

Biological Safety Cabinet



Class II Type A2 biosafety cabinet that protects the operator, the sample and the lab environment when handling BSL-1 and BSL-2 agents.

Triple protection system

Protection type	Function
Personnel protection	Prevents exposure to hazardous aerosols through controlled vertical laminar airflow
Product protection	Maintains a sterile ISO-class airflow over samples and materials
Environmental protection	Safely exhausts 30% of air through HEPA filtration back into the laboratory

Key features

Airflow system

- Vertical laminar airflow with 70% HEPA-filtered air recirculation
- 30% HEPA-filtered exhaust air safely returned to the room
- Suitable for biological applications (not designed for volatile chemicals)

HEPA filtration system

- Dual H14 HEPA filters with 99.995% efficiency at 0.3 μm
- Pre-filter for coarse particle and dust protection
- Continuous airflow monitoring system
- Automatic alarms for airflow deviation or system faults

Smart control interface

- Full-function digital LCD control panel
- Airflow speed adjustment and filter life monitoring



- UV sterilization timer (pre/post operation cycles)
- Safety alarms for sash opening, low airflow, or UV operation

Ergonomic work zone design

- 5° inclined front safety glass sash with smooth counterbalanced movement
- Seamless AISI 304 stainless steel internal chamber for easy cleaning
- High-intensity LED/fluorescent lighting for excellent visibility
- Integrated internal power sockets for laboratory equipment

Applications

- Clinical microbiology laboratories
- Bacterial and viral research facilities
- Academic and teaching laboratories
- Molecular biology sample preparation
- Pharmaceutical quality control laboratories

Models and specifications

Model	Internal size (W×D×H) (cm)	External size (W×D×H) (cm)	Filtration system	Lighting	Control display	Exhaust system
LXBS-60A2	60 × 60 × 65	70 × 75 × 220	Dual H14 HEPA	LED / fluorescent	LCD	30% external exhaust
LXBS-90A2	90 × 60 × 65	100 × 75 × 220	Dual H14 HEPA	LED / fluorescent	LCD	30% external exhaust
LXBS-120A2	120 × 60 × 65	130 × 75 × 220	Dual H14 HEPA	LED / fluorescent	LCD	30% external exhaust

Warranty

One-year comprehensive warranty on all devices · Two-year warranty against manufacturing defects · Maintenance contract after the warranty period