MAT Medical Air Technology

DSS LTD design maintenance manufacturing installation

*Bio*MAT[1] *Class I*

Microbiological Safety Cabinet

High performance and compact range of Class I Microbiological Safety Cabinets compliant to BS EN 12469:2000 and BS 5726 : 1992

Applications:

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) and other dangerous biological materials.

Main Features Include:

- Compact design
- Stainless steel worksurface
- All Stainless Steel construction available
- All servicing from the front of the cabinet
- Ergonomically designed to ensure operator comfort
- Hinged down front screen for safety and ease of cleaning
- Membrane facia panel
- Diagnostic airflow display with LCD indication
- Quiet in operation
- Inclined front screen for improved working position
- Speed controlled fan for extended HEPA filter life
- Available as exhaust or recirculation arrangement
- Standard compliance BS EN 12469 : 2000 and BS 5726 (1992)
- HEPA filter efficiency to 99.999% at 0.3 micron
- Available in three widths
- One splashproof electrical socket fitted as standard

Models Available:

Ducted or recirculating models

Class I Active Compound Cabinet

Class I/III Hybrid Cabinet - capable of easy conversion between Class I and Class III

Class I with integral bypass system to maintain constant extract conditions for CL3 laboratories

Class I 'Prion' Cabinet - with 450mm high front aperture and Safer Change Filters and designed for BSE investigations

Double Sided Class I/III Safety Cabinet - access from each side

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

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Specification:

Model:	Dimensions (mm) W	D	H
1130mm Ducted Model	1130	630	1200
1130mm Recirculating Model	1130	630	1290
1500mm Ducted Model	1500	630	1240
1500mm Recirculating Model	1500	630	1400
1800mm Ducted Model	1800	630	1240
1800mm Recirculating Model	1800	630	1400
Work Area:			
1130mm	1130	630	700
1500mm	1500	630	700
1800mm	1800	630	700
Working Aperture:			
1130mm	1020	200	
1500mm	1390	200	
1800mm	1690	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: Mild steel upper body with 316 Grade Stainless Steel base all fully welded and powder coated in white epoxy .

Exhaust Duct Connection (Ducted Cabinets): 1130mm - 160mm dia., 1500mm and 1800mm - 200mm dia.

Instrumentation & Controls: Membrane facia panel with cabinet ON/OFF, Lights, Alarm Mute, Natural Gas (option) and UV Lights (option) Switches. Airflow Meter with Red/Green Zones, Airflow Diagnostic Diagram with LED Indicators on which air flow indicators change flow red to green.

Alarms: Audible and Visual for low airflow (exhaust)

Lighting Level: 1000 Lux at worksurface (white)

Exhaust Air Flow Rate: 0.125m^3/s (1130mm model)

Noise Level: Less than 65dB

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

Options: Support frame fitted with levelling feet or lockable castors
All stainless steel construction
Splash proof electrical sockets
Solenoid controlled Fail/Safe gas valve
Service tap (ie. vacuum, compressed air, water taps)
Formalin vapouriser
Formalin extract adaptor (recirculating cabinet only)
UV germicidal light
100% sealable night door
Built in sink

Class I/III Hybrid 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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