BIO 3/1 +RANGE

CLASS III/I MICRO-BIOLOGICAL SAFETY CABINETS

Compact, highly specified, high performance, BS5726 (1992) Class III/I microbiological safety cabinetS capable of easy conversion between Class III and Class I

APPLICATIONS

Where laboratory or animal containment level 4* might be required from time to time for handling of biological agents up to Hazard Group 4* or animals inoculated with such agents

FEATURES

- Clean and attractive design in stainless steel construction, white polyester coated (outside only)
- Radiused corners for easy cleaning
- Very high levels of operator protection in Class I mode
- Self-sealing removable gauntlet panel
- Toughened glass hinged front visor with gas struts
- Prefilter for extended HEPA filter life
- Integral HEPA filtration
- Interlock to prevent use of formalin or UV when front of cabinet not fully sealed
- Fully alarmed
- Easy to clean membrane control panel with digital inflow velocity indicator
- Access to all electrics and instrumentation behind lockable front panel
- Built in BMS (Building Management System) signal outputs
- Auto-damper output signal
- Variable speed controlled fan for maximum filter life and optimum performance
- Manual/automatic speed control
- Fast and easy set up and maintenance with all access from front of cabinet

STANDARDS COMPLIANCE

- BS5726 (1992)
- Most major world standards for microbiological safety and biohazard cabinets
- Electrical wiring designed to BS EN 61010

MODELS

BIO 3/1+

- Left, right or vertical discharge
- Anti-blowback damper and remote exhaust fan (size of fan dependant on length of duct) included

Available as nominal 1.0m, 1.2m, 1.5m, 1.8m widths

**ACDP Publication "Categorisation of pathogens according to hazard and categories of containment" 1990.*

DESCRIPTION BIO 3/1 + RANGE	DIM A	DIM B	DIM C	WEIGHT	MAXIMUM POWER CONSUMPTION
BIO 3/1+ 1.0 m	980 mm	830 mm	350 mm	136 kg	1800 w
BIO 3/1+ 1.2	1200	1050	250	172	1800
BIO 3/1+ 1.5	1500	1350	250	238	1800
BIO 3/1+ 1.8	1800	1650	250	288	1900

OPTIONS

- Support stand with feet
- Polyester coating inside (as outside)
- Formalin vaporiser (auto timed)
- Mobile self contained fumigant extractor suitable for formalin
- Splashproof electrical socket(s)
- Solenoid controlled fail-safe gas fitting(s)
- Water tap(s)
- Built in sink
- Taps for compressed air, vacuum, N2 etc
- Internal UV tube (refer to BS5726 Part 1 1992 6.1 and 6.2)
- Carbon filtration to client's specification on request

CONSTRUCTION

- Body: 2.64mm, 304 quality stainless steel with white polyester coating to outside only. 180 grit finish internal only

INSTALLATION DIMENSIONS

- Maximum ceiling height from base of cabinet, ie top of support stand or laboratory bench:
- MSC III/I Vertical Discharge 1650mm
- MS CIII/I Horizontal Discharge 1310mm
- For other dimensions see drawing and table

WEIGHT (See table)

INSTRUMENTATION

- Digital air inflow velocity dual range indicator
- Hour run counter
- Main/Pre-filter change indicator
- Digital internal pressure indicator

ALARMS

- Visor open alarm indicator (also audible alarm)
- High/low inflow alarm (dual range) indicator (also audible alarm)
- Inflow alarm test switch
- Audible alarm mute switch

SELECTABLE SWITCH/INDICATORS FOR OPTIONS

- UV light
- Gas solenoid
- Formalin vaporiser (2hr timed cycle)
- Auto re-start after power failure
- Delay alarm on start up
- Auto purge on release of night door
- AUX 1 (latching)
- AUX 2 (latching)
- AUX 3 (momentary)

MAINS CONTROLS

- Mains power on indicator
- Mode selection panel
- Exhaust fan switch/indicator
- Light switch

MAXIMUM POWER CONSUMPTION

(See table)

LIGHTING LEVEL

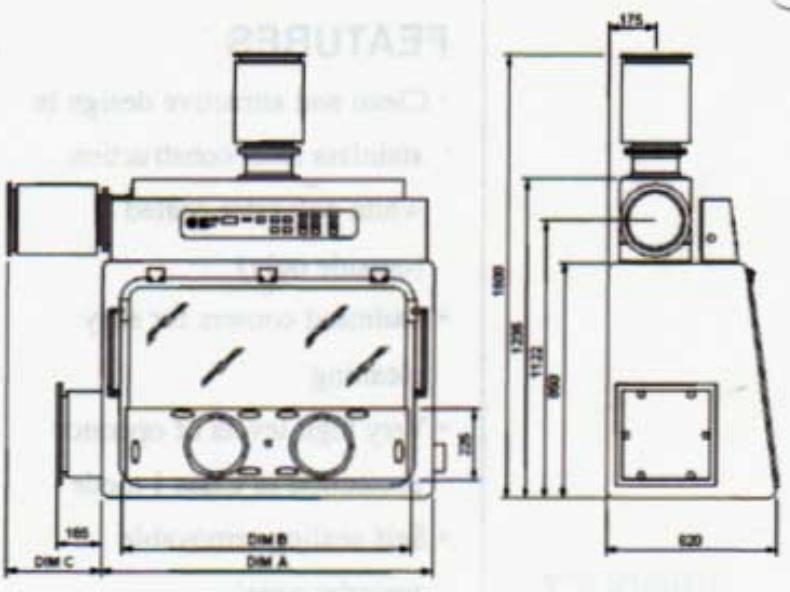
- Minimum of 500 Lux at work surface

NOISE LEVEL

- Less than 65dB(A) at 0.3m from aperture

ELECTRICAL SUPPLY

- 220/240V, 50 Hz, single phase or 110/120V, 50 Hz, single phase or any other international requirement



BIO 1 +RANGE

CLASS I MICRO-BIOLOGICAL SAFETY CABINETS

Compact, highly specified, high performance, BS5726 (1992) Class I microbiological safety cabinet

illustrated: MSC 1 R 1.2

APPLICATIONS

Handling of all pathogens up to Hazard Group 3* and other dangerous biological materials

FEATURES

- Clean and attractive design in stainless steel construction, white polyester coated (outside only)
- Radiused corners for easy cleaning
- Very high levels of operator protection
- Self-sealing night door
- Barless toughened glass front visor (edge protective strip only)
- Integral double HEPA filtration on recirculating models
- Prefilter for extended HEPA filter life
- Safety device to prevent use of formalin or UV when front of cabinet not fully sealed
- Fully alarmed
- Easy to clean membrane control panel with digital inflow indicator
- Access to all electrics and instrumentation behind lockable front panel
- Built in BMS (Building Management Systems) signal outputs
- Auto-damper output signal
- Speed controlled fan for maximum filter life and optimum performance
- Manual/automatic speed control
- Fast and easy set up and maintenance with all access from front of cabinet

STANDARDS COMPLIANCE

- BS5726(1992)
- Most major world standards for microbiological safety and biohazard cabinets
- Electrical wiring designed to IEC 1010

MODELS

MSC 1 D Ducted Models

Left, right or vertical discharge. Anti-blowback damper and remote exhaust fan (size of fan dependant on length of duct) included

Available as nominal 1.0m, 1.2m, 1.5m, 1.8m widths

MSC1 R Recirculating Models

Integral exhaust fan and double HEPA filtration included.Can include exhaust spigot option for connection to short duct runs

Available as nominal 1.0m, 1.2m, 1.5m, 1.8m widths

**ACDP Publication "Categorisation of pathogens according to hazard and categories of containment" 1990.*

DESCRIPTION	DIM A	DIM B	DIM C	WEIGHT		MAXIMUM POWER CONSUMPTION	
BIO1+ RANGE	R & D	R & D	D ONLY	R	D	R	D
BIO 1+ 1.0	980 mm	830 mm	350 mm	125 kg	136 kg	650 w	1800 w
BIO 1+ 1.2	1200	1050	250	160	172	650	1800
BIO 1+ 1.5	1500	1350	250	220	238	980	1800
BIO1+ 1.8	1800	1650	250	270	288	1000	1900

OPTIONS

- Support stand with castors (for MSC 1 R)
- Support stand with feet (for MSC 1 D)
- Polyester coating inside (as outside)
- Exhaust spigot for short duct runs (MSC 1R models only)
- Formalin vaporiser
- Mobile self contained fumigant extractor suitable for formalin
- Outlet adaptor and 3m flexible ducting for use with formalin vaporiser (MSC 1 R only)
- Splashproof electrical socket
- Solenoid controlled fail-safe gas fitting
- Water tap
- Sink unit
- Taps for compressed air, vacuum, N2 etc
- Internal UV tube (refer to BS5726 Part 1 1992 6.1 and 6.2)
- Carbon filtration to client's specification on request

CONSTRUCTION

Body: 2.64mm, 304 quality stainless steel with white polyester coating to outside only.

DIMENSIONS

Maximum ceiling height from base of cabinet, ie top of support stand or laboratory bench:

MSC1D Vertical Discharge 1650mm
MS C1D Horizontal Discharge 1310mm
MSC 1 R (Recirculating) 1450mm

For other dimensions see drawing and table

WEIGHT (See table)

INSTRUMENTATION

Air inflow velocity indicator
Hour counter
Main/Pre-filter change indicator

ALARMS

Visor open alarm indicator (also audible alarm)
High/low inflow alarm indicator (also audible alarm)
Inflow alarm test switch
Audible alarm mute switch

SERVICE SWITCH/ INDICATORS FOR OPTIONS

UV light
Gas solenoid
Formalin vaporiser
AUX 1 (latching)
AUX 2 (latching)
AUX 3 (momentary)

MAINS CONTROLS

Mains power on indicator
Exhaust fan switch/indicator
Light switch

MAXIMUM POWER CONSUMPTION

(See table)

LIGHTING LEVEL

Minimum of 500 Lux at work surface

NOISE LEVEL

Less than 65dB(A) at 0.3m from aperture

ELECTRICAL SUPPLY

220/240V, 50 Hz, single phase or 110/120V, 50 Hz, single phase or any other international requirement