



CLASS II  
BIOSAFETY CABINET

## CLASS II BIOSAFETY 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.

### 200 SERIES BIOLOGICAL SAFETY CABINET CLASS II



Stainless Steel 304 table for operation  
 Digital VFD display for easy monitoring of all parameters  
 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 in side panel  
 Collecting tank (4000 ml) collects spatters of working area without any leakage  
 Air speed adjustable by control panel

Foot switch to adjust the height of the front window  
 2 waterproof sockets located in side panel  
 Air speed adjustable by control panel  
 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  
 Interlock function: UV lamp and front window, UV lamp and blower, fluorescent lamp, blower and 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-201	BCBS-202	BCBS-203
Type	Class II, Type A2		
HEPA Filter	2		
HEPA Filter Efficiency	99.999% efficiency at 0.3 μm		
Air Circulation	0.3		
Exhaust Air	0.7		
Minimum Face Velocity	75 linear feet per minute (lfpm)		
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	40Wx1		18Wx1
Lighting	≥1000 lux		
Work Surface Height	750 mm		
Inner Dimension (WxDxH)	940×600×660 mm	1100×600×660 mm	1300×700×630 mm
Overall Dimension (WxDxH)	1100×750×2250 mm	1300×850×2200 mm	1500×840×2280 mm
Caster	Universal Wheel with brake and levelling feet		
Clean Level	Class 100		
Control System	Microprocessor		
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating		

Socket	2		
Noise Level	EN12469≤58dB / NSF≤61dB		
Weight	255 kg	305 kg	350 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	
Air Circulation	0.3	
Exhaust Air	0.7	
Minimum Face Velocity	75 linear feet per minute (lfpm)	
Inflow Velocity	0.53±0.025 m/s	
Down Flow Velocity	0.33±0.025 m/s	
Fluorescent Lamp	40Wx2	40Wx1
UV Lamp	30Wx1	
Lighting	≥1000 lux	
Work Surface Height	750 mm	
Inner Dimension (WxDxH)	1710×600×660 mm	1800×600×660 mm
Overall Dimension (WxDxH)	1870×750×2290 mm	1950×800×2305 mm
Caster	Universal Wheel with brake and levelling feet	
Clean Level	Class 100	
Control System	Microprocessor	
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating	
Socket	2	
Noise Level	EN12469≤58dB / NSF≤61dB	
Weight	390 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
BX-102683	Infrared Sterilizer
BX-102684	Airflow Tester
BX-102685	Formalin Fumigation Sterilizer
BX-102686	Ammonium Hydrogen Carbonate Neutralizer
BX-102687	Armrest
BX-102688	Laboratory Chair
BX-102689	Dust Particle Counter

Accessory Code	Name
BX-102690	Digital Sound Level Meter
BX-102691	Illumination Meter
BX-102692	Air Flow Anemometer
BX-102693	Protective Garment
BX-102694	Protective Gloves



BCBS-203



BCBS-204

## 300 SERIES BIOLOGICAL SAFETY CABINET CLASS II



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 (≥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  
 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

## SPECIFICATIONS

Model	BCBS-301	BCBS-304	BCBS-306	BCBS-307
Type	Class II, Type A2			
HEPA Filter	2			ULPA Filter 2
HEPA Filter Efficiency	99.999% efficiency at 0.3 $\mu$ m			99.999% efficiency at 0.1~0.2 $\mu$ m
Air Circulation	0.3	-	-	-
Exhaust Air	0.7	-	-	-
Minimum Face Velocity	75 linear feet per minute (lfpm)			
Inflow Velocity	0.65m/s $\pm$ 0.015m/s	0.53 $\pm$ 0.025m/s	0.53 $\pm$ 0.025m/s	0.53 m/s
Down Flow Velocity	0.37m/s $\pm$ 0.015m/s	0.35 $\pm$ 0.025m/s		0.33 m/s
Fluorescent Lamp	14Wx1		40Wx2	28Wx2
UV Lamp	18Wx1, 40Wx1	30Wx1	20Wx1	30Wx1
Lighting	800 lux	>850 lux		$\geq$ 1000 lux
Work Surface Height	750 mm			
Working Opening	400 mm	450 mm		440 mm
Inner Dimension (WxDxH)	600x500x540 mm	914x600x610 mm	1700x600x610 mm	1220x600x630 mm
Overall Dimension (WxDxH)	700x650x1230 mm	1100x740x2308 mm	1886x750x2335 mm	1370x760x2100 mm
Caster	Yes	None		Universal Wheel with brake and levelling feet
Front Window	Two-layer toughened glass > 5 mm	Manual, anti UV		-
Clean Level	Class 100	-	-	-
Control System	Microprocessor	-	-	Microprocessor
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating			
Socket	2			
Noise Level	<65dB	NSF 49 $\leq$ 61 dB/EN 12469 $\leq$ 58 dB		EN12469 $\leq$ 58dB/NSF49 $\leq$ 61 dB
Weight	110 kg	260 kg	380 kg	400 kg
Power	800 W	260 W	300 W	700 W
Power Supply	220V~240V/50Hz~60Hz; 110V~130V/60Hz	AC220V/110V, 50Hz/60HZ		AC220V $\pm$ 10%,50/60HZ ; 110V $\pm$ 10% , 60HZ
Airflow Volume Inflow	-	349 m <sup>3</sup> / h	649 m <sup>3</sup> / h	-
Airflow Volume Downflow	-	0.61		-
Airflow Volume Exhaust	-	0.39		-

## ACCESSORIES

Accessory Code	Name	For Models
BX-103986	Fluorescent Lamp	All
BX-103987	UV Lampx2	All
BX-103989	Remote Control	All
BX-103991	Drain Valve	All

Accessory Code	Name	For Models
BX-103992	Waterproof Sockets	All
BX-103993	Stainless Steel water & Gas Taps	BCBS-304, BCBS-306, BCBS-307
BX-103988	Base Stand	BCBS-304, BCBS-306, BCBS-307

## OPTIONAL ACCESSORIES

Accessory Code	Name
BX-102683	Infrared Sterilizer
BX-102684	Airflow Tester
BX-102685	Formalin Fumigation Sterilizer
BX-102686	Ammonium Hydrogen Carbonate Neutralizer
BX-102687	Armrest
BX-102688	Laboratory Chair
BX-102689	Dust Particle Counter

Accessory Code	Name
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



BCBS-307

# 400 SERIES BIOLOGICAL SAFETY CABINET CLASS II



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 ( $\geq 5\text{mm}$ ) 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  
 Motored front window with timer function  
 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  
 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 $\mu\text{m}$			
Exhaust Air	1	-	-	-
Minimum Face Velocity	75 linear feet per minute (lfpm)			
Fluorescent Lamp	21Wx1		28Wx1	35Wx2
UV Lamp	40Wx1	18Wx1		
Lighting	$\geq 1000$ lux			
Work Surface Height	750 mm			
Working Opening	400 mm			
Inner Dimension (WxDxH)	940×600×660 mm	1100×600×660 mm	1350×600×620 mm	1600×670×630 mm
Overall Dimension (WxDxH)	1100×750×2250 mm	1300×850×2200 mm	1500×760×2250 mm	1800×840×2275 mm
Caster	Universal Wheel with brake and levelling feet			
Front Window	Motorized, two layer laminated toughened glass			
Control System	Microprocessor			
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating			
Socket	2			
Noise Level	$\leq 62\text{dB}$			
Weight	275/350 kg	320/360 kg	350/440 kg	390/470 kg
Power	1050 W	1350 W	1550 W	1900 W
Power Supply	110~240V/50~60Hz			

## 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
BX-102683	Infrared Sterilizer
BX-102684	Airflow Tester
BX-102685	Formalin Fumigation Sterilizer
BX-102686	Ammonium Hydrogen Carbonate Neutralizer
BX-102687	Armrest
BX-102688	Laboratory Chair
BX-102689	Dust Particle Counter

Accessory Code	Name
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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