



Biological Safety Cabinet

/ Laboratory and Processing Equipment



LAB1ST / Laboratory and Processing Equipment

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Biological safety cabinet

Lab1st Biological Safety Cabinets provide personnel, product and environmental protection. The design improves laboratory safety practices and process accuracy.

Biological safety cabinet or microbiological safety cabinet is an enclosed, ventilated laboratory workspace for safely working with materials contaminated with (or potentially) pathogens requiring a defined biosafety level.



Lab1st BSC-series cabinet is to serve as a tool to protect the laboratory researchers and the environment from particulate and aerosol hazards. All exhaust air is HEPA-filtered as it exits the biosafety cabinet, removing harmful bacteria and viruses, and discharging them directly into the laboratory, or into an exhaust system through the optional Canopy Connection.



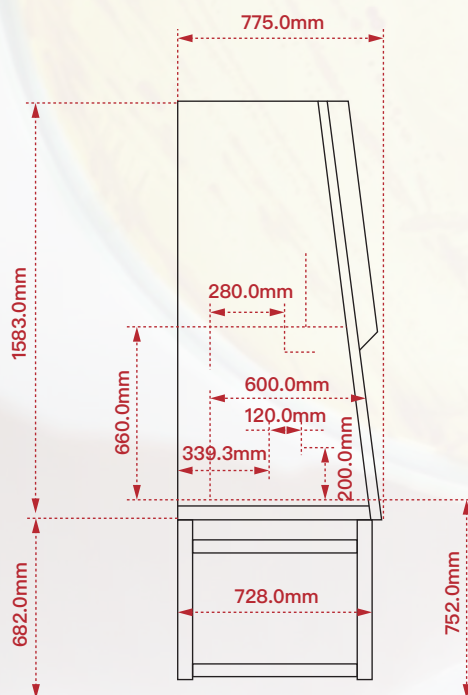
Class II A2 / B2

Lab1st Class II **Type A2** and **Type B2** biological safety cabinets provide protection of personal, samples and of the environment from hazardous particulates.

For Type A2 cabinets, makeup air is HEPA-filtered.

Moreover, Type B2 biosafety cabinets duct **100%** of filtered air to the exterior.

For different customers and markets, we also provide biosafety cabinets that meet **NSF49** certification respectively.



BSF-3FA2-NSF





Features

 The front window closes the double trigger signal, so that the sterilization and disinfection function of the ultraviolet lamp is normally turned on.

 The front window glass has a one-key lift function.

 Automatic air speed adjustable with filter block.

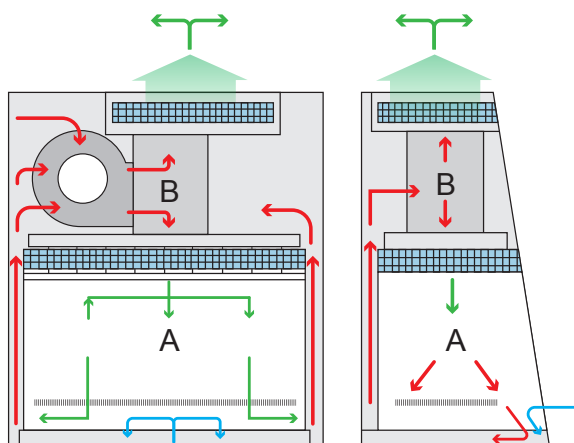
 With memory function in case of power-failure.

 Side & back wall is made up of single piece stainless steel.

 Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.

 Front 10° slanted to offer operator comfort while working for long time, reduce glare and maximize reach into the work area

 Large LCD display, all information displayed.



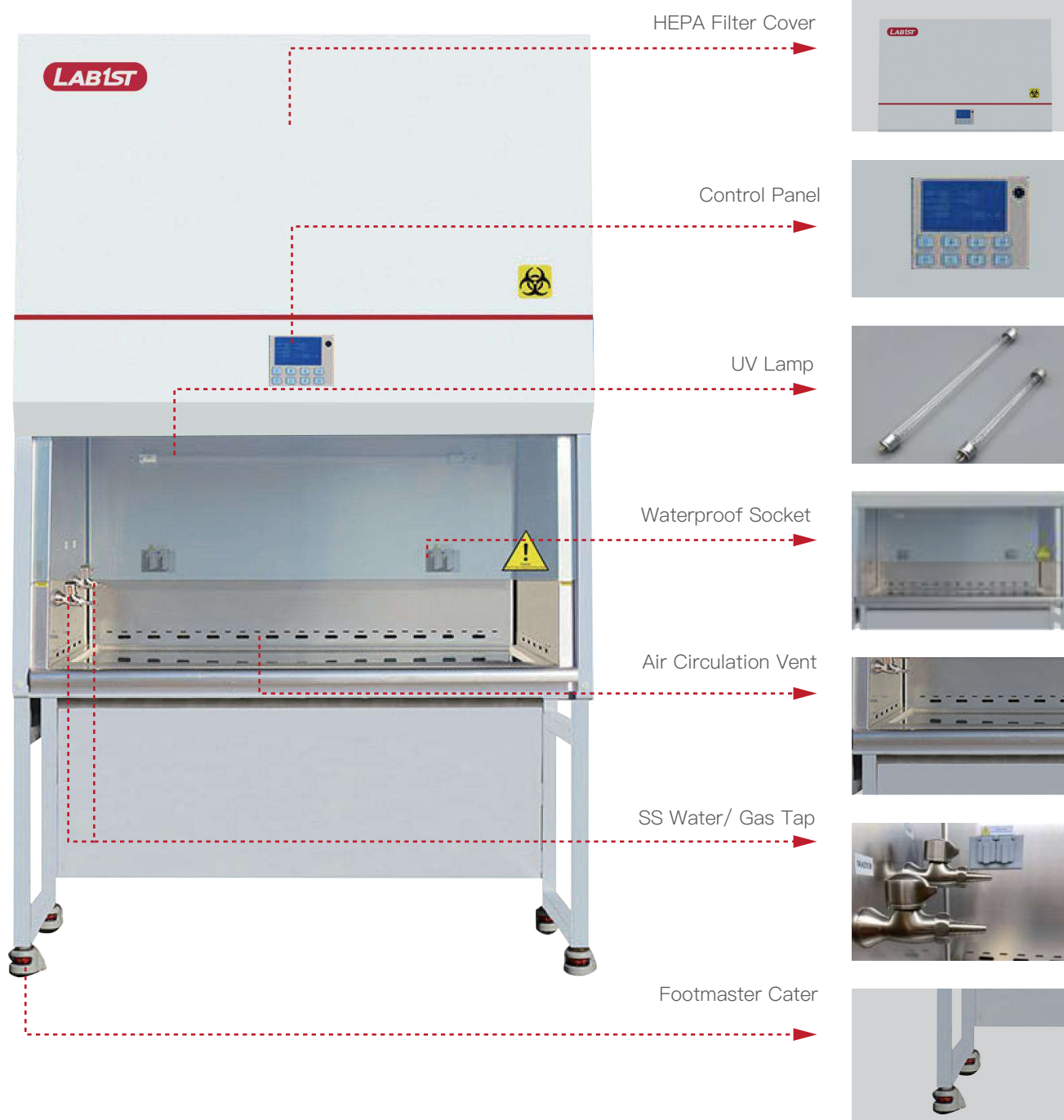
-  Room Air
-  Contaminated Work Chamber Air
-  HEPA/ULPA Filtered Air
-  Protected Area
-  Un-Protected Area

Multiple protection: operator, sample and environment.

Airflow system: 70% air recirculation, 30% air exhaust.



Structure Diagram

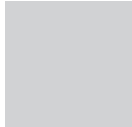


Model		BSC-4FA2-NSF	BSC-3FA2-NSF
External Size(W*D*H)		1383*775*2295mm	1087*775*2265mm
Internal Size(W*D*H)		1210*600*660 mm	910*600*660mm
Work Surface Height		750mm with optional base stand	
Max Opening		550mm (22")	520mm (20.5")
Tested Opening		Safety height 200mm (8")	Safety height 254mm(10")
Airflow	Inflow	462m ³ /h (272cfm)	445m ³ /h (259cfm)
Volume	Downflow	65%: 863m ³ /h (507cfm)	60%: 649m ³ /h (382cfm)
	Exhaust	35%: 462m ³ /h (272cm)	40%: 445m ³ /h (259cfm)
Front Window		Motorized. Two-layer laminated toughened glass ≥6mm. Anti UV	
HEPA Filter		Two, 99.995% efficiency at 0.3μm, filter life indicator	
Filter Guard Type		Aluminum alloy frame, glass fiber filter paper	
Noise		NSF 49≤67dB	
Illumination		≥1000Lux	
Display		LCD Display	
Waterproof Socket		Two; Total consumption:≤500W	
Tap		Water tap*1, Gas tap*1	
Ground Resistance		≤0.10Ω	
Power Supply		AC230V, 50/60Hz; AC115V, 60Hz; Full load Amps: 9A, BTU/Hr: 1689	
Consumption		500W	400W
Alarm		Abnormal airflow velocity; Filter replacement; Front window at unsafe height; High filter pressure alarm	
DC Motor		One ECM motor, 115V& 230V acceptable, Speed adjustable, high efficiency and low power consumption	
Material		Working area: 304stainless steel	
		Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating	
UV Lamp		30W	20W
		Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination	
Illuminating Lamp		18W*2	10W*2
		LED lamp	
Standard Accessory		LED lamp*2, UV lamp*1, Base stand, SS water tap*1, SS gas tap*1, Drain valve, Waterproof sockets*'2, Stainless Steel IV Bar with 10 hooks, Remote control	
Optional Accessory		Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Electric height adjustable base stand	
Package Size(W*H*D)		1540*1080*1900mm	1240*1060*1900mm
Gross Weight		340kg	270kg

Model		BSC-4FA2-NSF (GL)	BSC-6FA2-NSF
External Size(W*D*H)		1383*775*2295mm	1873*775*2295mm
Internal Size(W*D*H)		1210*600*660 mm	1700*600*660 mm
Work Surface Height		750mm with optional base stand	
Max Opening		550mm(22")	550mm(22")
Tested Opening		Safety height 254mm(10")	Safety height 254mm(10")
Airflow	Inflow	587m ³ /h (346cfm)	824m ³ /h (485cfm)
Volume	Downflow	60%: 863m ³ /h (507cfm)	60%: 1212m ³ /h (713cfm)
	Exhaust	40%: 587m ³ /h (346cfm)	40%: 824m ³ /h (485cfm)
Front Window		Motorized. Two-layer laminated toughened glass ≥6mm. Anti UV.	
HEPA Filter		Two, 99.995% efficiency at 0.3μm, filter life indicator.	
Filter Guard Type		Aluminum alloy frame, glass fiber filter paper	
Noise		NSF 49≤67dB	
Illumination		≤1000Lux	
Display		LCD Display	
Waterproof Socket		Two; Total consumption: ≤500W	
Tap		Water tap*1, Gas tap*1	
Ground Resistance		≤0.10Ω	
Power Supply		AC230V, 50/60Hz; AC115V, 60Hz; Full load Amps: 9A, BTU/Hr: 1689	
Consumption		500W	700W
Alarm		Abnormal airflow velocity; Filter replacement; Front window at unsafe height; High filter pressure alarm	
DC Motor		One ECM motor, 115V& 230V acceptable, Speed adjustable, high efficiency and low power consumption	
Material		Working area: 304stainless steel Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating	
UV Lamp		30W	40W
		Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination	
Illuminating Lamp		18W*2	22W*2
		LED lamp	
Standard Accessory		LED lamp*2, UV lamp*1, Base stand, SS water tap*1, SS gas tap*1, Drain valve, Waterproof sockets*2, Stainless Steel IV Bar with 10 hooks, Remote control	
Optional Accessory		Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Electric height adjustable base stand	
Package Size(W*H*D)		1540*1080*1900mm	2020*1080*1900mm
Gross Weight		340kg	370kg



BSC-2FA2-NSF



Front Window

Two-layer laminated toughened glass >6mm, Anti UV



Footmaster Caster

Universal caster with brake and leveling feet.



UV Lamp

Emission of 253.7 nanometers for most efficient decontamination



SS Water Tap & Gas Tap



Waterproof Socket



Model	BSC-2FA2-NSF
External Size(W*D*H)	700×650×1920mm
Internal Size (W×D×H)	600×500×540mm
Work Surface Height	750mm
Max Opening	370mm
Tested Opening	Safety height 254mm (10")
Inflow	290m ³ /h (170cfm)
Downflow	55%: 360m ³ /h (211cfm)
Exhaust	45%: 290m ³ /h (170cfm)
Front Window	Two-layer laminated toughened glass >6mm, Anti UV
ULPA Filter	≥99.9995% efficiency at 0.12μm
Filter Guard Type	Aluminum alloy frame
Noise	NSF 49 ≤67dB
Illumination	≥1000Lux
Display	Capacitive touch screen
Waterproof Socket	Two, Total consumption ≤500w
Ground Resistance	≤0.1Ω
Power Supply	AC230V, 50/60Hz; AC115V, 60Hz, Full load Amps: 9A, BTU/Hr: 1689
Consumption	≤500W
Alarm	Abnormal airflow velocity; Filter replacement; Front window at unsafe height
Motor	One EC fan, 115V&230V acceptable, Speed adjustable, High efficiency and low power consumption
Material	Working area: 304 stainless steel Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating
UV Lamp	15W
LED Lamp	10W×2
Standard Accessory	LED Lamp×2, UV lamp, Base stand, Drain valve, Waterproof sockets
Optional Accessory	Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Remote control, SS water tap×1, gas tap×1
Net Weight	150Kg
Package Size (W×D×H)	Carton: 800×850×1350mm
Gross Weight	170Kg