Wide applicability: suitable for gas replacement, UV irradiation, drying, and more.

Application Areas

1. **Chemical experiments:** Safe isolation for hazardous chemicals or inert gas environments.
2. **Biological research:** Maintains sterile conditions for microbiology and cell culture.

3. **Electronic component production:** Dust-free and special atmosphere (nitrogen/argon) environments for contamination-free manufacturing.
4. **Medicine & pharmaceuticals:** Controlled conditions for drug research and processing.
5. **UV irradiation experiments:** Sterilization and photodegradation with operator protection from UV exposure.

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Model	Operation box dimension	Material thickness	Transition box	Vacuum is pumped	Material	Left round door	Gloves
AG012-A	700x450x500mm	10mm	No	No	PMMA	300mm	2
AG011-A	800x550x600mm	10mm	No	No	PMMA	350mm	2
AG010-A	1000x500x500mm	10mm	No	No	PMMA	300mm	2
AG009-A	1000x700x500mm	10mm	No	No	PMMA	300mm	2
AG008-A	900x600x700mm	10mm	No	No	PMMA	300mm	2
AG007-A	1000x600x700mm	10mm	No	No	PMMA	300mm	2
AG006-A	1000x750x700mm	10mm	No	No	PMMA	300mm	2

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Model	Operation box dimension	Material thickness	Transition box	Vacuum is pumped	Material	Left round door	Gloves
AG005-A	1200x600x600mm	10mm	No	No	PMMA	300mm	3
AG004-A	1200x600x700mm	10mm	No	No	PMMA	300mm	3
AG003-A	1200x800x600mm	10mm	No	No	PMMA	300mm	3
AG002-A	1200x800x700mm	10mm	No	No	PMMA	300mm	3
AG001-A	1094x640x645mm	10mm	No	No	PMMA	400mm	4