

**labodam**



# **Biosafety Cabinet Class I**

## **LD-LBS1-A1 Series**

Biosafety Cabinet Class I LD-LBS1-A1 series has the most basic design of all biological safety cabinets. Class I cabinet is designed as a ventilation cabinet for personnel and environmental protection. It is mainly used to protect operator from aerosol contamination. It is used when working with low to moderate risk biological agents e.g. non-sterile hazardous drug compounding, aerating cultures. It has compact size that can fit even in small laboratory spaces. With negative pressure air inlet in front window of Class I biological safety cabinet which can protect the operators and the exhaust air goes through HEPA filter which can protect the environment. They are suitable for use with hazard group 1, 2 or 3 biological agents and not for group 4.

## Features

- Microprocessor control system.
- Soft touch control panel, LCD display for easy monitoring of parameters.
- UV lamp for sterilization with emission of 253.7 nanometers for most efficient decontamination, HEPA Filter with 99.999% efficiency at 0.3  $\mu\text{m}$ .
- Incorporated with memory function in case of power-failure.
- Energy-saving, high efficiency, low noise.
- Work zone made up of 304 stainless steel.
- Stable air flow system; protecting to person and environment.
- Space saving Equipment Can fit in small lab, easy to use, operate and maintain.
- Electric height adjustable stand as an optional accessory.

## Application

Biosafety Cabinet Class I is widely used in research, pharmaceutical laboratories, universities, colleges and hospitals. It is suitable to use for basic microbiological work to reduce laboratory-acquired infections and cross-contaminations of cultures, in cancer research labs to protect the environment from biological agents and carcinogens.

## Specification

Model	LD-LBS1-A10	LD-LBS1-A11	LD-LBS1-A12	LD-LBS1-A13
Noise	≤ 60 dB	≤ 55 dB	≤ 60 dB	≤ 67 dB
UV Lamp	15W x 1	20W x 1		
Power Consumption	150W	≤160W	≤400W	≤350W
HEPA Filter	99.999% efficiency at 0.3 μm			
Airflow Velocity	>0.3m/s	0.75~1.0m/s	>0.3m/s	0.75-1.0m/s
Illumination	4W x 1 LED Lamp	8W x 1 LED Lamp		21W x 2 Fluorescent Lamp
Main Body Construction	PMMA		Cold-rolled steel with anti-bacteria powder coating	
Work Table	304 Stainless Steel			
Caster	NA			Universal caster
Work Surface Height	NA			750mm
Power Supply	AC 220V ±10% , 50/60 Hz; 110V ±10% ,60 Hz			
Package Size (W×D×H)	710 x 550 x 950 mm	870 x 720 x 1170 mm	1060 x 870 x 1440 mm	1270 x 880 x 2230 mm
External Size (W×D×H)	550 x 395 x 730 mm	700 x 550 x 900 mm	900 x 713 x 1250 mm	1100 x 695 x 1924 mm
Internal Size (W×D×H)	540 x 385 x 440 mm	680 x 540 x 500 mm	800 x 635 x 600 mm	968 x 695 x 630 mm
Gross Weight	38 kgs	68 kgs	147 kgs	185 kgs
Standard Accessory	LED lamp, UV lamp x 2			Fluorescent lamp, UV lamp x 2, Base stand
Optional Accessory	Electric height adjustable base stand			