



# **BIO SAFETY CABINET**

## **CLASS II A2 LBS2-A2 SERIES**

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Biosafety Cabinet Class II A2 LBS2-A20 offers maximum opening of 420 mm (17 inch) and tested opening of safety height 200 mm(8 inch). Designed with UV life indicator and ULPA filter, two in number, 99.999% efficiency at 0.12 um. Built in with foot switch to avoid airflow turbulence caused by arm movement, motorized front window of two layered laminated toughened glass and anti UV, UV lamp for most efficient decontamination and remote control with all functions for easier and convenient operation. Features airflow system of 30% air exhaust and 70% air recirculation and three protection such as sample, environment and operator. Incorporated with interlock function for blower and front window, UV lamp and front window, UV lamp and blower and LED lamp.

Biosafety Cabinet Class II A2 LBS2-A21 is designed with UV life indicator and ULPA filters of two, 99.999 % efficiency at 0.12 um. Offers maximum opening of 420 mm (17 inch) and tested opening of safety height 200 mm(8 inch). Incorporated with interlock function for blower and front window, UV lamp and front window, UV lamp and blower and LED lamp. Built in with foot switch to avoid airflow turbulence caused by arm movement, motorized front window of two layered laminated toughened glass and anti UV, UV lamp for most efficient decontamination and remote control with all functions for easier and convenient operation. Features airflow system of 30% air exhaust and 70% air recirculation and three protection such as sample, environment and operator.

Biosafety Cabinet Class II A2 LBS2-A22 is built in with foot switch to avoid airflow turbulence caused by arm movement, motorized front window of two layered laminated toughened glass and anti UV, UV lamp for most efficient decontamination and remote control with all functions for easier and convenient operation. Offers maximum opening of 500 mm (20 inch) and tested opening of safety height 200 mm(8 inch). Features airflow system of 30% air exhaust and 70% air recirculation and three protection such as sample, environment and operator. Incorporated with interlock function for blower and front window, UV lamp and front window, UV lamp and blower and LED lamp. Designed with UV life indicator and ULPA filters of two, 99.999 % efficiency at 0.12 um.

Biosafety Cabinet Class II A2 LBS2-A23 offers maximum opening of 550 mm (22 inch) and tested opening of safety height 200 mm(8 inch). Incorporated with interlock function for blower and front window, UV lamp and front window, UV lamp and blower and LED lamp. Built in with foot switch to avoid airflow turbulence caused by arm movement, motorized front window of two layered laminated toughened glass and anti UV, UV lamp for most efficient decontamination and remote control with all functions for easier and convenient operation. Designed with UV life indicator and ULPA filters of two, 99.999 % efficiency at 0.12 um. Features airflow system of 30% air exhaust and 70% air recirculation and three protection such as sample, environment and operator.

## FEATURES

- Managed and monitored by an integrated microprocessor controller
- Large LCD digital display for ease of monitoring all safety parameters
- Incorporated with memory function in case of power-failure
- Work zone made up of 304 stainless steel
- Built in with time reserve function, automatic air speed adjustable with filter block and interlock function
- Integrated with visual and audible alarm for abnormal airflow velocity, filter replacement, front window at unsafe height
- Designed with universal caster with brake and leveling feet
- Easy to use, operate and maintain
- Easy to clean, corrosion resistant, stainless steel lining
- Incorporated with air vent (LBS2-A20 and LBS2-A22)

## APPLICATIONS

Biosafety Cabinet Class II A2 is widely used in pathology, research laboratories, universities, colleges and hospitals. It is suitable to use for microbiology research in absence of volatile, toxic chemicals and radionuclide.

SPECIFICATION

Model No	LBS2-A20	LBS2-A21
Tested Opening	Safety height of 200 mm (8 inch)	Safety height of 200 mm (8 inch)
Maximum Opening	420mm (17 inch)	420mm (17 inch)
Inflow Velocity	0.53 ± 0.025 m/s	0.53 ± 0.025 m/s
Down Flow Velocity	0.33 ± 0.025 m/s	0.33 ± 0.025 m/s
ULPA Filter	Two, 99.999% efficient at 0.12 um, filter life indicator	Two, 99.999% efficient at 0.12 um, filter life indicator
Front Window	Motorized, two-layer laminated toughened glass ≥ 5 mm, anti UV	Motorized, two-layer laminated toughened glass ≥ 5 mm, anti UV
Noise	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB
UV Lamp	30 W×1 UV timer, UV life indicator, emission of 253.7 nanometres for most efficient decontamination	30 W×1 UV timer, UV life indicator, emission of 253.7 nanometres for most efficient decontamination
Illuminating Lamp	12 W×2 LED Lamp	12 W×2 LED Lamp
Illumination	≥ 1000Lux	≥ 1000Lux
Consumption	760W	800W
Waterproof Sockets	Two, total load of two sockets: 500W	Two, total load of two sockets: 500W
Display	CD display: exhaust filter and down flow filter pressure, filter and UV lamp working time, inflow and down flow velocity, filter life, humidity and temperature, system working time etc.	CD display: exhaust filter and down flow filter pressure, filter and UV lamp working time, inflow and down flow velocity, filter life, humidity and temperature, system working time etc.
Control System	Microprocessor	Microprocessor
Airflow System	70% air recirculation, 30% air exhaust	70% air recirculation, 30% air exhaust
Visual and audio alarm	Filter replacement, front window at unsafe height, abnormal airflow velocity	Filter replacement, front window at unsafe height, abnormal airflow velocity
Material	Work Zone: 304 stainless steel	Work Zone: 304 stainless steel
	Main Body: Cold-rolled steel with anti-bacteria powder coating	Main Body: Cold-rolled steel with anti-bacteria powder coating
Work Surface Height	750mm	750mm
Caster	Foot master caster	Foot master caster
Power Supply	AC220 V ± 10%, 50/60 hz; 110 V ± 10%, 60 hz	AC220V±10%, 50/60 hz; 110V ± 10%, 60 hz
Internal Size	940×600×660 mm	1150×600×660 mm
(W×D×H)		

External Size	1100×750×2250mm	1300×750×2250mm
(W×D×H)		
Package Size	1220×1000×1840 mm	1460×1050×1800 mm
(W×D×H)		
Gross Weight	243kg	280 kg

Model No	LBS2-A22	LBS2-A23
Tested Opening	Safety height of 200 mm (8 inch)	Safety height of 200 mm (8 inch)
Maximum Opening	500mm (20 inch)	550mm (22 inch)
Inflow Velocity	0.53 ± 0.025 m/s	0.53 ± 0.025 m/s
Down Flow Velocity	0.33 ± 0.025 m/s	0.33 ± 0.025 m/s
ULPA Filter	Two, 99.999 % efficient at 0.12 um, filter life indicator	Two, 99.999% efficient at 0.12 um, filter life indicator
Front Window	Motorized, two-layer laminated toughened glass ≥ 5 mm, anti UV	Motorized, two-layer laminated toughened glass ≥ 5 mm, anti UV
Noise	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB	EN12469 ≤ 58 dB / NSF49 ≤ 61 dB
UV Lamp	40 W×1 UV timer, UV life indicator, emission of 253.7 nanometres for most efficient decontamination	40 W×1 UV timer, UV life indicator, emission of 253.7 nanometres for most efficient decontamination
Illuminating Lamp	16 W×2 LED Lamp	16 W×2 LED Lamp
Illumination	≥ 1000Lux	≥ 1000Lux
Consumption	900W	900W
Waterproof Sockets	Two, total load of two sockets: 500W	Two, total load of two sockets: 500W
Display	CD display: exhaust filter and down flow filter pressure, filter and UV lamp working time, inflow and down flow velocity, filter life, humidity and temperature, system working time etc.	CD display: exhaust filter and down flow filter pressure, filter and UV lamp working time, inflow and down flow velocity, filter life, humidity and temperature, system working time etc.
Control System	Microprocessor	Microprocessor
Airflow System	70% air recirculation, 30% air exhaust	70% air recirculation, 30% air exhaust
Visual and audio alarm	Filter replacement, front window at unsafe height, abnormal airflow velocity	Filter replacement, front window at unsafe height, abnormal airflow velocity
Material	Work Zone: 304 stainless steel	Work Zone: 304 stainless steel
	Main Body: Cold-rolled steel with anti-bacteria powder coating	Main Body: Cold-rolled steel with anti-bacteria powder coating
Work Surface Height	750mm	750mm
Caster	Foot master caster	Foot master caster

Power Supply	AC220 V ± 10%, 50/60 hz; 110 V ± 10%, 60 hz	AC220V±10%, 50/60 hz; 110V ± 10%, 60 hz
Internal Size	940×600×660 mm	1150×600×660 mm
(W×D×H)		
External Size	1350×600×660mm	1700×600×660mm
(W×D×H)		
Package Size	1630×1000×1820mm	2000×950×1820 mm
(W×D×H)		
Gross Weight	315kg	395kg

### STANDARD ACCESSORY

Sr.No	Name of the Accessory	Unit
1.	Illumination LED Lamp	2
2.	UV Lamp	1
3.	Base Stand	1
4.	Remote Control	1
5.	Foot Switch	1
6.	Drain Valve	1
7.	Waterproof Sockets	2

### OPTIONAL ACCESSORY

Sr. No.	Name of the Accessory
1.	Electric Height Adjustable Base Stand