Vertical Laminar Flow Cabinet - Laminar Air Flow Hood - ISO 5 Class 100 - HEPA Filter

Model **MSLCB-V1300YSWISS, MSLCB-V1800YSWISS** | Brand **Master Science**







The Master Science Vertical Laminar Flow Cabinet sends HEPA-filtered air straight down onto the work surface, creating an ISO 5 (Class 100) clean zone. It can be installed in a clean room or an ordinary room to keep the bench clean for product handling and sample work.

KEY HIGHLIGHTS

- Clean air from above
- Downflow design
- Spacious chamber
- Filter protection
- Safe UV routine

AT A GLANCE

1300 / 1800 × 750 × 2020 mm
EXTERNAL DIMENSIONS (W × D × H)

1400 W / 1500 W
RATED POWER (WITH LOAD)

1200 / 1700 × 640 × 625 mm
INTERNAL DIMENSIONS (W × D × H)

pressure and replacement alarms.
UNNOTICED FILTER LOADING

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Overview

The cabinet has a polyester pre-filter, a 304 stainless steel work zone and an LCD that reports airflow, timers and HEPA running hours. Widths of 1300 and 1800 mm are available.

Key Benefits

Clean air from above
the Master Science Vertical Laminar Flow Cabinet keeps the work zone at ISO 5.

Downflow design
air moves from the top filter to the work surface.

Spacious chamber
625 mm internal height.

Filter protection
pre-filter extends HEPA life.

Safe UV routine
interlocks and scheduled UV timing.

For cross-flow work, compare the Master Science horizontal laminar flow cabinet.

Technical Specifications

GENERAL

General	Specifications of the Master Science Vertical Laminar Flow Cabinet (1300 / 1800):
Brand	Master Science
Model Number	MSLCB-V1300YSWISS, MSLCB-V1800YSWISS
SKU	MSLCB-V1300YSWISS, MSLCB-V1800YSWISS
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Airflow Direction	Vertical (downflow), single-sided operation
Airflow Velocity	0.30 to 0.5 m/s
Cleanliness	ISO 5 (Class 100)
HEPA Filter	≥ 99.995 % at 0.3 µm
Pre-Filter	Polyester fibre
Colony Count	≤ 0.5 CFU / 30 min
Noise	≤ 65 dB(A)
Illumination	700 lx
Windows	5 mm toughened glass, anti-UV
Materials	304 stainless steel work zone; cold-rolled steel body with antimicrobial powder coating
Alarms	High filter pressure, filter replacement, low airflow

DIMENSIONS & WEIGHT

External Dimensions (W × D × H)	1300 / 1800 × 750 × 2020 mm
Internal Dimensions (W × D × H)	1200 / 1700 × 640 × 625 mm
Work Surface Height	750 mm (customisable)

OPTICAL PERFORMANCE

LED Lamp	14 W / 22 W
UV Lamp	30 W / 40 W

POWER

Power Supply	220 V ±10 %, 50/60 Hz
Rated Power (with load)	1400 W / 1500 W

COMMON LABORATORY PROBLEMS AND HOW THIS CABINET HELPS

Common Laboratory Problems and How This Cabinet Helps	How the Master Science Vertical Laminar Flow Cabinet improves clean work:
Contaminated samples	ISO 5 downflow over the work zone.
Dust in an ordinary room	local purification at the bench.
Unnoticed filter loading	pressure and replacement alarms.
Manual UV switching	timer function.

The Master Science Vertical Laminar Flow Cabinet is used in

- **Laboratories**
- **Biopharmaceutical production and hospitals**
- **LED, optoelectronics and circuit boards**
- **Microelectronics and hard disk manufacturing**
- **Food processing**

Airflow

- Vertical HEPA downflow
- 0.30 to 0.5 m/s
- Polyester pre-filter

Control and Alarms

- LCD with airflow, timers and filter hours
- Scheduled UV lamp and fan
- Pressure, filter and airflow alarms

Construction

- Powder-coated welded steel
- SUS304 work zone
- Castors for moving and fixing

Standard Accessories Included

- Base stand
- UV lamp
- LED lamp
- Waterproof socket
- HEPA filter
- Pre-filter

Optional Accessories

- Spare HEPA filter and pre-filter
- UV lamp
- Centrifugal fan
- Water and air taps