



# Biological Safety Cabinet

/ Laboratory and Processing Equipment



**LAB1ST** / Laboratory and Processing Equipment

Labfirst Scientific Instruments (Shanghai) Co., Ltd

☎ +86-13524020331 (China)

+1-844-452-2178 (USA)

✉ sales@lab1st.com

🌐 www.lab1st.com

📘 lab1st

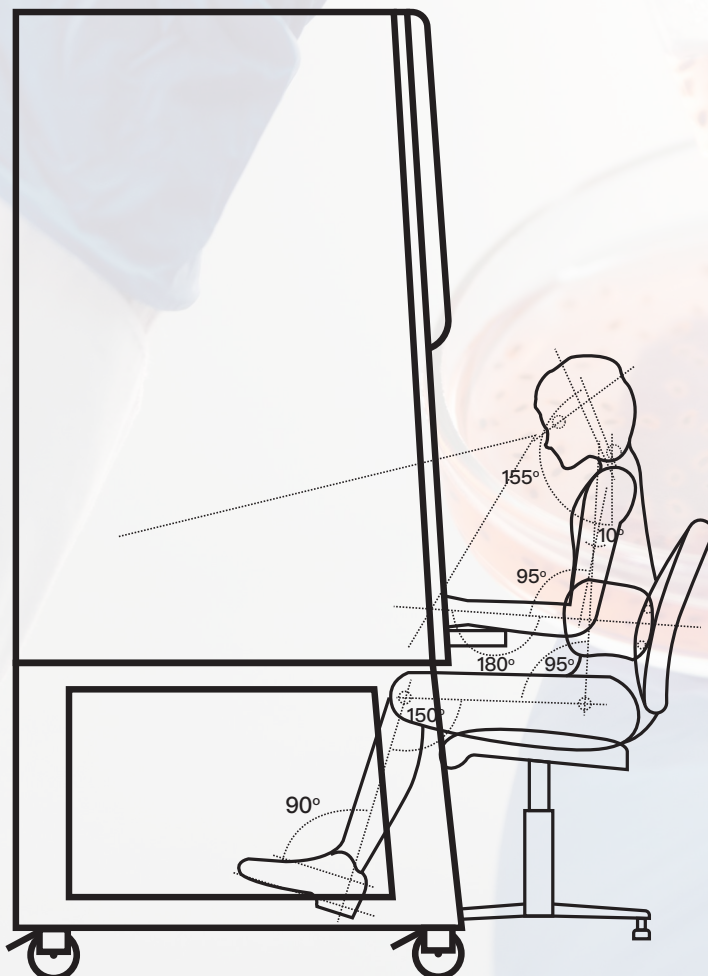
📷 lab1st\_extraction



## 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 different certification respectively.


- The integrated design of the operation area makes it easy to disassemble and clean.
- The cabinet is separated from the base and the height of the base can be customized (make it adjustable).
- The negative pressure air duct is equipped with a foreign matter filtering structure to prevent foreign matter such as paper scraps from entering the fan system and affecting the normal operation of the product.
- One-piece hand rest has a large flat surface, which has a larger contact area with the arm and is more comfortable.
- It has the function of appointment timing, which can automatically set the time of starting and shutting down the safety cabinet and the running time of ultraviolet lamps, fans and sockets.








## 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.

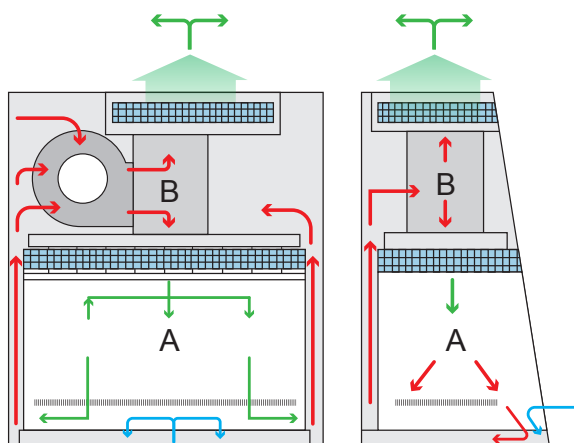
 Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.

 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



HEPA Filter Cover



Control Panel



UV Lamp



Waterproof Socket



Air Circulation Vent



SS Water/ Gas Tap



Footmaster Cater



Model	BSC-2FA2	BSC-3FA2	BSC-4FA2
External Size(W*D*H)	700*650*1920mm	1100*755*2200mm	1500*755*2200mm
Internal Size(W*D*H)	600*500*540mm	940*600*660mm	1350*600*660mm
Tested Opening	Safety height 200mm (8")		
Max Opening	350mm (14")	440mm (17")	
Inflow Velocity	0.53±0.025m/s		
Downflow Velocity	0.33±0.025m/s		
ULPA Filter	Two, 99.9995% efficiency at 0.12µm, filter life indicator		
Front Window	Motorized. Two-layer laminated toughened glass≥6mm. Anti UV		
Noise	≤65dB		
UV Lamp	15W*1	30W*1	40W*1
	UV timer, UV life indicator, emission of 235.7 nanometers for efficient decontamination		
LED Lamp	8W*2	12W*2	16W*2
Illumination	≥1000Lux		
Consumption	≤500W	600W	1300W
Waterproof Socket	Two, total load of two sockets: 500W		
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity. filter life, humidity and temperature, system working time etc		
Control System	Microprocessor		
Airflow System	70% air recirculation; 30% air exhaust		
Visual and Audio Alarm	Abnormal airflow velocity, filter replacement, front window at unsafe height, high filter pressure alarm, abnormal power failure		
Material	Work Zone: 304 stainless steel Main Body: Cold-rolled steel with anti-bacteria powder coating		
Work Surface Height	750mm (customizable)		
Caster	Footmaster caster		
Power Supply	AC220V 50/60Hz; 110V 60Hz (customizable)		
Standard Accessories	LED lamp 2pcs; UV lamp 1pc; Base stand; Remote control; Foot switch; Drain valve; Waterproof socket 2pcs		
Optional Accessories	Water and gas tap; Electric height adjustable base stand; Armrest		
Gross Weight	165kg	220kg	316kg
Package Size (W*D*H)	800*880*1500mm	1230*1060*1840mm	1630*1060*1840mm

Model	BSC-5FA2	BSC-6FA2
External Size(W*D*H)	1800*755*2200mm	1950*800*2170mm
Internal Size(W*D*H)	1625*600*660mm	1800*600*660mm
Tested Opening	Safety height 200mm (8")	
Max Opening	440mm (17")	
Inflow Velocity	0.53±0.025m/s	
Downflow Velocity	0.33±0.025m/s	
ULPA Filter	Two, 99.9995% efficiency at 0.12µm, filter life indicator	
Front Window	Motorized. Two-layer laminated toughened glass≥6mm. Anti UV	
Noise	≤65dB	
UV Lamp	40W*1	40W*1
	UV timer, UV life indicator, emission of 235.7 nanometers for efficient decontamination	
LED Lamp	16W*2	12W*4
Illumination	≥1000Lux	
Consumption	1300W	1700W
Waterproof Socket	Two, total load of two sockets: 500W	
Display	LCD display: exhaust filter and downflow filter pressure, filter and UV lamp working time, inflow and downflow velocity. filter life, humidity and temperature, system working time etc	
Control System	Microprocessor	
Airflow System	70% air recirculation; 30% air exhaust	
Visual and Audio Alarm	Abnormal airflow velocity, filter replacement, front window at unsafe height, high filter pressure alarm, abnormal power failure	
Material	Work Zone: 304 stainless steel Main Body: Cold-rolled steel with anti-bacteria powder coating	
Work Surface Height	750mm (customizable)	
Caster	Footmaster caster	
Power Supply	AC220V 50/60Hz; 110V 60Hz (customizable)	
Standard Accessories	LED lamp 2pcs; UV lamp 1pc; Base stand; Remote control; Foot switch; Drain valve; Waterproof socket 2pcs	
Optional Accessories	Water and gas tap; Electric height adjustable base stand; Armrest	
Gross Weight	366kg	420kg
Package Size (W*D*H)	1930*1060*1840mm	2080*1060*1840mm