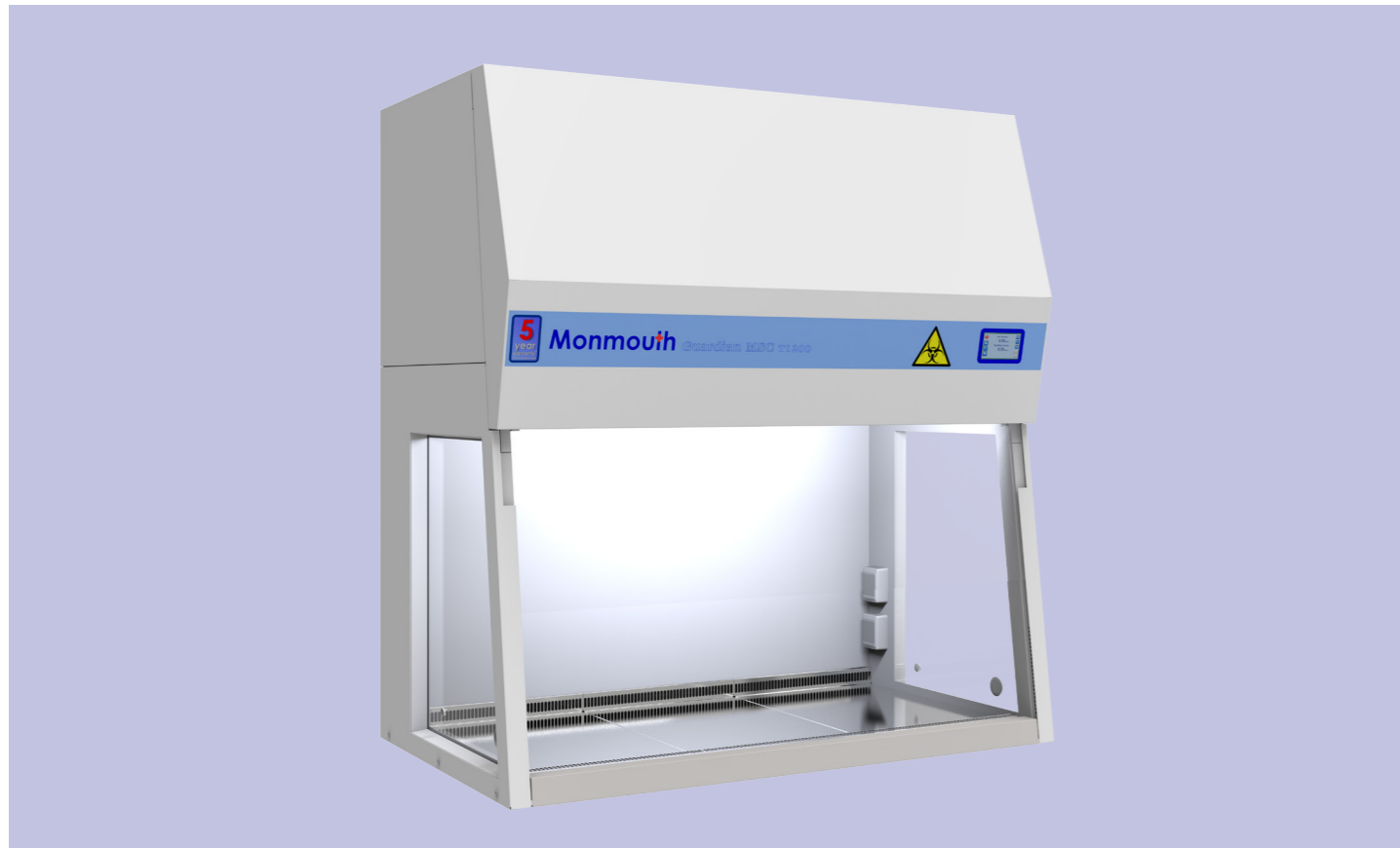
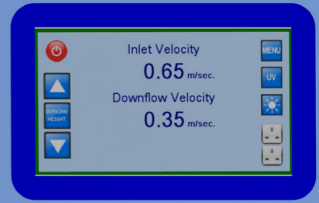




# Monmouth Guardian MSC T1200



## Guardian MSC1200 Class II Microbiological Safety Cabinet

Monmouth Guardian Class II cabinets are designed for use in microbiology and biotechnology facilities. With the most up-to-date microprocessor control techniques setting new standards for operator, environmental and product protection, together with the lowest energy consumption and low noise levels, the Monmouth Guardian Class II cabinets are becoming the preferred choice for many of the world's leading research laboratories.

The Monmouth Guardian MSC1200 offers ISO Class 4 clean air for product protection and has excellent containment characteristics ensuring compliance to British & European Standards.

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, but gives a low overall height of the cabinet. When sat on a 900mm high work surface or base stand, the total height of the unit is 2230mm. Where even this height is too much, we can offer reduced height base stands to allow even greater versatility and laboratory compatibility.

**The Monmouth Guardian MSC1200 has been independently type tested by Public Health England (Porton Down) to the performance required by European Standard BS EN 12469:2000. A copy of the test certificate and report is readily available upon request.**

## Ducted or Recirculating

The Monmouth Guardian MSC1200 is provided as a re-circulating or optionally ducted system and utilises an outlet H14 HEPA filter. As a ducted unit it will feature a visible anti-blowback valve and then be connected to ducting via a thimble connection or VDV. As a recirculating system it can remain with a single H14 outlet HEPA filter to comply with BS EN12469:2000 or an additional H14 HEPA filter can be added to ensure compliance with BS5726:1992.

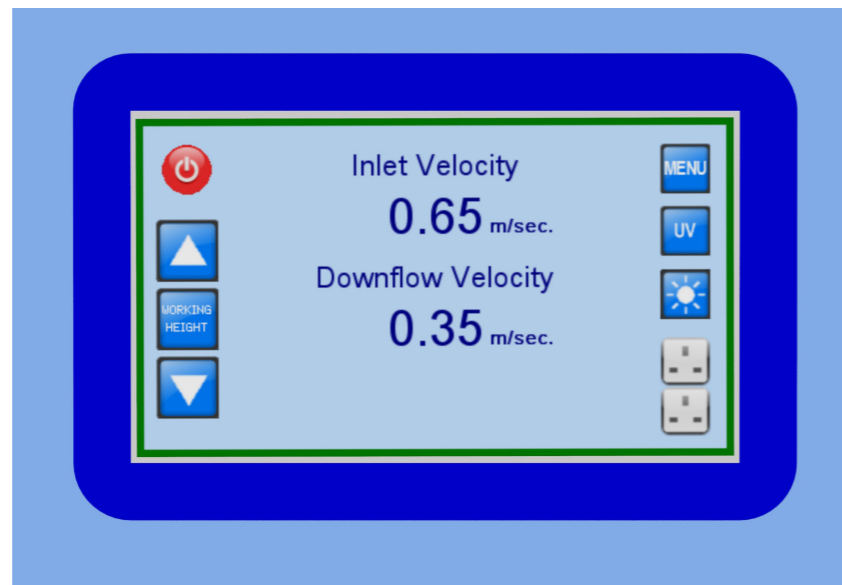
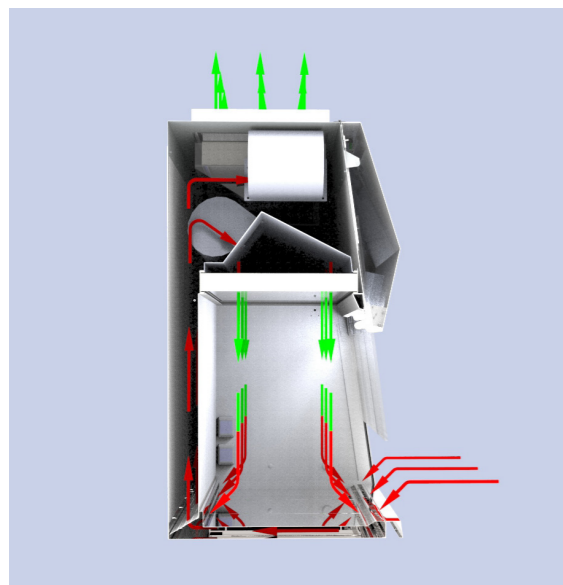
## Visionaire® Touch Screen Control system

The MSC1200 is fitted with the very latest Visionaire® Touch Screen Control System. The full colour screen measures 4.3" (11cm) across and has over 130,000 pixels. The Visionaire® control system has been designed and manufactured in the UK by Monmouth specifically for their range of laboratory cabinets and clearly identifies all cabinet operating parameters.

The Visionaire system also controls and monitors all other aspects of the unit's operation and maintenance such as: Hours Run, Hours since last service, Service Dates and Intervals, UV Light Hours run, filter fitted dates and replacement product codes, commissioning date. It alerts the user by way of audible and visual alarms should any of the operating parameters not be met.

## Low Energy & Low Noise Levels

Each unit incorporates the latest in digital low energy fans ensuring true laminar and turbulent-free air flow distribution throughout the chamber. This advancement results in lower noise levels, significantly lower energy usage and increased user comfort.



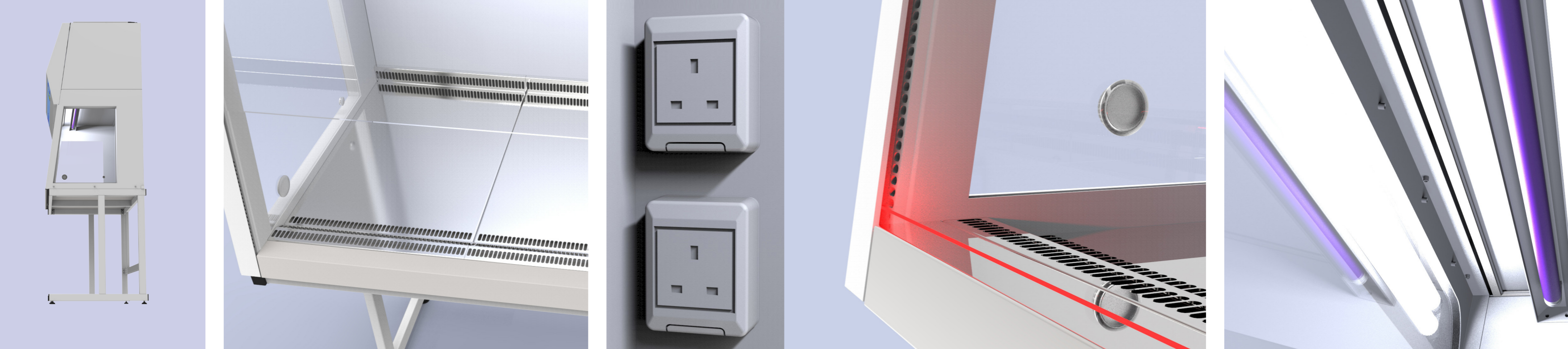
## Guardian MSC1200

- **Low Energy**
- **Low Noise**
- **Visionaire®** flush mounted colour touch screen showing all cabinet operating parameters
- **Motorised and angled sliding sash with easy clean feature**
- **Three-part removable polished stainless steel work surface**
- **PIN code access for safety**
- **IRISS – Infra-Red Intelligent Sash Safety system**
- **Timer start-up and shut down to save working time**
- **LED low energy lighting**
- **HEPA filters with built in air-diffuser for smooth airflow**
- **Two switched electrical sockets**
- **Built in UV light**
- **ISO Class 4 Clean Air to BS EN ISO 14644-1 (1999)**
- **Fully compliant with BS EN 12469:2000**
- **Optional Uninterruptible Power Supply**
- **Optional second outlet safety filter**
- **Low overall height**
- **Ducted or recirculating**
- **Easy for fitting VHP systems**
- **Optional base stand (various heights available)**
- **Also available in 1800mm or 800mm width**
- **5 year limited warranty**
- **British design and manufacture**

### Specifications:

<b>External Dimensions:</b>	<b>1200mm wide x 750mm deep x 2230mm high inc. base stand (1330mm without base stand)</b> <small>(add 66mm height for outlet filter if fitted)</small>
<b>Internal Dimensions:</b>	<b>1197mm wide x 630mm deep x 754mm high</b>
<b>Main Filter:</b>	<b>H14 HEPA filters – 99.997% efficient at 0.3µm</b>
<b>Primary Outlet Filter:</b>	<b>H14 HEPA filters – 99.997% efficient at 0.3µm</b>
<b>Optional Secondary Outlet Filter:</b>	<b>H14 HEPA filters – 99.997% efficient at 0.3µm</b>
<b>Air Cleanliness:</b>	<b>ISO Class 4</b>
<b>Construction:</b>	<b>Epoxy coated Zintec Mild Steel with toughened glass glazing panels and removable 3-part 316 stainless steel work surface</b>





## Operator Comfort & Easy Access

The cabinet offers adjustable intensity LED lighting and a high angled front window for optimal viewing and supervision at either seated or standing positions. Each unit is supplied as standard with a UV light and full length electronic sliding toughened glass sash which closes in full when the cabinet is not in use or requires sterilisation. In order to allow for cleaning of the glass, the front of the cabinet will lift up ensuring easy access to all internal surfaces.

## Stainless Steel Work Surface

All cabinets are provided with a three-part removable mirror finish 316 grade stainless steel work surface. Profiled air in-take grilles across the entire width of the cabinet ensures good air flow even with an operator in position, while the sectional stainless steel work surface allows quick and easy removal for cleaning or autoclaving.

## Infra-Red Intelligent Sash Safety (IRISS)

The electric closure of the door is protected by IRISS - an infra-red beam across the base of the sash opening. Should this beam be broken by inadvertently positioned apparatus or hands, then the closure of the door will be aborted, thus preventing any potential injuries, instrument or sash damage.

## Timer Start-Up and Shutdown

The cabinet can be pre-programmed to start or finish at a pre-programmed time allowing the operator to avoid wasting time during the cabinet purge at the start and end of the day.

## UV Lighting

Included as standard is an inbuilt UV light which can sterilise the entire working chamber. Fitted with a user programmable timer, the light on time and a delay time can easily be programmed to coincide with user requirements.

## Pin Code Access

To comply with British and European Standards, the cabinet can only be controlled by a user pin-code ensuring that authorised and trained users can operate the equipment. In addition to operator pin access, the laboratory supervisor has their own pin access to change various cabinet settings such as audible alarm or key press cancellation (essential in 'quiet' labs), control of electrical sockets and user access.

## Service Access

All service and adjustment procedures are performed from the front or top of the cabinet, including exchange of HEPA filters and adjustments to circuit boards and sensors. This ensures the cabinet can stay in situ without making any positional changes within the laboratory during maintenance.

## Electrical Sockets

Two standard electrical sockets are supplied fitted into the rear of the cabinet as standard. These are independently fused and also controlled from the Visionaire Touch Screen.

## Cabinet Sterilisation

The Monmouth Guardian MSC1200 can be connected to proprietary VHP systems or a formalin system to ensure the safe and complete sterilisation of the cabinet and filters.

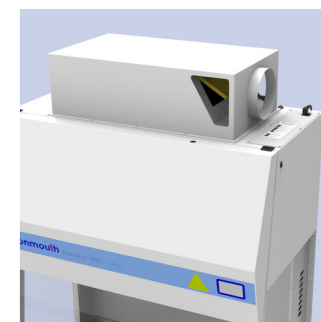
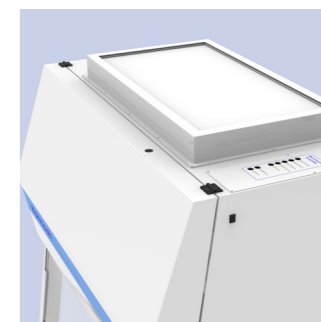
## Warranty

Designed and manufactured in the UK by our own engineers, these systems are covered by the Monmouth Scientific industry-leading 5 year warranty. This warranty includes parts (not consumables), labour and where applicable, covers repair at your (UK mainland) premises. This is subject to terms and conditions, not limited to annual validation and service by Monmouth trained engineers.

## Options:

Several options are available over and above the standard cabinet. These include:

- Service valves for Gas, Vacuum, Nitrogen or similar
- 2nd Outlet HEPA filter – ensures compliance with BS5726
- Base Stand
- Base Cupboard
- Uninterruptable Power Supply (UPS) – for areas prone to power failure
- Anti-blowback valve and Ductwork
- Stainless Steel Manufacture (Painted, polished or brushed)
- Formaldehyde sterilisation & neutralization system



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