



BioMAT² Class II Microbiological Safety Cabinet

High specification and performance Class II microbiological safety cabinets that exceed the requirements of BS EN 12469:2000, BS 5726 (1992) and has double exhaust HEPA filtration (recirculating model).

APPLICATIONS:

Handling of biological agents in hazard group 3 (ACDP categorisation) where both operator protection and the provision of clean air conditions over the work area are required, as well as total compliance with all the requirements of BS EN 12469:2000 and BS 5726 (1992).

MAIN FEATURES INCLUDE:

- * Unique double HEPA filtered exhaust on recirculating models
- * Inclined front screen for improved working position
- * Ergonomically designed to ensure operator comfort
- * Stainless steel work area
- * Compact design
- * All filters can be serviced from the front
- * Hinged down front screen for safety and ease of cleaning
- * HEPA filter efficiency to 99.999% at 0.3 micron
- * Membrane fascia panel
- * Diagnostic airflow display with LCD indication
- * Quiet in operation
- * Worktray front slots curved to aid operator
- * Available in four widths (900mm, 1200mm, 1500mm and 1800mm)
- * Standard compliance BS EN 12469 : 2000 and BS 5726 (1992)
- * Integral speed controllable fans
- * One splashproof electrical socket fitted as standard

MODELS AVAILABLE:

Ducted or recirculating models

Class II Active Compound Cabinet with main HEPA filter located under worksurface

Class II 100% Exhaust Cabinet

Class II MicroMAT Cabinet - for incorporating microscope and heated worksurface for specialist requirements ie. I.V.F.

Class II Robotic Cabinet - suitable for most robotic sampling machines

TriMAT Class II for grouped exhaust systems

DSS Ltd. are agents for Mach-aire and MAT products

SPECIFICATION:

MODEL:	DIMENSIONS			WORK AREA:	DIMENSIONS		
	W	D	H		W	D	H
900mm Ducted Model (special order)	900	630	1360	900mm	760	550	700
900mm Recirculating Model (special order)	900	630	1415	1200mm	1060	550	700
1200mm Ducted Model	1200	630	1360	1500mm	1360	550	700
1200mm Recirculating Model	1200	630	1415	1800mm	1660	550	700
1500mm Ducted Model	1500	630	1390	WORKING APERTURE:			
1500mm Recirculating Model	1500	630	1520	900mm	720		200
1800mm Ducted Model	1800	630	1390	1200mm	1020		200
1800mm Recirculating Model	1800	630	1520	1500mm	1320		200
				1800mm	1620		200
				MINIMUM CEILING HEIGHT FROM BASE OF CABINET: (ie. Top of Laboratory Bench or Support Stand)	Add 50mm to height on exhaust type and 150mm to recirculating type		

Construction: 304 Grade Stainless Steel lined workarea with 316 Grade Stainless Steel removable worktray. Main cabinet body from precision produced mild steel components finished with a white polyester powder coating.

Exhaust Duct Diameter (ducted cabinets): 900 and 1200 - 160mm dia. 1500 and 1800 - 200mm dia

Instrumentation & Controls: Membrane facia panel with cabinet ON/OFF, Lights, Alarm Mute, Fumigation, Natural Gas (option) and UV Lights (option) Switches. Airflow Meter with Red/Green Operating Zones, Airflow Diagnostic Diagram with LED Indicators for Power On, Fumigation, Gas, with airflow indicators changing from red to green when cabinet operational.

Alarms: Audible and Visual for low inflow and downflow together with front screen open.

Lighting Level: 800 Lux at worksurface

Exhaust Air Flow Rate: 1200 - 0.125m³/s 1800 - 0.19m³/s

Noise Level: Less than 65dBA

Electrical Supply: 230V/50Hz/1Ph (other International requirements available)

Options:

- Support frame on levelling feet or lockable castors
- Splash proof electrical sockets
- Solenoid controlled Fail/Safe gas valve
- Service tap (ie. vacuum, compressed air)
- Formalin vapouriser
- Formalin extract adaptor (recirculating cabinet only)
- UV germicidal light
- 100% sealable night door



Class II Active Compound Safety Cabinet

OTHER MAT PRODUCTS & SERVICES

- * Microbiological Safety Cabinets
- * Rigid Pharmaceutical Isolators
- * Ductless Fume Cupboards
- * Robotic Safety Cabinets
- * Powder Control Booths
- * Horizontal & Vertical Laminar Flow Cabinets
- * Ultra Clean Air Systems for Operating Theatres
- * Clean Rooms / Aseptic Areas
- * Containment Laboratories
- * Safecare After Sales Service
- * Vertical Laminar Flow Enclosures

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