

Cleanroom and
Biological Safety

PRODUCT &
SERVICES

LuxMed[®]
Healthcare Redefined

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LUXLIGHTING TECHNOLOGY PRIVATE LIMITED

Markets We Serve

Laboratory
Pharmaceutical
Biomedical

EQUIPMENT'S



Biological Safety Cabinet



Fume Hood



Laminar Flow Cabinet



INTEGRATED SOLUTIONS

Clean Room

Biotechnology

Horticulture

Research & Development

Medical Pathology

Chemical Industries

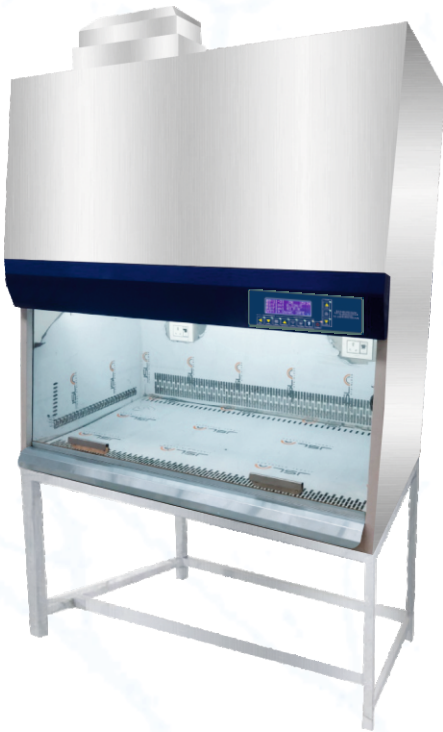
Pharmaceutical Industries

Biomedical Engineering

LuxMed[®] a testament to the Make in India mission, a global force redefining healthcare.

Biological Safety Cabinet

Safe Working Environmental

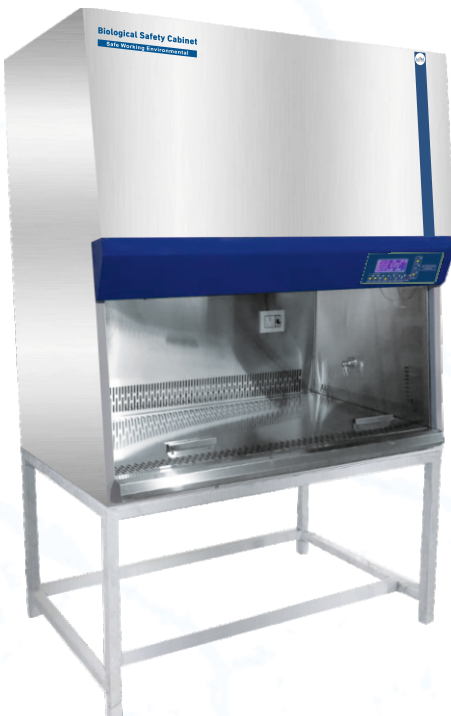


BSC Class II Type B2 LMBSF-400 Series

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.

BSC Class III-500 Series

LuxMed® Biological Safety Cabinet Class III-500 Series provides a physical barrier between biological agents and personnel. It is designed to work with level 4 pathogens. It involves a gas tight chamber with complete negative pressure inside and pair of gloves in operation area which prevents direct contact with the hazardous materials. The airflow is maintained by a dedicated exterior exhaust system.



BSC Class II Type A2 LMBSF-200

LuxMed® Biological Safety Cabinet Class I LMBSF-100 a negative-pressure ventilated cabinet providing personnel and environmental protection for handling of low risk aerosols and particulate matter. It is operated with an open front and a minimum face velocity at the work opening of at least 75 linear feet per minute (lfpm). The air flows through the cabinet carrying contaminants with it, exiting through a HEPA filter, either into the laboratory or to outside.



Laminar Flow Cabinet

Safe Working Environmental

Horizontal Laminar Airflow LM-LAFH-200 Series



Low noise level

Low power consumption

Comfortable lighting and legroom

Equipped with an energy-efficient motor/blower

Intuitive and easy-to-use microprocessor controller

Stable and self-compensating airflow

LuxMed[®] Horizontal Laminar Airflow Cabinet LM-LAFH-200 Series are designed to provide a clean air environment for research operation which required complete anti-bacterial working area. The series involves constant positive pressure inside the cabinet which prevents intake of contaminated air.

Features

- Cold-rolled steel with anti-bacterial powder coating exterior and SS 304 interior for operations.
- Anti-ultraviolet radiation, toughened glass ($\geq 5\text{mm}$) side window.
- Motorized front window and UV timer available only for LM-LAFH-203 and LM-LAFH-204 Washable.
- Washable polyester fiber pre-filter with 85% efficiency at 5um large particles
- Microprocessor control system with LCD/LED display
- Direct drive high strength motor with impellers to deliver consistent airflow with lesser noise and vibration
- Wind speed can be adjusted

Application

LuxMed[®] Horizontal Laminar Airflow Cabinet is used in research and manufacturing to other fields such as aerospace, bioscience, pharmaceutical production and food processing, medical research laboratories, hospitals, manufacturing facilities and other research and production environments.

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Static & Dynamic Pass Box

Safe Working Environmental

It is widely used in the place where the clean air is needed, such as micro technology, biological laboratory, pharmaceutical factory, hospital, food processing industry, LCD, electronic factory.

Pass box is used to transfer goods between rooms of different clean levels of clean room. It can reduce times of opening door, prevent the air convection between different rooms and minimize the pollution extent.



Models:

Type	AirShower Pass Box			PassBox		
Model	LMLMAS-01	LMLMAS-02	LMLMAS-03	LMPB-01	LMPB-02	LMPB-03
External size (W*D*H) mm	660*570*1000	760*670*1100	860*770*1200	660*570*580	760*670*680	860*770*780
Internal size (W*D*H) mm	500*500*500	600*600*600	700*700*700	500*500*500	600*600*600	700*700*700
Material	304 Stainless steel					
Interlock	Electronical					
UV Lamp	8W*1	15W*1		8W*1	15W*1	
HEPA Filter	Efficiency ≥99.999% at 0.3um			/		
Clean air speed	0.36~0.54m/s			/		
Gross Weight(Kg)	80	100	125	55	70	90
Packing Size (W*D*H)mm	780*690*1190	880*790*1290	980*890*1390	780*690*770	880*790*870	980*890*970

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Air Shower

Air shower is ideal supporting equipment for biological clean rooms and clean workshops. They are widely used for blowing off humans' and their belongings' surface dusts in micro-electronics, hospitals, pharmaceuticals, biochemical, food safety, fine chemical engineering, fine mechanics, productive facilities and scientific and research institutes, such as aviation and aerospace. Meanwhile, air showers also work as an air brake to prevent unpurified air from entering clean space. In one word, it is an effective equipment for cleansing humans and anti-air pollution in clean space.

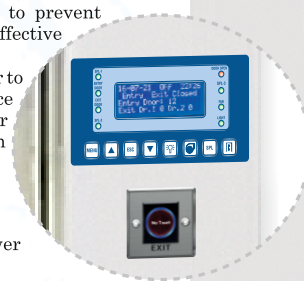
Air shower is a necessary passage for person entering clean room in order to minimize the amount of particulate contaminant, achieve workplace strict clean purification standards. Personnel move through the air shower while particulate contaminants are blown off by the clean high speed air. So the dust cannot be brought into clean area.

Features:

- Photoelectric sensor, automatic blowing.
- Designed with circulation wind to measure the cleanliness of shower area under non-shower status.
- Double doors with electric interlock.
- LED display with adjustable blowing time (0~99s).
- HEPA Filter, Class 100 cleanliness.

Models:

Model	LMAS-1P1S	LMAS-1P2S	LMAS-2P2S
External Size (W*D*H)	1300*1000*2050mm	1500*1000*2050mm	1500*2000*2050mm
Shower Area Size (W*D*H)	800*890*1930mm	800*890*1930mm	800*1890*1930mm
HEPA Filter	99.999% efficiency at 0.3 um		
Spraying Wind Speed	25m/s		
Air Shower Time	0~99s (adjustable)		
No. of SS Nozzles	6	12	24
Fluorescent Lamp	12W*1	12W*1	12W*2
Consumption	1000W	1500W	2000W
Cabinet Material (Optional)	1. Full cold-rolled steel with powder coating. 2. Internal stainless steel, external with cold-rolled steel. 3. Full Stainless Steel.		
Door Material (Optional)	1. Cold-rolled steel with powder coating. 2. Stainless Steel.		
Chassis	Stainless Steel		
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz		
Gross Weight	300kg	400kg	700kg
Package Size (W*D*H)mm	1400*1150*2200	1600*1150*2200	1600*1650*2200



Sterile Garment Cabinet

Luxmed® garment storage cabinets are the premium selection for the discerning user, offering a combination of value, high quality construction, low operating noise levels, and a wide product range to suit all budgets, from an industry leader.

Luxmed® garment storage cabinets make a positive contribution to maintaining the cleanliness of a cleanroom environment as it enables garments to be stored in a visible and organized manner.

Application:

Luxmed® garment storage cabinets make a positive contribution to maintaining the cleanliness of a cleanroom environment.

HEPA-filtered airflow keeps garments clean during storage and handling.

High quality HEPA filters utilizing an improved mini-pleated separation technique to maximize surface area improving efficiency and extending the filter life.

Filters operate at a typical efficiency of > 99.999% at 0.1 to 0.3 micron sizes, providing superior product protection over conventional HEPA filters

Enables garments to be stored in a visible and organized manner.

Luxmed® laminar flow cabinets provide ISO Class 3 air cleanliness within the work zone as per ISO 14644-1, 100 times cleaner than the usual Class 5 classification.

An additional disposable prefilter on all models traps large particles in the inflow air prior to reaching the main filter, protecting it against damage and prolonging its life

Features:

- Reliable rocker switches control the fan and lights and a Minihelic™ pressure gauge monitors cabinet operation.
Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue.
The reliable lighting system is zero-flicker and instant start.
- All components are designed for maximum chemical resistance and enhanced durability for a long service life.
- The main body of the cabinet is constructed with industrial-grade electrogalvanized steel.
- The cabinet can be designed as mobile with caster wheels or static via built-in leveling feet.
- All cabinet components are cleanroom compatible.
- Garment Storage eliminates 99.9% of surface bacteria within 24 hours of exposure.



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Fume Hood

The primary goal of the Fume Hood is to protect operators and laboratory environment from exposure to infectious aerosol and toxic gas which may be generated from the reaction during experiments.

Fume Hood is used to protect lab environment and operator during general chemical applications. It actively protects operator from inhaling toxic vapors and dramatically reduces the risk of fire and explosion. By installing proper filter, it can also protect environment.

Features:

- LCD Display: Microprocessor control system, LCD display
- Waterproof socket: 2 waterproof sockets are located in the top panel, for optimum convenience of using small devices inside the cabinet.
- Side glass window: The transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.

Advantage:

- Adjustable air speed: 9 levels.
- Microprocessor control system, LED display.
- Resistant to moderate acid and alkali.
- With memory function in case of power-failure.
- Manual front glass window, height adjustable.
- Built-in PP centrifugal blower; low noise, easy installation.

Models:

Model	FH1000(E)		FH1200(E)	FH1500(E)	FH1800(E)
External Size(W*D*H)	1000*800*2515mm		1200*800*2515mm	1500*800*2515mm	1800*800*2515mm
Internal Size(W*D*H)	790*600*870mm		990*600*870mm	1290*600*870mm	1590*600*870mm
Work Surface Height	900mm				
Max Opening	750mm				
Air Velocity	0.3—0.8m/s				
System Exhaust Volume	570 m3/h	710 m3/h	930 m3/h	1140 m3/h	
Noise	≤68dB				
Exhaust Duct	PVC, Standard length: 4 meters				
	φ300mm				
Pipe Strap	2 pcs				
LED Lamp	8W *1	12W *1	16W *1	16W *1	
Blower	Built-inPP centrifugal blower				
Front Window	Manual, 5mm toughened glass, height adjustable				
Power Supply	220V±10%, 60/50Hz;110V±10%, 60Hz				
Consumption	400 W	400 W	500 W	500 W	
	Exterior	1.0mm cold-rolled steel with bacteria power coating.			
Material	Interior	High grade melamine board with good acid and alkali resistance function			
	Work table	Chemical resistant phenolic resin			
Standard Accessory	Water tap, Water sink, LED lamp, Total load of 2 waterproof sockets: 500W, Built-in PP blower, 4 meters PVC exhaust duct, Pipe strap*2				
Optional Accessory	Gas tap				
Weight(Net/Gross)	250kg/270kg		275kg/300kg	300kg/330kg	330kg/365kg
Package	Main Body	1140*940*1850mm	1340*940*1850mm	1640*940*1850mm	1940*940*1850mm
	Base Cabinet	1140*940*1050mm	1340*940*1050mm	1640*940*1050mm	1940*940*1050mm

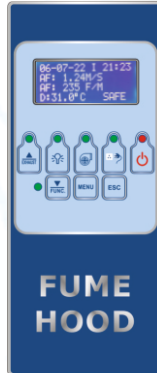
Standard Accessory:

Water tap, Water sink, LED lamp, Total load of 2 waterproof sockets: 500W, Built-in PP blower, 4 meters PVC exhaust duct, Pipe strap*2

Optional Accessory:

Gas tap

Model : FHV2022



L: 940mm X W: 227mm x H: 50mm



L: 90mm X W: 90mm X H: 50mm



Sampling / Dispensing Booth

Luxmed® Dispensing Booth is designed in compliance with international cGMP guidelines. It is fully equipped to provide operator, process, and/or product protection during open handling processes such as: weighing / dispensing or charging of powder into intermediate bulk container (IBC), bins or equivalent, and sampling in cGMP warehouses.

Standard Luxmed® Dispensing Booth has over 420 possible dimensional models with approximately 3.5 million possible system configurations. As an established manufacturer and supplier of sampling / dispensing booths, Luxmed® Dispensing Booth can guarantee a standard solution to fit your specific process and facility requirements. Should a standard option not fit your requirements, Luxmed® can offer a customized solution.

Application:

Air is delivered into the Operator's Breathing Zone (OBZ) via the overhead HEPA filters, thus providing a clean and safe environment.

Potential dust clouds are suppressed and removed via the exhaust filtration system.

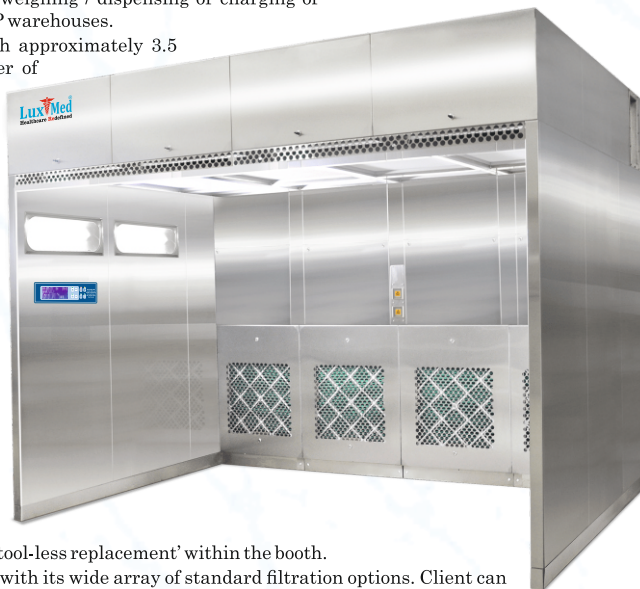
The operator carries out tasks in the high velocity zone at the rear of the Booth so that dangerous dusts will not rise into the breathing zone.

Product protection is assured by customising the downflow booth's layout to suit the processes being carried out.

The Booth provides a stand-alone work place that doesn't require the connection of external ventilation systems.

Features:

- Standard blowers used by Luxmed® are closed loop ECM fans. These are energy-efficient blowers with the ability to automatically adjust fan speed in response to filter loading.
- Noise level of ≤ 75 dBA can be achieved during factory testing; carried out in free field with clean filters and without sound foam.
- The sampling booth is equipped with knife-edge gel sealed filters capable for a 'rapid tool-less replacement' within the booth.
- Luxmed® Dispensing Booth can achieve ISO Class 5 air quality (at rest conditions) with its wide array of standard filtration options. Client can specify the type based on their application (dust burden level).
- Flush mounted energy efficient LED light fixtures in the booth side walls or ceiling ensures minimal glare and sufficient lighting in the work zone.
- LED lighting design placement ensures improved airflow regime with the minimum distance between the ceiling HEPA filters and diffusers.
- For powder coated sampling / weighing booths, Luxmed® Dispensing Booth utilizes the anti-microbial powder coating on all panels.



Ceiling Laminar Airflow (CLAF)

Luxmed® Ceiling Laminar Airflow (CLAF) unit is a containment equipment module utilizing a zoned unidirectional (laminar) downflow supply of air to positively pressurize and purge the working environment from potential contaminants; thereby providing enhanced aseptic work zones for maintaining process integrity and/or product protection.

Application:

- Medical Industry (i.e., operating theatre)
- High-End Electronics
- Pharmaceutical Industry
- Filling Line System ISO Class 5 coverage
- Nanotechnology
- Space Industry
- Research and Development Laboratories

Basic Principles:

- Ambient air is drawn through a prefilter before entering the perforated diffuser into the supply plenum to trap larger particles and increase the life of the main filter.
- The air is forced evenly through a special baffle system that channels the airflow through the gel-sealed HEPA filters, resulting in a laminar stream of clean air that is projected vertically over the internal work zone.
- The downflow supply of air from the ceiling laminar airflow unit flushes and dilutes all airborne contaminants; thereby, providing a particulate-free mobile work environment for enhanced aseptic operations/ processes with guaranteed low noise levels for operator comfort.

Features:

- Antimicrobial powder-coated steel or easy-to-clean stainless steel construction.
- Microprocessor control with audio/visual alarms for downflow velocity.
- Zoned magnehelic gauges for differential pressure across filters.
- Energy efficient teardrop lightings positioned away from downflow.
- Operating at low noise level allowing efficient and comfortable working environment conditions.
- HEPA/ULPA gel-sealed design is better than the conventional gasket sealed design.
- Provision of emergency stop button.



Models:

Model	CLAF		
Materials of Construction	PC - Powder coated EG Steel	S1 - Stainless Steel 304	S2 - Stainless Steel 316 L
Electrical Code	220-240 VAC 50/60 Hz	110-130 VAC 50/60 Hz	100-110 VAC 50/60 Hz
External Width	TBD*		
External Dimension	TBD*		
External Height	TBD*		
Fan	AC / EC		
Filter Type	H13	H14	U15



About Us

LuxMed® and Labosys® are a new high-tech enterprise whose business covers 4 verticals for equipment's design, manufacturing and project executions for success for our esteemed customer.

- Cleanroom and Biological safety product and services.
- Climatic Condition and Stability Chamber, Ultralow Deep Freezer.
- Hospital CSSD Equipment.
- Cell Culture Equipment - Cell Research Equipment's.

LuxMed® and Labosys® are provide one-stop solution, including Cleanroom and Biological safety product, Cell Culture Equipment, CSSD Equipment /sterilization, Climatic Condition and Stability Chamber design, manufacturing, project executions.

LuxMed® Brand offered the product ranges for healthcare sector Hospital Equipment's and Pharmaceutical Cleanroom products.

Labosys® Brand offered the product ranges for Laboratory, Research and Scientific instruments and equipment's.

Our Services Includes - Research, Design, Manufacturing, Execution, validation, verification, testing.

A full-fledged dedication and consistent effort accompanied by the professionally managed team to establish LuxMed® and Labosys® brand which with the passage of time made a mark in the scientific journey of his life and to top of all we worked passionately hard. A biomedical medical instrumentation professional from B.I.T. Mesra, Ranchi, dreamt big and formed the LuxMed® and Labosys® brand in instrument business to provide best in industries product, we emerged and how? Our strong foothold in scientific industry is due to the provision and efficiency that is achieved painstakingly at our extremely modern manufacturing unit.

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Power Press Machine



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Fibre Laser Cutting Machine 2KW

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