

experience the ultimate
**NEW BIOLOGICAL
SAFETY CABINETS**

EN Certified Class II A2

Protects Personnel, Product & Environment



BIOBASE



BIOBASE EN - Biological Safety Cabinet - Class II A2

Dual ULPA filters with filtration efficiency of $\geq 99.9995\%$ for $0.12\mu\text{m}$ particles size.

Ergonomics cabinet with 10° inclination angle to enhance user comfort.

European Standard Sockets 230V, 3A



Stainless steel water & gas taps.



Side windows on both sides for clear view & observation.

Height of the base stand can be customized according to user preference.

Anti-Bacterial Powder Coating



Model : BSC-4FA2-HA

BIOBASE Class II A2 is certified by TÜV SÜD GmbH in accordance with the European Standard EN 12469 for biological safety cabinets.

The Airflow Sensor keeps track of airflow in real-time to ensure user safety and provides alerts if airflow is inadequate.

Large 7" Color Touch Screen Microprocessor Control displays all safety parameters at a glance.

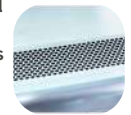
LED lamp designed for eye comfort.

UV lamp emissions 253.7nm for the best decontamination.

Electric front window, Anti-UV.



The work zone is crafted from a single piece of high-grade 304 stainless steel, facilitating easy cleaning and disassembly.



Split countertop for effortless cleaning in case of spills.

Universal caster with brake and leveling feet.



EN Certified Biological Safety Cabinet Class II A2 with Touch Screen Real-Time Display

amazing performance



New generation EN-certified Biological Safety Cabinet Class II A2 cabinet from BIOBASE, designed with users insight at the forefront making it an ideal choice for laboratories and research facilities. Its advanced intelligent color touch screen interface ensures that critical data and figures are easily accessible and highly visible, enhancing both functionality and user experience.

The ergonomic cabinet design with 10° inclination angle ensures ease of use and enhances user comfort during extended periods of operation. The integrated UV sterilization function allows for thorough disinfection, ensuring a sterile environment for sensitive experiments. The filtration system offers superior protection against contaminants, achieving impressive efficiency of 99.9995% for $0.12\mu\text{m}$ particles. Additionally, the anti-paper dust structure at the air inlet prevents paper dust from infiltrating the air cavity.

Combining state-of-the-art technology with user-centric design, this Class II A2 cabinet sets a new standard for professionals who demand the best in safety and convenience.

key features



7" Touch Screen Real-Time Display



Seamless SS304 Work Zone



Anti-Paper Dust Structure



Smart Appointment System



User Safety Function



Motorized Front Sash Window



Anti-Bacterial Powder Coating



Remote Control



Foot Switch (Optional)

quality and satisfaction

7 7" Color Touch Screen Microprocessor Control Panel allows users to easily adjust settings and access real-time data with intuitive navigation on a high-resolution screen that is both ergonomic and responsive. This system provides customizable alerts to keep users informed and enable prompt actions.

Power-ON

System can be password-protected to prevent operation by unauthorized user.

Smart Appointment Function

Users can customize the timing of BSC operations to suit their preferences, allowing them to set the running time for the UV lamp, fan, and socket.

Interlock Function for Security

The interlocking fan, UV lamp, fluorescent lamp, and front window provide extra protection for user safety.

Power-OFF

System is able to restore the operation state before system is shut down.

Audible & Visual Alarms

Abnormal airflow velocity, unsafe window sash height, ULPA filter pressure, and power failure are monitored. The Device Life Button shows service life.

Remote Control

This unit comes with a remote control for operation efficiency.



Real-Time Monitoring of Airflow

Dynamic Airflow Pattern Diagram

Live System Status

During the operation, users can refer to the Dynamic Airflow Pattern Diagram to evaluate the BSCs' performance confidently.

technical specifications

Nominal Size	2 feet (28.0')		3 feet (43.0')		4 feet (55.0')	
With Glass Side	BSC-2FA2-HA		BSC-3FA2-HA		BSC-4FA2-HA	
External Dimensions (mm)	700W x 700D x 2000H		1087W x 800D x 2260H		1383W x 800D x 2260H	
Internal Dimensions (mm)	600W x 500D x 540H		980W x 600D x 650H		1280W x 600D x 650H	
Work Surface Height	750 mm					
Max. Opening	350 mm		500 mm			
Tested Opening	200mm					
Airflow Volume	Inflow	230 m³/h (135 cfm)	370 m³/h (218 cfm)		490 m³/h (289 cfm)	
	Downflow	428 m³/h (252 cfm)	690 m³/h (406 cfm)		910 m³/h (536 cfm)	
	Exhaust	230 m³/h (135 cfm)	370 m³/h (218 cfm)		490 m³/h (289 cfm)	
ULPA Filter	Dual ULPA Filters, Filtration Efficiency ≥99.9995% for 0.12µm particles					
Illumination	≥ 1000 Lux					
LED Lamp	2 units of 8W		2 units of 12W		2 units of 14W	
UV Lamp	15W		20W		30W	
Sound Emission	EN 12469 ≤ 65dB					
Display Controller	7" Large Color Touch Screen					
Cabinet Construction	Body	1.2mm Cold-rolled steel with anti-bacteria powder coating				
	Work Zone	304 stainless steel				
	Front Window	Electric front window ≥ 5mm glass thickness Anti-UV *3ft & 4ft model have 10° inclination angle for user comfort				
Alarms	for abnormal wind speed, front window not at safe height, power failure					
Motor	DC adjustable speed, high efficiency, low power		AC adjustable speed, high efficiency, low power consumption			
Power Supply	AC 230V, 50/60Hz					
Rated Power	950W		1100W		1200W	
Shipping Dimensions (mm)	850W x 880D x 1550H		1240W x 1060D x 1880H		1530W x 1060D x 1880H	
Gross Weight	170kg		270kg		345kg	

*Cabinets with stainless steel side walls are available.

STANDARD ACCESSORIES

Main Cabinet	1 x Stainless Steel Water & Gas Tap
Base Stand	1 x Drain Ball Valve
2 x LED Lamp	2 x European Standard Sockets
1 x UV lamp	1 x Remote Control

*Stainless Steel Water & Gas Tap and Remote Control for 2ft cabinet is available as an optional accessory.

OPTIONAL ACCESSORIES

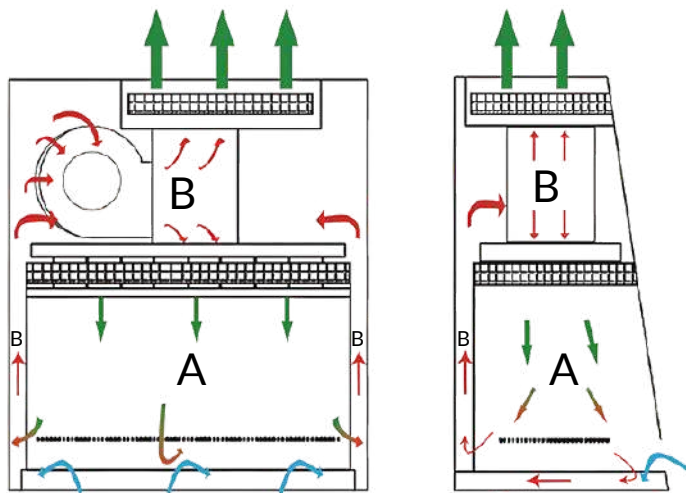
Electric Adjustable Height Base Stand

Arm Rest, Foot Rest

Foot Switch, Laboratory Chair

containment & protection

All biologically contaminated ducts and plenums are under negative pressure or surrounded by negative pressure ducts and plenums.



Class II A2 Cabinet airflow system has a nominal 70% recirculated air and 30% exhausted air.

- Room Air
- Contaminated Work Chamber Air
- HEPA/ULPA Filtered Air
- A** Protected Air
- B** Un-Protected Area

PERFORMANCE TESTING FOR BIOBASE BSC

- + Airflow Velocity includes Inflow and Downflow measurements.
- + Filter Integrity is tested using PAO aerosol challenge.
- + Visualization of Airflow Patterns.
- + Electrical safety test complies with IEC61010-1 standards.
- + Additional KI-Discus containment & microbiological tests are conducted on a statistical sampling basis.

compliance & certifications

ISO 13485:2016 Quality Management System for Medical Devices

ISO 14001 Environmental Management System Certification

ISO 9001 Quality Management System for Biological Safety Cabinet

IEC 61010-1

Safety requirements for electrical equipment.

EN 12469:2000

Biotechnology-Performance criteria for microbiological safety cabinets (MSCs) with respect to safety & hygiene published by the European Committee for Standardization (CEN). This standard classifies BSCs into Class I, Class II and Class III.

EN 61010-1

Low Voltage Directive 2014/35/EU relating to electrical equipment conformity.

EN 61326-1:2013

Conformity to Directive 2014/30/EU relating to electromagnetic compatibility.

EN 1822-1:2009

High efficiency air filters (EPA, HEPA and ULPA). Classification, performance testing, marking.

BIOBASE offers a comprehensive range of Class II A2 cabinets tailored to meet all your diverse laboratory needs.

Dual ULPA Filter
ECM Motor
Electric Front Window;
Two-layer laminated toughened glass $\geq 6\text{mm}$, Anti-UV
Single Piece Stainless Steel Side & Back Walls
LCD Display
LED & UV Lamp, SS Water & Gas Tap, Drain valve, Waterproof Sockets, SS IV Bar, Remote Control
Available in 2ft, 3ft, 4ft, 5ft & 6ft



NSF
CERTIFIED SERIES

- + Dual ULPA Filter
- + ECM Motor
- + Electric Front Window;
- + Two-layer laminated toughened glass $\geq 6\text{mm}$, Anti-UV
- + Stainless Steel Side Walls
- + 7" Color Touch Screen
- + LED & UV Lamp, Drain valve,
- + Waterproof Sockets, Foot Switch, Remote Control
- + Available in 2ft, 3ft, 4ft, 5ft & 6ft



PRO
SERIES

BIOBASE

AIR PROTECTION PRODUCTS

Create . Build . Grow Together



Years Experience

Biological Safety Cabinets

EN, NSF, PRO, AC, EC Series



Laminar Flow

Horizontal & Vertical Laminar Flow



Fume Hood

Ducted & Ductless Fume Hood, Walk-in Fume Hood, Mobile Fume Extractor



PCR Hood

PCR Cabinets



Air Shower & Pass Box, Animal Workstations, Pathology Stations, Mini PCR Workstations and many more.

Pursue the highest quality Service. Health. Future.

BIOBASE is a high-tech enterprise whose business covers biomedical, e-commerce, intelligent manufacturing, scientific equipment, In Vitro Diagnosis (IVD) instrument and reagent. With more than 3,000 employees, 450 professional engineers, 25 industrial factories, we produce more than 20,000 units output per year using state-of-the-art manufacturing equipment dedicated to delivering excellence in quality and performance.



SERVICE

We have a dedicated service team that ensures prompt responses to customer inquiries, improving the overall user experience.



GLOBAL PRESENCE

We have global partners in more than 190 countries and established overseas companies in United States, Dubai, India, Algeria, Singapore, Myanmar, Kazakhstan and many more.



CERTIFICATIONS & AWARDS

Certified by ISO9001, ISO13485, ISO 14001, SGS, CE, NSF, EN, FDA, MET etc.



QUALITY & PERFORMANCE

BIOBASE is a leading manufacturer of high-quality laboratory equipment and supplies. Their extensive products range includes clinical, pathology, and microbiology lab equipment, as well as autoclaves, incubators, ovens, centrifuges, ultra-low freezers and refrigerators, cryogenic products, balances, microscopes, and much more.



BIOBASE Group Headquarter at Jinan, China.
Manufacturing Plants 932,900m²

ISO 9001 Quality Management System for Biological Safety Cabinet

ISO 14001 Environmental Management System Certification

ISO 13485:2016 Quality Management System for Medical Devices



BSC classifications and standards for the United States are set by NSF International (formerly the National Sanitation Foundation). NSF defines types of Class II cabinets (A1, A2, B1, B2 and C1) that are distinguished by differences in airflow patterns and velocities, HEPA air filter positions, ventilation rates and exhaust methods. Class II biological safety cabinets are primary engineering controls typically used for microbiological studies, cell culture, pharmaceutical procedures and toxicology. The Class II Type A BSC is the most commonly used cabinet in this class.

A Class II Biosafety Cabinet provides:

- Personnel Protection from harmful agents used inside the biosafety cabinet.
- Product Protection to avoid contamination of the work, experiment or process from outside contaminants.
- Environmental Protection from contaminants contained within the biosafety cabinet.

Selection of Biosafety Cabinet (BSC) should be done on several stages:

- Select the proper Class and Type of BSC required, based on the type of protection needed.
- Establish, if possible, all of the different tasks to be done within the BSC.
- Establish, if possible, all of the different chemicals that may be used in the BSC.
- If the BSC is to be connected to an exhaust system, is it compatible with the BSC's requirements?
- If the exhaust system malfunctions, does the user understand its impact on the BSC's ability to maintain personnel and environmental protection, i.e., containment?

EN 12469:2000

Biotechnology-Performance criteria for microbiological safety cabinets (MSCs) with respect to safety & hygiene published by CEN, the European Committee for Standardization. This standard classifies BSCs into Class I, Class II and Class III.

NSF/ANSI 49:2019

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification published by NSF International Standard, Certification/American National Standard Institute, only applies to Class II safety cabinets.

Elevate your lab safety and efficiency with our state-of-the-art biological safety cabinet

where performance meets protection



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