Vertical Laminar Flow Cabinet, HEPA 99.995% at 0.3 µm, 0.2-0.5 m/s Clean Bench with UV Lamp

Model **MSLCB-V3FSWISS,MSLCB-V4FSWISS,MSLCB-V5FSWISS,MSLCB-V6FSWISS** | Brand **Master Science**





The Master Science Vertical Laminar Flow Cabinet sends HEPA-filtered air straight down over the work surface in a steady, one-way stream, then out across the open front. Samples and sterile items inside stay protected from airborne particles in the room.

KEY HIGHLIGHTS

- Clean air where you work
- Built-in safety interlocks
- Plan filter changes ahead
- Comfortable for long sessions

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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www.themsci.com

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Overview

A perforated back wall cuts turbulence and removes dead corners in the work zone. A microprocessor controller with an LCD shows airflow, filter life and UV life at a glance. The cabinet comes in four widths, from about 1 m to nearly 2 m, all with a 304 stainless steel work zone.

If your process needs air moving towards the operator instead, compare the Master Science Vertical Laminar Flow Cabinet with our horizontal laminar flow cabinet.

The Master Science Vertical Laminar Flow Cabinet gives product protection for work such as:

Open benches let dust and microbes settle on sensitive work. The Master Science Vertical Laminar Flow Cabinet helps with:

Key Benefits

Clean air where you work
The Master Science Vertical Laminar Flow Cabinet bathes the work surface in HEPA-filtered air at an adjustable 0.2-0.5 m/s.

Built-in safety interlocks
The sash is interlocked with the fan and UV lamp, and the UV lamp has a timer.

Plan filter changes ahead
On-screen HEPA and UV life indicators show when replacement is due.

Comfortable for long sessions
An angled central control panel and indirect lighting reduce strain.

Technical Specifications

GENERAL

General	Specifications of the Master Science Vertical Laminar Flow Cabinet range:
Brand	Master Science
Model Number	MSLCB-V3FSWISS,MSLCB-V4FSWISS,MSLCB-V5FSWISS,MSLCB-V6FSWISS
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Control system	Microprocessor controller with LCD, graphical and digital status display
Airflow velocity	Adjustable, 0.2-0.5 m/s
HEPA filter efficiency	>99.995% at 0.3 µm
Pre-filter	Washable polyester fibre
Sound emission	≤62 dB(A)
LED lighting	20 W ×1 (450-650 lx) / 30 W ×1 (750-950 lx) / 30 W ×1 (750-950 lx) / 20 W ×2 (450-650 lx)
Main body	Electro-galvanized steel, antimicrobial powder coating
Work zone	Stainless steel grade 304
Sash	Manual sliding, 5 mm UV-resistant tempered glass, counter-balanced
Side windows	5 mm UV-resistant tempered glass
Electricity	AC 220 V ±10%, 50/60 Hz, 1 phase
UV lamp	20 W ×1 / 30 W ×1 / 30 W ×1 / 20 W ×2; 253.7 nm, timer, sash interlock
Power consumption	155 W / 285 W / 285 W / 300 W (excluding socket loads)

DIMENSIONS & WEIGHT

External dimensions (W×D×H)	1050 × 710 × 1850 / 1320 × 710 × 1850 / 1625 × 710 × 1850 / 1930 × 710 × 1850 mm
Internal dimensions (W×D×H)	950 × 615 × 625 / 1220 × 615 × 625 / 1525 × 615 × 625 / 1830 × 615 × 625 mm
Work surface height	750 mm
HEPA filter size / quantity	895 × 470 × 70 (1) / 1190 × 470 × 70 (1) / 1505 × 470 × 70 (1) / 895 × 470 × 70 (2) mm
Shipping weight	225 / 255 / 285 / 330 kg

CONTAMINATION PROBLEMS THE MASTER SCIENCE VERTICAL LAMINAR FLOW CABINET SOLVES	
Airborne contamination	Continuous HEPA airflow sweeps particles away from samples.
Turbulent air pockets	Back-wall perforations reduce dead corners in the work zone.
Forgotten filter changes	Filter and UV life indicators prompt timely replacement.
UV exposure risk	Sash interlock keeps the UV lamp off when the sash is open.

Applications

- **Non-pathogenic microbiology**
- **Forensic sample handling**
- **Sterile product compounding**
- **Plant tissue culture and media pouring**
- **Electronics and optics assembly needing particle-free air**

Airflow and filtration

- Vertical unidirectional HEPA airflow
- HEPA efficiency above 99.995% at 0.3 µm
- Washable pre-filter to extend HEPA life
- Perforated back wall to limit turbulence

Safety

- Front sash interlocked with fan and UV lamp
- UV sterilization with timer
- Tempered safety glass
- Independent capacitors on host and sockets against overload

Convenience

- LCD controller showing filter life, UV life and status
- Power-failure memory
- Temperature sensor display
- Two waterproof sockets in the work zone
- Two side glass windows; brushed stainless work surface

Standard Accessories Included

- Base stand
- LED lamp (2 on the largest model)
- UV lamp (2 on the largest model)
- Waterproof sockets ×2
- Casters ×4

Optional Accessories

- Wind speed sensor
- Gas tap
- Water tap
- Casters with brakes
- Hook and hook bar