BIOBASE®

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BIOBASE®

INTRODUCTION

BIOBASE is a professional manufacturer of laboratory products since 1999. Our main products are Biosafety Cabinet (Class I / II / III),Laminar Flow Cabinet, Fume Hood, Biochemistry Analyzer, Reagent, Autoclave and Incubator. We have more than 1000 employees and 20000 square meters production base. Our output per year reaches 10000 units. Pursuing the highest quality is the tenet of BIOBASE. We hope everybody will enjoy BIOBASE service to keep away from the infectious disease.

Our advantages:

-We built an excellent research team which consists of 50 professional engineers
-We have 15 years production experience and a strong technical production team. And we adopt high-tech and state-of-the-art production equipment from Italy, Japan, Switzerland, ect .
-We have a strong quality control team to inspect all production stage, from the purchased accessories to the finished products.
-We have full sets of advanced quality assurance equipments.
-We have ISO9001 quality management system; ISO14001 environment management system, ISO3485,CE mark, MET and NSF 49 certificate.
-We got EN 12469 certificate for Biosafety Cabinet in 2013.

CERTIFICATES

ISO 9001

ISO 13485

ISO 14001

EN 12469

NSF 49

MET(UL)

CE-Biological Safety Cabinet

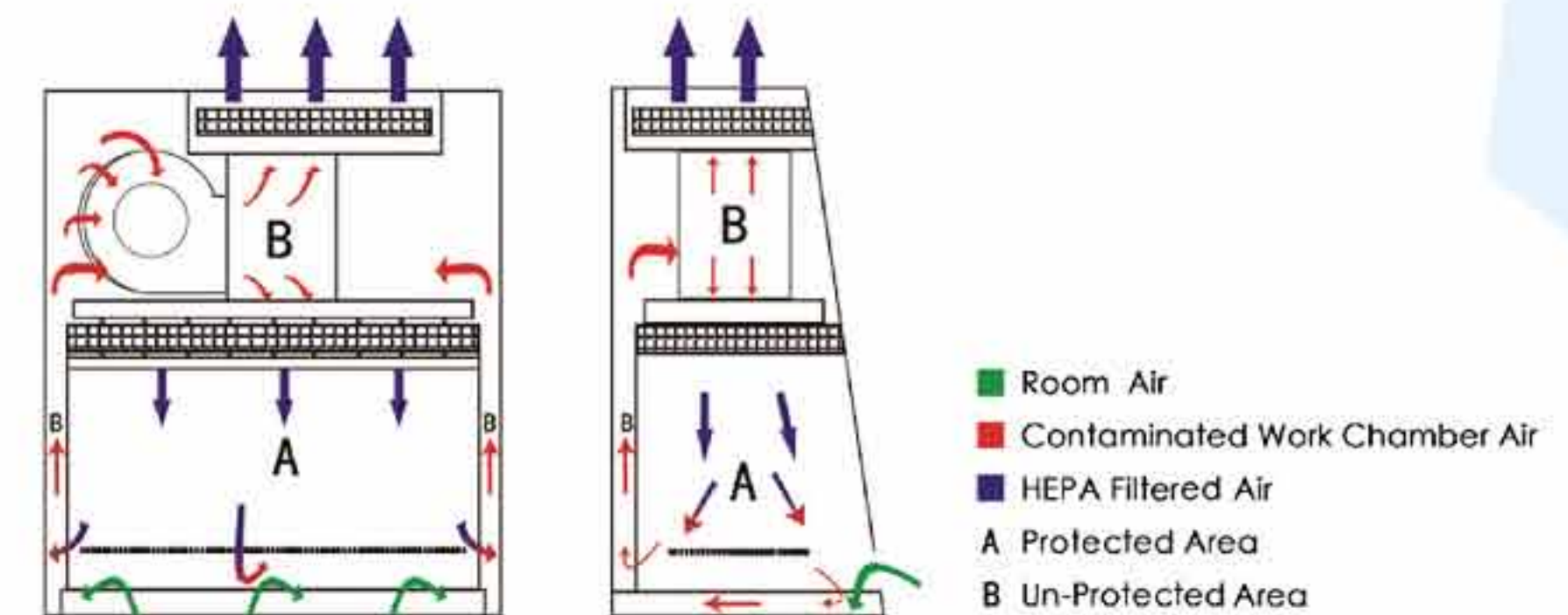CE-Laminar Flow Cabinet

CE-Fume Hood

CE-Class I Biosafety Cabinet

BIOBASE

CONTENTS

Class II A2
Biological Safety Cabinet

Three protection: operator, sample and environment.
Airflow system: 70% air recirculation, 30% air exhaust
A2 Cabinet is suitable for working with microbiological research in the absence of volatile or toxic chemicals and radionuclide.

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

Class II A2
Biosafety Cabinet
11231BBC86

BIOBASE

LCD Display
Large Digital LCD display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.

Work Zone
Work zone is made of 304 stainless steel, is surrounded by negative pressure.

Waterproof Socket
2 waterproof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet.

Remote Control
All functions can be realized with it, making the operation much easier and convenient.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

ADVANTAGE

1. Small dimension, save space.
2. Centrifugal fan, speed adjustable; H14 HEPA filter.
3. **Large LCD display:** Operators can check detailed status of the cabinet, such as inflow and downflow velocity, work area temperature and humidity, filter pressure, UV working time and filter working time, filter life indicator etc.
4. **Time reserve function:** This can save 30 minutes waiting time after activating the cabinet and the sterilization time after experiment.
5. **Remote control:** Each function can be realized 6 meters away from the cabinet by remote control, which can protect the operator under emergency.
6. **Motorized front window:** The front window is motorized for convenient, one-hand operation.
7. **Voice prompt function:** Airflow alarm, filter replacing alarm and front window height alarm.

TECHNICAL PARAMETERS

Model	11231BBC86
External Size(W*D*H)	700*650*1230 mm
Internal Size(W*D*H)	600*500*540 mm
Tested Opening	Safety Height ≤ 200 mm
Max Opening	400 mm
Inflow Velocity	0.53±0.025 m/s
Downflow Velocity	0.33±0.025 m/s
HEPA Filter	Two, 99.999% efficiency at 0.3 um. Filter life indicator.
Front Window	Motorized. Two-layer laminated toughened glass ≥ 5mm. Anti UV.
Noise	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB
UV Lamp	15W*1 UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination.
Fluorescent Lamp	40W*1
Illumination	≥1000Lux
Consumption	500W
Socket	Two, total load of two sockets: 500W
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity, filter life, humidity and temperature, system working time etc.
Control System	Microprocessor
Airflow System	70% air recirculation, 30% air exhaust
Visual and Audio alarm	Filter replacement, window over height, abnormal air flow velocity.
Material	Work Zone: 304 stainless steel Main Body: Cold-rolled steel with anti-bacteria powder coating.
Work Surface Height	750mm
Power Supply	110/220V±10%, 60/50Hz
Standard Accessory	Fluorescent lamp, UV lamp*2, Remote control, Waterproof sockets*2
Optional Accessory	Base stand with caster; Universal caster with brake and leveling feet.
Gross Weight	110kg
Package Size(W*D*H)	950*850*1430mm

NSF Certified Biological Safety Cabinet

NSF SFDA CE ⬡ 🔥 ISO 📋 MET 📋

LCD Display
Large LCD display is easy to monitor all the safety parameters at a glance; and ergonomically sized control panel improves users interface

Front Window
Two-layer laminated toughened glass>5mm, Anti UV

SS Water Tap & Gas Tap

Work Zone
Unibody Design

Footmaster Caster

Waterproof Sockets

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

ADVANTAGE

1. Large LCD display, all information displayed.
2. Motorized front window.
3. Automatic air speed adjustable with filter block.
4. Side & back wall is made up of single piece stainless steel.
5. Front 10°slanted to offer operator comfort while working for long time, reduce glare and maximize reach into the work area.
6. Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.

TECHNICAL PARAMETERS

Model	11235BBC86 (3')	BSC-4FA2 (4')	11236BBC86 (6')
External Size(W*D*H)	1087*775*2265mm	1383×775×2295mm	1873*775*2295mm
Internal Size(W*D*H)	914*600*660mm	1210×660×660mm	1700*600*660 mm
Work Surface Height	720mm		
Max Opening	450mm (18")		
Tested Opening	Safety height ≤200mm (8")		
Front Window	Motorized.Two-layer laminated toughened galss ≥5mm. Anti UV		
HEPA filter	Two, 99.999% efficiency at 0.3um, filter life indicator		
Noise	NSF 49≤61 dB/EN 12469≤58 dB		
Illumination	≥1000Lux		
Display	LCD Display		
Waterproof socket	2, Total consumption:≤500W		
Tap	Water tap*1, Gas tap *1		
Filter guard Type	Aluminium Alloy frame		
Ground Resistance	≤ 0.10Ω		
Power supply	AC220/110V±10%, 50/60Hz ±1Hz, Full load Amps: 9A, BTU/Hr: 1689		
Consumption	300W	400W	500W
Alarm	Abnormal airflow velocity; Filter change; Front Window over height		
Motors	One ECM motor, 110V& 220V acceptable, Speed adjustable, high efficiency and low power consumption		
Average Airflow Velocity	Inflow velocity:0.53±0.025m/s(105fpm); Downflow velocity :0.33±0.025m/s(66fpm)		
Airflow Volume	Inflow:465m3/h(275cfm); Downflow 67%: 956 m3/h (571cfm); Exhaust, 33%: 465 m3/h (275cfm)		
Material	Working area: 304stainless steel/ Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating		
UV lamp	18W	30W	40W
	Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination		
Standard Accessory	Fluorescent lamp, UV lamp *2, Base stand, SS water & gas taps, Drain valve, Waterproof sockets		
Optional Accessory	Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Adjustable base stand, Remote control		
Package size (W*D*H)	1220*955*1810mm	1493*955*1840mm	2010*955*1840mm
Gross weigh	240KG	300kg	360KG

EN Certified Biological Safety Cabinet 4'

LCD Display
Large LCD display is easy to monitor all the safety parameters at a glance; and ergonomically sized control panel improves users interface

Front Window
Two-layer laminated toughened glass>5mm, Anti UV

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

Remote Control for Convenient Operation

Three Pieces 304 Stainless Steel Work Table

Waterproof Socket

ADVANTAGE

1. The transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.
2. The 10° sloped front allows an ergonomic, fatigue-free working posture.
3. The front window is motorized for convenient, one-hand operation. The window control is mounted on the front control panel.
4. When fully lower the front window, it seals automatically against a closed-cell peripheral gasket to isolate the interior and prevent escape of contaminants during decontamination.
5. Front window can be closed manually in case of power failure.

TECHNICAL PARAMETERS

Model	11237BBC86
External Size (W×D×H)	1300*790mm*2310mm
Internal Size (W×D×H)	1200*600*770mm
Work Surface Height	750mm
Max Opening	480mm
Tested Opening	Safety height ≤200mm
Noise	EN12469: ≤60dB
HEPA Filter	Two,99.999% efficiency at 0.3 um filter life indicator
Illumination	≥1000lux
Average Airflow Velocity	Inflow: 0.5±0.025m/s (98.4fpm), Downflow: 0.36±0.025m/s (71fpm)
Airflow Volume	Inflow: 430m³/h(270cfm), Downflow: 720m³/h(430cfm) Exhaust: 360m³/h(220cfm)
UV lamp (Optional)	30W germicidal UV lamp. Emission of 253.7 nanometers for most efficient decontamination; UV life indicator
Visual and Audio Alarm	Abnormal airflow velocity; Filter change; Front Window over height
Material	Main body: Cold-rolled steel coated with anti-bacteria powder coating Work surface: 304 Stainless steel, three pieces Side and front window: Two-layer laminated toughened glass, Anti UV
Power Supply (220-240V, AC, 50Hz)	Cabinet consumption/Amp: 430W/2.1A; BTU/Hr : 1466 Total load of 4 sockets : ≤500W; Socket amp fuse : 6.3A
Caster	Universal caster with brake and leveling feet.
Standard Accessory	waterproof sockets *4, Base stand, Remote control, Fluorescent lamp, Drain valve
Optional Accessory	Water and gas taps (6 units); UV Lamp
Gross Weight	300kg
Package Size(W*D*H)	1480*1000*1760mm

Class II A2
Biological Safety
Cabinet

BIOBASE

LCD Display
Large digital display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.

Front Window
Two-layer laminated toughened glass>5mm, anti UV

Work Zone
Work zone, made of 304 stainless steel, is surrounded by negative pressure.

Remote Control
All functions can be realized with it, making the operation much easier and more convenient.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

Footmaster Caster
Universal caster with brake and leveling feet.

Foot Switch
Adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.

Waterproof Socket
2 waterproof sockets are located in the side wall, for optimum convenience of using small devices inside the cabinet.

ADVANTAGE

1. Motorized front window.
2. Time reserve function.
3. HEPA filter life and UV life indicator.
4. Automatic air speed adjustable with filter block.
5. Work area surrounded by negative pressure, it can ensure maximum safety in work area.
6. Audio and visual alarm (Filter replacement, window over height, abnormal air flow velocity etc).
7. Most accessories are standard. No need to pay more, save your money.
8. Remote control: all functions can be realized with it, making the operation much easier and more convenient.
9. Foot switch: adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.
10. Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; blower and front window.

TECHNICAL PARAMETERS

| Model	BSC-1100IIA2-X	BSC-1300IIA2-X	BSC-1500IIA2-X	BSC-1800IIA2-X	BSC-2000IIA2-X
Internal Size(W*D*H)	940*600*660mm	1100*600*660mm	1350*600*660mm	1710*600*660mm	1800*600*660mm
External Size(W*D*H)	1100*750*2250mm	1300*850*2200mm	1500*750*2250mm	1870*750*2290mm	1950*800*2305mm
Tested Opening	Safety Height ≤ 200 mm				
Max Opening	400 mm				
Inflow Velocity	0.53±0.025 m/s				
Downflow Velocity	0.33±0.025 m/s				
HEPA Filter	Two, 99.999% efficient at 0.3 um. Filter life indicator.				
Front Window	Motorized. Two-layer laminated toughened glass ≥ 5mm. Anti UV.				
Noise	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB				
UV Lamp	30W*1	18W*1	40W*1	40W*2	40W*1
	UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination.				
Fluorescent Lamp	21W*2	21W*2	28W*2	40W*2	40W*2
Illumination	≥1000Lux				
Consumption	760W	1060W	1300W	1350W	1700W
Waterproof Sockets	Two, total load of two sockets: 500W				
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity, filter life, humidity and temperature, system working time etc.				
Control System	Microprocessor				
Airflow System	70% air recirculation, 30% air exhaust				
Visual and Audio Alarm	Filter replacement, window over height, abnormal air flow velocity.				
Material	Work Zone: 304 stainless steel				
	Main Body: Cold-rolled steel with anti-bacteria powder coating.				
Work Surface Height	750mm				
Caster	Universal caster with brake and leveling feet.				
Power Supply	110/220V±10%, 60/50Hz				
Standard Accessory	Fluorescent lamp, UV lamp*2, Base stand, Remote control, Foot switch, Drain valve, Waterproof sockets*2				
Optional Accessory	Water and gas tap				
Gross Weight	255kg	305kg	350kg	390kg	420kg
Package Size(W*D*H)	1250*1050*1870mm	1450*1050*1870mm	1640*1040*1860mm	2010*1050*1960mm	2090*1050*1860mm

Class II A2 Biological Safety Cabinet

Air Pattern for PYG-1200-C

- **HEPA filter**
- **Room air**
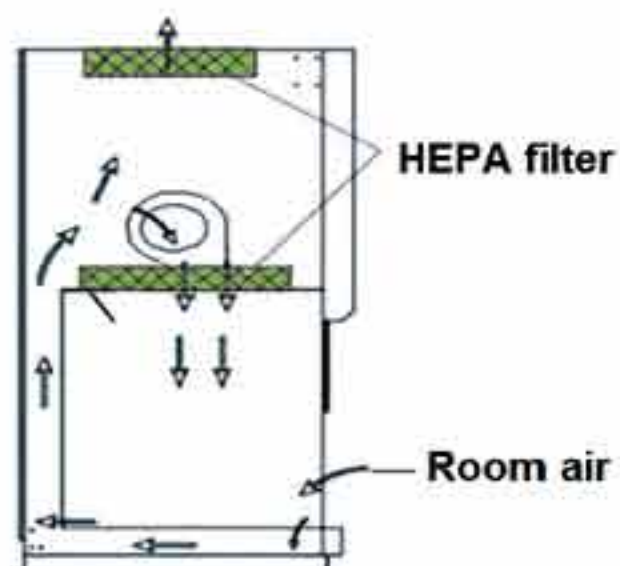
Work Tray
Work Tray, made of 304 stainless steel, is surrounded by negative pressure.

LCD Display
Large digital display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.

Front Window
5mm toughened glass

Footmaster Caster
Universal caster with brake and leveling feet.

TECHNICAL PARAMETERS

Model	PYG-1200-C
External Size (W*D*H)	1200* 695* 2200mm
Internal Size (W*D*H)	1100* 540* 600mm
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating
	Work Table: 304 stainless steel
Max Opening	450mm
Front & Side Windows	5mm toughened glass
Pre-filter	Washable
Filter	2
	HEPA filter with 99.999% efficiency at 0.3um.
Display	LCD display:exhaust filter and downflow filter pressure, inflow and downflow velocity, filter life
Airflow Velocity	0.3m/s
Work Area Pressure	Negative
Protection	Three: operator, sample,environment
Noise	≤ 60dB
Front Window	Motorized
IV Bar	One IV bar with 10 pothooks for medicine bottles
Illumination	≥1000 Lux
Fluorescent Lamp	21 W * 1
Work Surface Height	750 mm
Caster	Universal caster
Power Supply	110/220V±10%, 60/50Hz
Standard Accessory	Fluorescent lamp, Base stand
Consumption	1000 W
Gross Weight	200kg
Package Size (W*D*H)	1390*1000*1650mm
	1390*1000*1650mm

Class II B2 Biological Safety Cabinet
Cytotoxic Safety Cabinet

Three protection: operator, sample and environment.

Airflow system: 0 % air recirculation, 100% air exhaust

B2 Biological Safety Cabinet has higher class of safety protection compared with type A2.
It may be used for work with volatile toxic chemicals and radionuclides as required as
adjuncts to microbiological studies.

Cytotoxic Safety Cabinet

BIOBASE Cytotoxic Safety Cabinet is the premium solution for cytotoxic / antineoplastic
drug processing, providing the highest level of patient, pharmacist and environmental
protection.

The unique demands of handling and preparing cytotoxic drugs for use in chemotherapy
require a specialized cabinet.

Class II B2 Biosafety Cabinet
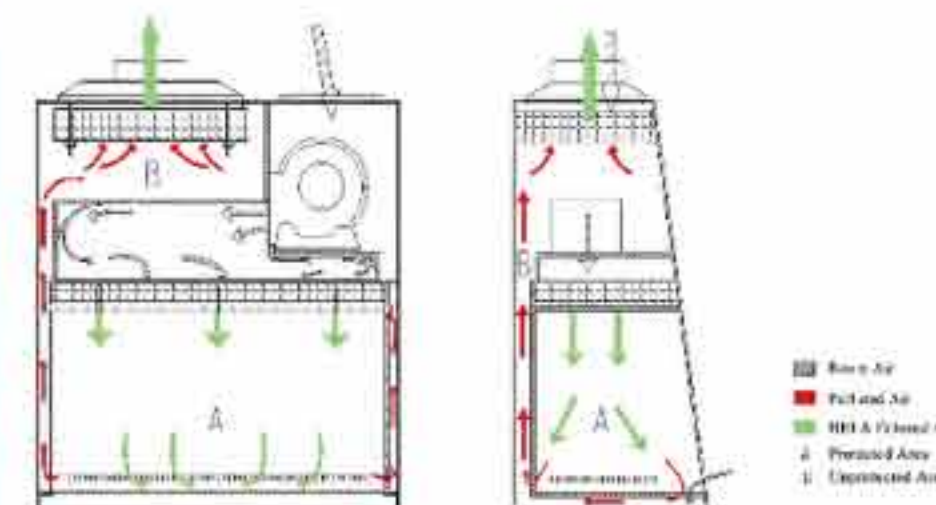
Cytotoxic Safety Cabinet
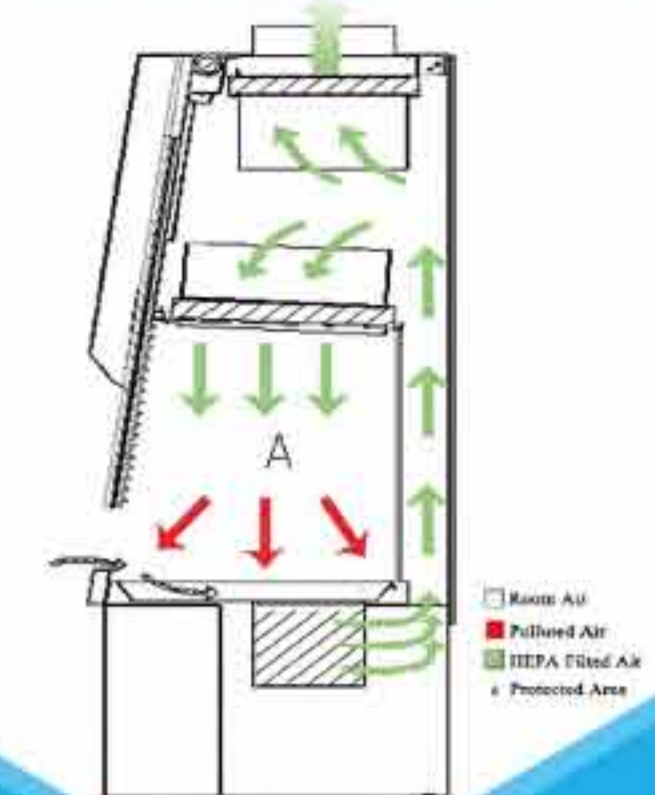
Class II B2 Biological Safety Cabinet

BIOBASE

LCD Display
Large digital display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.

Work Zone
Work zone, made of 304 stainless steel, is surrounded by negative pressure.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

Foot Switch
Adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.

Remote Control
All functions can be realized with it, making the operation much easier and more convenient.

Front Window
Two-layer laminated toughened glass>5mm, anti UV

Waterproof Socket
2 waterproof sockets are located in the side wall, for optimum convenience of using small devices inside the cabinet.

Footmaster Caster
Universal caster with brake and leveling feet.

Exhaust Blower
Centrifugal fan, Speed adjustable.

ADVANTAGE

1. Motorized Front Window.
2. Time Reserve Function.
3. HEPA Filter life and UV Life indicator.
4. Automatic air speed adjustable with filter block.
5. Work area surrounded by negative pressure, it can ensure maximum safety in work area.
6. Audio and visual alarm (Filter replacement, Window over height, abnormal Air flow velocity etc).
7. Most accessories are standard. No need to pay more, save your money.
8. Remote Control. All functions can be realized with it, making the operation much easier and more convenient.
9. Foot Switch. Adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.
10. Interlock Function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.

TECHNICAL PARAMETERS

Model	BSC-1100IIB2-X	BSC-1300IIB2-X	BSC-1500IIB2-X	BSC-1800IIB2-X
Internal Size(W*D*H)	940*600*660mm	1100*600*660mm	1350*600*620mm	1600*670*630mm
External Size(W*D*H)	1100*750*2250mm	1300*850*2200mm	1500*750*2250mm	1800*840*2275mm
Tested Opening	Safety Height ≤ 200 mm			
Max Opening	400 mm			
Inflow Velocity	0.53±0.025 m/s			
Downflow Velocity	0.33±0.025 m/s			
Pre-filter	Washable			
HEPA Filter	Two, 99.999% efficient at 0.3 um. Filter life indicator.			
Front Window	Motorized. Two-layer laminated toughened glass ≥5mm. Anti UV			
Noise	EN12469≤58 dB / NSF49≤61dB			
UV Lamp	30W× 1	18W× 1	40W× 1	40W× 2
	UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination.			
Fluorescent Lamp	21W× 2	21W× 2	28W× 2	35W× 2
Illumination	≥1000Lux			
Consumption	1050W	1350W	1550W	1900W
Waterproof Sockets	Two, total load of two sockets: 500W			
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity, filter life, humidity and temperature, system working time etc.			
Control System	Microprocessor			
Airflow System	0 Air Recirculation, 100% Air Exhaust			
Visual and audio alarm	Filter replacement, window over height, abnormal air flow velocity.			
Exhaust Duct	4 meters PVC duct, Diameter:300mm			
Material	Work Zone: 304 stainless steel Main Body: Cold-rolled steel with anti-bacteria powder coating.			
Work Surface Height	750mm			
Caster	Universal caster with brake and leveling feet			
Power Supply	110/220V±10%, 60/50Hz			220V±10%, 60/50Hz
Standard Accessory	Fluorescent Lamp, UV lamp*2, Base Stand, Remote control, Foot switch, Exhaust blower, Exhaust duct, Drain valve, Waterproof sockets*2, Pipe strap*2.			
Optional Accessory	Water and gas tap			
Gross Weight	350kg	360kg	440kg	470kg
Package — Main Body	1250*1050*1870mm	1450*1050*1870mm	1640*1050*1860mm	1940*1050*1860mm
Package — Exhaust Blower (W*D*H)	1060*970*580mm	1060*970*580mm	1060*970*580mm	1060*970*580mm

Cytotoxic Safety Cabinet

TECHNICAL PARAMETERS

Model	11234BBC86
Internal Size (W*D*H)	1220*600*630mm 48" *23.6"*24.8"
External Size (W*D*H)	1370 *760 *2100 mm 53.9"*29.9" *86.6"
Tested Opening	Safety Height ≤ 200mm
Max Opening	400mm
Internal Work Area, space	0.73M²
Inflow Velocity	0.46m/s
Down Flow Velocity	0.33m/s
Exhaust Volume with Thimble Duct	CBV Exhaust Volume 611 m³ / h (360 cfm)
	Static Pressure at CBV
	Exhaust Volume 39 Pa / 0.15 in H2O
Air Supply Filter	ULPA filter, efficiency > 99.999% for particle size between 0.1 -0.2 um
Exhaust Filter	2 pieces ULPA filter, efficiency > 99.999% for particle size between 0.1 -0.2 um
	Filter life indicator and Filter working time indicator.
Alarm	Audio and visual alarm, filter replacement, Window over height, Abnormal airflow velocity
Noise	≤ 60dB
Water & Gas Tap	Water tap*1; Gas tap*1
UV Lamp	30W*1
	Emission of 253.7 nanometers for most efficient decontamination;
	UV life indicator
Fluorescent Lamp	28W*2
Illumination	≥1000Lux
Consumption	≤700W
Waterproof Socket	Two, Total load of two sockets: ≤500W
Display	LCD display
Control System	Microprocessor
Humidity and Temperature	Humidity and Temperature can be displayed on the control panel
Material	Work area: 304 stainless steel
	Main body: cold-rolled steel sheets with anti-bacteria powder coating
Front Window	Motorized, Two-layer laminated toughened glass≥5mm, anti UV
Caster	Universal caster with brake and leveling feet
Power Supply	110/220V±10%, 60/50Hz
Standard Accessory	Base stand, Drain valve, waterproof sockets*2, Remote control, Foot switch, UV lamp*2 and
	Fluorescent Lamp, Water tap, Gas tap
Optional Accessory	Armrest, Formalin fumigation sterilizer, Infrared sterilizer, Airflow tester
Gross Weight	350kg
Package Size(W*D*H)	1570*950*2220mm

LCD Display
Large display is easy to monitor all the safety parameters at a glance, and ergonomically sized control panel improves users interface.

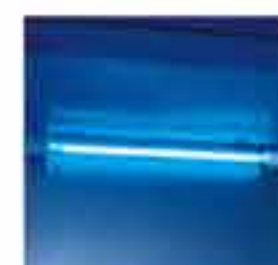**Water and Gas Tap**
High quality stainless steel

Front Window
Motorized, Two-layer laminated toughened glass >5mm, anti UV

Foot Switch
Adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination

Bag In and Bag Out Filter
The PVC bag can ensure the safety of the personnel and the environment, and make the replacement process convenient and quick.
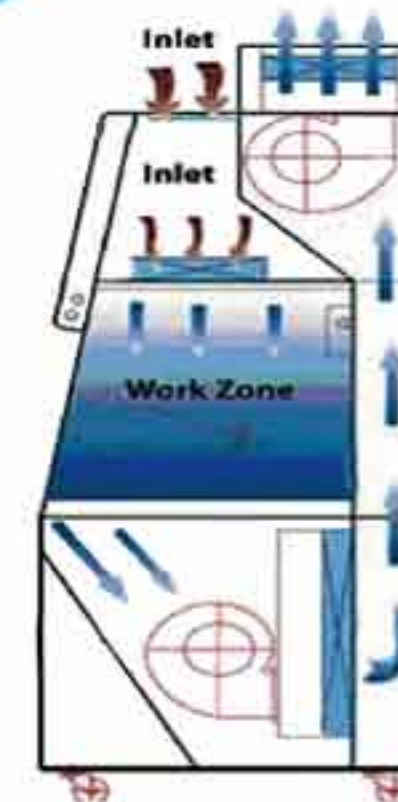
Class III
Biological Safety Cabinet

Class III Biosafety Cabinet is totally enclosed and gas-tight with ULPA filtered supply and exhaust air. Work is performed with long-sleeved gloves. The cabinet is kept under negative pressure of at least 120 Pa, and airflow is maintained by a dedicated exterior exhaust system. It can protect the operator, product and environment.

Class III Biological Safety Cabinet

ADVANTAGE

1. Exhaust air is double-filtered through high-quality ULPA filters with typical efficiency of 99.999% for 0.1~0.2μm particles.
2. An angled cabinet front ensures an ergonomic working posture.
3. UV lamp ensures work area sterilization effectively.

TECHNICAL PARAMETERS

Model	BSC-1500IIIX
External Size（W*D*H）	1340*850*2100 mm
Internal Size（W*D*H）	1240* 650*650 mm
Pass Box Size（W*D*H）	Internal Size: 400*390*340 mm
	External Size: 480*400*400 mm
Gloves	One pair 800mm butyl rubber gloves
Front Window	8 mm toughened glass, anti-ultraviolet radiation
Display	LCD display
Pre-filter	Polyester fiber, washable
Pressure	≥ negative120 Pa
ULPA Filter	Air supply filter: Efficiency 99.999% at 0.1- 0.12um
	First exhaust filter: Efficiency 99.999% at 0.1- 0.12um
	Second exhaust filter: Efficiency 99.999% at 0.1- 0.12um
Noise	≤ 63 dB
Airflow Volume	440-870cfm
Alarm	Audio and visual alarm, Abnormal pressure; Filter replacement
Work Zone Material	304 stainless steel
Illumination	≥ 1000 lux
Consumption	700W
Fluorescent Lamp	28W*2
UV Lamp	30W*1, 8W*1, Emission of 253.7 nanometers for most efficient decontamination
Power Supply	110V/220V±10% ,60/50 Hz
Gross Weight	395kg
Package Size(W*D*H)	2000*1000*2220mm
Standard Accessories	Gloves, Fluorescent lamp, UV lamp*4, Remote control, Pressure meter, Drain valve

Pass Box
Double doors with interlock function and UV lamp

Pressure Meter
Display the pressure of work zone

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination

LCD Display
Large display is easy to monitor the pressure parameters for work zone and three filters

Class I
Biological Safety Cabinet

Personnel and environmental protection

Class I Biosafety Cabinet is suitable for work involving low to moderate risk agents
(Biosafety Levels 1, 2 and 3) where there is a need for containment, but not for product
protection.

HEPA Filter

Sash→

- Room Air
- Polluted Air
- HEPA Filtered Air
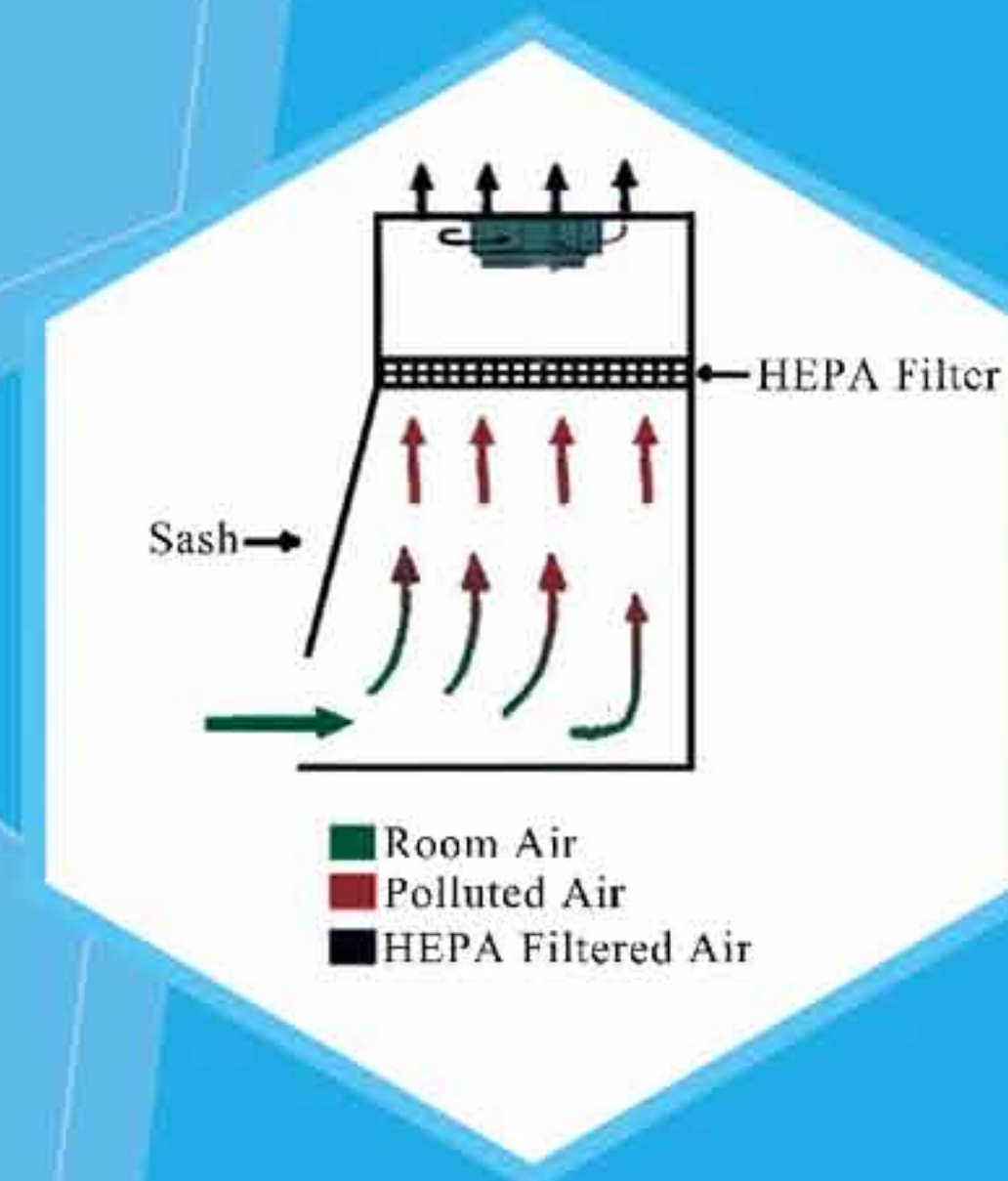
Class I Biological Safety Cabinet

BYKG-I/II

BYKG-III

BYKG-V

ADVANTAGE

1. Soft touch control panel, LCD display.
2. UV lamp for sterilization.
3. Stable air flow system; provide firm protection for person and environment.
4. Energy-saving, high efficiency, low noise.
5. One piece 304 stainless steel work stable, easy for cleaning.

TECHNICAL PARAMETERS

Model	BYKG-I	BYKG-II	BYKG-III	BYKG-V
External Size(W*D*H)	550*395*730mm	700*550*900mm	900*695*1080mm	1100*695*1924mm
Internal Size(W*D*H)	540*385*450mm	680*450*500mm	768*690*580mm	968*695*630mm
HEPA Filter	99.999% efficiency at 0.3 um			
Airflow Velocity	0.38-0.6m/s			
Noise	<60 dB			
Fluorescent Lamp	15W*1	18W*1	14W*2	21W*1
UV Lamp	15W*1	18W*1	20W*1	20W*1
	Emission of 253.7 nanometers for most efficient decontamination			
	BYKG-III has UV timer function and the display could indicate the UV life.			
Power Consumption	150W	160W	180W	400W
Work Surface Height	No	No	No	740mm
Caster	No	No	No	Universal castor
Main Body Construction	PMMA	PMMA	Cold-rolled steel with anti-bacteria powder coating	
Work Table	304 stainless steel			
Power Supply	110/220V±10% , 60/50Hz			
Standard Accessory	Fluorescent lamp, UV lamp*2			Fluorescent lamp, UV lamp*2, Base stand
Gross Weight	40kg	60kg	100kg	150kg
Package Size(W*D*H)	755*600*950mm	950*700*1125mm	1050*850*1280mm	1250*840*2250mm

Biosafety Accessories

Infrared Sterilizer

Infrared sterilizer is a gasless, flameless sterilizer. It can prevent dangerous spattering of microorganisms by the infrared heat during the operations of sterilizing the contaminated loops, needles, mouth of tube and small bottle.

SPECIFICATIONS
The maximum temperature is towards 930 ℃ in 10 minutes after turned on.

Two types:
Type I, 37mm dimension of cavity
Type II, 20mm dimension of cavity
Central high-temperature: 825℃±50℃
Size: 150x95x210mm
Weight:1600g
Voltage: 220 V/50Hz
Power:180W

I

II

Armrest

Alleviate fatigue on operator's arms
Prevent air obstruction
Adjustable height range: 85~100mm

Laboratory Chair

Economy line- artificial leather
Anatomically designed seat and backrest
Washable, easy to clean, robust and durable
Seat height adjustment by gas lift
Backrest adjustable in height and inclination
Height range: 38-48cm
Package size: 50*50*40cm

Necessary Test Tools for Biosafety Cabinet

Airflow Tester

Specifications:
Power supply: 220 AC 50/60HZ ; 110V, 60Hz
Input power: 30w Fuse: T2A L (⌀ 5×20)
Work style: Intermittent working≤15 min
Maximum atomization velocity: 1.5 ml/min
Maximum volume: 35ml
Working environment:
Environment temperature: 10-40℃
Relative humidity: ≤70% RH
Air pressure range: 860-1060 kpa
Storage environment:
Environment temperature: 10-40℃
Relative humidity: ≤95% RH
Air Pressure range: 500-1060 kpa

Dust Particle Counter

Particle size channel:
0.3, 0.5, 1. 0, 3.0, 5.0, 10.0(um)
Sampling period: 1-10 minutes
Number of sampling point: 2-9
Sampling frequency: 2-9
Sampling uantity: 2.83 S/m

Digital Sound Level Meter

Measurement Range: 30--130dB
Accuracy:+-2dB
Resolution:0.1dB
Sample rate : 4 times/s , 1 times/s

Illumination Meter

Light Intensity
range:0-200000LUX
accuracy:±20LUX
resolution:1LUX
Easy to read display
Digital illumination Meter

Air Flow Anemometer

Accurate air velocity measurement

Necessary tools for filter replacement

1. Formalin Fumigation Sterilizer
Sterilize the cabinet with formalin for 8 hours
Model: FX-100
Power supply:220V/50Hz
Power: 180w
Volume:100ml

2. Ammonium Hydrogen Carbonate Neutralizer
Neutralize the balance formalin with ammonium hydrogen carbonate
Model: TZ-100
Power supply:220V/50Hz
Power:180w
Volume:100ml

3.Protective Garment

4.Protective Gloves

Laminar Flow Cabinet

Laminar Flow Cabinet –sample protection only

Laminar Flow Cabinet is a work bench or similar enclosure, which creates a particle-free working environment by taking air through a filtration system and exhausting it across a work surface in a laminar or unidirectional air stream. The laminar flow cabinet is enclosed on the sides and kept under constant positive pressure in order to prevent the infiltration of contaminated room air.

Laminar flow cabinet is widely used in medical research laboratories, hospitals, manufacturing facilities and other research and production environments.
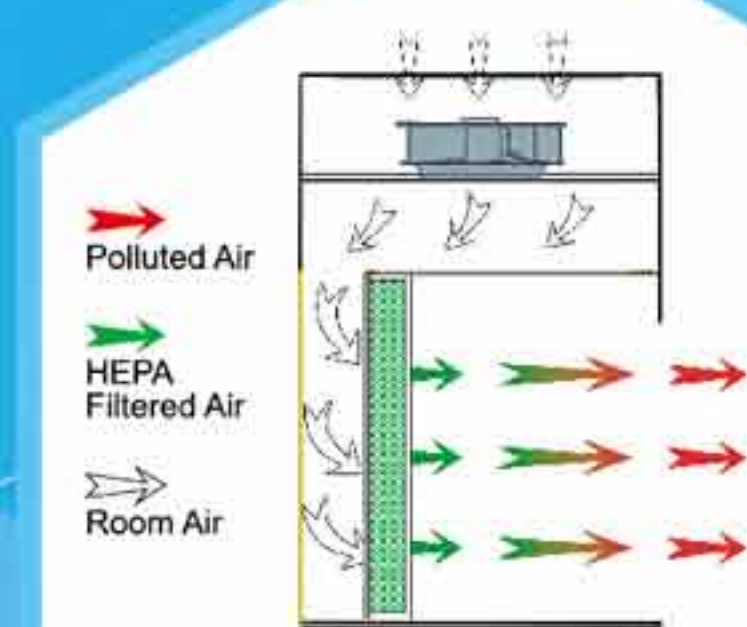
Horizontal Type
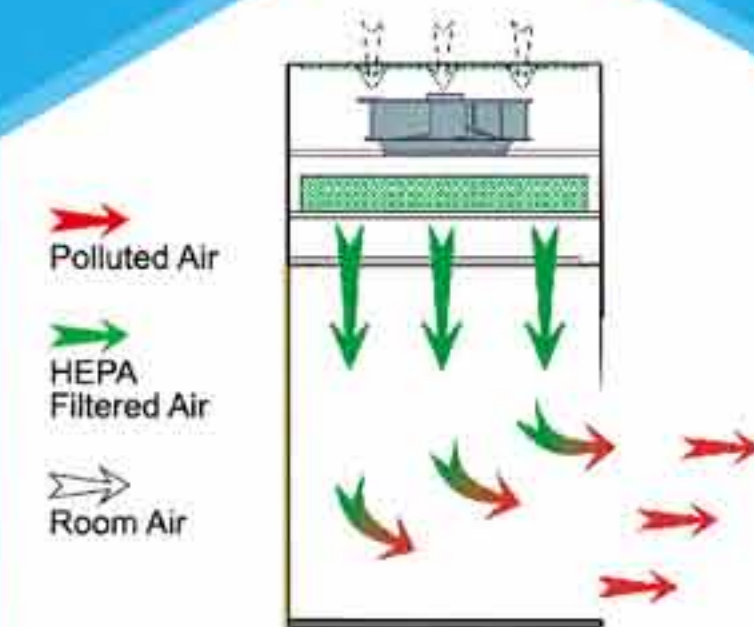
Vertical Type

Horizontal Laminar Flow Cabinet

LCD Display
Airflow velocity, UV timer, UV work time, system work time, real time

Waterproof Socket
2 waterproof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet

Gas Tap

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination

Side Glass Window
The transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.

TECHNICAL PARAMETERS

Model	BBS-H1300	BBS-H1800
External Size（W*D*H）	1300*825*2000mm	1800*825*2010mm
Internal Size（W*D*H）	1200*500*570mm	1700*500*570mm
Work Surface Height	720mm	
Display	LCD Display, with air flow display and real time	
Airflow Velocity	Average of 0.3~0.5m/s	
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating	
	Work Table: 304 stainless steel	
	Side and Front Window: 5mm toughened glass, anti-ultraviolet radiation	
Pre-filter	Polyester fiber, washable	
HEPA Filter	99.999% efficiency at 0.3um	
Noise	<60dB	
Front Window	Motorized, Side and Front Window: 5mm toughened glass, anti UV	
Max Opening	520mm	
Fluorescent Lamp	28W*1	28W*1
UV Lamp	Emission of 253.7 nanometers	
Consumption	400W	700W
Waterproof Socket	Two, total load≤500W	
Caster	Universal caster with leveling feet	
Power Supply	110/220V±10%; 60/50Hz	
Standard Accessory	Fluorescent lamp, UV lamp*2, Base stand, Tap, Waterproof socket*2	Fluorescent lamp, UV lamp*2, Base stand, Gas tap, Water tap, Socket*2
Gross Weight	165kg	270kg
Package Size（W*D*H）	1470*1060*1600mm	1960*1000*1600mm

Horizontal Laminar Flow Cabinet

LED Display
Microprocessor control system, LED display

Waterproof Socket
2 waterproof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet

Side Glass Window
The transparent side glass windows maximize light and visibility inside the cabinet,providing a bright and open working environment.

TECHNICAL PARAMETERS

| Model	BBS-H1100(Previous name: BBS-DDS)	BBS-H1500(Previous name: BBS-SDS)
External Size （W*D*H）	1060*800*1690mm	1460*800*1690mm
Internal Size （W*D*H）	980*500*600mm	1380*500*600mm
Work Surface Height	700mm	
Display	LED Display	
Airflow Velocity	Average of 0.3~0.5m/s	
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating	
	Work Table: 304 stainless steel	
	Side Windows: 5mm toughened glass, anti-ultraviolet radiation	
Pre-filter	Polyester fiber, washable	
HEPA Filter	99.999% efficiency at 0.3um	
Noise	<60dB	
Fluorescent Lamp	21W*1	28W*1
UV Lamp	Emission of 253.7 nanometers	
Consumption	320W	620W
Waterproof Socket	Two, total load≤500W	
Caster	Universal caster with leveling feet	
Power Supply	110/220V±10%; 60/50Hz	
Standard Accessory	Fluorescent lamp, UV lamp*2,Base stand, Waterproof socket*2	
Gross Weight	143kg	183kg
Package Size （W*D*H）	1230*940*1900mm	1630*940*1900mm

Vertical Laminar Flow Cabinet

LCD Display
Airflow velocity, UV timer, UV work time, system work time, real time

Waterproof Socket
2 waterproof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet

Gas Tap
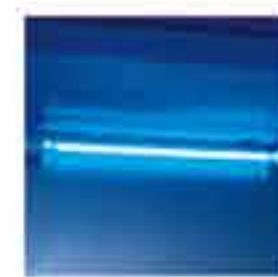
UV Lamp
Emission of 253.7 nanometers for most efficient decontamination

Side Glass Window
The transparent side glass windows maximize light and visibility inside the cabinet,providing a bright and open working environment.

TECHNICAL PARAMETERS

Model	BBS-V1300	BBS-V1800
External Size (W*D*H)	1310*750*2000mm	1800*700*2010mm
Internal Size (W*D*H)	1200*645*610mm	1700*645*610mm
Work Surface Height	720mm	
Display	LCD Display, with air flow display and real time	
Airflow Velocity	Average of 0.3~0.5m/s	
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating	
	Work Table: 304 stainless steel	
	Side and Front Windows: 5mm toughened glass, anti-ultraviolet radiation	
Pre-filter	Polyester fiber, washable	
HEPA Filter	99.999% efficiency at 0.3um	
Noise	<60dB	
Front Window	Motorized, Side and Front Windows: 5mm toughened glass, anti UV	
Max Opening	520mm	
Fluorescent Lamp	28W*1	36W*1
UV Lamp	Emission of 253.7 nanometers	
Consumption	400W	450W
Waterproof Socket	Two, total load≤500W	
Caster	Universal caster with leveling feet	
Power Supply	110/220V±10%; 60/50Hz	
Standard Accessory	Fluorescent lamp, UV lamp*2,Base stand, Tap, Waterproof socket*2	
Gross Weight	170kg	255kg
Package Size (W*D*H)	1470*980*1570mm	1870*980*1570mm

Vertical Laminar Flow Cabinet

BBS-DDC/BBS-SDC

BBS-V680

BBS-V800

BBS-SDC2100

TECHNICAL PARAMETERS

Model	BBS-V680	BBS-V800	BBS-DDC	BBS-SDC	BBS-SDC2100
External Size (W*D*H), mm	680*410*1160	802*615*1575	1040*600*1730	1440*600*1730	2100*740*2550
Internal Size (W*D*H), mm	630*375*615	800*600*540	940*580*540	1340*580*540	2000*705*1100
Work Surface Height	No	660mm	730mm	730mm	730mm
Display	LED Display				
Airflow Velocity	Average of 0.3~0.5m/s, air speed adjustable.				
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating Work Table: 304 stainless steel				
Pre-filter	Polyester fiber, washable				
HEPA Filter	99.999% efficiency at 0.3um				
Noise	<60dB				
Front Window	No	Manual, 5mm toughened glass, anti-UV			Motorized, 8mm PMMA
Max Opening	No	490mm	350mm	350mm	400mm
Fluorescent Lamp	14W*1	14W*1	21W*1	28W*1	36W*1
UV Lamp	Emission of 253.7 nanometers				
Consumption	160W	350W	350W	600W	700W
Waterproof Socket	No				2, total load≤500W
Caster	No	Universal wheel with leveling feet			
Power Supply	110/220V±10%; 60/50Hz				
Standard Accessory	Fluorescent lamp, UV lamp*2 (for all models) Water & gas tap (for model BBS-V680) Base stand (except model BBS-V680) Foot switch and Waterproof socket*2 (for model BBS-SDC2100)				
Gross Weight	50kg	120kg	150kg	210kg	300kg
Package Size (W*D*H), mm	840*560*1380	960*770*1800	1200*780*1350	1600*780*1350	2250*1000*2120

Vertical Laminar Flow Cabinet
----Double Sides Type

BIOBASE

TECHNICAL PARAMETERS

Model	BBS-DSC	BBS-SSC
External Size（W*D*H）	1040*630*1730mm	1440*630*1730mm
Internal Size（W*D*H）	940*630*540mm	1340*630*540mm
Work Surface Height	730mm	
Display	LED Display	
Airflow Velocity	Average of 0.3~0.5m/s	
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating Work Table: 304 stainless steel	
Pre-filter	Polyester fiber, washable	
HEPA Filter	99.999% efficiency at 0.3um	
Noise	<60dB	
Front Window	Manual, 5mm toughened glass, anti-UV	
Max Opening	350mm	350mm
UV Lamp	Emission of 253.7 nanometers	
Fluorescent Lamp	21W*1	28W*1
Consumption	350W	600W
Caster	Universal caster with leveling feet	
Power Supply	110/220V±10%; 60/50Hz	
Standard Accessory	Fluorescent lamp, UV lamp*2,Base stand	
Gross Weight	200kg	260kg
Package Size（W*D*H）	1200*830*1350mm	1600*830*1350mm

LED Display
Microprocessor control system, LED display.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

Double Sides
Double sides work bench, operators can sit face to face.

Mini Cabinet

There are two types:

Vertical laminar flow cabinet BBS-V500, positive pressure in work area only protects sample.

Class I biological safety cabinet BYKG-VII, negative pressure in work area protects operator and environment.
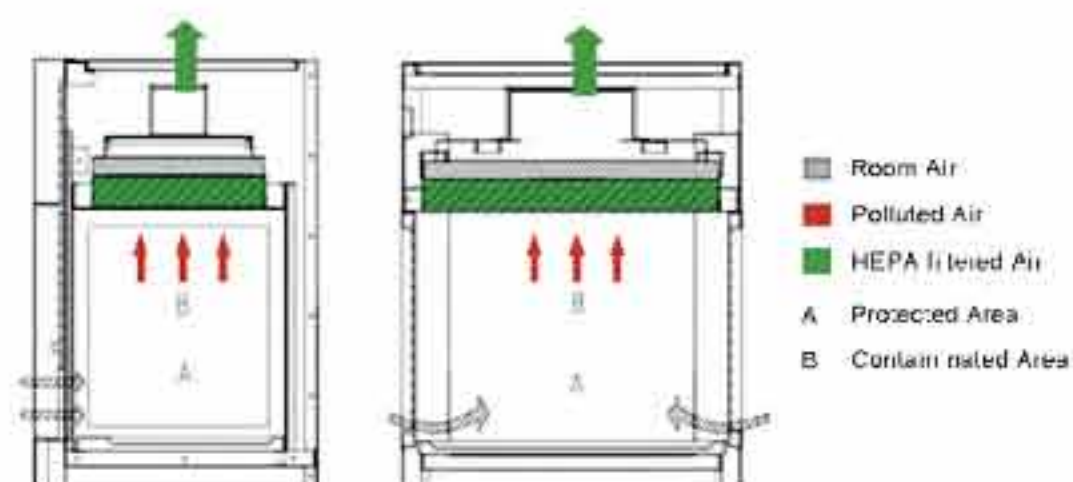
Advantage:

1. HEPA Filter with efficiency: 99.999% at 0.3um.
2. Microprocessor control system, LED Display.
3. Air speed adjustable.
4. Tabletop type, easy to carry and save space.

Air Flow Pattern:

BBS-V500

BYKG-VII

Room Air
Polluted Air
HEPA filtered Air
A Protected Area
B Contaminated Area
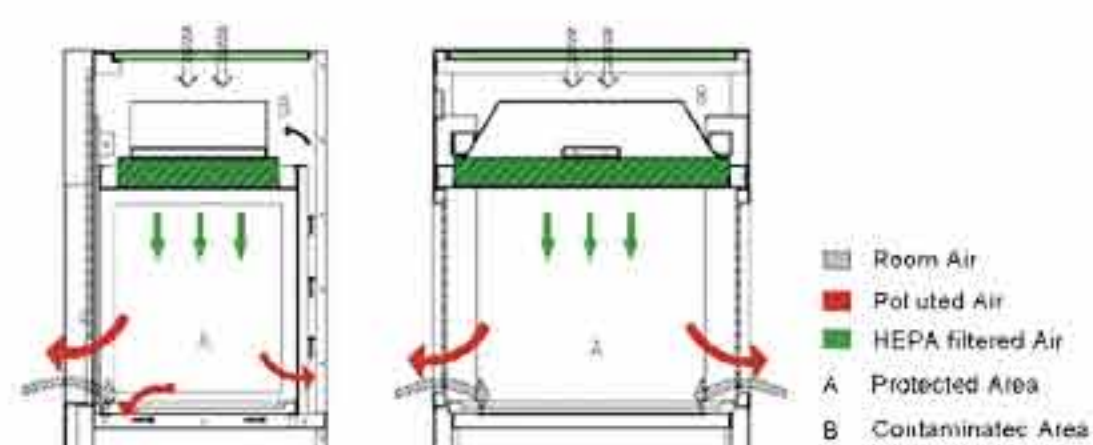
TECHNICAL PARAMETERS

Model	BBS-V500	BYKG-VII
External Size (W*D*H)	550*460*700 mm	
Internal Size (W*D*H)	480*340*370 mm	
Display	LED Display	
Airflow Velocity	0.3~0.6m/s	≥0.5m/s
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating	
	Work Table:304 stainless steel	
Pre-filter	Polyester fiber, washable	
HEPA Filter	99.999% efficiency at 0.3um	
Noise	<60dB	
Front Window	Manual, 5mm toughened glass, anti UV	
Max Opening	310mm	
Fluorescent Lamp	8W*1	
UV Lamp	Emission of 253.7 nanometers	
Consumption	110W	
Power Supply	110/220V±10%; 60/50Hz	
Standard Accessory	Fluorescent lamp*1, UV lamp*2	
Gross Weight	40kg	
Package Size (W*D*H)	650*550*815mm	

PCR Cabinet

ADVANTAGE

1. UV sterilization system.
2. HEPA filter efficiency 99.999% at 0.3um.
3. LED display.
4. Audio alarm: filter replacement alarm.
5. Interlock function: UV lamp only can be switched on when the front window is closed, ensuring operator safety.
6. UV timer (1-99 minutes): When the set time expires, the UV lamp automatically switches off in preparation for the next experiment.

TECHNICAL PARAMETERS

| Model	PCR-01
External Size (W*D*H)	1000*695*1720mm
Internal Size (W*D*H)	996*685*630mm
Work Surface Height	750mm
Material	Main Body: Cold-rolled steel with anti-bacteria powder coating
	Work Table: 304 stainless steel
Front & Side Windows	5mm toughened glass
	Manual front window, anti-UV
Max Opening	400mm
Pre-filter	Polyester fiber, Washable
HEPA Filter	99.999% efficiency at 0.3um.
Airflow Velocity	0.3-0.5m/s, speed adjustable
Noise	≤60dB
UV Lamp	Emission of 253.7 nanometers, with UV timer.
Fluorescent Lamp	40W*1
Illumination	>1000Lux
Shelf with IV bar	Stainless steel, 495*140*55mm (W*D*H)
Caster	Universal caster with leveling feet
Consumption	380W
Waterproof Socket	Two, total load≤500W
Power Supply	110/220V±10%, 60/50Hz
Standard Accessory	UV lamp*3, Fluorescent lamp, Base stand, Waterproof socket*2, Shelf with IV bar
Gross Weight	150kg
Package Size (W*D*H)	1165*870*1970mm

LED Display
LED display: UV timer.

Waterproof Socket
2 waterproof sockets are located in the back wall, for optimum convenience of using small devices inside the cabinet.

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.
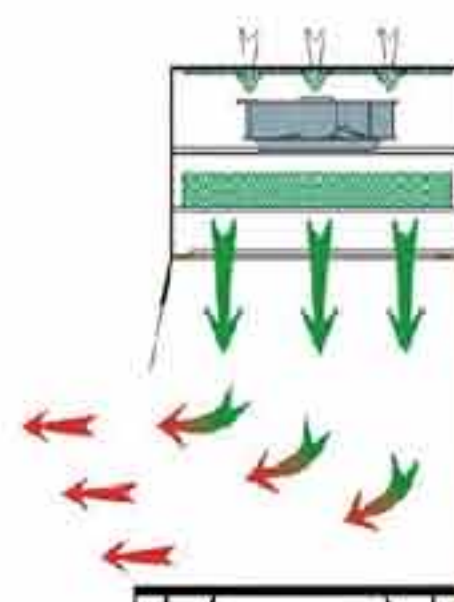
Shelf with IV Bar

Side Glass Window
Side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment

← Polluted Air

← HEPA Filtered Air

⇐ Room Air

Fume Hood

Fume Hood is used to protect lab environment and operator during general chemical applications. It actively protects operator from inhaling toxic vapors and dramatically reduces the risk of fire and explosion. By installing proper filter, it can also protect environment.
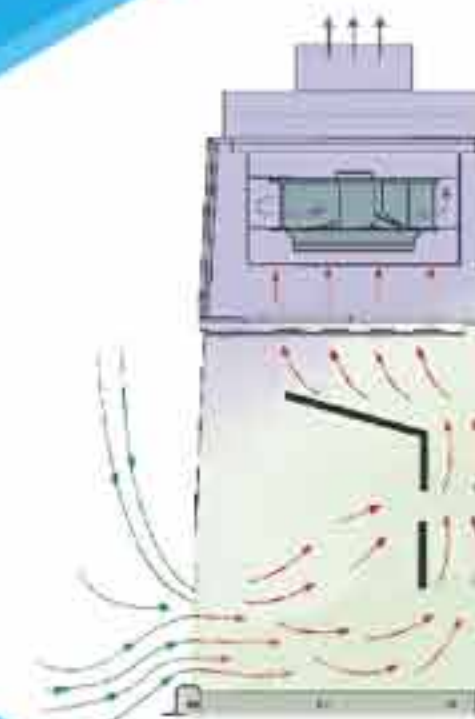
Fume Hood

ADVANTAGE

1. Double-layer structure: 1.2 mm sheet metal surface, melamine board inward.
2. Microprocessor control system, LED display.
3. Adjustable air speed: 9 levels.
4. Motorized front glass window.
5. UV Lamp for sterilization.
6. Built-in centrifugal blower.

TECHNICAL PARAMETERS

Model		FH1000	FH1200	FH1500	FH1800
External Size (W*D*H)		1000*750*2320mm	1200*800*2345mm	1500*800*2345mm	1800*800*2345mm
Internal Size (W*D*H)		820*620*750mm	1020*670*750mm	1320*670*750mm	1620*670*750mm
Work Surface Height		850mm			
Max Opening		520mm	570mm	570mm	570mm
Air Velocity		0.3~0.8m/s			
Protection Class		Class I			
Protection Type		IP 20			
Noise		≤60dB			
Exhaust Duct		PVC, Standard length: 4 meters. Φ300mm			
Pipe Strap		1 pc			
Fluorescent Lamp		14W*1	21W*1	28W*1	36W*1
UV Lamp		Emission of 253.7 nanometers for most efficient decontamination			
Blower		Built-in centrifugal blower; Speed adjustable.			
Front Window		5mm toughened glass; Motorized; Height adjustable.			
Power Supply		110/220V±10%, 60/50Hz			
Consumption		400W	400W	500W	500W
Material	Exterior	Cold-rolled steel with anti-bacteria powder coating.			
	Interior	High grade melamine board with good acid and alkali resistance function			
	Work table	Solid chemical resistant physiochemical board			
Standard Accessory		UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet, Pipe strap. Total load of 2 waterproof sockets: 1000W. 4 meters PVC exhaust duct			
Optional Accessory		Active carbon filter or HEPA filter			
Gross Weight		230kg	270kg	370kg	420kg
Package	Main Body	1140*900*1850 mm	1340*940*1890mm	1640*940*1890mm	1940*940*1890mm
	Base Cabinet	1140*900*900mm	1340*940*900mm	1640*940*900mm	1940*940*900mm

LED Display
Digital LED display: Airflow Level

Water&Gas Tap
Water Sink

UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

Double Layers
1.2mm sheet metal surface, melamine board inward

Fume Hood

ADVANTAGE

1. Back side air compensation, to avoid turbulence in work area.
2. Microprocessor control system, LED display.
3. Adjustable air speed: 9 levels.
4. Motorized front glass window.
5. UV Lamp for sterilization.
6. Transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.
7. 10°slope front ergonomics design, fatigue-free working posture.

TECHNICAL PARAMETERS

Model	FH1000(X)	FH1200(X)	FH1500(X)	FH1800(X)
External Size (W*D*H)	1000*800*2200mm	1200*800*2200mm	1500*800*2200mm	1800*800*2200mm
Internal Size (W*D*H)	880*730*745mm	1080*730*745mm	1380*730*745mm	1680*730*745mm
Max Opening	520mm			
Work Surface Height	850mm			
Blower	Built-in centrifugal blowers; Speed adjustable with 9 levels			
Air Velocity	0.3~0.8m/s			
Noise	≤60dB			
Fluorescent Lamp	18W*1	18W*1	36W*1	36W*1
UV Lamp	Emission of 253.7 nanometers for most efficient decontamination			
Front Window	Motorized; 5 mm toughened glass, anti-ultraviolet radiation			
Material	Exterior Body: Cold-rolled steel with anti-bacteria powder coating.			
	Work table: Solid chemical-resistant physiochemical board			
Power Supply	110/220V±10%, 60/50Hz			
Consumption	300W	300W	400W	500W
Standard Accessory	Water tap, Gas tap, Water sink, Base stand, UV Lamp*2, fluorescent			
	Total load of 2 waterproof sockets: 1000W			
	4 meters exhaust duct			
	Active carbon filter			
	Foot switch			
Gross Weight	230kg	320kg	370kg	420kg
Package Size(W*D*H)	1250x1160x1700mm	1360x1240x1650mm	1640*1110*1670mm	1940*1110*1670mm

LED Display
Digital LED display: Airflow Level

Water & Gas Tap
Water Sink

Foot Switch
Use foot switch to adjust the height of front window.

Observation Window
Transparent side glass windows maximize light and visibility inside the cabinet

Back Side Air Compensation
To avoid turbulence in work area

Fume Hood

BIOBASE

LED Display
Digital LED display: Airflow Level

Water&Gas Remote Control

Water&Gas Tap

Double Layers
1.2mm sheet metal surface, melamine board inward.

TECHNICAL PARAMETERS

Model		FH1000(A)	FH1200(A)	FH1500(A)	FH1800(A)
External Size (W*D*H)		1040*800*2200mm	1240*800*2200mm	1540*800*2200mm	1840*800*2200mm
Internal Size (W*D*H)		820*670*730mm	1020*670*730mm	1320*670*730mm	1620*670*730mm
Work Surface Height		850mm			
Max Opening		520mm			
Air Velocity		0.3~0.8m/s			
Noise		≤60dB			
Exhaust Duct		PVC, Standard length: 4 meters. Φ300mm			
Pipe Strap		1 pc			
Fluorescent Lamp		14W*1	21W*1	28W*1	36W*1
UV Lamp		Emission of 253.7 nanometers for most efficient decontamination			
Blower		Built-in centrifugal blower; Speed adjustable.			
Front Window		5mm toughened glass; Motorized; Height adjustable.			
Power Supply		110/220V±10%, 60/50Hz			
Consumption		400W	400W	500W	500W
Material	Exterior	Cold-rolled steel with anti-bacteria powder coating.			
	Interior	High grade melamine board with good acid and alkali resistance function			
	Work Table	Solid chemical resistant physiochemical board			
Standard Accessory		UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet			
		Total load of 2 waterproof sockets: 1000W			
		4-meter PVC exhaust duct, pipe strap			
Optional Accessory		Active carbon filter or HEPA filter			
Gross Weight		230kg	270kg	370kg	420kg
Package	Main Body	1180*900*1750 mm	1380*940*1790mm	1680*940*1790mm	1980*940*1790mm
	Base Cabinet	1180*900*900mm	1380*940*900mm	1680*940*900mm	1980*940*900mm

Walk-in Fume Hood

INTRODUCTION

Walk-in fume hood supplies exhaust system for large laboratory instruments and equipment. Meanwhile, operators can walk into the fume hood to operate the equipment conveniently and directly. It is widely used in following areas:

◆ Hospitals & Pharmaceutical
◆ Education Institutions
◆ Other Industrial Projects
◆ R & D Centers
◆ Petroleum & Petrochemical Plants

TECHNICAL PARAMETERS

Model		FH1200(W)	FH1500(W)	FH1800(W)
External Size (W*D*H)		1200*850*2200mm	1500*850*2200mm	1800*850*2200mm
Internal Size (W*D*H)		1000*650*1500mm	1300*650*1500mm	1600*650*1500mm
Max Opening		1150mm		
Exhaust Airflow Volume		1150m³/h	1500m³/h	1850m³/h
Inflow Air Velocity		≥0.4m/s		
Noise		62dB		
Vibration		XYZ direct ≤4µm		
Illumination		≥800Lux		
Fluorescent Lamp		21W*2	28W*2	40W*2
Power Supply		110/220V±10%, 60/50Hz		
Consumption		400W	500W	500W
Front Window		Manual, Toughened glass., Anti UV		
Material	Exterior	1.2mm cold-rolled steel with bacteria powder coating.		
	Interior	High grade melamine board with good acid and alkali resistance function		
Standard Accessory		Blower(External) ,Fluorescent lamp, Water tap, Gas tap, PP cup sink, Remote control water valve, Remote control gas valve, Waterproof sockets * 4.		
Sockets		Total load of 4 waterproof sockets: ≤1000W		
Optional Accessory		Ø300mm PVC Duct		
Package Size(W*D*H)		1400*1030*2500mm	1700*1030*2500mm	2000*1030*2500mm

Water Sink

Water & Gas Remote Control Valve

Water & Gas Tap

Application

Application

PP Fume Hood

Water&Gas Remote Control

PP sink, resistant to strong acid, alkali and anti-corrosion

Waterproof Socket

Work Zone, made of Solid chemical resistant physiochemical board

INTRODUCTION

PP Fume Hood has the characteristic of resistance to strong acid, alkali and anti-corrosion. It is applicable to various kinds of laboratories with high requirement for cleanliness, for example: pharmaceutical laboratory, food laboratory, semiconductor laboratory, trace metal laboratory, biology laboratory, etc. It is widely used in following areas:

◆Chemical Industry   ◆Medical Science
◆Automobile Factory&Steel plant   ◆Educational Institutions

ADVANTAGE

1.Made of porcelain white PP, resistant to strong acid, alkali and anti-corrosion.
2.Front window which is made of thick transparent toughened glass maximize light and visibility inside the fume hood, providing a bright and open working environment.
3.It is safer to use anti-corrosive water tap.
4.Microprocessor control system, LCD display.

TECHNICAL PARAMETERS

| Model		FH1000(P)	FH1200(P)	FH1500(P)	FH1800(P)
External Size (W*D*H)		1040*750*2200mm	1240*800*2200mm	1540*800*2200mm	1840*800*2200 mm
Internal Size (W*D*H)		820*520*872mm	1020*570*872mm	1320*570*872mm	1620*570*872 mm
Work Surface Height		700mm			
Max Opening		815mm			
Air Velocity		0.4~0.6m/s			
Noise		≤60dB			
Fluorescent Lamp		30W*1			
Blower		Built-in axial flow blower; Speed adjustable.			
Front Window		Manual, 5mm toughened glass, height adjustable .			
Power Supply		110/220V±10%, 50/60Hz			
Consumption		300W			
Material	Main Body	Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion			
	Work Table	Solid chemical resistant physiochemical board			
Standard Accessory		Fluorescent lamp, Water tap, Gas tap, Water Sink, Base stand			
		Waterproof socket*2			
		4-meter PVC exhaust duct, pipe strap			
Optional Accessory		PP work table, epoxy resin board or ceramic board.			
		Outer centrifugal blower, resistant to strong acid, alkali.			
Gross Weight		157kg	198kg	225kg	259kg
Package Size (W*D*H)	Main Body	1100*810*1750 mm	1300*860*1750 mm	1600*860*1750 mm	1900*860*1750 mm
	Base Cabinet	1100*810*950 mm	1300*860*950 mm	1600*860*950 mm	1900*860*950 mm

Air Purifier

QRJ-128

QRJ-168 Ⅲ
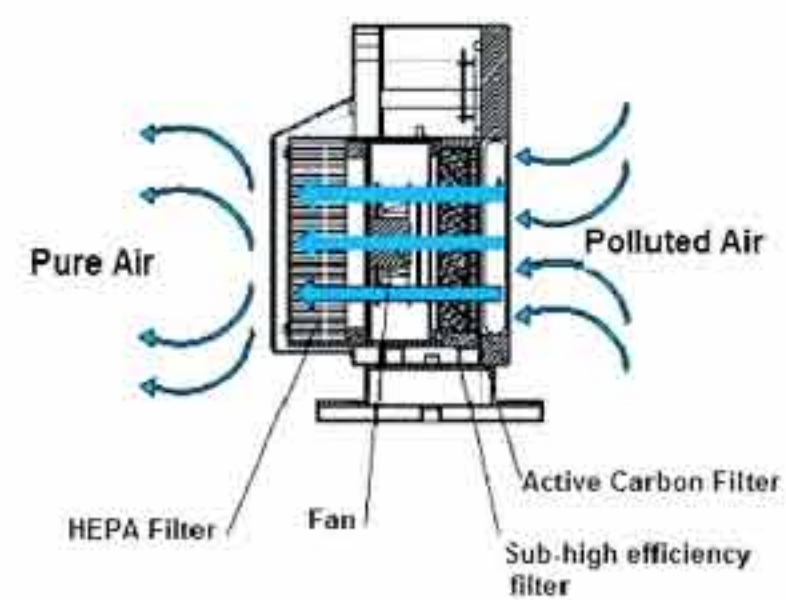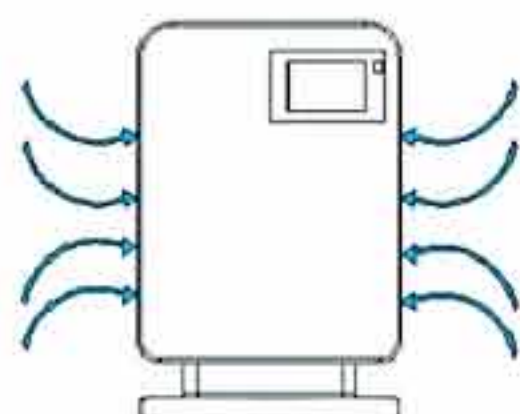
FEATURES

Air Purifier is an air purification equipment, which is widely used in hospital, small clinic, laboratory, office, meeting room and house etc. It can protect your life and your health through filtering dust, germ and virus in the air.

ADVANTAGE

1. HEPA filter, 99.999% efficiency at 0.3 um.
2. Low noise, less than 50db.
3. Adjustable air velocity and intelligent timing function, timing range 1h, 2h, 3h.
4. Touch screen control panel.
5. Filter life indicator
6. Three filters: HEPA filter, active carbon filter and sub-high efficiency filter.
7. QRJ-168III could be used to eliminate formaldehyde.

NOTE: 4~7 is only for QRJ-168III.

TECHNICAL PARAMETERS

Model	QRJ-128	QRJ-168III
External Size(W*D*H)	900*60*1400mm	370*380*550 mm
Filter	HEPA filter	HEPA filter, active carbon filter and sub-high efficiency filter.
Optimal Space	20m2	15 m2
Noise	<60dB	<50dB
Consumption	60w	34W
Adjustable Air Speed	7 levels	20 levels
Power Supply	110/220v±10%, 60/50Hz	
Cleanness at Outlet	Class 100	
Gross Weight	40kg	16kg
Package Size(W*D*H)	1090*455*1600mm	420*430*605mm

Clean Booth (Down Flow Booth)

BIOBASE
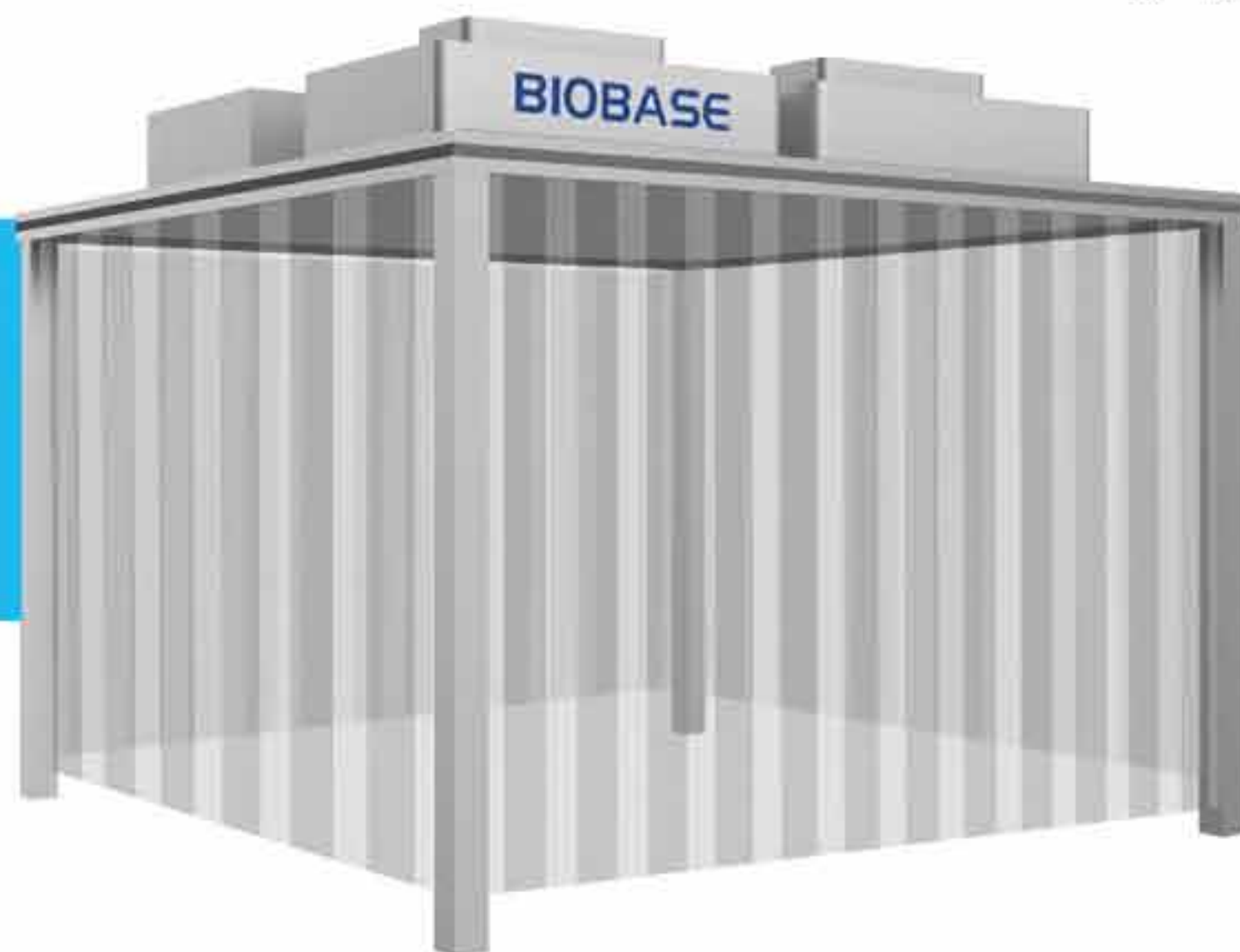
Customization Available

Reference Picture

Reference Picture

Microprocessor Control Panel:
Users can control the fan, light, UV and adjust the air velocity with it.

FFU(Fan Filter Unit), which draws in contaminated air from the top of the module, and exhausts filtered clean air vertically in a unidirectional(laminar) air stream at its base, is a self-contained fan and filter module for clean room applications.

Design Drawing

Soft Wall Material
PVC, Anti-static dustproof curtain.

INTRODUCTION

Clean booth is a kind of air purifying equipment providing partial high clean environment. It's the easiest and fastest way to build a simple clean room. Equipped with a lot of clean level and space collocation, it can be designed as request. Main Characteristics: simple use, good flexibility, easy installation, short construction time, and movable. It can be installed in part of clean room of general level which requires high cleanliness to save cost.

FEATURES

1. It can be used singly or combined.
2. Compared with civil type and fabricated type clean room of hundred clean level, it has low running cost and fast effect, and can be easily installed.
3. Modular construction, easy to increase clean level, good expansion and reusable, convenient movement (Universal wheel can be installed).
4. Customized design is welcome.

TECHNICAL PARAMETERS

Model	BKCB-1500	BKCB-2000	BKCB-3000	BKCB-5000
External Size (W*D*H)	1500*2000*2500mm	2000*3000*2500mm	3000*4000*2500mm	5000*5000*2500mm
HEPA Filters	99.999% efficiency at 0.3 um			
Consumption	500W	800W	1000W	1600W
Weight	350kg	420kg	570kg	820kg
FFU Nos.	4 pcs	6 pcs	12 pcs	25 pcs
Clean Level	ISO 5 (Class 100), Class A			
Control System	Microprocessor control system			
Rectangular Tube Material	Stainless steel / aluminum / painting steel sheet			
Wall Material	Anti-static dustproof curtain			
Blower	Built-in centrifugal blower; speed adjustable			
UV Lamp	Emission of 253.7nm, with UV timer			
Air Velocity	0.1~0.6m/s, average 0.45m/s			
Noise	≤58db			
Power Supply	110/220V±10%, 50/60HZ			

Customized design for clean level, size or material is available

Dispensing Booth
（Sampling or Weighing Booth）

Customization Available

Reference Picture

Reference Picture

Air Flow Pattern

Differential Pressure Gauge
Dwyer make Magnehelic gauges are used to measure the pressure drop HEPA filter 0-500Pa.

LCD Display
Microprosessor control system

Soft Wall Material:
PVC, Anti-static dustproof curtain.

INTRODUCTION

Dispensing booth is a kind of partial purifying equipment, for filling, refilling, weighing and sampling of raw material and compounds. It is provided with a HEPA filter, which prevents the airborne dusts by down draught technique. The unit eliminates powder contamination to protect the operator and the surrounding environment.

Dispensing booth is also called sampling booth or weighing booth.

FEATURES
1. Automatic changeable frequency system monitors the air velocity to ensure its stability in the working area.
2. Differential pressure gauge is equipped to real-time monitor the filters.
3. Unique designed air duct effectively controls the noise.
4. Uniform flow design of main work area can protect the operators, prevent environmental pollution and cross contamination of products.
5. Intelligent control mode and alarm system ensure the reliability of running.
6. Smooth transitions of wall and ground can eliminate the blind angle.
7. Customized design is welcome.

TECHNICAL PARAMETERS

Model	BKDB-1200	BKDB-1800	BKDB-2400
Clean Level	ISO 5 (Class 100), Class A		
HEPA Filters	99.999% efficiency at 0.3 um		
Air Volume	Supply air volume: ≤7500m3/h, Exhaust air volume: ≤2250m3/h; Adjustable		
Material	Fully stainless steel		
Air Velocity	0.35~0.65m/s, adjustable		
Noise	≤75db		
Illumination	≥800lux		
UV Lamp	Emission of 253.7nm		
Power Supply	110/220V±10%, 50/60Hz		
Consumption	400W	800W	800W
Weight	150kg	200kg	250kg
Work Area Size (W*D*H)	1200*1200*2000mm	1800*1800*2000mm	2400*1800*2000mm

Customized design for clean level, size or material is available

Pathology Workstation

APPLICATION

Pathological sampling bench is widely used in hospital pathology department, pathology laboratory, etc. Reasonable ventilation system protects operator away from the harmful gas produced by the formalin during sampling. The hot & cold water system ensures it can adapt work in different climates.

ADVANTAGE

1. Odor-remove function.
2. Single water sink, two-person operations.
3. Exhaust air system: High-power suction device, low noise.
4. The base cabinet is inward-concave type, convenient for sitting operation.
5. Automatic flushing device, slightly right-side inclined worktable, easy for waste discharge and cleaning.
6. Optional water heater is available, realizing hot & cold water adjustment.
7. Optional pulverizer can completely smash the waste during test, to avoid blocking drainage pipes.

TECHNICAL PARAMETERS

Model		QCT-1000	QCT-1500	QCT-1800
External Size (W*D*H)		1000*750*1950	1500*750*1950mm	1800*750*1950mm
Internal Size (W*D*H)		895*430*900mm	1395*430*900mm	1695*430*900mm
Work Surface Height		900 mm		
Consumption		470W	520W	550W
Optional water heater		1500W		
Power Supply		110/220V±10%; 60/50Hz		
Exhaust Ariflow Volume		1150-1250m3/h		
Material	Main Body	304 stainless steel, thickness 1.2mm		
	Work Table	304 stainless steel, thickness 1.5mm		
Standard Accessories		Spotlight; UV lamp; Fluorescent lamp; Exhaust system; Automatic flushing device; Stainless steel hanger; Adjustable hot and cold water tap; 180mm deep stainless steel water sink, funnel with filter.		
Optional Accessories		Pulverizer, Electrical water heater, Automatic induction hand dryer, Eye washer, Camera active carbon filter.		

Configuration
UV light,
Fluorescent light,
Adjustable spotlight,
Stainless steel hanger,
"UV, FAN, LIGHT, PULVERIZER" Control.

Suction Inlet
Suction inlet adopts louver-type. The upper mouthing structure ensures above blower suction, avoiding air back-streaming.

Water Tap and Sink
Stainless steel
Whole-structure

Auto Flushing Design
Automatic flushing device, slightly right-side inclined worktable, easy for waste discharge and cleaning.

Pulverizer (Optional)
Completely smash the waste during test, to avoid blocking drainage pipes.

Air Shower

Air shower is a necessary passage for person entering clean room in order to minimize the amount of particulate contaminant, achieve workplace strict clean purification standards. Personnel move through the air shower while particulate contaminants are blew off by the clean high speed air. So the duct can't be brought into clean area.

Features:

1. Photoelectric sensor, automatic blowing.
2. Designed with circulation wind to ensure the cleanness of shower area under non-shower status.
3. Double doors with electric interlock.
4. LED display with adjustable blowing time (0 ~ 99min).
5. HEPA Filter, Class 100 cleanness.

Model	AS-1P1S	AS-1P2S	AS-2P2S
External Size(W*D*H)	1300*1000*2050mm	1500*1000*2050mm	1500*2000*2050mm
Shower Area Size(W*D*H)	800*890*1930mm	800*890*1930mm	800*1890*1930mm
HEPA Filter	99.999% efficiency at 0.3 um		
Spraying Wind Speed	25m/s		
Air Shower Time	0-99 min (adjustable)		
No.of SS Nozzles	6	12	12
Fluorescent Lamp	20W*1	20W*1	20W*2
Consumption	1000W	1500W	20000W
Cabinet Material (Optional)	1. Full cold-rolled steel with powder coating. 2. Internal stainless stell,external with cold-rolled steel 3. Full Stainless Steel.		
Door Material (Optional)	1. Cold-rolled steel with powder coating. 2. Stainless Steel		
Chassis	Stainless Steel		
Power Supply	110/220V,50/60Hz		

Pass Box

Pass Box is used to transfer goods between rooms of different clean levels of clean room. It can reduce times of opening door, prevent the air convection between different rooms and minimize the pollution extent.

Type	Pass box			Air shower pass box		
Model	PB-01	PB-02	PB-03	ASPB-01	ASPB-02	ASPB-03
External size (W*D*H) mm	660*500*580	760*600*680	860*700*780	660*500*1400	760*600*1500	860*700*1600
Internal size (W*D*H) mm	500*500*500	600*600*600	700*700*700	500*500*500	600*600*600	700*700*700
Material	Stainless steel					
Interlock	Electronical					
UV Lamp	30W*1					
HEPA Filter	NO			Efficiency≥ 99.999% at 0.3um		
Clean air speed	NO			0.36~0.54m/s		

Filter

MPP | APP | CPP

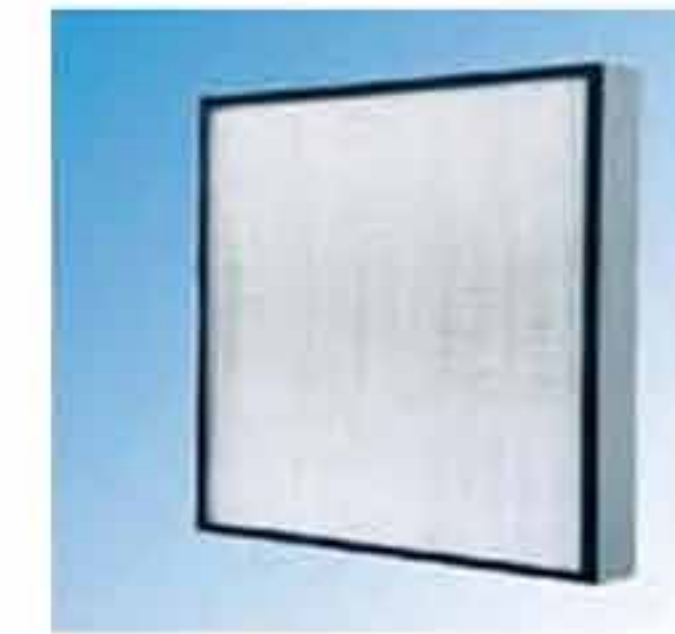## PRIMARY FILTER (Other specifications are available upon request)

Applications: Pre-filters for AHUs and other ventilation systems; Pre-filters for gas turbines; Special industries such as nuclear, defense; Circulation filtration system in clean room; Pre-filters for HEPA filtration systems in limited area.

TECHNICAL PARAMETERS

MPP Panel Filters		
Efficiency	G3	G4 (EN779)
Specifications	Metal frame/Pleated non-woven synthetic media with wire netting on two sides	
Features	Reliable, international dimensions, compact structure, low initial resistance	
Media Surface Area（㎡）	1.2	1.2
Initial Resistance（Pa）	60	85
Rated Air Flow(m³/h)	3400	3400

APP Panel Filters		
Efficiency	G3	G4 (EN779)
Specifications	Aluminum frame/ Non-woven synthetic media	
Features	Reliable, international dimensions, compact structure, low initial resistance	
Media Surface Area（㎡）	0.6	0.6
Initial Resistance（Pa）	80	105
Rated Air Flow(m³/h)	3400	3400

CPP Panel Filters		
Efficiency	G3	
Specifications	Cardboard frame/Pleated non-woven synthetic media with wire netting on down stream sides	
Features	Cheap light, International dimensions, compact structure	
Media Surface Area（㎡）	1.15	2.04
Initial Resistance（Pa）	75	50
Rated Air Flow(m³/h)	3400	3400

VH Minipleat High Velocity Hepa Filters   WuGe Mini-pleat panel HEPA Air Filters

HEPA FILTER (Other specifications are available upon request)

Application: VH filters are usually applied to protect final ULPA panels in cleanrooms. They are also used at critical application such as nuclear power stations, defense industries.		
Efficiency	H13	H13
Specifications	Galvanized steel frame, fiberglass media, hot-melt separator, EPDM gasket	
Features	Higher rated airflow-3400m³/h; high efficiency~H10~H14(EN1822);	
	low pressure drop-compact structure, more media area, no more than 270Pa at rated airflow.	
Initial Resistance（Pa）	260	280
Rated Air Flow(m³/h)	3400	1700

WuGe Mini-pleat panel HEPA Air Filters Application: Clean rooms, FFU, HEPA, diffusers		
Initial Resistance at	H14(99.995%):150	H14(99.995%):150
0.45m/s, Velocity, Pa	H13(99.95%):120	H13(99.95%):120
Specifications	Aluminum frame, fiberglass media, hot-melt separator	
Features	High performance fiberglass media; All filters pass the performance testing before packing.	

ACTIVE CARBON FILTER (Other specifications are available upon request)

TANB Panel Active Carbon
Air Filter-Economic type

Applications: Broadly applied to various air conditions and ventilation systems, removing low concentrations of organic pollutions and odor.		
Frame	Aluminum	
Media	Non-woven synthetic media dipped in active carbon	
Features	Higher capacity sorbents light weight, international dimensions, replaceable media, remove both dust and contaminated gases.	
Initial Resistance（Pa）	70	45
Rated Air Flow(m³/h)	3400	3400