

# GUARDIAN<sup>®</sup> CLASS II BIOLOGICAL SAFETY



**Monmouth<sup>+</sup>  
Scientific**

**THE MARKET LEADER IN  
CLEAN AIR SOLUTIONS**



## SETTING THE STANDARD



**Designed for use in microbiology and biotechnology facilities, the Guardian® Class II includes microprocessor control technology to set new standards for operator, environmental and product protection.**

Together with the low energy and low noise levels, the Guardian® Class II offers ISO Class 4 clean air and is the preferred choice for many of the world's leading research laboratories.

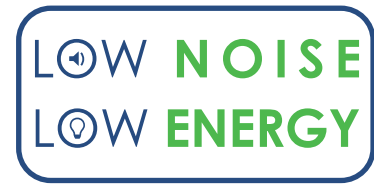
The unique design and integration of the front screen, fan systems, HEPA filters and control system means the cabinet offers excellent internal height of the work area.

The Guardian® Class II has been fully and independently type tested and approved by Health Protection Agency (Porton Down) to European Standard EN 12469:2000.

## FEATURES & BENEFITS

### ENVIRONMENT IN MIND

All Monmouth products are designed to have both low noise levels and low energy consumption to help your company stay carbon neutral. LED Lighting and PIR Sensors further improve efficiency.



### INFRA-RED INTELLIGENT SASH SAFETY (IRISS)

The safety sash closure mechanism is protected by our IRISS system - an infra-red beam set across the apparatus which, if broken by apparatus or hands, instantly aborts the sash closure .



### CHAMBER STERILISATION

The Guardian® can be connected to proprietary VHP or Formalin systems to ensure the safe and complete sterilisation of the cabinet and filters.



### 5 YEAR WARRANTY

All Monmouth products are designed and manufactured in the UK, and are covered by our industry leading 5 year warranty.










### VISIONAIRE® TOUCHSCREEN

Monmouth's revolutionary Visionaire® Touchscreens are designed to control & monitor all aspects of a product operation. The 4.3" Colour Screen alerts you if operating parameters are not being met.



#### Visionaire® offers;

-  **Automatic ECO Mode;** Lighting & display deactivated after a period of operator inactivity
-  **Airflow Monitoring;** Real-time Airflow readings in m/sec or ft/min
-  **Automatic Airflow Compensation;** Maintains air speeds to a predetermined level
-  **Audible and Visual Alarms;** Alerts operators should levels exceed specified limits
-  **Run-Time Indicators;** Fan Run-time, Cabinet Run-time and Service Interval
-  **PIN Code Access;** Engineer & Supervisor settings
-  **Cabinet Information;** Commissioning Date, Date of last & next service, Filter fitment dates, Cabinet serial number, Filter part numbers

## **GUARDIAN® CLASS II**

The Guardian® offers adjustable intensity LED lighting and a high angled front window for optimal viewing and supervision at either a seated or standing position. Each unit is supplied with a UV light as standard and a full length, electronic sliding sash, manufactured from toughened glass, which closes in full when the cabinet is not in use or requires sterilisation.

Sectional, removable, mirror finish 316 grade stainless steel work surfaces include profiled air in-take grilles to ensure efficient airflow.

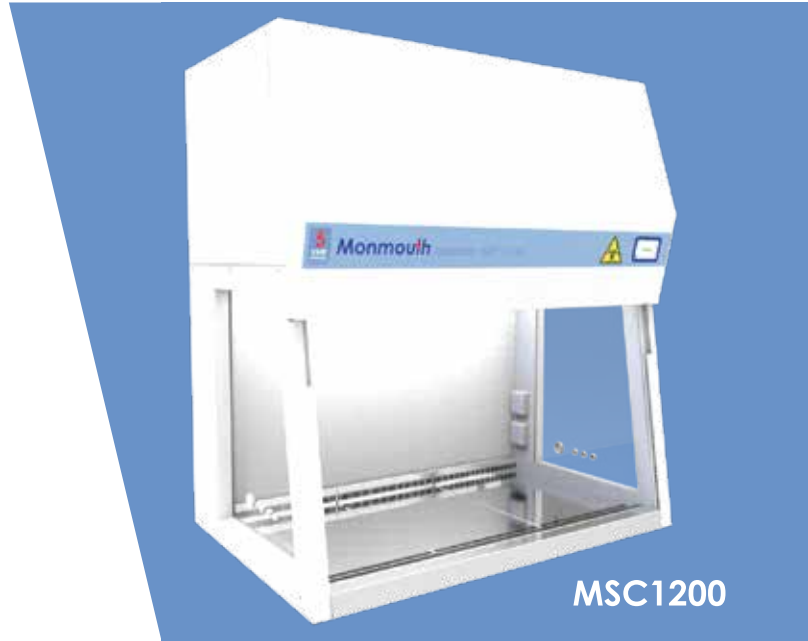
The sliding sash is protected by our Infra-Red Intelligent Sash Safety (IRISS) system. An infra-red beam projects across the base of the opening, should this beam be broken by in advertently positioned apparatus or an operator's hand, the door closure will be instantly and automatically aborted, preventing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

Pre-programmed Start and Finish and UV Chamber Sterilisation options ensure that the cabinet can be used efficiently and completely sterilised to client requirements. Pin Code controlled access guarantees authorised and trained users can operate the cabinet.



## BIOLOGICAL SAFETY FEATURES

- Visionaire® Touchscreen
- Automatic Airflow Compensation
- Automatic ECO-Mode\*
- Zintec Powder Coated Steel Construction
- Maximum Visibility Clear Side Panels
- Pin Code Access
- ISO 4 Environment



MSC1200



MSC800



MSC1200



MSC1800

## Specification

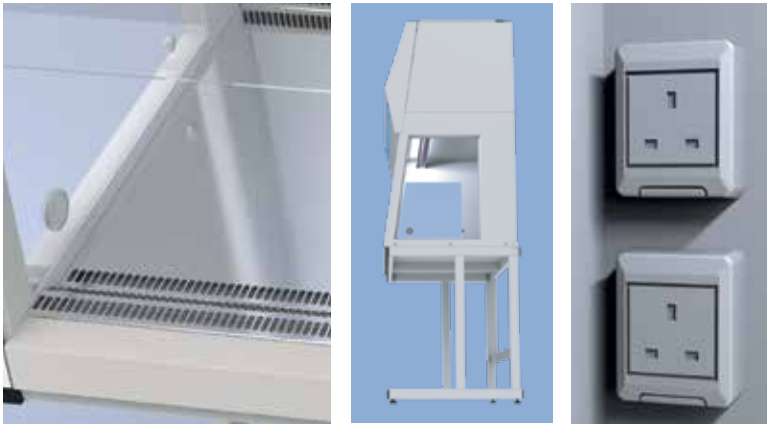
	MSC800	MSC1200	MSC1800
<b>External Dimensions</b> (W x D x H)	800mm x 750mm x 1321mm **	1200mm x 750mm x 1321mm **	1800mm x 750mm x 1321mm **
<b>Working Area</b> (W x D x H)	707mm x 510mm x 741mm	1107mm x 510mm x 741mm	1707mm x 510mm x 741mm
<b>Air Cleanliness</b>	>ISO Class 4 (Class10)		
<b>Primary Outlet Filter</b>	H14 HEPA Filter - 99.97% efficient at 0.3µm		
<b>Secondary Outlet Filter</b>	H14 HEPA Filter - 99.97% efficient at 0.3µm (Optional)		
<b>Construction</b>	Epoxy coated Zintec Mild Steel with toughened glass glazing panels and removable, sectional 316 stainless steel work surface		
<b>Power</b>	100 watts	150 watts	320 watts

\*Can be Deactivated if preferred.

\*\*Add 66mm height for outlet filter if fitted.

## OPTIONAL FEATURES

Optional connections to Gas and Vacuum services are available. A Base Stand can be included, alongside Secondary Exhaust HEPA and Electrical Sockets installation if required.



- Second Exhaust HEPA
- Base Stand
- Gas & Vacuum Supplies

## SERVICING

When servicing, calibrating and validating a Biological Safety Cabinet it is important to check all aspects of a cabinet. Monmouth Scientific utilise the latest calibrated test equipment (Vane Anemometers, Particle Counters, Smoke Generators and Photometers) to carry out:

- **Interior & Exterior condition.**
- **Access flaps and hinges checks.**
- **Lights, Switches & Fan Condition checks.**
- **All seals checked for integrity by DOP Smoke Test.**
- **HEPA filters challenged for integrity by DOP Smoke Test.**
- **Particle counts are taken to ascertain ISO Safety Standard.**
- **Airflow Velocities, Air Visualisation and Test on Alarms.**
- **Checking all work surfaces within cabinet.**
- **Issue a certificate on all test results.**
- **Service record kept on database.**
- **Service card updated and kept on cabinet.**

All services carried out by skilled, and qualified engineers. We pride ourselves on offering a most comprehensive service to safeguard your employees. Not all companies offer this level of servicing.

Contact our  
experienced team  
to discuss our wide  
range of bespoke  
options



## ABOUT US



**Established in 2004, Monmouth Scientific Limited is a family owned company priding ourselves on our commitment and dedication to our customers. It is this dedication that has seen us work with some of the UK's leading private and Government organisations including; the MoD, NHS, Mercedes F1 and BAE Systems.**

Based in our modern 30,000sq/ft facility in Bridgwater, Somerset our Engineers and Sales Professionals travel across the UK and overseas offering Sales, Service & Support.

We also work very closely with a select group of specialised Laboratory Equipment suppliers and handle the sales and support of their products in the UK and Ireland on an exclusive basis.

We welcome visitors to our new Demo Lab where we will be happy to demonstrate any of our products and show customers and distributors around our facility.

Monmouth Scientific Limited are proud to be a registered ISO9001:2015 company for Sales, Installation, Service, Support, and Distribution of Medical & Laboratory Equipment.



# Monmouth Scientific

The UK's leading  
designer,  
manufacturer  
and supplier of  
Clean Air  
Technology.

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