

# Biological Safety Cabinet

## Safe Working Environmental

### BSC Class II Type A2 LMBSF-200

LuxMed® Biological Safety Cabinet Class II Type A2 LMBSF-200 Series is designed with inward air flow velocity (0.55m/s) for personnel protection, HEPA- filtered laminar airflow for product protection and HEPA-filtered exhausted air for environmental protection. It is suitable for microbiological research in the absence of volatile or toxic chemicals and radionuclide, since air is recirculated within the work area.

#### Features

- Two-layered marinated toughened glass ( $\geq 5\text{mm}$ ) motorized front window.
- Negative air pressure provides personnel protection by constant movement of air in working area.
- Remote control operation including front sash movement and fan speed control.
- Motored front window with timer function.
- Digital LCD display for easy monitoring of all parameters.
- Emission of 253.7 nm for highly efficient decontamination.
- Foot switch to adjust the height of the front window.
- 2 waterproof sockets located in side panel.
- Air speed adjustable by control panel. Air drawn into the cabinet through air grill.
- Collecting tank (4000 ml) collects spatters of working area without any leakage.
- Intrinsic sterilization is achieved after activating cabinet for 30 min via UV timing.
- Blower with Double Suction Capacity, Ranges From 2500-2700 m<sup>3</sup>/h.
- Filter Life Indicator: Pressure value displayed to show life utility of main filter.
- Stainless Steel 304 table for operation.
- Low noise and high energy efficiency for operational cost savings.
- Interlock function: UV lamp and front window, UV lamp and blower, fluorescent lamp, blower and front window.
- Audio and visual alarm for filter replacement, front window over height and abnormal airflow.



#### Optional:

- Airflow Tester
- Infrared Sterilizer
- Formalin Fumigation Sterilizer
- Armrest

#### Application

LuxMed® Biological Safety Cabinet Class II is designed to meet diverse applications in life science, clinical, microbiology, genetics, plant and animal cell culture, molecular biology, pharmaceutical and industrial laboratory.

#### Specification

Model	LMBSF-201	LMBSF-202	LMBSF-203	LMBSF-204	LMBSF-205
Type	Class II, Type A2				
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating				
HEPA Filter	2				
HEPA Filter Efficiency	99.999% efficiency at 0.3 $\mu\text{m}$				
Air Flow System	70% Air Recirculation, 30% Air Exhaust				
Inflow Air Velocity	$0.53 \pm 0.025 \text{ m/s}$ (105 lpm)				
Down Flow Air Velocity	$0.33 \pm 0.025 \text{ m/s}$ (70 lpm)				
Inflow Air Flow Volume (m <sup>3</sup> /h)	359	420	515	653	687
Down Flow Air Flow Volume (m <sup>3</sup> /h)	516	772	717	949	1042
Exhaust Air Flow Volume (m <sup>3</sup> /h)	359	420	515	653	687
Minimum Face Velocity	75 linear feet per minute (lpm)				
Clean Level	100				
Tested Opening	Safety Heights $\leq 200 \text{ mm}$				
Max Opening	400 mm				
Noise Level	$\leq 58\text{dB(A)} - \leq 65\text{dB(A)}$				
Illumination	800 Lux	800 Lux	800 Lux	800 Lux	1200 Lux
UV Lamp	30Wx1	30Wx1	40Wx1	40Wx2	40Wx1
Fluorescent Lamp	21Wx2	21Wx2	28Wx2	40Wx2	40Wx1
Display	VFD	VFD	VFD	LCD	LCD
Control System	Microprocessor				
Work Surface Height	750 mm				
Water & Gas Tap	Water Tapx1, Gas Tapx1 (Optional)				
Filter Guard Type	Aluminium Alloy Frame				
Caster	Universal Wheel with brake and levelling feet				
Ground Resistance	$<0.1\Omega$				
Standard Accessory	Fluorescent Lamp, UV Lampx2, Remote Control, Foot Switch, Drain Valve, Waterproof Sockets, Base Stand				
Inner Dimension (WxDxH)	940x600x660 mm	1150x600x660 mm	1350x600x660 mm	1710x600x660 mm	1800x600x660 mm
Overall Dimension (WxDxH)	1100x750x2250 mm	1300x850x2250 mm	1500x750x2250 mm	1870x750x2290 mm	1950x800x2305 mm
Power	760 W	800 W	900 W	900 W	1500 W
Power Supply	230V /240V, 50 Hz/60 Hz				
Weight	243 kg	280 kg	316 kg	395 kg	420 kg

M: +91 8130383561, 9350831213 | E: [cto@luxmed.in](mailto:cto@luxmed.in)

SCAN & SEND MESSAGE :



SCAN & FOLLOW US ON :

