

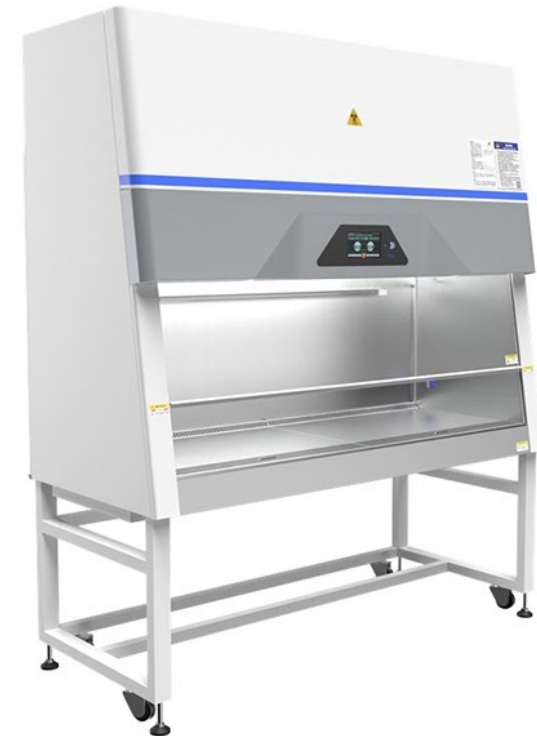
## class II type A2 biosafety cabinet for biological laboratory

Class II type A2 biosafety cabinet is an advanced laboratory equipment designed to protect operators, samples and the environment from contamination by biohazardous substances. All products are verified by professionally trained technicians before leaving the factory to ensure product quality.

Class II type A2 biosafety cabinet not only provides a high degree of biosafety protection, but also has a good humanized design to meet a variety of laboratory needs. Whether in bacterial and viral research, or cell culture and molecular biology experiments, it is a reliable and safe experimental tool.

### Design and Structure

1. Compliance with standards: It meets the requirements of Chinese YY|T 0569-2011 standard for class II type A2 biosafety cabinet, ensuring high efficiency and safety.
2. Negative pressure design of the inner chamber: 70% of the air is filtered and circulated, and 30% of the air is discharged or connected to the exhaust system after high efficiency filtration to achieve air quality control.



3. easy-to-clean design: the use of 304 stainless steel structure, not only rugged and durable, but also the internal cleaning parts are designed for 10mm rounded corners, to avoid dead ends, easy to clean.
4. worktop design: 304 stainless steel worktop, separated design, easy to clean and autoclave. Waste liquid can flow into the collection tank, easy to clean.
5. mobile and fixed: designed with casters and bracket integration, easy to move and position the equipment in the laboratory, bracket height can be customized according to demand.

### **Safety and Operation Guarantee**

1. Airtightness Test: Through strict airtightness test, it ensures the sealing of the safety cabinet and avoids contaminant leakage. Through 500Pa pressurization test, keep the air pressure not less than 450Pa for 30 minutes.
2. Front window airflow isolation design: prevent the airflow from leaking through the side wall or upper side of the front window, improve the safety of operation.
3. Alarm system: Provide a variety of alarm functions, including filter life alarm, airflow fluctuation alarm, alarm when the glass door is not at a safe height, etc., to ensure the safety of the operation process.
4. chain protection system: with fan and glass door interlock, UV lamp and door interlock and other multiple protection, to prevent misoperation on personnel and equipment.

## Performance Characteristics

1. large 7-inch high-definition touch screen: man-machine interface is simple and intuitive, support for Chinese and English switching, real-time display of fans, filters, UV lamps and other status, to provide alarm information, to enhance the traceability of the experiments and the state of the equipment.
2. high efficiency and energy saving design: the use of DC brushless fan, energy saving effect is remarkable, than the traditional fan energy saving of more than 40%, and low fan noise. With reservation, timing, log and other functions to enhance the convenience and accuracy of the experiment.
3. filtration efficiency: the use of high-efficiency UHPA ultra-high-efficiency filter, the filtration efficiency of 0.12um particles  $\geq 99.9995\%$ , to ensure a clean operating environment.
4. silent design: the use of silent synchronous wheel belt sliding door, stable and reliable design, durable, and reduce the noise pollution in the laboratory.

## **Working Principle**

1. Class II type A2 biosafety cabinet adopts dual air duct design to ensure that the air flow meets the high standard safety requirements.
2. air flow system: fans and air flow design to ensure that the air flows in a specific way. The high efficiency particulate air (ULPA) filter inside the cabinet effectively filters the incoming and outgoing air to prevent biohazardous substances from spreading to the external environment.
3. Negative Pressure Design: A negative pressure environment is formed inside the safety cabinet, while the operating space is protected by vertical laminar air curtains to prevent cross-contamination and safeguard the safety of operators.
4. Laminar flow system: through the operating space from top to bottom of the vertical airflow and negative pressure mechanism, to ensure that the pollutants will not escape into the environment.

## **Maintenance and Operation Convenience**

1. Easy Maintenance: Maintenance and replacement of fans and filters of the equipment can be carried out on the front side of the safety cabinet, which is convenient and quick.
2. Flexible bracket design: the height of the bracket can be adjusted according to the actual demand to ensure the adaptability and stability of the equipment.

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<b>Model</b>	<b>BC10A2</b>	<b>BC30A2</b>
Air cleanliness	ISO Class 5, Federal Standard 209E Class 100. The number of particles $\geq 0.5$ $\mu\text{m}$ must not exceed 100 per cubic foot of air. This corresponds to no more than 3.5 particles $\geq 0.5$ $\mu\text{m}$ per liter of air.	
Downflow velocity	0.35 meters per second	
Inflow velocity	0.54 meters per second	
Noise	$\leq 67$	
Work area dimensions	1030x600x640mm	1630x600x640mm
External dimensions	1200x815x2200mm	1800x815x2200mm
Illuminance	$\geq 650\text{Lx}$	
Exhaust direction	Top out	
Weight	240kg	320kg

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<b>Model</b>	<b>BC10A2</b>	<b>BC30A2</b>
Power supply	230Vac, 50Hz	
Power	1200W	