Class II A2 Biosafety Cabinet - Biological Safety Cabinet - ULPA Filter - 1100 to 1800 mm

Model **MSBSC-IIA2-1100SWISS, MSBSC-IIA2-1300SWISS, MSBSC-IIA2-1500SWISS, MSBSC-IIA2-1800SWISS** | Brand **Master Science**





The Master Science Class II A2 Biosafety Cabinet protects the operator, the sample and the room when handling microorganisms, cell cultures, recombinant DNA and other biological materials. Air enters the front opening at 0.53 m/s, 70 % is recirculated through ULPA filters as downflow over the work zone and 30 % is exhausted, also through an ULPA filter.

KEY HIGHLIGHTS

- Protection for people and samples
- Safer daily routine
- Comfortable to work at
- Automatic start and stop
- Easy cleaning

AT A GLANCE

1100 / 1300 / 1500 / 1800 × 760 × 2200 mm
EXTERNAL DIMENSIONS (W × D × H)

filter life indicator and pressure alarm.
NOT KNOWING WHEN FILTERS ARE LOADED

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

support@themsci.com
www.themsci.com

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Overview

A colour touch screen shows airflow and status, and the motorised front window, UV lamp, LED lights and fan are interlocked for safe operation. Four widths are available, from 1100 to 1800 mm.

Specifications of the Master Science Class II A2 Biosafety Cabinet series (1100 / 1300 / 1500 / 1800):

Key Benefits

Protection for people and samples
the Master Science Class II A2 Biosafety Cabinet combines inflow and ULPA downflow.

Safer daily routine
interlocks between UV lamp, window, fan and lights.

Comfortable to work at
7° front tilt and one-piece armrest.

Automatic start and stop
scheduled timing for fan, UV and sockets.

Easy cleaning
one-piece stainless work area that comes apart.

For product-only protection, see the Master Science laboratory instrument range.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSBSC-IIA2-1100SWISS, MSBSC-IIA2-1300SWISS, MSBSC-IIA2-1500SWISS, MSBSC-IIA2-1800SWISS
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Tested Opening	200 mm safety height
Maximum Opening	480 mm
Inflow Velocity	0.53 ±0.025 m/s
Downflow Velocity	0.33 ±0.025 m/s
Airflow	70 % recirculation, 30 % exhaust
ULPA Filters	2, 99.9995 % at 0.12 µm, with filter life indicator
Front Window	Motorised, 6 mm two-layer laminated toughened glass, anti-UV
Illumination	≥ 1000 lux
Noise	≤ 65 dB
Sockets	2 waterproof, 500 W total load
Alarms	Airflow fault, filter replacement, unsafe window height, high filter pressure, power failure
Materials	304 stainless steel work zone; cold-rolled steel body with anti-bacterial powder coating
Display and Control	Colour touch screen, microprocessor

DIMENSIONS & WEIGHT

External Dimensions (W × D × H)	1100 / 1300 / 1500 / 1800 × 760 × 2200 mm
Internal Dimensions (W × D × H)	940 / 1150 / 1350 / 1625 × 600 × 660 mm
Work Surface Height	770 mm (customisable)
Net / Gross Weight	220/310, 255/360, 285/400, 345/470 kg

OPTICAL PERFORMANCE

UV Lamp	30 W / 30 W / 40 W / 40 W
LED Lamps	2 × 12 W / 2 × 14 W / 2 × 16 W / 2 × 16 W
UV lamp left on with window open	interlock prevents it.

POWER

Power Consumption	600 / 800 / 1300 / 1300 W
Power Supply	220 V 50/60 Hz or 110 V 60 Hz

COMMON LABORATORY PROBLEMS AND HOW THIS CABINET HELPS

Common Laboratory Problems and How This Cabinet Helps	How the Master Science Class II A2 Biosafety Cabinet reduces risk in biological work:
Operator exposure to aerosols	0.53 m/s inflow barrier.
Cross-contamination of cultures	ULPA-filtered downflow.
Not knowing when filters are loaded	filter life indicator and pressure alarm.

The Master Science Class II A2 Biosafety Cabinet is used in

- **Microbiology laboratories**
- **Biomedical and medical research**
- **Recombinant DNA work**
- **Animal experiments and biological products**
- **Hospital, pharmacy and public health labs**

Airflow and Filtration

- Two ULPA filters, 99.9995 % at 0.12 µm
- 70/30 recirculation and exhaust
- Filter life indicator

Control

- Colour touch screen
- Power-failure memory with alarm
- Scheduled timing of UV, fan and sockets

Ergonomics and Safety

- 7° inclined front
- One-key motorised window
- UV lamp interlocked with window and fan

Standard Accessories Included

- LED lamps (2)
- UV lamp
- Base stand
- Foot switch
- Drain valve
- Waterproof sockets (2)

Optional Accessories

- Water and gas taps