



Product introduction of Filtered Storage Cabinet

Background

Laboratory are places for scientific research and experimental operations, widely used in education, research, production and quality inspection, but the health problems of people engaged in experimental work are worrying. Epidemiological studies in the United States, Sweden and Britain show that chemicals, especially laboratory workers, have much higher mortality than the general population; the OHS statistics showed that laboratory workers live 10 years less than the average.

Air pollution in the laboratory is an important factor endangering the physical and mental health of researchers. If the application of ventilation is improper, it may aggravate the indoor air pollution and cause the external air pollution in the area. As the most critical local exhaust equipment for laboratory air pollution control, the performance of exhaust cabinet directly affects the health and safety of laboratory personnel.

From the analysis of policies and regulations issued in recent years, the relevant environmental regulatory documents will be gradually updated and improved in the future. From the latest release in 2020 DB11 / T1736-2020, laboratory units shall establish organic solvent registration and management system, prepare experimental operation specifications, select effective waste gas collection and purification device to reduce VOCs VOC emissions and prevent pollution of surrounding environment; Waste gas collection and purification device shall be simultaneous with the experimental operation.

Product Function


Filtered Storage Cabinet series to compliance, environmental protection, health, safety as the product concept, Equipped with an activated carbon molecular filter and an air particle filter, Can adsorb most of the chemical gases, When the researchers store the chemicals in the cabinet, The harmful gas is adsorbed by the filters in the filter device, The filtered air is circulated indoors, Clean gas storage cabinet does not exhaust the outside, Therefore, reduce the operating energy consumption of air conditioning and ventilation system (cost); And because the harmful gases are adsorbed by the filter, Not directly arranged outside, Can reduce the pollution to the atmospheric environment, The control concentration of the exhaust cabinet, the surface wind speed of the operation port and the exhaust purification effect of the stored chemical storage cabinet comply with the NFX 15 211:2009 standard (certified by ANSI Z 9.5-201), ASHRAE 110:1995 and JG / T38-2012 Wind pipe self-cleaning cabinet standard. 24 hours laboratory air, efficient and environmental protection. The products have passed ISO9001 quality management system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system certification, EU CE and other related certification, the application industry involves education and research, inspection and quarantine, medical and health, food pharmaceutical, chemical industry, environmental safety, defense and many other fields.

安全有我，赛弗随行！
SAFETY WITH ME SAFOO FOLLOWING

3. Product Technical Parameters

product model	Product Parameter	product picture
BM014A	<p>Product name: Filtered Storage Cabinet (all steel)</p> <p>Product model: BM014A</p> <p>External Dimensions: 772 * 819 * 350mm</p> <p>Door type: double door opening</p> <p>Lamayers: 2 adjustable</p> <p>Lamayer bearing: 30kg</p> <p>Gas change times: 200 times / hour</p> <p>Storage capacity: 48 bottles (500ml)</p> <p>Volume: 50 dBA</p> <p>Power supply: AC 220V / 50HZ</p> <p>Power: 50W</p> <p>Filters: 2 type A filters</p> <p>Number of fans: 1</p> <p>Display screen: a seven-inch LCD touch screen</p> <p>Power cord: 1 root</p> <p>Control system: 1 set</p> <p>Alarm system: 1 set</p>	



BM073A	<p>Product name: Filtered Storage Cabinet (all steel)</p> <p>Product model: BM073A</p> <p>External Dimensions: 2070 * 800 * 510mm</p> <p>Internal Dimensions: 1750 * 708 * 450mm</p> <p>Door type: double door opening</p> <p>ABS laminate: 8-adjustable pieces</p> <p>Lamayer bearing: 30kg</p> <p>Gas change times: 200 times / hour</p> <p>Storage capacity: 120 bottles (500ml)</p> <p>Volume: 50 dBA</p> <p>Power supply: AC 220V / 50HZ</p> <p>Power: 50W</p> <p>Filters: 2 type D filters</p> <p>Number of fans: 1</p> <p>Display screen: a seven-inch LCD touch screen</p> <p>Power cord: 1 root</p> <p>Control system: 1 set</p> <p>Alarm system: 1 set</p>	
BM146B	<p>Product name: Filtered Storage Cabinet (all steel)</p> <p>Product model: BM146B</p> <p>External Dimensions: 2070 * 1600 * 510mm</p> <p>Internal Dimensions: 1750 * 1510 * 450mm</p> <p>Door type: four doors</p> <p>ABS laminate: 16-adjustable pieces</p> <p>Lamayer bearing: 30kg</p> <p>Gas change times: 185 times / hour</p> <p>Storage capacity: 240 bottles (500ml)</p> <p>Volume: 50 dBA</p> <p>Power supply: AC 220V / 50HZ</p> <p>Power: 50W</p> <p>Filters: 2 type D filters</p> <p>Number of fans: 1</p> <p>Display screen: a seven-inch LCD touch screen</p> <p>Power cord: 1 root</p> <p>Control system: 1 set</p> <p>Alarm system: 1 set</p>	



Product Parameter

1. Metal components: the main material is 1.2mm high-quality cold-rolled steel plate, electrostatic powder spraying, covered with durable anti-chemical and lead-free coating, maintain high brightness and minimize the impact of corrosion and moisture.
2. Door panel: the main material is 6mm acrylic panel, metal frame with window, excellent weather resistance, excellent chemical resistance, not easy to aging, colorless transparent, transparent, visually comfortable, beautiful and generous.
3. Laminate: ABS first-time forming open mold tray laminate, acid and alkali resistance, adjustable height.
4. Acid and base box: polypropylene PP material, storage of strong acid and alkali, corrosion resistance.
5. Seven-inch LCD touch screen display, real-time temperature and humidity environment monitoring, fan monitoring, VOC concentration environment monitoring and integrated alarm system.
6. Adopt high-quality centrifugal fan, 24 volt current, stable performance, ultra-silent, and no spark static electricity.
7. Efficient filtration system, arranged and distributed according to particle size, follow ASTM standard, effectively for acid gas and organic gas, strong adsorption capacity, for particle filter, using efficient HEPA filter, for particles greater than 0.3um, the filtration efficiency reaches 99.995%.The top has an optional filter module system according to the chemical category to meet the storage of many different types of chemicals.Advanced modular filtration technology, complete adsorption of harmful gases produced by filtration experiments, particles, dust and other substances.Optional organic filter (for the adsorption of organic solvents), ammonia filter (ammonia reagents, organic reagents), inorganic filter (for organic solvents and organic acid, can adsorption), HEPA filter (for solid powder adsorption, strong ability), formaldehyde filter (for the operation of formaldehyde reagents, organic reagents).
No need to consume air conditioning energy consumption, efficient and energy saving.
8. No need to install pipeline engineering, convenient installation, exhaust gas is not discharged, and a new type of environmental protection.
Easy to move, nearby storage, convenient access, improve work efficiency.



product model	Product Parameter	product picture
BM083A	<p>Product name: Filtered Storage Cabinet (PP)</p> <p>Product model: BM083A</p> <p>External Dimensions: 2070 * 900 * 510mm</p> <p>Door type: double door opening</p> <p>PP laminate: 8-adjustable pieces</p> <p>Lamayer bearing: 30kg</p> <p>Gas change times: 200 times / hour</p> <p>Storage capacity: 120 bottles (500ml)</p> <p>Volume: 50 dBA</p> <p>Power supply: AC 220V / 50HZ</p> <p>Power: 50W</p> <p>Filters: 2 type-B filters</p> <p>Number of fans: 1</p> <p>Display screen: a seven-inch LCD touch screen</p> <p>Power cord: 1 root</p> <p>Control system: 1 set</p> <p>Alarm system: 1 set</p>	

Product Parameter

1. Cabinet: made of 8mm milky film PP (polypropylene) board, with excellent corrosion resistance and seamless welding of the same color to ensure the firmness and sealing of the cabinet, which greatly strengthens the structure of the cabinet and effectively reduces the deformation caused by thermal expansion and shrinkage.
2. Cabinet door: made of 15mm milky white film PP (polypropylene) whole board, with long service life and guaranteed quality. With a 5mm acrylic transparent window, visual management.
3. Laminate: PP first-time forming open mold tray laminate, acid and alkali resistance, adjustable height.
4. Acid and base box: polypropylene PP material, storage of strong acid and alkali, corrosion resistance.
5. Seven-inch LCD touch screen display, real-time temperature and humidity environment monitoring, fan monitoring, VOC concentration environment monitoring and integrated alarm system.
6. Adopt high-quality centrifugal fan, 24 volt current, stable performance, ultra-silent, and no spark static electricity.
7. Efficient filtration system, arranged and distributed according to particle size, follow ASTM standard, effectively for acid gas and organic gas, strong adsorption capacity, for particle filter, using efficient HEPA filter, for particles greater than 0.3um, the filtration efficiency reaches 99.995%. The top has an optional filter module system according to the chemical category to meet the storage of many different types of chemicals. Advanced modular filtration technology, complete adsorption of harmful gases produced by filtration experiments, particles, dust and other substances. Optional organic filter (for the adsorption of organic solvents), ammonia filter (ammonia reagents, organic reagents), inorganic filter (for organic solvents and organic acid, can adsorption),

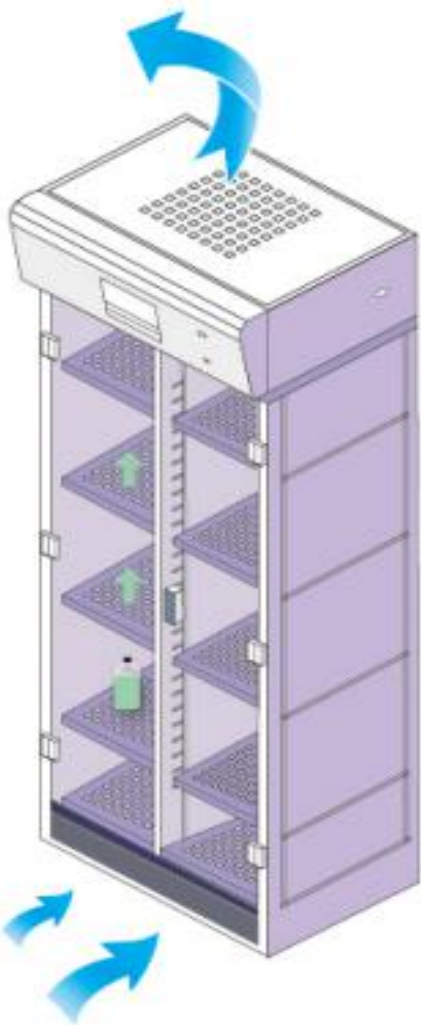


HEPA filter (for solid powder adsorption, strong ability), formaldehyde filter (for the operation of formaldehyde reagents, organic reagents).

No need to consume air conditioning energy consumption, efficient and energy saving.

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operational principle

1. Fan

The fan located at the top of the cabinet draws the air from the experimental chamber into the cabinet body to generate negative pressure.

2. Gas filtration

The harmful gases volatile by the reagents stored in the cabinet enter the filter module through the fan, and the toxic and harmful gas molecules are trapped and filtered by the filter, and the clean gas returns to the room.

3. High-quality air purification function

Filtered clean air back to the room, will not harm the health of people.

4. Purify the laboratory air

Purify the experimental room air for 24 hours and improve the air quality of the laboratory (Cabinet should be kept running on for 24 hours).