



Biological Safety Cabinet

/ Laboratory and Processing Equipment



LAB1ST / Laboratory and Processing Equipment

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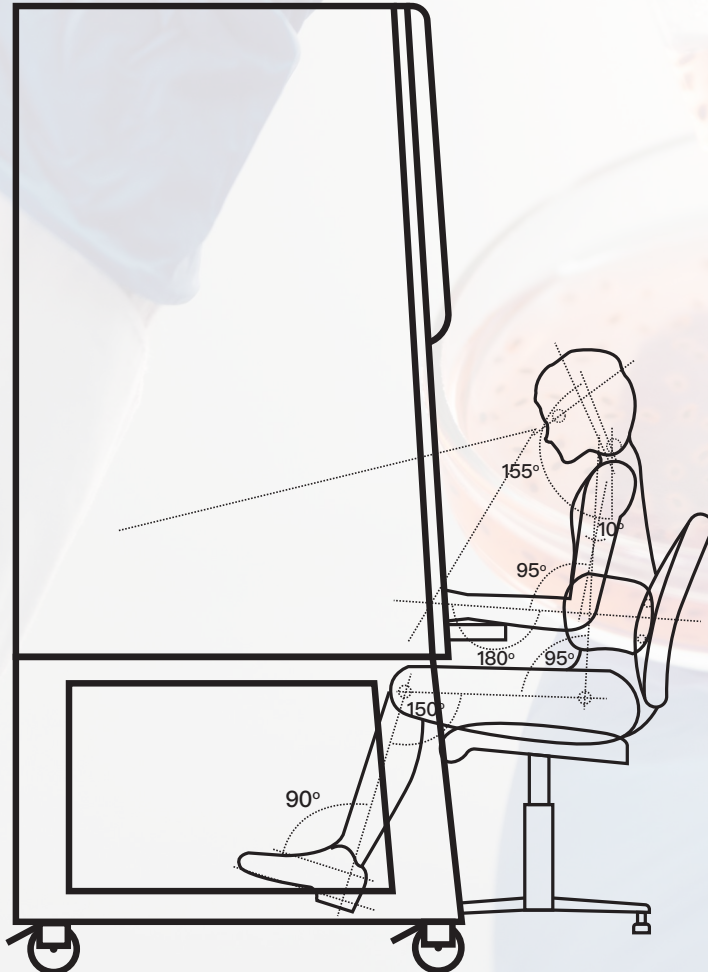
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Biological safety cabinet

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 **CE/EN12469** certification respectively.





- Remote Control for Convenient Operation








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.


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

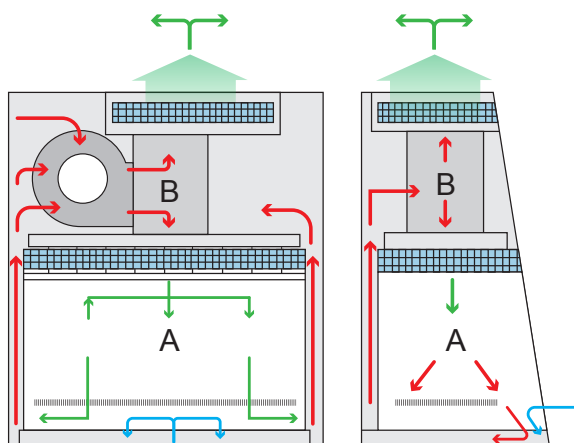
 Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.

 Automatic air speed adjustable with filter block.

 With memory function in case of power-failure.

 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.



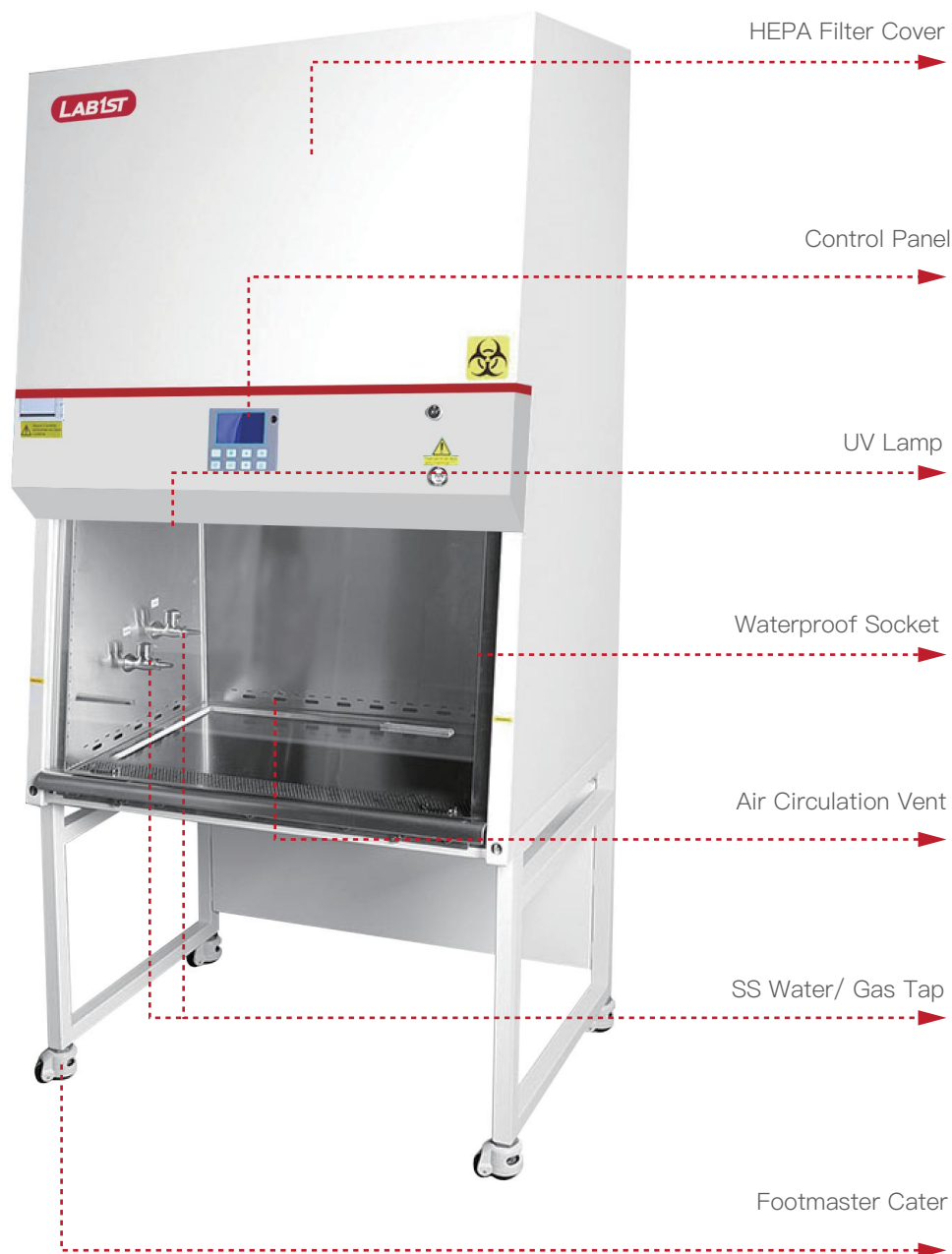
-  Room Air
-  Contaminated Work Chamber Air
-  HEPA/ULPA Filtered Air
-  Protected Area
-  Un-Protected Area

Multiple protection: operator, sample and environment.

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



Structure Diagram



Model		BSC-3FA2-EN	BSC-4FA2-EN
External Size(W*D*H)		1087*775*2265mm	1383*775*2295mm
Internal Size(W*D*H)		910*600*660mm	1210*600*660mm
Work Surface Height		750mm	
Max Opening		520mm(21")	550mm(22")
Tested Opening		Safety height 200mm(8")	
Airflow	Inflow	348m ³ /h (205cfm)	462m ³ /h (272ctm)
Volume	Downflow	65%: 649m ³ /h (382cfm)	65%: 863m ³ /h (507cfm)
	Exhaust	35%: 348m ³ /h (205cfm)	35%: 462m ³ /h (272cfm)
Front Window		Manual. Laminated toughened glass. Anti UV	
HEPA Filter		Two, 99.995% efficiency at 0.3μm, filter life indicator	
Filter Guard Type		Aluminum alloy frame	
Noise		EN12469 ≤ 65dB	
Illumination		≤1000Lux	
Display		LCD Display	
Waterproof Socket		2, Total consumption:≤500W	
Tap		Water tap*1, Gas tap*1	
Ground Resistance		≤0.10Ω	
Power Supply		AC230V,50Hz	
Consumption		≤550W	≤650W
Alarm		Abnormal airflow velocity, Filter replacement, Front window at unsafe height, High filter pressure alarm	
AC Motor		One ECM motor, 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 powder coating	
UV Lamp		20W	30W
		Germicidal UV lamp, Emission of 253.7nanometers for most efficient decontaminaton, UV timer, UV life indicator	
LED lamp		10W*2	18W*2
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 I.V. bar with 10 hooks, Remote control	
Optional Accessory		Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer Electric height adjustable base stand, Motorized front window	
Package Size (W*D*H)		1240*1060*1900mm	1540*1080*1900mm
Gross Weight		270kg	340kg