

PATHOLOGY & MICROBIOLOGY

Industry Collection



**Monmouth⁺
Scientific**

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THE MARKET LEADER IN *CLEAN AIR SOLUTIONS*

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Clean Environments **for a Sustainable Future**

At Monmouth Scientific we create Clean Environments to help Scientists and Technicians work Safely & Effectively.

Environmentally Responsible and Sustainable Recirculating Technology is the core of our expertise.

A UK Market Leader in Clean Air Solutions and at the forefront of the industry, we employ cutting-edge technologies and innovative engineering, to ensure that our solutions consume minimal energy while delivering optimal performance.

Our specialised *Pathology & Microbiology Industry Collection* has seen us successfully work with NHS Trusts and Private Pathology & Microbiology Clinical Laboratories, providing the best protection for your personnel.

From Downflow Benches and Chemical Storage to Biological Safety and Fume Cupboard solutions, we are a trusted partner to the Pathology & Microbiology sector.

Circulaire® Downflow Bench



RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



CUSTOM OPTIONS AVAILABLE



UNRESTRICTED WORKING AREA



ULTRA DEEP CARBON FILTERS



AIRFLOW SAFETY MONITORING



The Circulaire® Downflow Bench can be used in a wide variety of applications including: including tissue culturing, microbiology, histology, and molecular biology. They are used for activities such as slide preparation, staining, dissection, and handling of infectious or hazardous materials.

Unrestricted front and side access facilitates applications requiring complex and intensive operator involvement. Downward airflow in the chamber safeguards personnel and provides protection from fumes and particulate by drawing air through the stainless steel perforated work surface.

With a choice of Activated Carbon Filter blends available to suit many healthcare, laboratory and forensic applications, Circulaire® Downflow Benches also offer bespoke options including; Washdown Facilities, Water Supplies and Electrical Height Adjustment.

Product Specification (W x D x H)

*ALSO MANUFACTURED TO CUSTOM SIZE REQUIREMENTS

Model*	DFB1000	DFB1200	DFB1500	DFB1800	DFB2000
External Dimensions	1000mm x 750mm x 900mm	1200mm x 750mm x 900mm	1500mm x 750mm x 900mm	1800mm x 750mm x 900mm	2000mm x 750mm x 900mm
Ventilated Area	800mm x 500mm	650mm x 450mm	700mm x 500mm	1000mm x 500mm	600mm x 450mm (2 no.)
Sink Dimensions	N/A	400mm x 350mm x 250mm			
Primary Filter	Large Capacity Activated Carbon or HEPA Filter				

Circulaire® Downflow Workstation



RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



COMPACT UNIT FOOTPRINT



UNRESTRICTED WORKING AREA



ULTRA DEEP CARBON FILTERS



AIRFLOW SAFETY MONITORING



The Circulaire® Downflow Workstation offers high efficiency recirculating fume extraction, designed to ensure operator safety from hazardous vapours generated on the work surface.

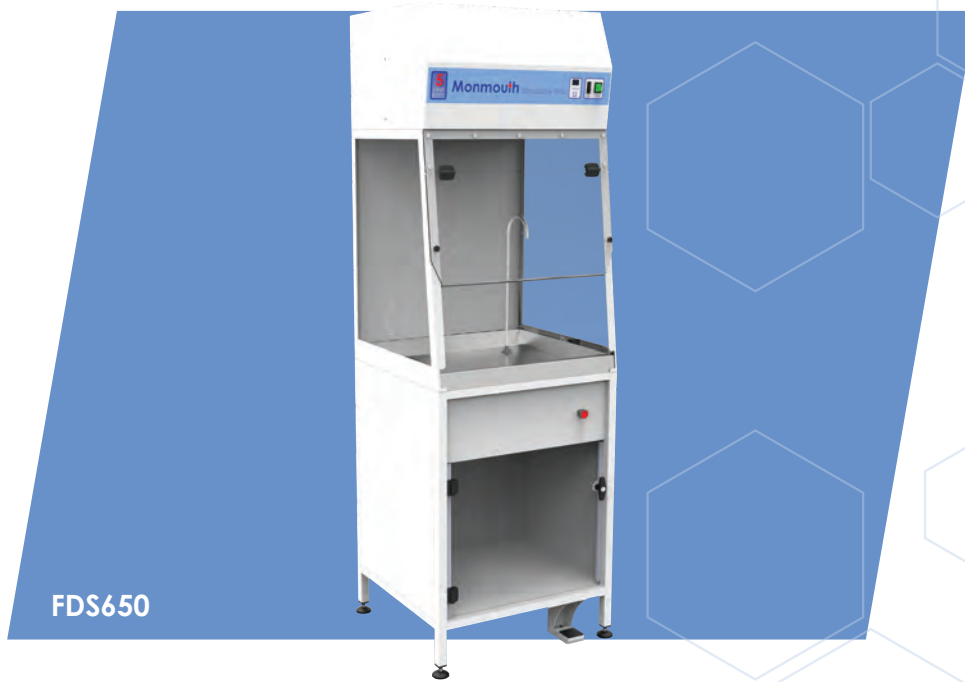
Downward airflow in the chamber protects the operator and provides protection from fumes and particulate by drawing air through the stainless-steel perforated work surface. Airflow is directed through large capacity Activated Carbon Filters.

With a wide choice of Activated Carbon blends (removal of chemical vapours and fumes) and HEPA filters (removal of particulate) available to suit your application, the Circulaire® Downflow range suitable for many different pathology, microbiology and forensic applications, including slide preparation, staining and minor dissection.

Product Specification (W x D x H)

Model	W 700	W 1000
External Dimensions	700mm x 600mm x 840mm	1000mm x 600mm x 840mm
Internal Dimensions	696mm x 540mm x 400mm	996mm x 540mm x 400mm
Primary Filter	Large Capacity Activated Carbon or HEPA Filter	
Power	250 watts	300 watts
Sound	circa. 53db(A)	circa. 57db(A)

Circulaire® Chemical Dispensing Station



RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



COMPACT UNIT FOOTPRINT



UNRESTRICTED DISPENSE AREA



ULTRA DEEP CARBON FILTERS



25 LITRE CHEMICAL CAPACITY



The Circulaire® Chemical Dispensing Station provides a compact and safe solution to the dispensing of Formalin, Formaldehyde and other chemicals.

A COSHH compliant, free standing solution, simply place a chemical container (up to 25 litre) into the base section, connect and dispense through the tap.

The large capacity carbon filter ensures that no fumes are returned into the working area. Where additional safety is required an outlet carbon filter can be fitted along with a Filter Condition alarm.

Product Specification (W x D x H)

Model	FDS650
External Dimensions	650mm x 600mm x 2023mm
Internal Dimensions	635mm x 595mm x 758mm
Face Velocity	0.55m/sec - Automatically Maintained
Airflow	340m ³ /hr
Primary Filter	Large Capacity Activated Carbon
Power	80watts
Sound	circa. 52db(A)

Circulaire® Chemical Storage Cabinet



RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



LOCKABLE SAFETY DOORS



REDUCED CHEMICAL HAZARD RISK



ULTRA DEEP CARBON FILTERS



AIRFLOW SAFETY MONITORING



The Circulaire® Chemical Storage units provide an effective and safe solution for storage of Formalin, Formaldehyde, Peracetic Acid and other chemicals in Pathology Laboratory & Mortuary environments.

Wherever specimens are stored, and despite being kept in sealed containers, they can still provide a source of potentially hazardous fumes. The chemicals are housed behind two lockable smoked acrylic doors for added security and kept on a multi-positional shelving system.

Available in a variety of sizes to suit differing requirements, the cabinet is constantly ventilated to prevent the build-up of fumes in the storage. Air is drawn through an activated carbon filter to remove fumes before being returned to the working environment. The airflow into the cabinet is constantly monitored and the user is alerted by initiative audible and visual alarms should the airflow fall below optimum levels.

Product Specification (W x D x H)

Model	FSC 600 L	FSC 600	FSC 1200 L	FSC 1200	FSC 1300
External Dimensions	600mm x 500mm x 1234mm	600mm x 500mm x 2154mm	1200mm x 500mm x 1234mm	1200mm x 500mm x 2154mm	1300mm x 500mm x 2154mm
Internal Dimensions	557mm x 480mm x 930mm	557mm x 480mm x 930mm	1157mm x 480mm x 930mm	1157mm x 480mm x 930mm	1257mm x 480mm x 930mm
Airflow	200m ³ /hr			350m ³ /hr	
Primary Filter	Large Capacity Activated Carbon				
Power	300 watts			500 watts	
Sound	circa. 53db(A)				

Guardian® Class 2 Biological Safety Cabinet



MSC1200

RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



ISO 4 CLEAN ENVIRONMENT



HIGH QUALITY HEPA FILTERS



UV CHAMBER DECONTAMINATION



HEALTH PROTECTION AGENCY TESTED



The Guardian® Class 2 Biological Safety Cabinets keep your team safe while handling potentially hazardous materials.

Our state-of-the-art biosafety solution is equipped with H14 HEPA Filters to create an ISO Class 4 Clean Environment.

Air drawn in via the front aperture into the cabinet (personnel protection) prevents aerosols generated during microbiological processes from escaping through the front opening.

HEPA-filtered, laminar airflow (product protection) cascades from the front face of the cabinet creating an air curtain while continually flushing the enclosure of airborne particles and ensuring the sample is protected from contamination. The contaminated air makes its way into a HEPA-filter system (environmental protection) before it is safely exhausted from the enclosure.

Product Specification (W x D x H)

Model	MSC800	MSC1200	MSC1800
External Dimensions	800mm x 750mm x 1321mm *	1200mm x 750mm x 1321mm *	1800mm x 750mm x 1321mm *
Internal Dimensions	707mm x 510mm x 741mm	1107mm x 510mm x 741mm	1707mm x 510mm x 741mm
Air Cleanliness	ISO Class 4 (Class 10)		
Primary Filter	H14 HEPA Filter - 99.97% efficient at 0.3µm		
Power	100 watts	150 watts	320 watts
Sound	circa. 54dB(A)		circa. 56dB(A)

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

Circulaire® Recirculating Fume Cupboard



RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



ULTRA DEEP CARBON FILTERS



AUTOMATIC AIRFLOW COMPENSATION



TOUCH SCREEN INTERFACE



AIRFLOW SAFETY MONITORING



The Circulaire® Recirculating Fume Cupboard feature the very latest in air filtration technology, can be installed anywhere within your workspace and thanks to our advanced carbon technology, require no ducting to an external environment.

Airflow is guided towards the interior in order to prevent released aerosols from leaving the controlled working area. Our range of Activated Carbon Filters have a high retention capacity to effectively trap solvent vapours at the source.

Recirculating clean air back into your laboratory or working environment ensures that non-ducted solutions are more environmentally friendly than a ducted option, and the impact of exhausting fumes to the outside atmosphere is substantially reduced.

Product Specification (W x D x H)

Model	CT800	CT1100	CT1400	CT1800
External Dimensions*	800mm x 700mm x 1284mm	1100mm x 700mm x 1284mm	1400mm x 700mm x 1284mm	1800mm x 700mm x 1284mm
Internal Dimensions	784mm x 650mm x 840mm	1084mm x 650mm x 840mm	1384mm x 650mm x 840mm	1784mm x 650mm x 840mm
Face Velocity	0.55m/sec - Automatically Maintained			
Airflow	300m ³ /hr	475m ³ /hr	650m ³ /hr	890m ³ /hr
Primary Filter	Large Capacity CARBON or HEPA			
Power	57 watts	100 watts	110 watts	160 watts
Sound	circa. 48db(A)	circa. 54db(A)		circa. 55db(A)

*CTPro - 1345mm High | Includes a Sliding Safety Sash & Large Touch Screen.

Circulaire® Laminar Flow Cabinet



VLFT1000

RECIRCULATING TECHNOLOGY



LOW ENERGY EFFICIENCY



ISO 4 CLEAN ENVIRONMENT



HIGH QUALITY ULPA FILTERS



VERTICAL AIRFLOW CABINET



HORIZONTAL AIRFLOW CABINET



Circulaire® Vertical and Horizontal Laminar Flow Cabinets offer clean air to ISO Class 4 using ULPA particulate filters protecting samples and sensitive processes from particle contamination.

The workstations create a controlled, ultra-clean airflow that moves in a unidirectional manner, minimising the risk of contaminants entering the working area.

Air is initially drawn through an easy-change, high-quality EU4 pre-filter to remove all gross particulate before being pushed through a U15 ULPA filter, removing 99.9998% of all particles at 0.12 µm in size.

Product Specification (W x D x H)

Model	VLFT1000	VLFT1200	VLFT1500	VLFT1800	HLFT1000	HLFT1200	HLFT1500	HLFT1800
External Dimensions	1000mm x 650mm x 1255mm	1200mm x 650mm x 1255mm	1500mm x 650mm x 1255mm	1800mm x 650mm x 1255mm	1000mm x 721mm x 1166mm	1200mm x 721mm x 1166mm	1500mm x 721mm x 1166mm	1800mm x 721mm x 1166mm
Internal Dimensions	984mm x 648mm x 730mm	1184mm x 648mm x 730mm	1484mm x 648mm x 730mm	1784mm x 648mm x 730mm	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)							
Airflow	850m³/hr	1050m³/hr	1325m³/hr	1600m³/hr	950m³/hr	1175m³/hr	1325m³/hr	1600m³/hr
Airflow Speed	0.4m/s							
Primary Filter	U15 ULPA - 99.9998% efficient at 0.12µm							
Power	65 watts	70 watts	80 watts	90 watts	65 watts	70 watts	80 watts	90 watts
Sound	circa. 51db(A)	circa. 52db(A)	circa. 54db(A)		circa. 50db(A)	circa. 52db(A)	circa. 54db(A)	



Trusted **Support & Maintenance**

Our range of Service Solutions cater for client specific needs, from single visits to long term service contracts, covering multiple sites all over the UK & Ireland.

We pride ourselves on offering a comprehensive service, carried out by skilled and qualified engineers, to safeguard your employees.

We can advise on product suitability for changes of application or arrange maintenance visits to ensure your investment remains in perfect working order.

High Quality **Manufacturing**

Our Manufacturing Facility can produce single one-off bespoke cabinets all the way through to large scale production runs and utilises the latest production techniques to ensure on-time delivery.

All products are rigorously tested to ensure compliance with the latest requirements to British and European standards.

The quality and performance of our Products is vital to us and to show our commitment we offer a 5 Year Warranty on all standard solutions.

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