

BioMAT1

Microbiological Safety Cabinet



Main Features

Main body manufactured in mild steel with white polyester finish RAL 9016

Hinged (downward) fully opening barless front visor with 5mm toughened glass panel

Uninterrupted access to cabinet interior for ease of cleaning

Integrated control membrane with blue backlit LCD screen

Continuous display of airflow status

Inclined working angle for comfortable working

Exhaust HEPA filtration to Class H14, 99.995 MPPS efficiency or 99.999% DOP efficiency to EN 1822-1

Available in either exhaust or recirculating models with 3 standard widths

Larger models available for specialised applications

Standard compliance to EN 12469:2000 and BS 5726:1992



Applications

To provide operator safety for routine handling of low to moderate risk organisms. Handling of all pathogens up to Hazard Group 3 (ACDP Publication - Categorisation of Pathogens according to Hazard and Categories of Containment 1990).

Technical Specification

Model	Dimensions (mm)		
External dimensions	W	D	H
1200mm exhaust type	1200	630	1240
1200mm recirculation type	1200	630	1240
1500mm exhaust type	1500	630	1420
1500mm recirculation type	1500	630	1420
1800mm exhaust type	1800	630	1420
1800mm recirculation type	1800	630	1420

Model	Dimensions (mm)		
Internal dimensions	W	D	H
1200mm	1200	630	700
1500mm	1500	630	700
1800mm	1800	630	700
Working aperture dimensions			
1130mm	1090	n/a	200
1500mm	1390	n/a	200
1800mm	1690	n/a	200

Available Models

Ducted type with exhaust module incorporating single HEPA filter and integral anti blow back damper.

Recirculation type with exhaust module incorporating double HEPA filters and vertical discharge grille for return air.

Unique "TriPASS" Onboard bypass exhaust systems to maintain constant exhaust volumes, suitable for use within containment laboratories.

Class I/III hybrid type with gloveport closure panel to allow occasional high hazard work under negative pressure.

Double sided cabinets to allow access to cabinet interior from both sides.

Large Class I enclosures to house automated systems for robotic applications.

Other products from Contained Air Solutions

Class II Microbiological Safety Cabinets
 Class III Microbiological Safety Cabinets
 Pharmaceutical Isolators
 Laminar Flow Cabinets
 Powder Control Booths
 Containment Booths
 Robotics Enclosures
 Ventilated Tables

Description

Construction:

2mm mild steel upper body with 316L grade stainless steel work surface, fully welded and finished in "traffic white" powder paint RAL9016.

Instrumentation and Controls:

Wipe clean membrane facia with cabinet ON/OFF lighting and alarm mute functions. Digital airflow indicator with constant status display. Airflow diagnostic indicator with audible alarm, red LED light and message indication denoting nature of alarm condition. Clock function, Hours Run Meter, UV Light Timer.

Exhaust Airflow Rate:	Duct Size	Cabinet Weights
1200mm model - 0.13 m ³ /sec	160mm	110kg
1500mm model - 0.18 m ³ /sec	200mm	170kg
1800mm model - 0.22 m ³ /sec	200mm	200kg

Internal Sockets:

Two single splash proof sockets mounted on rear wall.

Alarms:

Audible and visual for low and high airflow (exhaust).

Lighting Level:

800 Lux at work surface (white).

Noise Level:

Less than 65dB.

Electrical Supply:

230V/50Hz/single phase.

Electrical Load:

1200mm model	0.45kW
1500mm model	0.75kW
1800mm model	0.8kW

Options and Accessories

Support frame fitted with levelling feet or lockable castors.
 Solenoid operated failsafe gas valves.
 Service taps (vacuum, lab gasses etc).
 100% sealable night door.
 UV germicidal light.
 Polished grade 316L stainless steel work surface.
 Formalin vapouriser (extract adaptor kit available for recirculating models).
 Inlet and outlet ports for connection to a H₂O₂ generator.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

