Class II A2 Biosafety Cabinet, ULPA U15 99.9995% at 0.12 µm, ISO 4, 1300 mm Work Zone, Touch Screen

Model **MSBSC-IIA2-4JSWISS** | Brand **Master Science**





The Master Science Class II A2 Biosafety Cabinet with ULPA Filters protects three things at once: the person working, the sample on the bench and the room around it. Air enters at the front opening, is drawn down through ULPA filters over the work surface, and 30% of it leaves through an exhaust filter while 70% is recirculated.

KEY HIGHLIGHTS

- Three-way protection
- Very clean work zone
- Alarms you can trust
- Comfortable to use

AT A GLANCE

1500 × 760 × 2200 mm
EXTERNAL DIMENSIONS (W×D×H)

Request a Quotation
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Overview

It is designed for work with pathogens in risk groups 1 to 3. Two ULPA U15 filters reach at least 99.9995% efficiency at 0.12 µm, giving ISO class 4 air in the work zone. A 7 inch colour touch screen shows all running data, and alarms cover filter blockage, blower overload and sash height.

For other widths in the same cabinet class, see our Class II A2 biological safety cabinet range, 1100-1800 mm.

The Master Science Class II A2 Biosafety Cabinet with ULPA Filters is used in biosafety labs for work such as:

Biosafety Problems the Master Science Class II A2 Biosafety Cabinet with ULPA Filters Solves

Open-bench handling of infectious material is a risk to staff and results. The Master Science Class II A2 Biosafety Cabinet with ULPA Filters addresses:

Key Benefits

Three-way protection
The Master Science Class II A2 Biosafety Cabinet with ULPA Filters shields the operator, the sample and the lab environment.

Very clean work zone
Two ULPA U15 filters give ISO class 4 air over the work surface.

Alarms you can trust
Filter blockage, blower overload and sash limit alarms flag unsafe conditions.

Comfortable to use
A 10° inclined front and rounded internal corners make work and cleaning easier.

Technical Specifications

GENERAL

General	Technical data for the Master Science Class II A2 Biosafety Cabinet with ULPA Filters:
Brand	Master Science
Model Number	MSBSC-IIA2-4JSWISS
SKU	MSBSC-IIA2-4JSWISS
Brand	Master Science
Model	MSBSC-IIA2-4JSWISS
SKU	MSBSC-IIA2-4JSWISS
Classification	Class II Type A2
Cleanliness level	ISO class 4
Working zone (W×D×H)	1300 × 600 × 660 mm
Maximum opening	470 mm
Filtration efficiency	≥99.9995% at 0.12 µm
Filters	ULPA (U15) ×2
Airflow pattern	30% exhaust, 70% recirculation; vertical laminar, negative pressure
Downflow velocity	0.25-0.40 m/s
Inflow velocity	≥0.5 m/s
Sound emission	≤67 dBA
Vibration peak	≤5 µm
Personnel protection	Impact sampler ≤10 CFU/time; slit sampler ≤5 CFU/time
Product protection	≤5 CFU/time (1-8 CFU/ml, 3 × 5 min)
Cross-contamination protection	≤5 CFU/time (1-8 CFU/ml, 3 × 5 min)
Illumination	≥1000 lux
Users	1-2
Exhaust direction	Top
Electricity	AC 220 V, 50/60 Hz, 1.5 kW
Supply and exhaust pipe diameter	Ø250 mm
Display	7 inch colour touch screen

DIMENSIONS & WEIGHT	
External dimensions (W×D×H)	1500 × 760 × 2200 mm
Work surface height	About 770 mm
Base height	About 660 mm
Shipping weight	330 kg

OPTICAL PERFORMANCE	
LED lamp	20 W ×2
UV lamp	30 W ×1

Applications

- **Clinical microbiology and diagnostics**
- **Virology and cell culture**
- **Handling risk group 1-3 pathogens**
- **Molecular biology sample preparation**
- **Pharmaceutical sterility testing**

Construction

- Cold-rolled steel outer cabinet with electrostatic coating
- One-piece stainless steel work area on three sides
- 10 mm rounded internal corners for cleaning
- 10° inclined front for operator comfort

Airflow and filtration

- Vertical laminar, negative pressure design
- 30% exhaust, 70% internal recirculation
- ULPA U15 supply and exhaust filtration

Control and safety

- 7 inch colour touch screen with live parameters
- Filter blockage, blower overload and sash opening alarms
- Positioned sliding safety sash
- UV lamp and LED lighting

Standard Accessories Included

- UV lamp ×1
- LED lamp ×2
- Waterproof socket ×1
- ULPA (U15) filters ×2

Optional Accessories

- Water valve
- Air valve
- Armrest
- RS232 interface
- Additional waterproof socket
- Operator exposure: Inflow of at least 0.5 m/s and negative pressure keep aerosols inside the cabinet.
- Sample contamination: ULPA-filtered downflow protects cultures and samples.
- Lab contamination: Exhaust air is filtered before it leaves the cabinet.
- Unnoticed faults: Alarms warn of filter blockage, blower problems or a sash set too high.