# Fume-Hoods

## FH/DFH Series, Fume Hood

It is the new technical instrument in air condition workshop and clean workshop. And it is widely applicable in electronics, mechanics, medical, and university labs.
Fume hood can be used in operation of potential risk or unknown infected factors, and the experiment of flammability, explosive volatilization and narcotics.
It can protect operator and samples.

**Filter: Carbon.**
**Optional: Chemical filter,**
**Hepa filter.**

FH/DFH

FH/DFH
with stand

| Model | FH10 DFH10 (Ductless) | FH12 DFH12 (Ductless) | FH15 DFH15 (Ductless) |
|---|---|---|---|
| External size (mm) | 1000x750x2200 | 1200x750x2200 | 1500x750x2200 |
| Internal size (mm) | 900x570x745 | 1100x570x745 | 1320x745x800 |
| Application | Provide protection to the operator | | |
| Material | Work surface: solid chemical-resistant laminate | | |
| | Exterior: epoxy coated cold-rolled steel | | |
| Relative humidity | ≤75% | | |
| Ambient temperature | 15°C~35°C | | |
| Control | Microprocessor control with touch buttons | | |
| Front sash | Sliding tempered glass, thickness no less than 5mm | | |
| Duct length | 4m | | |
| Duct collar size | 10 inch | | |
| Inflow velocity | Average 0.5m/s | | |
| Vibration | ≤5μm (rms) between the frequency of 10Hz and 10K Hz | | |
| Noise level | ≤60db | | |
| Lightning | ≥680lux | | |
| Fan | Centrifugal, adjustable speed | | |
| Power | ≤800W | | |
| Power supply | 220V, 50Hz | | |
| Option | Water tap, gas tap, cup sink, etc. | | |
| Compliance | CE | | |

FH-10A

## FH-10A/12A/15A/18A, 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.

### Advantages:
- UV lamp for sterilization
- Adjustable air speed: 9 levels
- Motorized front window, height adjustable
- Microprocessor control system, LED display.

### Features:


**LED Display**


**Waterproof Socket**


**Water & Gas Remote Control**


**Double Layer**
1.2mm sheet metal surface, melamine board inward.

| Model | FH-10A | F-H12A | FH-15A | FH-18A |
|---|---|---|---|---|
| External size (WxDxH) (mm) | 1040x800x2200 | 1240x800x2200 | 1540x800x2200 | 1840x800x2200 |
| Internal size (WxDxH) (mm) | 820x670x730 | 1020x670x730 | 1320x670x730 | 1620x670x730 |
| Work Surface Height | 850mm | | | |
| Max Opening | 500mm | | | |
| Air Velocity | 0.3~0.8m/s | | | |
| Noise | ≤60dB | | | |
| Exhaust Duct | PVC, Standard length: 4 meters. | | | |
| | Ø300mm | | | |
| 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 | 220V±10%, 60/50Hz,   110V±10%, 60Hz | | | |
| Consumption | 400W | | 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: Phenolic resin | | | |
| Standard Accessory | UV lamp*2, Fluorescent lamp, Water tap, Gas tap, Water sink, Base cabinet<br>Total load of 2 waterproof sockets: 500W<br>4 meter PVC exhaust duct, pipe strap | | | |
| Optional Accessory | Active carbon filter | | | |
| Gross Weight | 230kg | 270kg | 370kg | 420kg |
| Package Size (WxDxH) | Main Body | | | |
| | 1190x990x1690 | 1390x990x1690 | 1690x990x1690 | 1990x990x1690 |
| | Base Cabinet | | | |
| | 1290x990x980 | 1390x990x980 | 1690x970x970 | 1990x990x980 |

## FH-10P/12P/15P/18P, PP 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.

### Advantages:
- It is safer to use anti-corrosive water tap.
- Microprocessor control system, LCD display
- Made of porcelain white PP, resistant to strong acid, alkali and anti-corrosion.
- 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.
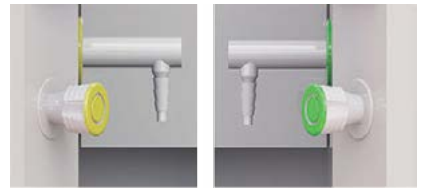
FH-10P

### Features:

LCD Display

Waterproof Socket

PP sink – Resistsnt strong acid,alkali & anti-corrosion
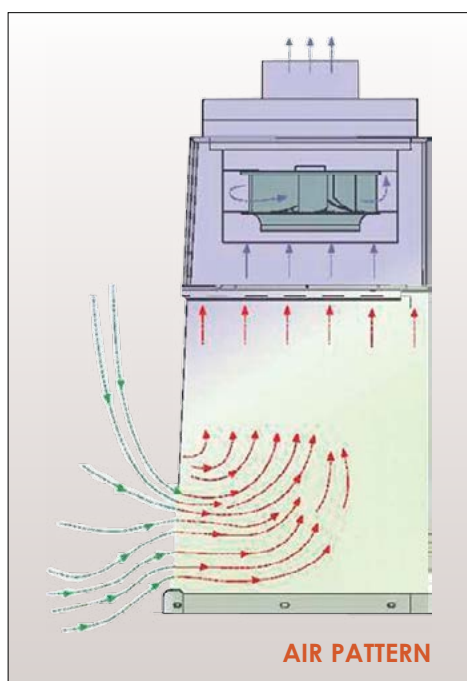
Water & Gas Remote Control

| Model | FH10P | FH12P | FH15P | FH18P |
|---|---|---|---|---|
| External size (WxDxH) (mm) | 1040x750x2200 | 1240x800x2200 | 1540x800x2200 | 1840x800x2200 |
| Internal size (WxDxH) (mm) | 820x520x872 | 1020x570x872 | 1320x570x800 | 1620x570x872 |
| Work Surface Height | 700mm | | | |
| Max Opening | 815mm | | | |
| Air Velocity | 0.4~0.6m/s | | | |
| Noise | ≤60dB | | | |
| Fluorescent Lamp | 12Wx1 | 30Wx2 | | |
| Blower | Built-in axial flow blower; Speed adjustable | | | |
| Front Window | Manual, 5mm toughened glass, height adjustable | | | |
| Power Supply | AC220V±10%, 50/60Hz ; 110V±10%, 60Hz | | | |
| Consumption | 330W | 360W | | |
| Material | Main Body: Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion | | | |
| | Work Table: Chemical resistant phenolic resin | | | |
| Standard Accessory | Fluorescent lamp, Water tap, Gas tap, Water Sink, Base cabinet Waterproof socket*2 4 meter PVC duct, Diameter:250mm | | | |
| Optional Accessory | PP work table, epoxy resin board or ceramic board Outer centrifugal blower, resistant to strong acid, alkali. | | | |
| Gross Weight | 160kg | 198kg | 225kg | 259kg |
| Package Size (WxDxH) — Main Body | 1110x835x1575 | 1310x885x1575 | 1610x885x1575 | 1910x885x1575 |
| Package Size (WxDxH) — Base Cabinet | 1110x790x950 | 1310x840x950 | 1610x840x950 | 1910x840x1575 |

FH-15i

## FH-15i, Fume Hood

FH-Series Fume Hood is the first defense to minimize chemical exposure to research workers. They are considered the primary means of protection from inhalation of hazardous vapors. our FH-Series fume hood has five models.

### Advantage:

●UV lamp. Sterilize the working area ● LCD display screen ● See the air velocity directly ● The fan is inside. Easy to install, save time ● The air velocity is adjustable (6 levels) ● Automatic front window ● Removable work surface ● Easy to clean ● Power switch ● Work Table ● Front window ● Cold water ● Gas gap ● Control panel.

**1.** Front Panel
**2.** Distilled Water
**3.** Vacuum
**4-5.** Sockets
**6.** Base Cabinet
**7.** Control panel
**8.** Work Table
**9.** Front window
**10.** Cold water
**11.** Gaos gap
**12.** Power switch



**CONTROL PANEL**



**AIR PATTERN**

| Model | FH-15i |
|---|---|
| Exterior size (LxWxH) | 1500x900x2500mm |
| Work Area (LxWxH) | 1320x850x950mm |
| Base Cabinet | Height is 720 mm, the exterior size include the cabinet height |
| Protection Class | Class I |
| Protection Type | IP 20 |
| Air Velocity (m/s) | O. 2m/s — 0. 7m/s |
| Noise | ≤ 60dB(A) |
| Exhaust Duct | PVC,standard length: 4 meters |
| Pipe Collar (mm) | (I)290 |
| Fluorescent Lamp | 28Wx1 |
| UV Lamp | 30Wx1 |
| Blower | Centrifugal fan, speed adjustable. The fan inside the Fume Hood |
| Glass window | Two layer toughen glass, 5mm thickness: Motor control, height adjustable |
| Power supply | 110-220V/50-60Hz (optional) |
| Power consumption | 800W |
| Standard Accessory | **Water tap:**One |
| | Water cup:One |
| | Air tap:One |
| | Water proof socket: two |
| Material | Exterior body : Cold-roll steel sheets, coated with anti-bacteria powder<br>Interior: Adopts high grade melamine board with good acid and alkali resistance function<br>Work table: Using Solid Chemical-Resistant board |
| Optional Accessory | HEPA Filter/Carbon active Filter/Chemical Filter |
| Net Weight | 280 kg |
| Gross Weight | 400 kg |
| Package Size | Main body: 1.66x1.11x2.14<br>Base Cabinet: 1.66x1.11x0.9 |

**FHA-1**

## FHA-1, Arm Fume Hood

The movable armhood is used by attaching the armhood to the filter box emits clean air after the noxious substances are filtered, and the air velocity can be adjusted with the controller.

**Airflow:**



- Pre-filter
- HEPA-filter
- Blower
- Clean air
- Contaminated air under negative pressure
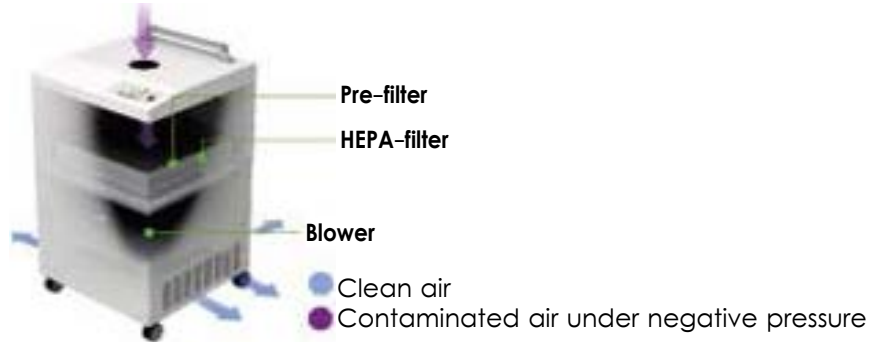
| Model | FHA-1 |
|---|---|
| Size xL (mm) | Ø75 x 1300 |
| Filter box | 500 x 500 x 865 |
| Noise level | 50–60db |

## DustMatic-2000/2001, Dust Drawer



**Protective Pannel**

**DustMatic-2000**

**Easy to change filter bag**



**Large Suction bag**

A dust–suction drawer of optimal quality and design, featuring innumarable advantages & improvements in almost all fields of operation, efficiency, user-friendliness, etc.

- Operation is fully automatic: on starting the micromotor, the drawer starts operating, on stopping the micromotor, suction switches off after 20 seconds have elapsed.
- Ergonomic design and construction with first quality materials.
- The working surface is made of beech-wood, giving it a modern look, and allowing for comfortable working.
- Silent, powerful, maintenance-free low pressure induction motor.
- Large-dimensioned, easy-to-change, filter bag (according to international Standards).
- Small-dimensioned drawer, capable of fitting most lab workbenches, with ample leg-room.
- Low operational costs. Easy to install, requires no special tools or training.



| Model | Power | Air Volume | Size (mm) | Weight | Operation |
|---|---|---|---|---|---|
| 2000 | 100W | 350m³h | 490x510x180 | 14kg | Auto/Manual |
| 2001 | 100W | 350m³h | 490x510x180 | 13.5kg | Manual only |

- Effective suction with large suction bag
- Silent, maintenance free & applicable for continuous operation.
- Easy mountable under every table.

**Applications:**
- Dental
- Ear Phones manufacturer
- Artificial Eye manufacturer
- Archaeology Laboratory
- Beauty manicure
- Jewelry manufacturer.

**Include:**
Suction drawer complete, with micro–respirable dust filter bag & protective panel.



**Protective pannel hood when working with gypsum**



490mm
180mm
510mm
60mm



**Easy mountable under every table**
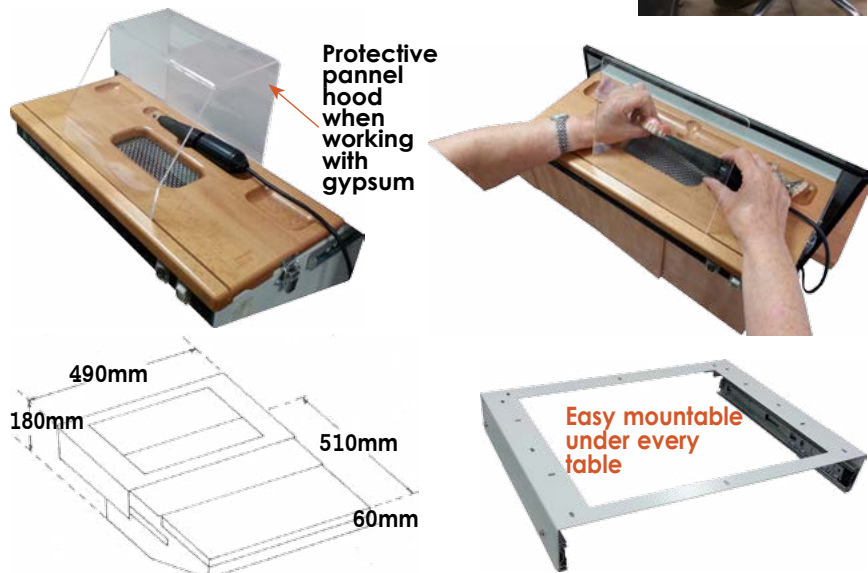
### BBS–13HGS/BBS13VGS, Laminar Airflow Cabinets

| Model | BBS13HGS | BBS13VGS |
|---|---|---|
| External DIM.(mm) | L1300xW825xH2000 | L1310xW825xH2000 including the base stand |
| Working zone size(mm) | L1200xW500xH570 | L1200xW500xH570 |
| HEPA Filter DIM.(mm) | L1223xW570xH69 | |
| Display | Digital airflow display | |
| Hepa filter | HEPA filter with 99.997% efficiency at 0.3 micros | HEPA filter, the filtration performance: 99.99% to 0.5μm |
| Dust | ≤3.5 Granule/L for ≥0.5μm | |
| Noise level | ≤60db | |
| Airflow | Horizontal, 0.3–0.5m/s | Vertical, 0.3–0.5m/s |
| Vibration level | XYZ direct <5μm | |
| UV lamp | 30W x 1 | |
| Light | 28W x 1 | |
| Worktable material | 304 Stainless steel | |
| Consumption | 600W | |
| Power supply | AC 220V, 50Hz | |
| Certification | CE, ISO13485, ISO9001, ISO14001 | |

BBS–13

### BBS–DDS/BBS–SDS, Horizontal Laminar Airflow Cabinets

| Model | BBS-DDS | BBS-SDS |
|---|---|---|
| Protection | Sample | |
| External DIM.(mm) | L1060xW800xH1690 | L1460xW800xH1690 |
| Internal DIM.(mm) | L1040xW500xH650 | L1440xW500xH650 |
| Dust | ≥0.5um≤3.5 granule/L | |
| Clean rate | >99.995% (for 0.3 um) | |
| Air velocity | 0.3–0.5m/s | |
| Noise | <60dB | |
| Vibration | XYZ direct<2 um | |
| Worktable material | 304 Stainless steel | |
| Consumption | 320W | 620W |
| Light | 21Wx1 | 28Wx1 |
| UV lamp | 20Wx1 | 30Wx1 |
| Net Weight | 103kg | 133kg |
| Gross Weight | 150kg | 179kg |

BBS–SDS

### BBS–DDC/BBS–SDC, Vertical Laminar Airflow Cabinets

| Model | BBS-DDC | BBS-SDC |
|---|---|---|
| External DIM.(mm) | L1100xW740xH1740 | L1500xW740xH1740 |
| Internal DIM.(mm) | L940xW540xH630 | L1340xW540xH630 |
| Dust | ≥0.5um≤3.5 granule/L | |
| Clean rate | >99.95% (for 0.5 um) | |
| Air velocity | 0.3–0.5m/s | |
| Noise | <60dB(A) | |
| Vibration | XYZ direct<2 um | |
| Front windows | Tempered glass, no less than 5mm | |
| Worktable material | Stainless steel | |
| Consumption | 340W | 380W |
| Light | 20Wx2 | |
| UV lamp | 20Wx1 | 30Wx1 |

BSC-C1-1/2          BSC-C1-3          BSC-C1-5
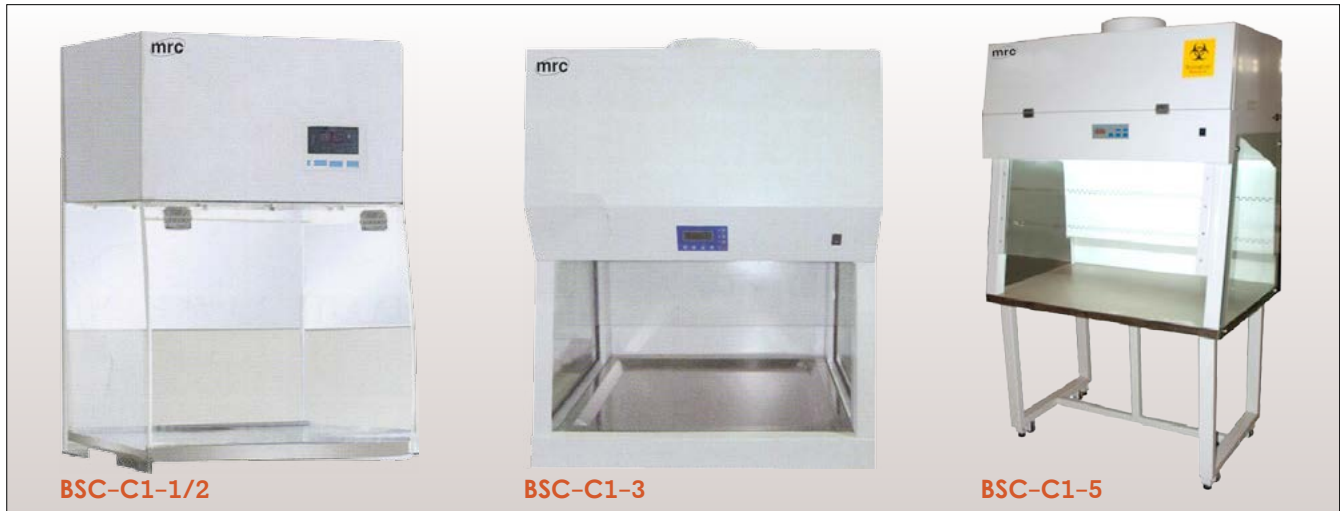
## BSC-C1-1, BSC-C1-2, BSC-C1-3, BSC-C1-5, Class I

The Class I Biosafety cabinet is designed to provide personnel and environmental protection.

● Class I Biosafety Cabinet does not protect the product from contamination because un-purified room air constantly enters into work area.
● As a partial containment unit, the Class I Biosafety Cabinet is suitable for work in low to moderate risk agents (Biosafety Levels 1,2 and 3) where there is a need for control but not for product protection.
● Unlike conventional fume hood, the HEPA filter in the Class I Biosafety Cabinet pro the environment by filtering air before it is exhausted.
● With the negative pressure, personnel protection is made possible by constant move of air into the work area.

### Features:
● Soft touch control panel, LCD display.
● UV lamp for sterilization.
● Stable air flow system.
● provide firm protection to personnel & environment.
● Energy-saving, high efficiency, low noise.
● One piece 304 stainless steel work table, easy for cleaning.



BSC-C1-1/2    BSC-C1-3        BSC-C1-5



Sash

HEPA Filter
■ Room Air
■ Polluted Air
■ HEPA Filtered Air
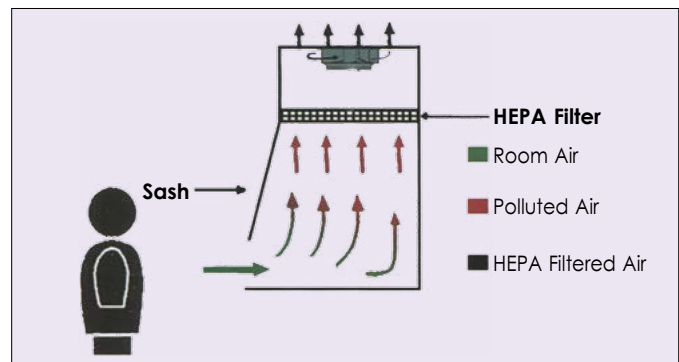
| Model | | BSC-C1-1 | BSC-C1-2 | BSC-C1-3 | BSC-C1-5 |
|---|---|---|---|---|---|
| External Size (WxDxH) | | 550x395x730 mm | 700x550x900 mm | 900x695x1080 mm | 1100x695x1924 mm |
| Internal Size (WxDxH) | | 540x385x450 mm | 680x450x500 mm | 768x690x580 mm | 968x695x630 mm |
| HEPA Filter | | 99.999% efficiency at 0.3um | | | |
| Airflow Velocity | | 0.38 m/s 0.6 m/s | | | |
| Noise | | < 55 dB | | | |
| Fluorescent Lamp | | 15W*1 | 18W*1 | 14W*2 | 21W*1 |
| UV Lamp | | 15W*1 | 18W*1 | 20W*1 | 20W*1 |
| Consumption | | 150W | 160W | 180W | 400W |
| Base Stand | | No | | | 738 mm height |
| caster | | No | | | Universal wheel |
| Power Supply | | 110/220V ± 10%, 50/60Hz | | | |
| Material | Main Body | PMMA | | Cold-rolled steel coated with anti- bacteria powder | |
| | Work Table | 304 stainless steel | | | |
| | Base Stand | No | | | Cold-rolled steel |
| Standard Accessory | | Fluorescent Lamp, UV Lamp | | | + Base Stand |
| Gross Weight | | 40 kg | 60 kg | 100 kg | 150 kg |
| Package Size (WxDxH) | | 755x600x950 mm | 950x700x1125 mm | 1050x850x1280 mm | 1250x840x2250 mm |

## FH-PCR-01, PCR Cabinet



FH-PCR-01

PCR Cabinet is equipment that makes a partial clean air environment, its air current is vertical. It has applied to semiconductor industry, pprecision instrument, electronic component, optics apparatus, chemical industry, metallurgy and refining magnetic material, micro-organism studies, medical science, research and some other departments. It is useful to increase the quality, precision, stability and reliability of products.

| Model | FH-PCR-01 |
|---|---|
| External DIM.(mm) | L1000xW695xH1720 |
| Working zone size(mm) | L996xW685xH630 |
| Material | Epoxy coated cold-rolled steel, work area is 304 stainless steel |
| Side Panel | loughened glass, not less than 5mm |
| Pre-filter | One piece pre-filter |
| Main Filter | Hepa filter with 99.99% efficiency for ≥0.3um dust |
| Air Speed | Vertical airflow speed: 0.3-0.5m/s |
| Noise | ≤65dB |
| Glass Door | toughened glass door, not less than 5mm |
| UV lamp | 20W x 1 |
| Fluorescent Light | 40W x 1, intensity >650Lux |
| Truckle | 4 Truckles, remove the cabonet easily |
| Base Stand Height | 650mm |
| Power | 380W |
| Weight | Net weight: 130kg, Gross weight: 170kg |
| Power Supply | 220V, 50Hz/110V, 60Hz |

## BSC-8, Class II



BSC-8

- Small dimension, easy to move.
- Germany fan, speed adjustable; American filters.
- Large LCD display. Operators can find detailed status of the cabinet, such as inflow and down flow velocity/work area temp. & humidity/filter pressure,UV working time and filter working time/ filter changing etc.
- Time reserve function. This can save half an hour waiting time after activating the cabinet and the sterilization time after experiment finishing.
- Remote control. Every function can be realized 6 meters away from the cabinet by remote control, this can protect the operator under emergency
- Automatic front window. One finger can adjust the height of front window.
- Voice prompt function.

| Model | BSC-8 |
|---|---|
| External Size | 700x650x1230 mm |
| Internal Size | 600x500x540 mm |
| Tested Opening | Safety Height ≤200 mm |
| Max Opening | 400 mm |
| Inflow Velocity | 0.53 m/s |
| Down flow Velocity | 0.33 m/s |
| Filter | Two HEPA filters, 99.999% efficient (0.3 microns) |
| Front Windows | Two-layer toughened glass, 5mm |
| UV Lamp | 18W*1 |
| Fluorescent Lamp | 14W*1 |
| Lighting (Lux) | 680 |
| Noise | ≤ 65dB |
| Power (W) | 1000 |
| Waterproof Socket | 2 |
| Display | LCD display |
| Control System | Microprocessor |
| Material | Work zone: 304 stainless steel. |
| | Body: Expoxy coated cold rolled steel. ABS front panel. |
| Clean Level | 100 |
| Weight | Net weight: 80kg |
| | Gross weight: 110kg |
| Package Size | 950x850x1430 mm |
| Standard Configuration | Body, UV lamp and Fluorescent lamp |
| Optional Accessory | Base stand, Armrest, Formalin fumigation sterilizer, Ammonium hydrogen carbonate neutralizer, Air curtain tester |

BSC-9

## BSC-9, Class II

1. ABS front panel.
2. Control panel & LCD display.
3. Safety Power Lock
4. Fluorescent lamp (Behind the cover).
5. UV lamp.
6. Sockets.
7. Water &, Gas tap.
8. Working Area.
9. Base stand.
10. Remote Control .
11. Draining Valve.
12. Foot Switch.



Fluorescent light
Waterproof Sockets
Blower
Exhaust filter pressure
Downflow filter pressure
Filter Working Time
UV Working Time
Time Reservation

UV lamp
Foot switch
Inflow velocity
Work area humidity
Work area temp.
Cabinet working time
Voice Prompt
Down flow velocity
Filter Life Indicator

| Model | BSC-9 |
|---|---|
| External/Internal size(mm) | 1380 × 750 × 2290 mm / 1220 × 600 × 660 mm |
| Tested/ Working Opening | Safety Height ≤ 200 mm / 400 mm |
| Inflow Velocity | Inflow: 0.53 m/s / Down flow: 0.33  m/s |
| Filter | Two HEPA filters, Efficiency 99.999% at 0.3 microns |
| Front Window | Motorized. Two-layer toughened glass  > 5  mm |
| Noise | EN 12469 ≤ 58 dB, NSF/ANSI 49 ≤ 61 dB |
| UV/ Fluorescent lamp | 30 W*1 / 40 W*2 |
| Illumination | ≥ 1000 Lux |
| Water and Gas Tap | Water Tap: 1, Gas Tap: 1 |
| Waterproof Socket | 2*250W (max) |
| Display | LCD Display |
| Control/Airflow System | Microprocessor / 70% air recirculation, 30% air exhaust |
| Material | Work zone interior is made of 304 stainless steel, Main Body: Cold rolled steel with anti-bacteria powder coating |
| Base stand | Height is 635 mm |
| caster Wheel | Universal Wheel |
| Consumption | 600W |
| Power Supply | 110~240 V/50~60 Hz (optional) |
| Gross weight | 400 kg |
| Standard Configuration | Remote control, Foot switch, UV lamp, Fluorescent Lamp, Base stand |

- Large LCD display. You can find all the information on the screen.
- Remote Control. Every function can be realized 6 meters away from the cabinet by remote control, which can protect the operators under emergency.
- Automatic front window. One finger can adjust the height of front window.
- Time reserve function. It can save half an hour waiting time after you active the cabinet & the sterilization waiting time after experiment finishing.
- Negative pressure plenum surrounds contaminated positive pressure plenum.
- Digital display of air pressure, air velocity and temperature.
- Voice prompt function.

## Biological Safety Cabinet

### Biological Safety Cabinets
- Each cabinet is tested by college of military science.
- Environment test: cabinets are tested under the cruel environment range from –40℃–50℃, and humidity range from 5%–100%.

### Biosafety Performance
- Biosafety, and operators safety: impact sampling colony number ≤10CUF/time.
- Slit sampling colony number ≤5CUF/time.
- Product safety: colony number ≤5CUF/time.
- Cross contamination: colony number ≤2CUF/time.

### Motor
- Thermal protection device assure the steady in 1.15 times of voltage rating.
- Actuator is installed behind the demountable or lockable control panel.

## Material
- Operation interior surface is made of 300 Series stainless steel.
- Front panel is made of toughened glass, which won't be negative effected by cleaning and sterilization. Thickness of front panel is no less than 5mm.
- For 0.3μm particulate, the filter efficiency is ≥99.999%, which meet the demand of temperature, humidity, corrosion proof and mechanical strength.
- Filter material is made of superfine fiberglass, which will not cause adverse impact on personnel, environment and facility.

## Front Operation Area
- The structure of front panel avoids danger to operator when sliding system can't work correctly.
- Alarm device assure the safety of experiments in the specialized range.

## HEPA Filter Leak Proof
- The filterability of every point measuring the filterable substance that can be scanned and detected is no more than 0.01 %.
- The filterability of every point measuring the filterable substance that can't be scanned and detected is no more than 0.005%.

## Exclusive Four Patents
- New appearance.
- Reserve timing.
- Remote control.
- High light VFD display.

BSC–87

## BSC–85 BSC–86, BSC–87, Class II

The Class II Biological Safety Cabinet is designed with inward air flow at a velocity to protect personnel, HEPA filtered vertical laminar air flow for product protection, and HEPA filtered exhausted air for environmental protection.

● Adjustable base stand, height range:630–845mm.
● One Piece removable work table, V type intake grille (BSC–85/87).
● Large LCD display. You can find all information on the screen (BSC–85/87).
● VFD display: it can demonstrate various colors with high bright, even in the evening. It can work no less than 30,000 hours continually (BSC–86).
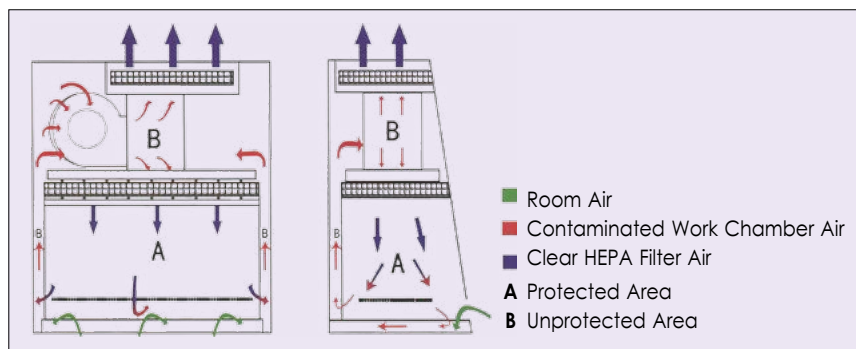
1. Biohazard Label.
2. LCD display / VFD Display.
3. Power Lock.
4. Handle.
5. Water & Gas Tap.
6. Waterproof Socket.
7. V Type Intake Grille.
8. Adjustable Base Stand.



■ Room Air
■ Contaminated Work Chamber Air
■ Clear HEPA Filter Air
A Protected Area
B Unprotected Area



| Water & Gas Tap | Waterproof Socket | V Type Intake Grille | LCD display | VFD Display |

| Model | BSC–85 | BSC–86 | BSC–87 |
|---|---|---|---|
| External size (upper body) (WDH mm) | 1100x740x1550 | 1421x850x1550mm | 1886x750x1555 |
| Internal size (WDH mm) | 914x600x610 | 1220x665x650mm | 1700x600x610 |
| Base Stand | Adjustable height, range: 630mm–845mm | | |
| Max Opening | 450mm (20″) | | |
| Tested Opening | Safety Height ≤ 200mm (8″) | | |
| Average Airflow Velocity | Inflow Velocity: 0.53 m/s(105 fpm) | | |
| | Downflow Velocity: 0.35 m/s(70 fpm) | | |
| Airflow Volume — Inflow | 349 m³/h (205 cfm) | 465 m³/h (275 cfm) | 649 m³/h (382 cfm) |
| Airflow Volume — Down flow | 61%: 550 m³/h (323 cfm) | 67%: 956 m³/h (571 cfm) | 61%: 1006 m³/h (592 cfm) |
| Airflow Volume — Exhaust | 39%: 349 m³/h (205 cfm) | 33%: 465 m³/h (275 cfm) | 39%: 649 m³/h (382 cfm) |
| HEPA Filter | Efficiency 99.999% at 0.3 um | | |
| Noise | NSF 49 ≤ 61 dB / EN 12469 ≤58 dB | | |
| Illumination | >850Lux | | |
| Material | Working Area: 1.5mm 304 stainless steel and outside decorative plate | | |
| | Frame: Cold–rolled steel sheets with electrostatic coating | Frame: Cold–rolled steel with anti–bacteria powder coating | Frame: Cold–rolled steel sheets with electrostatic coating |
| Motors | One ECM motor | | |
| | Speed adjustable, high efficiency and low power consumption, 110V & 220V acceptable | | |
| Glass Control | Manual | Motorized | Manual |
| Display | LCD | VFD | LCD |
| UV | 18 W germicidal UV lamp | 30 W germicidal UV lamp | 40 W germicidal UV lamp |
| | Emission of 253.7 nanometers for most efficient decontamination | | |
| Waterproof Socket | One, 5 holes, 500W(Max) | | |
| Tap | Water Tap*1, Gas Tap*1 | | |
| Filter Guard Type | Aluminium Alloy | | |
| Ground Resistance | < 0.10 Ω | | |
| Consumption | 260 W | 400 W | 300 W |
| Power Supply | AC 220V–110V, 50Hz/60Hz, Full load Amps: 9A, BTu/Hr. 1689 | | |
| Standard Accessory | Fluorescent lamp, UV lamp, 5m Power cord, Fuse tube(six), Base stand, SS water & gas taps | | |
| Package Size (WxDxH) | 1250x915x1890 mm | 1600x1050x1870 mm | 2040x915x1920 mm |
| Gross Weight | 280 kg | 330 kg | 380 kg |

## BSC7IIA2/BSC11IIA2X/BSC13IIA2X/BSC15IIA2X/BSC18IIA2X, Class II

The Class II Biological Safety Cabinet is designed with inward air flow at a velocity to protect personnel, HEPA-filtered vertical laminar airflow for product protection, and HEPA-filtered exhausted air for environmental protection.

CE, ISO13485 ISO9001, ISO14001

Room Air
Polluted Air
HEPA A Filted Air
A Protected Area
B Unprotected Area
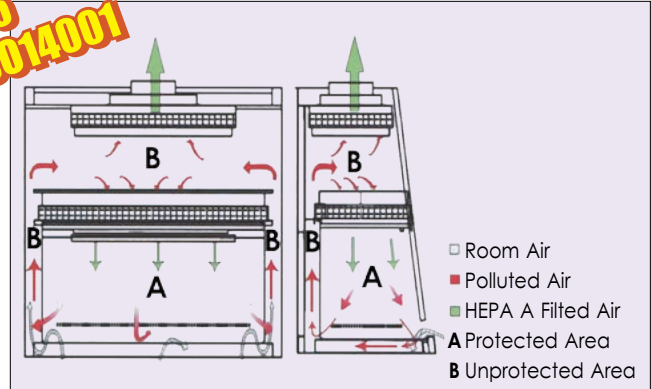
| Model | BSC7IIA2 | BSC11IIA2X | BSC13IIA2X | BSC15IIA2X | BSC18IIA2X |
|---|---|---|---|---|---|
| External size (WDH mm) | 700x500x1200 | 1100x850x2200 | 1300x850x2200 | 1500x850x2265 | 1800x850x2300 |
| Internal size (WDH mm) | 600x400x580 | 900x600x660 | 1100x600x660 | 1300x600x660 | 1600x600x660 |
| Tested Opening | Safety Height ≤200mm | | | | |
| Max Opening | 400mm | | | | |
| Inflow velocity | 0.53m/s | | | | |
| Down Flow velocity | 0.33m/s | | | | |
| Filter | Two Hepa filter with 99.999% efficiency at 0.3 micros | | | | |
| Front Window | Two-layer toughened glass >5mm | | | | |
| Noise level | ≤65dB | | | | |
| Material | Work zone interior is made of 304 stainless steel. Body: epoxy coated cold rolled steel | | | | |
| Base (Optional) | Height: 635mm | | | | |
| Control system | Microprocessor | | | | |
| Display | LED display | VFD display | | | |
| Airflow System | 70% air recirculation, 30% air exhaust | | | | |
| Caster Wheel | Universal Wheel | Directional Wheel | | | |
| Clean level | 100 | | | | |
| Lightning | 680Lux | 800Lux | | | |
| UV lamp | 15W x 1 | 20W x 1 | 20W x 1 | 30W x 1 | 30W x 1 |
| Fluorescent lamp | 40W x 1 | 21W x 1 | 21W x 1 | 28W x 2 | 28W x 2 |
| Power (W) | 800 | 1200 | | | 1500 |
| Water & Gas Tap | 0 | Water Tap: 1    Gas Tap: 1 | | | |
| Waterproof Socket | 2 | | | | |
| Electrical | 110V~ 240V/50Hz~60Hz (optional) | | | | |
| Net weight (kg) | 80 | 240 | 280 | 365 | 380 |
| Gross weight (kg) | 110 | 290 | 310 | 430 | 450 |
| Package (mm) | 950x850x1430 | 1250x1050x1870 | 1450x1050x1870 | 1640x1040x1860 | 1940x1050x1960 |
| Standard Configuration | Body, UV & fluorescent Lamp | Body, Remote control, Foot switch, UV lamp & Fluorescent Lamp, Base Stand | | | |
| Optional Accessory | Armrest, Air curtain tester, Formalin fumigation sterilizer, Ammonium hydrogen carbonate neutralizer | | | | |

### BSC11IIB2X/BSC13IIB2X/BSC15IIB2X, Class II

Class II B2 Biosafety Cabinets feature downflow air drawn from within the laboratory. No downflow air is drawn from the cabinet exhaust air. All downflow & inflow air is exhausted through a HEPA filter without recirculation within the cabinet. All contaminated ducts and plenums are maintained at negative pressure. The Type B2 Biosafety Cabinet may be used for work with volatile toxic chemicals and radionuclides as required as adjuncts to microbiological studies.

BSC11IIB2X

- ☐ Room Air
- ■ Polluted Air
- ■ HEPA A Filted Air
- **A** Protected Area
- **B** Unprotected Area
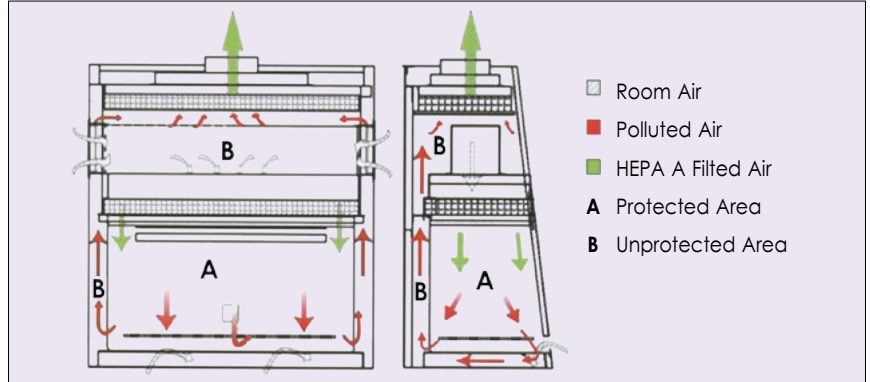
Exhaust Blower  Remote Control  LCD Display  VFD Display

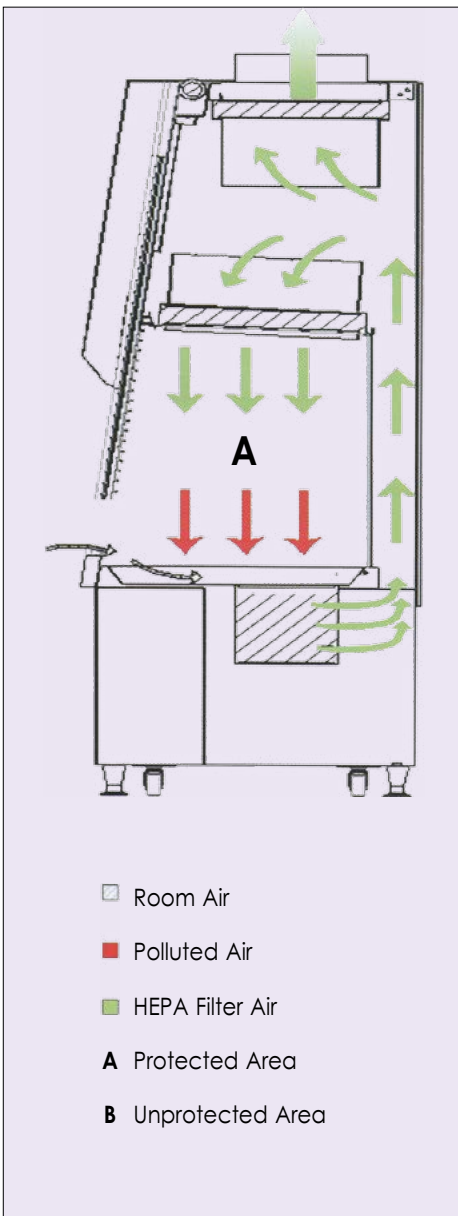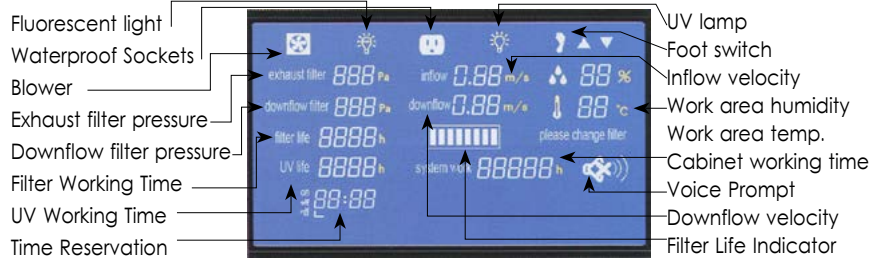| Model | BSC11IIB2X | BSC13IIB2X | BSC15IIB2X | BSC18IIB2X |
|---|---|---|---|---|
| External size (WDH mm) | 1100x850x2200 | 1300x850x2200 | 1500x850x2200 | 1800x850x2200 |
| Internal size (WDH mm) | 900x600x660 | 1100x600x660 | 1300x600x660 | 1600x600x660 |
| Tested Opening / Max Opening | Safety Height ≤200mm / 400mm | | | |
| low velocity / Down Flow velocity | 0.53m/s / 0.33m/s | | | |
| Pre–filter / Filter | Washable / Two Hepa filter with 99.999% efficiency at 0.3 micros | | | |
| Front Window | Two–layer toughened glass >5mm | | | |
| Noise level | ≤65 dB | | | |
| Material | Work zone interior is made of 304 stainless steel. | | | |
| | Body: expoxy coated cold rolled steel | | | |
| Base Height | 635mm | | | |
| Control system / Caster Wheel | Microprocessor / Directional Wheel | | | |
| Display | VFD display | | | |
| Airflow System | 0% air recirculation, 100% air exhaust | | | |
| Exhaust Duct | Material PVC   Diameter: 300mm | | | |
| Clean level / Lightning | 100 / 800Lux | | | |
| UV lamp | 20W x 1 | 20W x 1 | 30W x 1 | 30W x 1 |
| Fluorescent lamp | 21W x 1 | 21W x 1 | 28W x 1 | 30W x 1 |
| Water & Gas Tap / Waterproof Socket | Water Tap: 1, Gas Tap: 1 / 2 | | | |
| Electrical / Power (W) | 110V~ 240V/50Hz~60Hz (optional) / 1500 | | | |
| Net weight (kg) | 275 | 320 | 350 | 375 |
| Gross weight (kg) | 350 | 360 | 440 | 470 |
| Package (mm) Main Body | 1250x1050x1870 | 1450x1050x1870 | 1640x1040x1860 | 1940x1050x1860 |
| Package (mm) Exhaust Blower | 1100x1000x900 | 700x600x1000 | 700x600x1000 | 1060x970x580 |
| Standard Configuration | Body, Remote control, Foot switch, UV lamp & Fluorescent Lamp, 4 meters, Exhaust duct, 1 exhaust blower, Base Stand | | | |
| Optional Accessory | Armrest, Air curtain tester, Formalin fumigation sterilizer, Ammonium hydrogen carbonate neutralizer | | | |

**BSC-CY-4, Class II Biosafety Cabinet**

The MRC Cytotoxic Safety Cabinet is the premium solution for cytotoxic/ antineoplastic drug processing, providing the highest level of patient, pharmacist and environmental protection. This revolutionary product builds on MRC's experience of more than 10 years as an expert in biosafety containment technology.

The unique demands of handling and preparing cytotoxic drugs for use in chemotherapy require a specialized cabinet. As cytotoxic drugs cannot be inactivated by chemical decontamination, Class II biosafety cabinets should not be used. With this in mind MRC has developed a highly specialized range of cabinets designed especially for handling these potentially dangerous drugs

BSC-CY-4

Fluorescent light
Waterproof Sockets
Blower
Exhaust filter pressure
Downflow filter pressure
Filter Working Time
UV Working Time
Time Reservation

UV lamp
Foot switch
Inflow velocity
Work area humidity
Work area temp.
Cabinet working time
Voice Prompt
Downflow velocity
Filter Life Indicator

□ Room Air
■ Polluted Air
■ HEPA Filter Air
**A** Protected Area
**B** Unprotected Area

| Model | BSC-CY-4 | |
|---|---|---|
| External size (WDH mm) | 1220x600x630 mm | |
| Internal size (WDH mm) | 1370x760x2100 mm | |
| Tested Opening | Safety Height < 200mm | |
| Max Opening | 480mm | |
| Average Airflow Velocity | Inflow: 0.46 m/s | |
| | Downflow: 0.33 m/s | |
| Internal Work Area, Space | 0.73m² | |
| Exhaust Volume With Thimble Duct | CBV Exhaust Volume | 611 m³/h (360 cfm) |
| | Static Pressure at CBV | 39 Pa / 0.15 in H20 |
| Air Supply Filter | ULPA filter, efficiency 99.999% between 0.1~0.2 um | |
| Exhaust Filter | 2 pieces ULPA filter, efficiency 99.999% between 0.1~0.2 um | |
| Front Window | Two-layer laminated toughened glass | |
| Noise | ≤ 62 dB | |
| UV Lamp | 30W*1 | |
| fluorescent Lamp | 28W*2 | |
| Illumination | ≥ 1000 Lux | |
| Consumption | ≤ 700 W | |
| Water & Gas Tap | Water Tap* 1; Gas Tap*1 | |
| Socket | 2 Waterproof Socket: 2x250W (Max) | |
| Display | LCD Display | |
| Control System | Microprocessor | |
| Material | Work Area: 304 stainless steel | |
| | Main Body: Cold-rolled steel with anti-bacteria powder | |
| Caster | Universal wheel | |
| Power Supply | 110/220V±10%, 50/60Hz | |
| Standard Accessory | Remote control, Foot switch, UV lamp, Fluorescent lamp, Waterproof socket | |
| Optional Accessory | Armrest, Air curtain tester, Formanlin fumigation sterilizer, Infrared Sterilizer | |
| Gross Weight | 400kg | |
| Package Size (WxDxH) | 1570x950x2220 mm | |

**BSC15IIIX**



**BSC11IIIX**

**1.** Power Switch.
**2.** Control Panel.
**3.** Pressure Meter.
**4.** Pass Box.
**5.** Gloves.
**6.** Draining Valve.



**Pressure Meter**
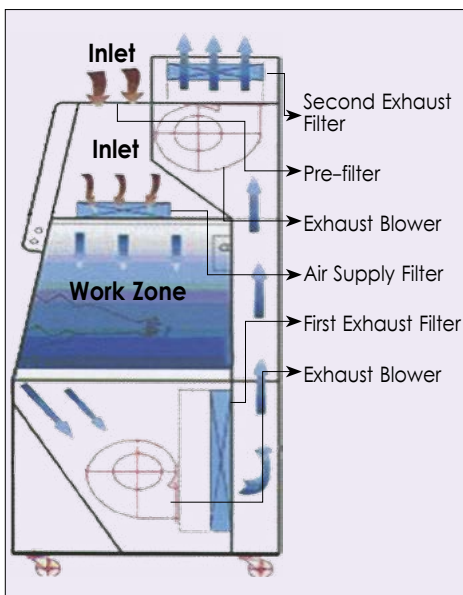


## BSC15IIIX, BSC11IIIX, Class III

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. It is designed for work with level 4 pathogens and provide an alternative to the positive-pressure suit made for maximum containment laboratories.

- Exhaust air is double-filtered through high-quality ULPA filters with typical efficiency of 99.999% for 0.12um particles, better than HEPA filters.
- An angled cabinet front ensures an ergonomic working posture.
- Cabinet operates at negative pressure relative to the laboratory in order to prevent migration of pathogenic materials out of the work area.
- It effectively sterilizes work area with UV installed inside.
- Different sizes upon request.

| Model | BSC-11IIIX | BSC-15IIIX |
|---|---|---|
| **External Size (WxDxH)** | 1100x800x1600 mm | 1340x850x2100 mm |
| **Internal Size (WxDxH)** | 750x560x600 mm | 1240x650x650 mm |
| **Pass Box Size (WxDxH)** | Internal:390x380x330mm | Internal:400x390x340mm |
| | External:470x420x400mm | External:480x400x400mm |
| **Gloves** | One pair. 800 mm butyl rubber gloves | |
| **Front Window** | 8 mm toughened glass, anti-ultraviolet radiation | |
| **Display** | LCD display | |
| **Pre-filter** | Polyester fibre, washable | |
| **ULPA Filter** | Air supply filter: Efficiency 99.999% at 0.12um | |
| | First exhaust filter: Efficiency 99.999% at 0.12um | |
| | Second exhaust filter: Efficiency 99.999% at 0.12um | |
| **UV Lamp** | 20W*1, 8W*1 | 30W*1, 8W*1 |
| **Fluorescent Lamp** | 14W*1 | 28W*2 |
| **Noise** | <63dB | |
| **Airflow Volume** | 240-470 cfm | |
| **Main Material** | 304 stainless steel | |
| **Pressure** | -120 Pa | |
| **Alarm** | Visual and Audio alarm | |
| **Illumination** | >800Lux | |
| **Power Supply** | 110/220V±10%, 50160Hz | |
| **Consumption** | 400W | 700W |
| **Gross Weight** | 250kg | 395kg |
| **Package Size (WxDxH)** | 1380x950x1770 mm | 2000x1000x2220 mm |
| **Standard Accessory** | UV lamp, Fluorescent lamp, Remote control, Gloves, Pressure meter, Drain valve | |