

CIRCULAIRE® LAMINAR FLOW

Including Visionaire® Touchscreen



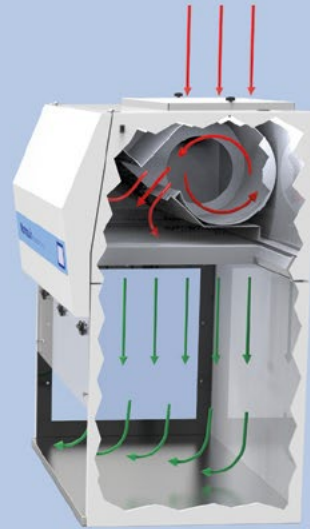
**Monmouth⁺
Scientific**

**THE MARKET LEADER IN
CLEAN AIR SOLUTIONS**

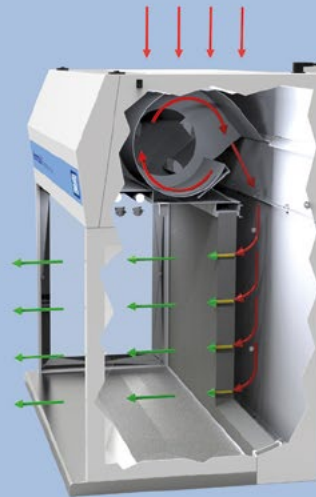


LAMINAR FLOW AIR FILTRATION

VERTICAL LAMINAR FLOW



HORIZONTAL LAMINAR FLOW



Laminar air flow can be described as an entire body of air flow with steady, uniform velocity.

Within a Laminar Flow Cabinet air is initially drawn through an easy-change, high-quality EU4 pre-filter to remove all gross particulate.

All air then passes through the fan system, before being pushed through a U15 ULPA filter which removes 99.9998% of all particles >0.12 µm in size. This in turn guarantees an ISO Class 4 (FED Class 10) particle free working environment and provide the best product protection.

The cabinet is enclosed on three sides and a constant positive air pressure is maintained to prevent the intrusion of any contaminated air.

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.



THE HIGHEST QUALITY

The cabinets conform fully to BS EN 14644-1 and offer clean air to ISO Class 4. British Manufactured U15 ULPA particulate filters are installed for the very best results.



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 7" 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

VERTICAL LAMINAR FLOW

The Circulaire® VLF Cabinets conform fully to BS EN 14644-1 and offer clean air to ISO Class 4 (FED Class 10). The cabinets use British Manufactured U15 ULPA (Ultra Low Penetration Air) particulate filters for the very best product protection.

FEATURES

- Visionaire® Touchscreen
- Automatic ECO-Mode*
- Easy Change Pre-Filters
- Hinged Front Panel
- Zintec Powder Coated Steel Construction
- Maximum Visibility Clear Side Panels
- Stainless Steel Worksurface**



VLFT1200



VLFT1000

VLFT1500

VLFT1800

Specification

	VLFT1000	VLFT1200	VLFT1500	VLFT1800
External Dimensions (W x D x H)	1000mm x 650mm x 1255mm	1200mm x 650mm x 1255mm	1500mm x 650mm x 1255mm	1800mm x 650mm x 1255mm
Working Area (W x D x H)	984mm x 648mm x 758mm	1184mm x 648mm x 758mm	1484mm x 648mm x 758mm	1784mm x 648mm x 758mm
Air Cleanliness	>ISO Class 4 (Class10)			
Noise Level	Circa. 51db(A)	Circa. 52db(A)	Circa. 54db(A)	
Airflow	850m ³ /hr	1050m ³ /hr	1325m ³ /hr	1600m ³ /hr
Airflow Speed	>0.4m/s			
Power	65 watts	70 watts	80 watts	90 watts

*Can be Deactivated if preferred.

**Optional Addition

HORIZONTAL LAMINAR FLOW

The Circulaire® HLF Cabinets conform fully to BS EN 14644-1 and offer clean air to ISO Class 4 (FED Class10). The cabinets use British Manufactured U15 ULPA (Ultra Low Penetration Air) particulate filters for the very best product protection.

FEATURES

- Visionaire® Touchscreen
- Automatic ECO-Mode*
- Easy Change Pre-Filters
- 316 Grade Stainless Steel Worksurface
- Zintec Powder Coated Steel Construction
- Maximum Visibility Clear Side Panels



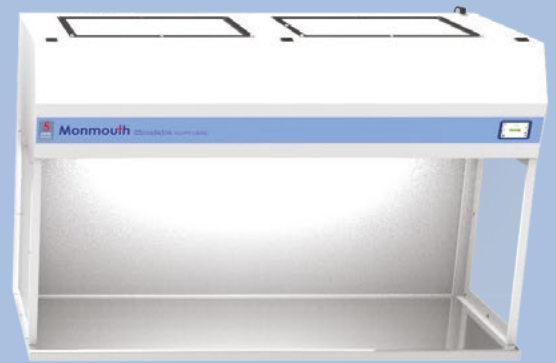
HLFT1200



HLFT1000



HLFT1500



HLFT1800

Specification

	HLFT1000	HLFT1200	HLFT1500	HLFT1800
External Dimensions (W x D x H)	1000mm x 721mm x 1166mm	1200mm x 721mm x 1166mm	1500mm x 721mm x 1166mm	1800mm x 721mm x 1166mm
Working Area (W x D x H)	984mm x 540mm x 715mm	1184mm x 540mm x 715mm	1484mm x 540mm x 715mm	1784mm x 540mm x 715mm
Air Cleanliness	>ISO Class 4 (Class10)			
Noise Level	Circa. 50db(A)	Circa. 52db(A)	Circa. 54db(A)	
Airflow	950m ³ /hr	1175m ³ /hr	1325m ³ /hr	1600m ³ /hr
Airflow Speed	>0.4m/s			
Power	65 watts	70 watts	80 watts	90 watts

*Can be Deactivated if preferred.

VLF650E VERTICAL LAMINAR FLOW

Ideal for tight budgets and limited space the VLF650E is perfect for a range of applications; from Laboratories, Forensics and Industry to Research, Manufacturing and Orchid Cultivation.

Manufactured from epoxy powder coated zintec mild steel and weighing just 32kg, the head is fitted with a recessed fluorescent strip light to illuminate the working area. In addition, the base section includes 5mm clear acrylic panels to all sides giving maximum visibility.



VLF650E

FEATURES & BENEFITS

-  Easy Clean
-  Typical Low Noise
-  Easy Change Filters
-  ISO 5 Environment
-  Fluorescent Strip Lighting
-  Compact Unit Footprint



Specification

External Dimentions	671mm wide, 506mm deep & 1086mm high
Internal Dimentions	607mm wide x 402mm deep x 708mm high
Laminar Airflow	0.35m/sec. High Performance, Low Noise Fans
Noise Level	Circa. 55db(A)
Pre-Filter	98% efficient at 0.5 micron (Grade EU4)
HEPA Filter	Rated at 99.997% efficient at >0.3 Micron Particles Filter seals under negative pressure to prevent leaks
Power	230v - 50hz - 400watts during standard operation

OPTIONAL FEATURES

An optional UV Light can be fitted along with a Polycarbonate Night Door to aid disinfection and sterilisation of the working chamber.



The following are also available:

- Stainless Steel Worksurface
- Gas & Water Supplies
- Electrical Sockets
- Base Stand
- Cable Entry Ports
- Custom Sizes Also Available

SERVICING

When servicing/calibrating/validating a Laminar Flow 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 & Photometers) to undertake the following:

- **Interior & Exterior condition.**
- **Access flaps and hinges checks.**
- **Lights, Switches & Fan Condition checks.**
- **All seals checked for integrity by DOP Smoke Test.**
- **Pre-filters replaced if necessary.**
- **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 are completed by skilled engineers. We pride ourselves on offering the most comprehensive service to safeguard your employees. Not all companies offer this level of servicing.



Monmouth Scientific

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

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