



BIOLOGICAL SAFETY CABINET

↓ BIOLOGICAL SAFETY CABINET CLASS I LBSC-100 SERIES

Labocon Biological Safety Cabinet Class I LBSC-100 a negative-pressure ventilated cabinet providing personnel and environmental protection for handling of low risk aerosols and particulate matter. It is operated with an open front and a minimum face velocity at the work opening of at least 75 linear feet per minute (lfpm). The air flows through the cabinet carrying contaminants with it, exiting through a HEPA filter, either into the laboratory or to outside.

↓ FEATURES

- ▶ Stable air flow system providing personnel and environmental protection
- ▶ Negative air pressure provides personnel protection by constant movement of air in working area
- ▶ HEPA Filter protects environment by filtering air before it is exhausted
- ▶ UV lamp for sterilization
- ▶ Soft touch control panel with LCD display
- ▶ Stainless Steel 304 table for operation
- ▶ Low noise and high energy efficiency for operational cost savings
- ▶ Optional:
 - ▶ Infrared Sterilizer
 - ▶ Air Curtain Tester
 - ▶ Formalin Fumigation Sterilizer
 - ▶ Ammonium Hydrogen Carbonate Neutralizer
 - ▶ Armrest

↓ APPLICATION

Labocon Biological Safety Cabinet Class I is designed to meet diverse applications in life science, clinical, microbiology, genetics, plant and animal cell culture, molecular biology, pharmaceutical and industrial laboratory.



SPECIFICATION

Model	LBSC-101		LBSC-102	LBSC-103	LBSC-104
Type	Class I				
Chamber Material	Poly Methyl Methacrylate (PMMA)		Cold-rolled steel coated with anti-bacteria powder		
HEPA Filter	1				
HEPA Filter Efficiency	99.999% efficiency at 0.3 μm				
Air Flow Velocity	0.38m/s ~ 0.6m/s				
Minimum Face Velocity	75 linear feet per minute (lfpm)				
Noise Level	<55 dB			<60 dB	
Fluorescent Lamp	15Wx1	18Wx1	14Wx2	21Wx1	
UV Lamp	15Wx1	18Wx1	20Wx1	20Wx1	
Work Surface Height	Benchtop Type				740 mm
Base Stand	None				Cold-rolled steel
Caster	None				Universal Wheel
Standard Accessory	Fluorescent Lamp, UV Lampx2				Fluorescent Lamp, UV Lampx2, Base Stand
Inner Dimension (W x D x H)	540x385x450 mm	680x450x500 mm	768x690x580 mm	968x695x630 mm	
Overall Dimension (W x D x H)	550x395x730 mm	700x550x900 mm	900x695x1080 mm	1100x695x1924 mm	
Power	150 W	160 W	180 W	400 W	
Power Supply	230V/240V,50Hz/60Hz				
Weight	40 kg	60 kg	100 kg		150 kg
Catalog No.	9503101128	9503102128	9503103128		9503104128

↓ BIOLOGICAL SAFETY CABINET CLASS II-200 SERIES

Labocon Biological Safety Cabinet Class II Type A2 LBSC-200 Series is designed with inward air flow velocity (0.55m/s) for personnel protection, HEPA- filtered laminar airflow for product protection and HEPA-filtered exhausted air for environmental protection. It is suitable for microbiological research in the absence of volatile or toxic chemicals and radionuclide, since air is recirculated within the work area.

↓ FEATURES

- ▶ 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
- ▶ Digital LCD display for easy monitoring of all parameters
- ▶ Emission of 253.7 nm for highly efficient decontamination
- ▶ Foot switch to adjust the height of the front window
- ▶ 2 waterproof sockets located in side panel
- ▶ Air speed adjustable by control panel. Air drawn into the cabinet through air grill.
- ▶ 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
- ▶ Blower with Double Suction Capacity, Ranges From 2500-2700 m^3/h
- ▶ Filter Life Indicator: Pressure value displayed to show life utility of main filter
- ▶ Stainless Steel 304 table for operation
- ▶ Low noise and high energy efficiency for operational cost savings
- ▶ Interlock function: UV lamp and front window, UV lamp and blower, fluorescent lamp, blower and front window
- ▶ Audio and visual alarm for filter replacement, front window over height and abnormal airflow
- ▶ Optional:
 - ▶ Airflow Tester
 - ▶ Infrared Sterilizer
 - ▶ Formalin Fumigation Sterilizer
 - ▶ Armrest

↓ APPLICATION

Labocon Biological Safety Cabinet Class II is designed to meet diverse applications in life science, clinical, microbiology, genetics, plant and animal cell culture, molecular biology, pharmaceutical and industrial laboratory.



SPECIFICATION

Model	LBSC-201	LBSC-202	LBSC-203	LBSC-204	LBSC-205
Type	Class II, Type A2				
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating				
HEPA Filter	2				
HEPA Filter Efficiency	99.999% efficiency at 0.3 μm				
Air Flow System	70% Air Recirculation, 30% Air Exhaust				
Inflow Air Velocity	0.53 ± 0.025 m/s (105 lfpm)				
Down Flow Air Velocity	0.33 ± 0.025 m/s (70 lfpm)				
Inflow Air Flow Volume (m³/h)	359	420	515	653	687
Down Flow Air Flow Volume (m³/h)	516	772	717	949	1042
Exhaust Air Flow Volume (m³/h)	359	420	515	653	687
Minimum Face Velocity	75 linear feet per minute (lfpm)				
Clean Level	100				
Tested Opening	Safety Height ≤ 200 mm				
Max Opening	400 mm				
Noise Level	≤ 58dB(A) - ≤65dB(A)				
Illumination	800 Lux				1200 Lux
UV Lamp	30Wx1		40Wx1	40Wx2	40Wx1
Fluorescent Lamp	21Wx2		28Wx2	40Wx2	40Wx1
Display	VFD			LCD	
Control System	Microprocessor				
Work Surface Height	750 mm				
Water & Gas Tap	Water Tapx1, Gas Tapx1 (Optional)				
Filter Guard Type	Aluminium Alloy Frame				
Caster	Universal Wheel with brake and levelling feet				
Ground Resistance	<0.1Ω				
Standard Accessory	Fluorescent Lamp, UV Lampx2, Remote Control, Foot Switch, Drain Valve, Waterproof Sockets, Base Stand				
Inner Dimension (W x D x H)	940×600×660 mm	1150×600×660 mm	1350×600×660 mm	1710×600×660 mm	1800×600×660 mm
Overall Dimension (W x D x H)	1100×750×2250 mm	1300×850×2250 mm	1500×750×2250 mm	1870×750×2290 mm	1950×800×2305 mm
Power	760 W	800 W	900 W	900 W	1500 W
Power Supply	230V/240V,50Hz/60Hz				
Weight	243 kg	280 kg	316 kg	395 kg	420 kg
Catalog No	9503105128	9503106128	9503107128	9503108128	9503109128

↓ BIOLOGICAL SAFETY CABINET CLASS II-300 SERIES

Labocon Biological Safety Cabinet Class II Type A2 LBSC-300 Series is designed with inward air flow velocity (0.55m/s) for personnel protection, HEPA-filtered laminar airflow for product protection and HEPA-filtered exhausted air for environmental protection. It is suitable for microbiological research in the absence of volatile or toxic chemicals and radionuclide, since air is recirculated within the work area.

↓ FEATURES

- ▶ 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
- ▶ Digital LCD display for easy monitoring of all parameters
- ▶ Vacuum fluorescent display (VFD) display demonstrates various colors and can work continuously for 30,000 h (LBSC-305)
- ▶ Emission of 253.7 nm for highly efficient decontamination
- ▶ 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
- ▶ Stainless Steel 304 table for operation
- ▶ Low noise and high energy efficiency for operational cost savings
- ▶ Audio and visual alarm for filter replacement, front window over height and abnormal airflow
- ▶ Optional:
 - ▶ Base stand
 - ▶ Ammonium Hydrogen Carbonate Neutralizer
 - ▶ Airflow Tester
 - ▶ Infrared Sterilizer
 - ▶ Formalin Fumigation Sterilizer
 - ▶ Armrest

↓ APPLICATION

Labocon Biological Safety Cabinet Class II is designed to meet diverse applications in life science, clinical, microbiology, genetics, plant and animal cell culture, molecular biology, pharmaceutical and industrial laboratory.



SPECIFICATION

Model		LBSC-301	LBSC-302	LBSC-303
Type		Class II, Type A2		
Chamber Material		Cold-rolled steel coated with anti-bacteria powder coating		
HEPA Filter		2		
HEPA Filter Efficiency		99.999% efficiency at 0.3 μ m		
Air Flow System		70% Air Recirculation, 30% Air Exhaust		
Inflow Air Velocity		0.53 \pm 0.025 m/s (105 lfpm)		
Down Flow Air Velocity		0.33 \pm 0.025 m/s (70 lfpm)		
Air Flow Volume (m ³ /h)	Inflow	229	458	458
	Down Flow	311	628	663
	Exhaust	229	458	458
Minimum Face Velocity		75 linear feet per minute (lfpm)		
Clean Level		Class 100		
Tested Opening		Safety Height \leq 200 mm		
Max Opening		400 mm		480 mm
Noise Level		\leq 60dB(A)	\leq 61dB(A)	\leq 58dB(A) - \leq 65dB(A)
Illumination		\geq 800 Lux	\geq 1000 Lux	
UV Lamp		18Wx1	30Wx1	
Fluorescent Lamp		14Wx1	40Wx1	14Wx1
Display		LCD		
Control System		Microprocessor		
Work Surface Height		750 mm		
Front Window		Motorized		
Water & Gas Tap		Water Tapx1, Gas Tapx1		
Filter Guard Type		Aluminium Alloy Frame		
Ground Resistance		$<0.10\Omega$		
Caster		Yes	Universal Wheel with brake and levelling feet	None
Standard Accessory		Fluorescent Lamp, UV Lampx2, Remote Control, Drain Valve, Waterproof Sockets	Fluorescent Lamp, UV Lampx2, Remote Control, Foot Switch, Drain Valve, Waterproof Sockets, Base Stand	Fluorescent Lamp, Remote Control, Drain Valve, Waterproof Socketsx4, Base Stand
Inner Dimension (W x D x H)		600x500x540 mm	1380x750x2290 mm	1300x790x2310 mm
Overall Dimension (W x D x H)		700x650x1230 mm	1220x600x660 mm	1200x600x770 mm
Power		500 W	600 W	430 W
Power Supply		230V/240V, 50Hz/60Hz		
Weight		110 kg	310 kg	300 kg
Catalog No		9503110128	9503111128	9503112128



SPECIFICATION

Model		LBSC-304	LBSC-305	LBSC-306	LBSC-307
Type		Class II, Type A2			
Chamber Material		Cold-rolled steel coated with anti-bacteria powder coating			
HEPA Filter		2			ULPA Filter (2)
HEPA Filter Efficiency		99.999% efficiency at 0.3 μm			99.999% efficiency at 0.1-0.2 μm
Air Flow System		70% Air Recirculation, 30% Air Exhaust			
Inflow Air Velocity		0.53 ± 0.025 m/s (105 lfpm)			0.46 m/s± 0.025 m/s
Down Flow Air Velocity		0.33 ± 0.025 m/s (70 lfpm)			
Air Flow Volume (m³/h)	Inflow	349	466	649	466
	Down Flow	519	828	949	678
	Exhaust	349	466	649	466
Minimum Face Velocity		75 linear feet per minute (lfpm)			
Clean Level		Class 100			
Tested Opening		Safety Height ≤ 200 mm			
Max Opening		450 mm			400 mm
Noise Level		≤ 58dB(A) - ≤65dB(A)			≤ 60dB(A)
Illumination		≥850 Lux			≥1000 Lux
UV Lamp		18Wx1, 40Wx1	30Wx1	18Wx1, 40Wx1	30Wx1
Fluorescent Lamp		40Wx1	28Wx2	40Wx2	28Wx2
Display		LCD	VFD	LCD	
Control System		Microprocessor			
Work Surface Height		750 mm			
Front Window		Manual	Motorized	Manual	Motorized
Water & Gas Tap		Water Tapx1, Gas Tapx1			
Filter Guard Type		Aluminium Alloy Frame			
Ground Resistance		<0.10Ω			
Caster		None			Universal Wheel with brake and levelling feet
Standard Accessory		Fluorescent Lamp, UV Lampx2, Remote Control, Drain Valve, Waterproof Sockets, Stainless Steel water & Gas Taps, Base Stand			
Inner Dimension (W x D x H)		1100x740x2308 mm	1220x665x650 mm	1886x750x2335 mm	1220x600x630 mm
Overall Dimension (W x D x H)		914x600x610 mm	1421x850x2180 mm	1700x600x610 mm	1370x760x2100 mm
Power		260 W	400 W	300 W	700 W
Power Supply		230V/240V,50Hz/60Hz			
Weight		260 kg	330 kg	380 kg	400 kg
Catalog No		9503113128	9503114128	9503115128	9503116128

↓ BIOLOGICAL SAFETY CABINET CLASS II-400 SERIES

Labocon Biological Safety Cabinet Class II Type B2 LBSC-400 Series is designed with inward air flow velocity (0.55m/s) for personnel protection, HEPA-filtered laminar airflow for product protection and HEPA-filtered exhausted air for environmental protection. It is suitable for microbiological research in the absence of volatile or toxic chemicals and radionuclide, since air is recirculated within the work area.

↓ FEATURES

- ▶ 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
- ▶ Digital LCD display for easy monitoring of all parameters
- ▶ 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
- ▶ Emission of 253.7 nm for highly efficient decontamination
- ▶ Foot switch to adjust the height of the front window
- ▶ Stainless Steel 304 table for operation
- ▶ Low noise and high energy efficiency for operational cost savings
- ▶ Audio and visual alarm for filter replacement, front window over height and abnormal airflow
- ▶ Optional:
 - ▶ Airflow Tester
 - ▶ Infrared Sterilizer
 - ▶ Formalin Fumigation Sterilizer
 - ▶ Armrest

↓ APPLICATION

Labocon Biological Safety Cabinet Class II is designed to meet diverse applications in life science, clinical, microbiology, genetics, plant and animal cell culture, molecular biology, pharmaceutical and industrial laboratory.



SPECIFICATION

Model	LBSC-401	LBSC-402	LBSC-403	LBSC-404
Type	Class II, Type B2			
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating			
HEPA Filter	2			
HEPA Filter Efficiency	99.999% efficiency at 0.3 μm			
Air Flow System	0% Air Recirculation, 100% Air Exhaust			
Inflow Air Velocity	0.53 ± 0.025 m/s (105 lfpm)			
Down Flow Air Velocity	0.33 ± 0.025 m/s (70 lfpm)			
Minimum Face Velocity	75 linear feet per minute (lfpm)			
Inflow Air Flow Volume(m³/h)	359	420	515	637
Down Flow Air Flow Volume(m³/h)	516	772	771	949
Exhaust Air Flow Volume(m³/h)	875	1192	1286	1586
Tested Opening	Safety Height ≤ 200 mm			
Clean Level	100			
Max Opening	400 mm			
Noise Level	≤ 58dB(A) - ≤65dB(A)			
Illumination	≥1000 Lux			
UV Lamp	20Wx1		30Wx1	40Wx1
Fluorescent Lamp	21Wx1		28Wx1	35Wx2
Display	VFD	LCD	VFD	
Control System	Microprocessor			
Work Surface Height	750 mm			
Front Window	Motorized			
Water & Gas Tap	Water Tapx1, Gas Tapx1			
Filter Guard Type	Aluminium Alloy Frame			
Ground Resistance	<0.1Ω			
Caster	Universal Wheel with brake and levelling feet			
Standard Accessory	Fluorescent Lamp, UV Lampx2, Remote Control, Foot Switch, Exhaust Blower (4 meter PVC Duct, 300mm Diameter), Exhaust Duct, Drain Valve, Waterproof Sockets, Base Stand			
Inner Dimension (W x D x H)	940×600×660 mm	1100×600×660 mm	1350×600×620 mm	1600×670×630 mm
Overall Dimension (W x D x H)	1100×750×2250 mm	1300×850×2200 mm	1500×760×2250 mm	1800×840×2275 mm
Power	1050 W	1350 W	1550 W	1900 W
Power Supply	230V/240V,50Hz/60Hz			
Weight	350 kg	360 kg	440 kg	470 kg
Catalog No	9503117128	9503118128	9503119128	9503120128

↓ BIOLOGICAL SAFETY CABINET CLASS III-500 SERIES

Labocon Biological Safety Cabinet Class III-500 Series provides a physical barrier between biological agents and personnel. It is designed to work with level 4 pathogens. It involves a gas tight chamber with complete negative pressure inside and pair of gloves in operation area which prevents direct contact with the hazardous materials. The airflow is maintained by a dedicated exterior exhaust system.

↓ FEATURES

- ▶ Two-layered marinated toughened glass ($\geq 5\text{mm}$) motorized front window
- ▶ Remote control operation including front sash movement and fan speed control
- ▶ Motored front window with timer function
- ▶ Front window is completely sealed with ≥ 8 thickness
- ▶ Digital LCD display for easy monitoring of all parameters
- ▶ Emission of 253.7 nm for highly efficient decontamination
- ▶ Foot switch to adjust the height of the front window
- ▶ Stainless Steel 304 table for operation
- ▶ Low noise and high energy efficiency for operational cost savings
- ▶ Audio and visual alarm for filter replacement, front window over height and abnormal airflow

↓ APPLICATION

Labocon Biological Safety Cabinet Class III-500 Series are widely used in different areas like handling of carcinogen chemicals, hazardous materials, studying of diseases and for extra protection against high risk of infectious agents.



SPECIFICATION

Model		LBSC-501	LBSC-502
Type		Class III	
Chamber Material		Epoxy coated cold-rolled steel	
Air Flow System		0% Air Recirculation, 100% Air Exhaust	
Air Velocity		More than 355 cfm	
Prefilter		Washable	
Negative Work Zone Pressure		-274 Pa	
Main Filter		Air Supply Filter: ULPA filter 99.999% efficient (0.1-0.3 μ m)	
		First Exhaust Filter: ULPA filter 99.999% efficient (0.1-0.3 μ m)	
		Second Exhaust Filter: ULPA filter 99.999% efficient (0.1-0.3 μ m)	
Noise Level		≤ 65 dB	
Display		LCD	
Lighting		≥ 800 lux	
Pass Box Size	Internal size (W x D x H)	390×380×330 mm	400×390×340 mm
	External size (W x D x H)	480×400×400 mm	480×400×400 mm
Standard Accessory		Fluorescent Lamp, UV Lampx4, Pressure Meter, Remote Control, Drain Valve, Gloves	
Inner Dimension (W x D x H)		750×560×600 mm	1240×650×650 mm
Overall Dimension (W x D x H)		1100×800×1600 mm	1340×850×2100 mm
Power Supply		230V/240V, 50Hz/60Hz	
Catalog No.		9503121128	9503122128



BIOLOGICAL SAFETY CABINET MODELS



MODEL: LBSC-101



MODEL: LBSC-103



MODEL: LBSC-104



MODEL: LBSC-201



MODEL: LBSC-203



MODEL: LBSC-301



MODEL: LBSC-302



MODEL: LBSC-303



MODEL: LBSC-404



MODEL: LBSC-407



MODEL: LBSC-501



MODEL: LBSC-502



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