



# COMPLETE ENVIRONMENTAL SOLUTIONS



**Air, Sound, Water, Soil Pollution Monitoring Instruments Manufacturing, Sales, Servicing & Calibration**

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## PRODUCT LIST

## BIOSAFETY CABINET

### AIR POLLUTION MONITORING INSTRUMENTS

- RESPIRABLE DUST SAMPLER (PM10)
- FINE PARTICULATE SAMPLER (PM2.5)
- COMBO SAMPLER (PM10+PM2.5)
- STACK SAMPLER
- HANDY DUST SAMPLER
- PERSONAL SAMPLER
- BENZENE SAMPLER
- LOW VOLUME SAMPLER
- GASEOUS POLLUTANT SAMPLER
- THERMO ELECTRICALLY COOLED GASEOUS ATTACHMENT
- THERMO ELECTRICALLY COOLED GASEOUS ATTACHMENT
- SOUND LEVEL METER
- WEATHER MONITOR
- LUX METER • VIBRATION METER
- TOP LOADING CALIBRATOR
- FLOW CALIBRATOR
- TIME CALIBRATOR
- SOUND LEVEL CALIBRATOR

### LAB INSTRUMENTS

- BIO SAFTY CABINET



### CABINET

**Biolab Biological Safety Cabinet Class II Series** is engineered specifically for laboratory operations that require user and product protection. Operates with a negative air pressure for personnel protection and HEPA filtered laminar airflow for product protection. Suitable for microbiological and research applications that do not involve radioactive substances and toxic contaminants. Used in Biolab Biological Safety Cabinet Class II is widely used in microbiological work, research purposes in the field of genetics, cell biology, molecular biology, plant and animal cell culturing..

### 200 CLASS II BIOSAFETY CABINET

Time reserve function

Stainless Steel 304 table for operation

Emission of 253.7 nm for highly efficient decontamination

Remote control operation including front sash movement and fan speed control Motored front window with timer function

Two-layered marinated toughened glass (≥5mm) motorized front window

Negative air pressure provides personnel protection by constant movement of air in working area

Foot switch to adjust the height of the front window 2 waterproof sockets located inside panel

Automatic air speed adjustable with filter block

Filter Life Indicator: Pressure value displayed to show life utility of main filter

Interlock function: Fluorescent lamp, UV lamp and front window, Blower and front window, UV lamp and blower

Low noise and high energy efficiency for operational cost savings

- FUME HOOD
- BOD INCUBATOR
- COD DIGESTOR
- AUTO CLAVE
- BIOLOGICAL INCUBATOR
- HOT AIR OVEN • WATER BATH
- HUMIDITY CHAMBER
- HOT PLATE
- DISTILLATION UNIT
- HEATING MENTLE
- KJELDAL ASSEMBLY
- DEEP FRIZZER
- PH METER
- TDS METER
- CONDUCTIVITY METER
- SPECTROPHOMETR
- WEIGHING BALANCE
- MOISTURE ANALYZER
- DIGITAL ULTRASONIC CLEANER
- DO METER
- GRADENT THERMAL CYCLEAR PCR
- ICE FLAKER
- ICE MAKER
- PROBE SONICATOR
- DIGITAL VISCOMETER
- DIGITAL PRESSURE INDICATOR
- LON SELECTIVE ELECTRODES
- POLARIMETERS
- VISCOMETERS
- PROBE SONICATOR-TOUCHSCREEN
- LON WITH PH METER-5 POINTS

Audio and visual alarm for filter replacement, front window over height and abnormal airflow velocity

LCD display: filter and UV lamp working time, Filter life, Exhaust filter and downflow filter pressure, Humidity and temperature, System working time, Inflow and downflow velocity etc.

## SPECIFICATIONS

Model	BCBS-201	BCBS-202	BCBS-203
Type	Class II, Type A2		
HEPA Filter	2		
HEPA Filter Efficiency	99.999% efficiency at 0.3 µm. Filter life Indicator		
Air Circulation	0.7		
Exhaust Air	0.3		
Inflow Velocity	0.53±0.025 m/s		
Down Flow Velocity	0.33±0.025 m/s	0.33 ±0.025 m/s	
Fluorescent Lamp	21Wx2		28Wx2
UV Lamp	30Wx1		40Wx1
Illumination	≥1000 lux		
Work Surface Height	750 mm		
Tested Opening	200 mm		
Max Opening	420 mm		400 mm
Inner Dimension (WxDxH)	940x600x660 mm	1150x600x660 mm	1350x600x660 mm

Overall Dimension (WxDxH)	1100x750x2250 mm	1300x750x2250 mm	1500x750x2250 mm
Package Size	1220x1000x1840 mm	1460x1050x1800 mm	1630x1000x1820 mm
Caster	Universal Wheel with brake and levelling feet		
Front Window	Motorized, two layer laminated toughened glass ≥5 mm, Anti UV		
Clean Level	Class 100		
Control System	Microprocessor		
Socket	Two, Total load of two sockets: 500W		
Noise Level	EN12469≤58dB / NSF≤61dB		
Weight	243 kg	280 kg	316 kg
Power	760 W	1060 W	1300 W
Power Supply	100/220V±10%, 50/60Hz		

Model	BCBS-204	BCBS-205
Type	Class II, Type A2	
HEPA Filter	2	
HEPA Filter Efficiency	99.999% efficiency at 0.3 µm. Filter life Indicator	
Air Circulation	0.7	
Exhaust Air	0.3	
Inflow Velocity	0.53±0.025 m/s	
Down Flow Velocity	0.33±0.025 m/s	
Fluorescent Lamp	40Wx2	

- PH ELECTRODES
- MULTI PARAMETER / DO METER
- REFRACTO METERS
- GRADIENT THERMAL CYCLER
- ULTRASONIC CLEANERS
- CERAMIC HOTPLATE
- MAGNETIC STIRRER
- DIGITAL PIPETTES
- REFRIGERATED CIRCULATING BATH
- DIGITAL WATER BATH
- ANALOG MULTIMETER
- DIGITAL MULTIMETER
- BENCH TYPE TRUE RMS DIGITAL MULTIMETER
- AC CLAMP METER
- AC/DC CLAMP METER
- POWER CLAMP METER
- AC LEAKAGE CURRENT TESTER
- EARTH LEAKAGE
- INSULATION RESISTANCE TESTER
- PHASE ROTATION METER
- VOLTAGE DETECTOR
- DIGITAL CAPACITANCE METER
- DIGITAL LCR METER
- DIGITAL MILLIOHM METER
- LUX METER

UV Lamp	40Wx2	40Wx1
Illumination	≥1000 lux	
Work Surface Height	750 mm	
Tested Opening	200 mm	
Max Opening	400 mm	
Inner Dimension (WxDxH)	1710×600×660 mm	1800×600×660 mm
Overall Dimension (WxDxH)	1870×750×2290 mm	1950×800×2305 mm
Package Size	2000x950x1820 mm	2090x1050x1860 mm
Caster	Universal Wheel with brake and levelling feet	
Front Window	Motorized, two layer laminated toughened glass ≥5 mm, Anti UV	
Clean Level	Class 100	
Control System	Microprocessor	
Socket	Two, Total load of two sockets: 500W	
Noise Level	EN12469≤58dB / NSF≤61dB	
Weight	395 kg	420 kg
Power	1350 W	1700 W
Power Supply	100/220V±10%, 50/60Hz	

## ACCESSORIES

Accessory Code	Name
BX-103986	Fluorescent Lamp
BX-103987	UV Lampx2
BX-103988	Base Stand
BX-103989	Remote Control

Accessory Code	Name
BX-103990	Foot switch
BX-103991	Drain Valve
BX-103992	Waterproof Sockets

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
BX-102683	Infrared Sterilizer	150x95x210 mm	
BX-102684	Airflow Tester		
BX-102685	Formalin Fumigation Sterilizer		300x200x160 mm
BX-102686	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
BX-102687	Armrest		
BX-102688	Laboratory Chair		
BX-102689	Dust Particle Counter		
BX-102690	Digital Sound Level Meter		
BX-102691	Illumination Meter		
BX-102692	Air Flow Anemometer		
BX-102693	Protective Garment		
BX-102694	Protective Gloves		



## BCBS-301 BIOLOGICAL SAFETY CABINET CLASS II



### SPECIFICATIONS

Stainless Steel 304 table for operation

Digital LCD display for easy monitoring of all parameters Emission of 253.7 nm for highly efficient decontamination Motored front window with timer function

Two-layered marinated toughened glass ( $\geq 5\text{mm}$ ) motorized front window

Negative air pressure provides personnel protection by constant movement of air in working Area Remote control operation including front sash movement and fan speed control Foot switch to adjust the height of the front window

Centrifugal fan speed adjustable: H14 HEPA filter Intrinsic sterilization is achieved after activating cabinet for 30 min via UV timing Filter Life Indicator: Pressure

value displayed to show life utility of main filter Low noise and high energy efficiency for operational cost savings Audio and visual alarm for filter replacement, front window over height and abnormal airflow

Model	BCBS-301
Type	Class II, Type A2
HEPA Filter	2

HEPA Filter Efficiency	99.999% efficiency at 0.3 $\mu\text{m}$ , Filter life Indicator
Air Circulation	0.7
Exhaust Air	0.3
Minimum Face Velocity	75 linear feet per minute (lfpm)
Inflow Velocity	0.53 $\pm$ 0.025m/s

Down Flow Velocity	0.33±0.025m/s
LED Lamp	40Wx1
UV Lamp	15Wx1
Illumination	≥1000 lux
Work Surface Height	750 mm
Tested Opening	200 mm
Max Opening	370 mm
Inner Dimension (WxDxH)	600x500x540 mm
Overall Dimension (WxDxH)	700x650x1230 mm
Package Size	860x960x1450 mm (with base stand) 860x800x1450 mm (without base stand)
Caster	Yes
Front Window	Two-layer toughened glass ≥5 mm, Anti UV
Clean Level	Class 100
Control System	Microprocessor
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating
Socket	Two, Total load of two sockets: 500W
Noise Level	EN12469≤58dB / NSF49 ≤61dB
Weight	196 kg (with base stand) 164 kg (without base stand)
Power	500 W
Power Supply	220V~240V/50Hz~60Hz; 110V~130V/60Hz

## ACCESSORIES

Accessory Code	Name
BX-103986	Fluorescent Lamp
BX-103987	UV Lampx2
BX-103989	Remote Control
BX-103991	Drain Valve
BX-103992	Waterproof Sockets

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
BX-102683	Infrared Sterilizer	150x95x210 mm	
BX-102684	Airflow Tester		
BX-102685	Formalin Fumigation Sterilizer		300x200x160 mm
BX-102686	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
BX-102687	Armrest		
BX-102688	Laboratory Chair		
BX-102689	Dust Particle Counter		
BX-102690	Digital Sound Level Meter		
BX-102691	Illumination Meter		

BX-102692	Air Flow Anemometer		
BX-102693	Protective Garment		
BX-102694	Protective Gloves		

## 300 CLASS II BIOSAFETY CABINET



## SPECIFICATIONS

Stainless Steel 304 table for operation  
 Digital LCD display for easy monitoring of all parameters Emission of 253.7 nm for  
 Highly efficient decontamination Motored front window with timer function  
 Two-layered marinated toughened glass ( $\geq 5\text{mm}$ ) motorized front window  
 Negative air pressure provides personnel protection by constant movement of air in  
 working area Remote control operation including front sash movement and fan speed  
 control Foot switch to adjust the height of the front window Centrifugal fan speed  
 adjustable: H14 HEPA filter Collecting tank (4000 ml) collects spatters of working  
 area without any leakage Intrinsic sterilization is achieved after activating cabinet for  
 30 min via UV timing Air drawn into the cabinet through air grill Filter Life Indicator:  
 Pressure value displayed to show life utility of main filter Low noise and high energy  
 efficiency for operational cost savings Audio and visual alarm for filter replacement, front  
 window over height and abnormal airflow

Model	BCBS-304	BCBS-306
Type	Class II, Type A2	
HEPA Filter	2	
HEPA Filter Efficiency	99.999% efficiency at 0.3 $\mu\text{m}$ , filter life Indicator	99.999% efficiency at 0.3 $\mu\text{m}$ . Filter life Indicator
Airflow Volume Inflow	349 m <sup>3</sup> / h (205cfm)	649 m <sup>3</sup> / h (382cfm)
Airflow Volume Downflow	64%: 638 m <sup>3</sup> /h (375 cfm)	64%: 1190 m <sup>3</sup> / h (700 cfm)
Airflow Volume Exhaust	36%: 359 m <sup>3</sup> /h (211cfm)	36%: 669 m <sup>3</sup> /h (394 cfm)
Filter Guard Type	Aluminum alloy frame	
Minimum Face Velocity	75 linear feet per minute (lfpm)	
Inflow Velocity	0.53 $\pm$ 0.025m/s	0.53 $\pm$ 0.025m/s
Down Flow Velocity	0.35 $\pm$ 0.025m/s	
UV Lamp	18Wx1	40Wx1
Illumination	>1000 lux	$\geq$ 1000 lux
Work Surface Height	750 mm	
Tested Opening	200 mm	
Max Opening	550 mm	
Inner Dimension (WxDxH)	910x600x600 mm	1700x600x660 mm
Overall Dimension (WxDxH)	1087x775x2265 mm	1873x775x2295 mm
Package Size	1250x1080x1840 mm	2020x1080x1900 mm
Caster	None	
Front Window	Motorized. Two layer laminated toughened glass $\geq 5$ mm, Anti UV	

Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating
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Socket	Two, Total consumption: ≤500W	Two, Total load of two sockets: 500W
Tap	Water tapx1, Gas tapx1	
Ground Resistance	≤0.10Ω	
Noise Level	NSF 49≤61 dB/EN 12469≤58 dB	
Weight	270 kg	363 kg
Power	300 W	500 W
Power Supply	AC220V/110V, 50Hz/60HZ, 9A, BTU/Hr: 1689	

## ACCESSORIES

Accessory Code	Name
BX-103986	Fluorescent Lamp
BX-103987	UV Lampx2
BX-103989	Remote Control
BX-103991	Drain Valve
Accessory Code	Name
BX-103992	Waterproof Sockets
BX-103993	Stainless Steel water & Gas Taps
BX-103988	Base Stand

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
BX-102683	Infrared Sterilizer	150x95x210 mm	
BX-102684	Airflow Tester		
BX-102685	Formalin Fumigation Sterilizer		300x200x160 mm
BX-102686	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
BX-102687	Armrest		
BX-102688	Laboratory Chair		
BX-102689	Dust Particle Counter		
BX-102690	Digital Sound Level Meter		
BX-102691	Illumination Meter		
BX-102692	Air Flow Anemometer		
BX-102693	Protective Garment		
BX-102694	Protective Gloves		

## BCBS-307 BIOLOGICAL SAFETY CABINET CLASS II



## SPECIFICATIONS

Stainless Steel 304 table for operation

Digital LCD display for easy monitoring of all parameters Emission of 253.7 nm for highly efficient decontamination Motored front window with timer function

Two-layered marinated toughened glass ( $\geq 5\text{mm}$ ) motorized front window

Negative air pressure provides personnel protection by constant movement of air in working area Remote control operation including front sash movement and fan speed control Foot switch to adjust the height of the front window

Centrifugal fan speed adjustable: H14 HEPA filter Intrinsic sterilization is achieved after activating cabinet for 30 min via UV timing Air drawn into the cabinet through air grill Filter Life Indicator: Pressure value displayed to show life utility of main filter

Low noise and high energy efficiency for operational cost savings Audio and visual alarm for filter replacement, front window over height and abnormal airflow

Model	BCBS-307
Type	Class II, Type A2
HEPA Filter	2
Air Filter	ULPA Filter, >99.999% efficiency for particle size at 0.12 $\mu\text{m}$ . Filter life Indicator
HEPA Filter Efficiency	99.999% efficiency at 0.3 $\mu\text{m}$ . Filter life Indicator
Airflow Volume Exhaust	465 m <sup>3</sup> / h (273 cfm)
Minimum Face Velocity	75 linear feet per minute (lfpm)
Inflow Velocity	0.53 m/s
Down Flow Velocity	0.33 m/s
LED Lamp	28Wx2
Fluorescent Lamp	28Wx2
UV Lamp	30Wx1
Illumination	$\geq 1000$ lux
Work Surface Height	750 mm
Tested Opening	200 mm
Max Opening	440 mm
Internal Work Area, Space	0.73m <sup>3</sup>
Inner Dimension (WxDxH)	1220x660x630 mm
Overall Dimension (WxDxH)	1370x760x2100 mm
Package Size	1550x900x2280 mm
Caster	Universal Wheel with brake and levelling feet
Control System	Microprocessor
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating
Socket	Two, Total load of two sockets: 500W
Tap	Water tapx1, Gas tapx1
Noise Level	EN12469 $\leq$ 58dB/NSF49 $\leq$ 61 dB
Weight	350 kg

Power	900 W
Power Supply	AC220V $\pm$ 10%,50/60HZ ; 110V $\pm$ 10%, 60HZ

## ACCESSORIES

Accessory Code	Name
BX-103986	Fluorescent Lamp
BX-103987	UV Lampx2
BX-103989	Remote Control



BX-103991	Drain Valve
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Accessory Code	Name
BX-103992	Waterproof Sockets
BX-103993	Stainless Steel water & Gas Taps
BX-103988	Base Stand

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
BX-102683	Infrared Sterilizer	150x95x210 mm	
BX-102684	Airflow Tester		
BX-102685	Formalin Fumigation Sterilizer		300x200x160 mm
BX-102686	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
BX-102687	Armrest		
BX-102688	Laboratory Chair		
BX-102689	Dust Particle Counter		
BX-102690	Digital Sound Level Meter		
BX-102691	Illumination Meter		
BX-102692	Air Flow Anemometer		
BX-102693	Protective Garment		
BX-102694	Protective Gloves		

## 400 CLASS II BIOSAFETY CABINET



Time reserve function

Stainless Steel 304 table for operation

Digital VFD display for easy monitoring of

all parameters Emission of 253.7 nm for highly efficient

decontamination Two-layered marinated toughened glass (≥5mm)

motorized front window Negative air pressure provides personnel

protection by constant movement of air in working area

Remote control operation including front sash movement and fan

speed control Motored front window with timer function

Intrinsic sterilization is achieved after activating cabinet for 30 min

via UV timing Filter Life Indicator: Pressure value displayed to

show life utility of main filter Foot switch to adjust the height

of the front window Low noise and high energy efficiency for

operational cost savings Audio and visual alarm for filter replacement,

front window over height and abnormal airflow

## SPECIFICATIONS

Model	BCBS-401	BCBS-402	BCBS-403	BCBS-404
Type	Class II, Type B2			
HEPA Filter	2			
HEPA Filter Efficiency	99.999% efficiency at 0.3 μm. Filter life Indicator			
Pre-Filter	Washable			
Minimum Face Velocity	75 linear feet per minute (lfpm)			
Inflow Velocity	0.53±0.025m/s			
Down Flow Velocity	0.33 ±0.025 m/s			

Airflow System	0% air re-circulation, 100% air exhaust			
LED Lamp	21Wx2		28Wx2	40Wx2
UV Lamp	30Wx1	18Wx1	40Wx1	40Wx2
Illumination	≥1000 lux			
Work Surface Height	750 mm			
Tested Opening	200 mm			
Max Opening	420 mm		500 mm	
Inner Dimension (WxDxH)	940x600x660 mm	1150x600x660 mm	1350x600x660 mm	1670x600x660 mm
Overall Dimension (WxDxH)	1100x750x2250 mm	1300x750x2250 mm	1500x760x2250 mm	1820x750x2250 mm
Package Size	1220x1000x1840 mm (Main Body) 970x810x630 mm (Exhaust blower)	1460x1050x1800 mm (Main Body) 970x810x630 mm (Exhaust blower)	1650x990x1800 mm (Main Body) 970x810x630 mm (Exhaust blower)	1950x990x1950 mm (Main Body) 920x710x680 mm (Exhaust blower)
Caster	Universal Wheel with brake and levelling feet			
Front Window	Motorized, two layer laminated toughened glass ≥5 mm, Anti UV			
Control System	Microprocessor			
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating			
Socket	Two, Total load of two sockets: 500W			
Tap	Water tapx1, Gas tapx1			
Noise Level	NSF 49≤61 dB / EN 12469≤58 dB	≤62dB		
Weight	246 kg	276 kg	302 kg	408 kg
Power	700 W	850 W	900 W	1200 W
Power Supply	110~240V/50~60Hz			AC220V±10%, 50 Hz

## ACCESSORIES

Accessory Code	Name	Description
BX-103986	Fluorescent Lamp	
BX-103987	UV Lampx2	
BX-103989	Remote Control	
BX-103990	Foot switch	
BX-103994	Exhaust Blower	4 meter PVC Duct, 300mm Diameter

Accessory Code	Name	Description
BX-103995	Exhaust Duct	
BX-103991	Drain Valve	
BX-103992	Waterproof Sockets	
BX-103988	Base Stand	

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size (mm)
BX-102683	Infrared Sterilizer	150x95x210 mm	
BX-102684	Airflow Tester		
BX-102685	Formalin Fumigation Sterilizer		300x200x160 mm
BX-102686	Ammonium Hydrogen Carbonate Neutralizer		300x200x160 mm
BX-102687	Armrest		
BX-102688	Laboratory Chair		
BX-102689	Dust Particle Counter		
BX-102690	Digital Sound Level Meter		
BX-102691	Illumination Meter		
BX-102692	Air Flow Anemometer		
BX-102693	Protective Garment		
BX-102694	Protective Gloves		

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