GUARDIAN CLASS II BIOLOGICAL SAFETY CABINETS

TECHNICAL SPECIFICATION

	MSC 800	MSC 1200	MSC 1800
External Dimensions (WxDxH)	800mm x 750mm x 1351mm*	1200mm x 750mm x 1351mm*	1800mm x 750mm x 1351mm*
Working Dimensions (WxDxH)	707mm x 500mm x 690mm	1107mm x 500mm x 690mm	1707mm x 500mm x 690mm
Air Cleanliness	>ISO Class 4 (Class 10)		
Primary Filter	H14 HEPA Filter – 99.97% efficient at 0.3um		
Secondary Filter	H14 HEPA Filter – 99.97% efficient at 0.3um (Optional)		
Downflow Velocity	492m3/hr @ 0.38m/sec	759m3/hr @ 0.38m/sec	1158m3/hr @ 0.38m/sec
Inflow Velocity	390m3/hr @ 0.77m/sec	612m3/hr @ 0.77m/sec	945m3/hr @ 0.77m/sec
Aperture Height	200mm		
Construction	Polyester Powder Coated Mild Steel. Toughened Glass Panels. Removable, Sectional 316 Stainless Steel Work Surface.		
Power	150 watts	250 watts	320 watts
Weight	110kg	165kg	230kg
Sound	<62dB	<64dB	<63dB

*Optional HEPA Outlet +46mm/Optional Carbon Outlet +55mm/Optional Double HEPA & Carbon Outlet +129mm Height.

DESCRIPTION

The Class II Biological Safety Cabinet utilises a specially ventilated enclosure, developed for sterile material handling. The unit guarantees both the operator and the working materials protection from potential biohazard infections.

The Guardian range is fitted with the Visionaire® 4.3" full colour touch screen control system that allows the highest level of control and monitoring.

Alongside the standard Touchscreen features the Guardian system incorporates; a Visual Display of Inlet and Downward Air Velocity (m/sec or ft/min), Sash Adjustment, Control for: UV Light, Electrical Socket, Cabinet Power and Light Variable intensity. Audible and Visual alarms alert the user to maintenance requirements including: Service, UV Light replacement and Cabinet Hours Run. Formalin and VHP Cycles are also controllable.

Infra-Red Intelligent Sash Safety (IRISS)

The system is also fitted with our unique Infra-Red Intelligent Sash Safety (IRISS) system which projects an infra-red beam across the base of the opening, should this beam be broken by inadvertently positioned apparatus or an operator's hand, the door closure will be instantly and automatically aborted, preventing potential injuries, instrument damage or sash damage.

FEATURES

- Low Energy < 120watts of power.
- UV Lighting Strip ensures VHP & Formalin Disinfection.
- Electric Sash Adjustment & Closure.
- H 14 HEPA Filter creates an ISO Class 4 Clean Environment.
- Air Diffuser and Sloped Intake for efficient and smooth airflow.
- Removable Polished Stainless Steel Work Surface.
- Optional stand available.

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Creating Safer Workplaces

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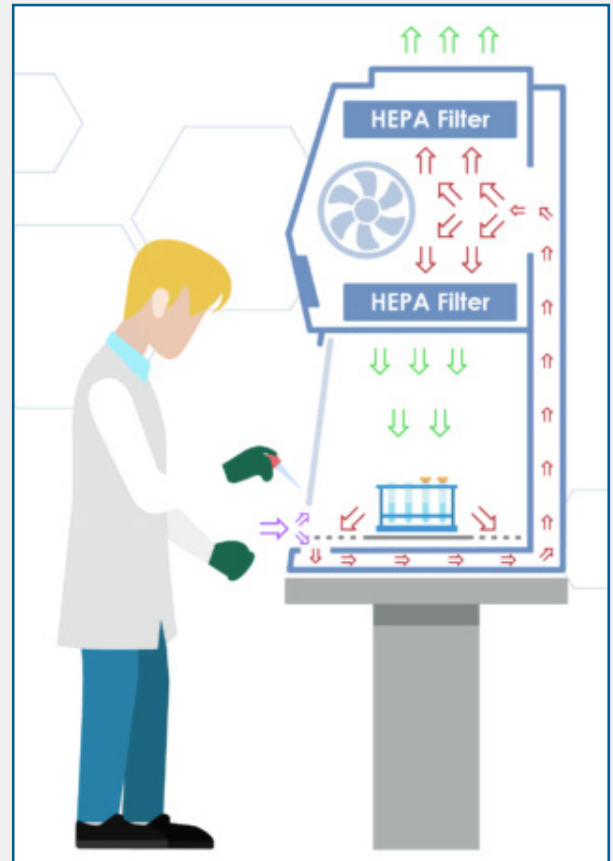## BIOSAFETY LEVEL

Biosafety Level – Type A2

In our Type A2 MSC air is drawn in through the front aperture, providing operator protection.

The inflow air mixes with the downflow air as it enters the front intake grille and passes through the plenum where the air is split into exhaust systems. 70% of the air is recycled and pushed back into the Work Area through the downflow HEPA Filtration.

The remaining 30% is returned through the Exhaust Air HEPA Filter back into the laboratory environment.

Biosafety Level – Type C1

If chemicals are used in a Recirculating Type A2 MSC and utilising the same airflow pattern across the work surface, a Carbon Filtered Exhaust system may be installed after or as part of the Exhaust HEPA Filter, converting the unit to Type C1 MSC, suitable for the handling of hazardous chemicals.

Clean Air
Contaminated Air
Working Environment Air

MODELS

MSC800   MSC1200   MSC1800

Models shown with optional stand.