

Biological Safety Cabinet

Safe Working Environmental

BSC Class II Type B2 LMBSF-400 Series

LuxMed® Biological Safety Cabinet Class II Type B2 LMBSF-400 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.

LuxMed® Air Flow Sensor

Registered Design No.: 374335-001



Ergonomic Display and Control



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.
- 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.
- Air drawn into the cabinet through air grill.
- Filter Life Indicator: Pressure value displayed to show life utility of main filter.
- Emission of 253.7 nm for highly efficient decontamination.
- Foot switch to adjust the height of the front window.
- Stainless Steel 304 table for operation.
- Low noise and high energy efficiency for operational cost savings.
- Audio and visual alarm for filter replacement, front window over height and abnormal airflow.

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-401	LMBSF-202	LMBSF-203	LMBSF-204
Type	Class II, Type B2			
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating			
HEPA Filter	2			
HEPA Filter Efficiency	99.999% efficiency at $0.3\text{ }\mu\text{m}$			
Air Flow System	0% Air Recirculation, 100% Air Exhaust			
Inflow Air Velocity	$0.53 \pm 0.025\text{ m/s}$ (105 lfpm)			
Down Flow Air Velocity	$0.33 \pm 0.025\text{ m/s}$ (70 lfpm)			
Minimum Face Velocity	75 linear feet per minute (lfpm)			
Inflow Air Flow Volume (m^3/h)	359	420	515	637
Down Flow Air Flow Volume (m^3/h)	516	772	771	949
Exhaust Air Flow Volume (m^3/h)	875	1192	1286	1586
Tested Opening	Safety Heights $\leq 200\text{ mm}$			
Max Opening	100			
Clean Level	400 mm			
Max Opening	$\leq 58\text{dB(A)} - \leq 65\text{dB(A)}$			
Noise Level	$\geq 1000\text{ Lux}$			
Illumination	20Wx1	20Wx1	30Wx1	40Wx1
UV Lamp	21Wx1	21Wx1	28Wx1	35Wx2
Fluorescent Lamp	VFD	LCD	VFD	VFD
Display	Microprocessor			
Control System	750 mm			
Work Surface Height	Motorized			
Front Window	Water Tapx1, Gas Tapx1			
Water & Gas Tap	Aluminium Alloy Frame			
Filter Guard Type	$<0.1\Omega$			
Ground Resistance	Universal Wheel with brake and levelling feet			
Caster	Fluorescent Lamp, UV Lampx2, Remote Control, Foot Switch, Exhaust Blower			
Standard Accessory	(4 meter PVC Duct, 300mm Diameter), Exhaust Duct, Drain Valve, Waterproof Sockets, Base Stand			
Inner Dimension (WxDxH)	940x600x660 mm	1100x600x660 mm	1350x600x620 mm	1600x670x630 mm
Overall Dimension (WxDxH)	1100x750x2250 mm	1300x850x2200 mm	1500x760x2250 mm	1800x840x2275 mm
Power	1050 W	1350 W	1550 W	1900 W
Power Supply	230V /240V, 50 Hz/60 Hz			
Weight	350 kg	360 kg	440 kg	470 kg

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