CIRCULAIRE® FORMALIN CONTAINMENT SYSTEMS

Monmouth Scientific

Circulaire **Downflow Benches**

Monmouth Scientific have a wide variety of Downflow Bench systems available to suit almost every application. The units are typically used in Pathology Laboratories but are equally at home in most settings where localised containment is required.

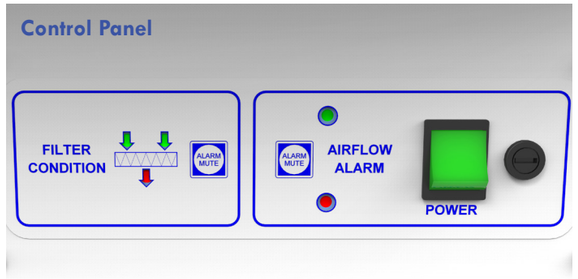
Designed to provide containment at the worksurface, the Monmouth Scientific benches draw fumes away from the operator and directly through the perforated worksurface. No acrylic or glass screens are required therefore providing excellent operator protection in a safe and uncluttered environment.

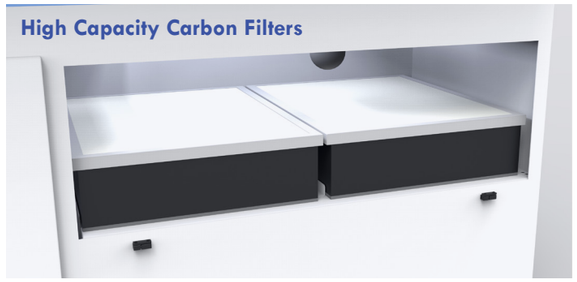
We can provide standard benches to match most user requirements or if you need something that extra bit special we can tailor make an individual bench or fit-out an entire laboratory suite with benches specific to your requirements.

Units are constructed for maximum reliability and strength. All work surfaces are manufactured from 316-grade stainless steel whilst the lower section is manufactured from zintec powder coated steel to prevent corrosion (If preferred, lower section can also be manufactured from stainless steel).

Containment is provided by way of large capacity activated carbon filters (or HEPA for particulate) and electrostatic pre-filters making the units extremely easy and cost efficient to install, as duct runs are not required. This also means that if laboratory requirements change, the benches can be easily repositioned.

All systems are fitted with low airflow alarms and can optionally be fitted with filter saturation alarms to alert the operator to any maintenance requirements. All benches are simple to operate with all controls and safety alarms mounted on a single panel.





Standard Downflow Bench Specifications

	DFB1000D/R	DFB1200D/R	DFB1500D/R	DFB1800D/R	DFB2000D/R
External Dimensions mm (WxDxH)	1000 x 750 x 900	1200 x 750 x 900	1500 x 750 x 900	1800 x 750 x 900	2000 x 750 x 900
Sink Dimensions mm (WxDxH)	N/A	400 x 350 x 250	400 x 350 x 250	400 x 350 x 250	400 x 350 x 250
Taps	N/A	Cold and/or hot Mixer or single	Cold and/or hot Mixer or single	Cold and/or hot Mixer or single	Cold and/or hot Mixer or single
Built-in Macerator	N/A	Optional	Optional	Optional	Optional
Ventilated Area Dimensions	800 x 500	600 x 450	700 x 500	1000 x 500	2no. 600 x 450
Containment Type	D = Ducted R = Recirculating	D = Ducted R = Recirculating	D = Ducted R = Recirculating	D = Ducted R = Recirculating	D = Ducted R = Recirculating
Washdown Facility	Optional	Optional	Optional	Optional	Optional
Electrical Height Adjustment	Optional - height then 800 to 1100mm	Optional - height then 800 to 1100mm	Optional - height then 800 to 1100mm	Optional - height then 800 to 1100mm	Optional - height then 800 to 1100mm
Construction	Epoxy Powder Coated Zintec Steel base with 316 grade stainless steel work area and sink				

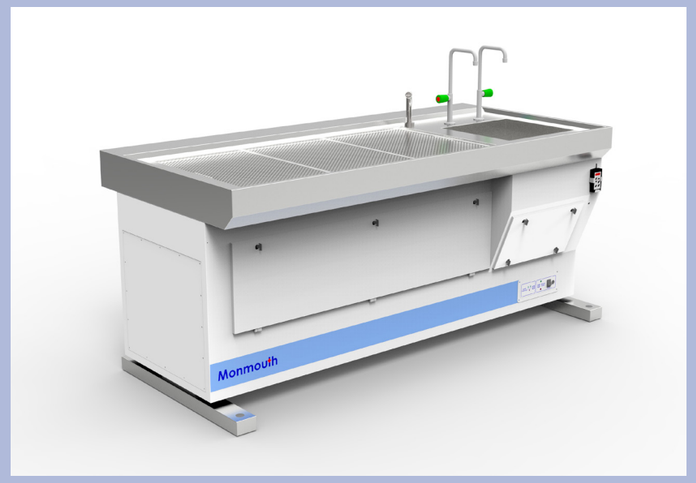
It is important to remember that with Downflow Benches in particular that one size or type of bench doesn't suit everyone. With Monmouth Scientific's design team, virtually anything is possible.

A few examples of custom units are highlighted below, but for more information on how we can fulfil your requirements, please do not hesitate to contact us.

Circulaire **Downflow Bench Examples**

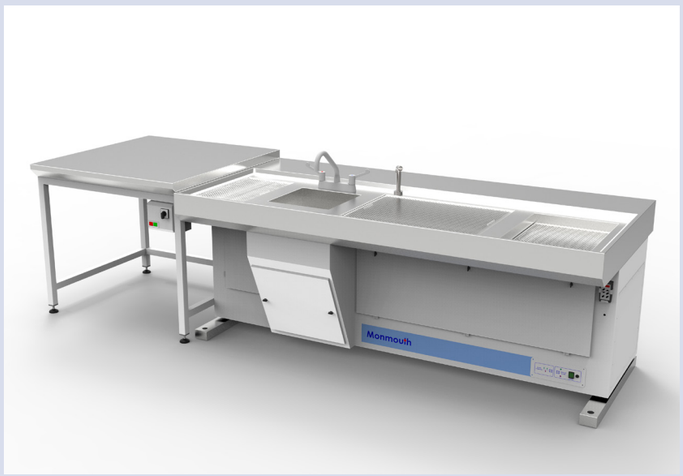
More examples available at

- **Adjustable height**
- **1.9m wide bench**
- **Hot and cold water supply**
- **Sink on right hand side**
- **Wash down facility**
- **Triple size ventilated work area.**



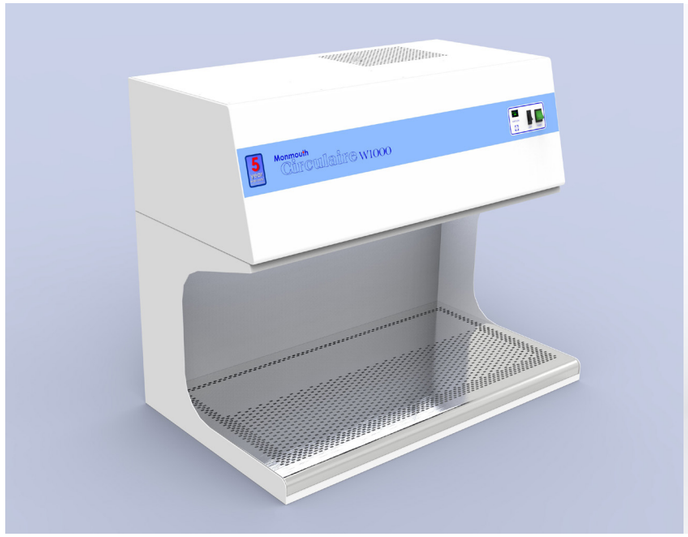
- **3.1m wide**
- **Fixed height downflow bench**
- **Central sink unit**
- **Cold water supply**
- **Two separate ventilated areas each with wash down hose and twin shelved ventilated storage area to the rear of the work area**

- **Adjustable height downflow bench**
- **Recessed pot storage area**
- **Large cut-up area**
- **Ventilated sink with mixer taps and drain macerator, washdown hose and ventilated drainage area.**
- **Fixed height writing bench is also on the left hand side**



Circulaire **Downflow Workstations**

More examples available at



The popular Circulaire downflow workstations are available in two different sizes, 700mm and 1000mm wide. Like the downflow benches, they provide protection from fumes and particulate by drawing air through the stainless steel perforated worksurface therefore ensuring compliance with COSHH regulations. The units are compact and extremely easy to install as they sit on any standard workbench. With a wide choice of activated carbon and HEPA filter types available the units are suitable for many different laboratory, industrial and forensic applications.

- Maximum Operator Safety
- Large unhindered work area
- Fume containment with a range of large capacity (11kg in W700) carbon filters or particulate containment with HEPA filter
- Low airflow monitoring with LCD animated visual and audible alarm system
- Excellent illumination of the working area
- Easy change pre-filters
- Deep stainless steel removable spillage tray for easy cleaning
- Acoustic damping to ensure near silent running
- Robust construction with corrosion protection
- All electronic circuits isolated from air stream
- Large area to the rear of the working area provides for the storage of chemicals
- Compact design allows the unit to be installed virtually anywhere

Specifications	Circulaire W700	Circulaire W1000
External Dimensions mm (WxDxH)	700 x 600 x 840	1000 x 600 x 840
Internal Dimensions mm (WxDxH)	690 x 540 x 400	990 x 540 x 400
Carbon Filter Weight	11kg	14kg
Pre-Filter	Filtrete	Filtrete
Fan	Centrifugal, Brushless & Sparkless	Centrifugal, Brushless & Sparkless
Noise Level	<57 db(A)	<53 db(A)
Electrical Supply	240v - 250watts	240v - 300watts
Construction	Epoxy Powder Coated Zintec Steel with 316 grade stainless steel worksurface	
Alarm	Low airflow audible and visual alarm with LCD graphic display	

Circulaire **Chemical Storage Cabinets**

The Monmouth Chemical Storage Cabinets are designed for the safe storage of samples and other items containing chemicals such as formalin or peracetic acid. The use of this system ensures that COSHH requirements are met for the safe storage of chemicals and specimens in Pathology Laboratories, Mortuaries and Operating Theatres.

The cabinets are available in a variety of standard sizes to suit differing requirements however all cabinet have the same high level of containment expected of Monmouth Scientific's products. Any combination of systems can be placed side-by-side to ensure a continuous run of shelving and cabinets.

Each full height cabinet has six separate stainless steel shelves, four of which are adjustable or removable, and smoked acrylic lockable doors for added security. The cabinet is constantly ventilated to prevent the build up of fumes in the storage area and therefore prevent anyone from being exposed to chemical inhalation. The air is drawn through an activated carbon filter sited above the cabinet to remove fumes before being returned to the laboratory or theatre.

Custom Sizes are available upon request.

Specifications	FSC600L	FSC600	FSC1200L	FSC1200	FSC1300
External Dimensions mm (WxDxH)	600 x 500 x 1300	600 x 500 x 2200	1200 x 500 x 1300	1200 x 500 x 2200	1300 x 500 x 2200
Internal Dimensions mm (WxDxH)	580 x 480 x 900	580 x 480 x 1800	1180 x 480 x 900	1180 x 480 x 1800	1280 x 480 x 1800
Airflow	200 m^3/hr	200 m^3/hr	350 m^3/hr	350 m^3/hr	400 m3/hr
Filter Weight	8kg	8kg	2 x 8kg	2 x 8kg	2 x 8kg
Pre-Filter	Filtrete	Filtrete	Filtrete	Filtrete	Filtrete
Fan	Centrifugal, Brushless & Sparkless	Centrifugal, Brushless & Sparkless	Centrifugal, Brushless & Sparkless	Centrifugal, Brushless & Sparkless	Centrifugal, Brushless & Sparkless
Noise Level	<53 db(A)	<53 db(A)	<53 db(A)	<53 db(A)	<53 db(A)
Electrical Supply	240v - 300watts	240v - 300watts	240v - 500watts	240v - 500watts	240v - 500watts
Construction	Epoxy Powder Coated Zintec Steel with 6mm smoked acrylic door panels with stainless steel shelves				
Options	Stainless Steel Drip Trays for shelves				

Specifications	
External Dimensions mm (Wx-DxH)	650 x 600 x 1982
Internal Dimensions mm (Wx-DxH)	600 x 600 x 760
Working Aperture mm (WxH)	590 x 300
Face Velocity	0.5 m/sec
Airflow	320 m^3/hr
Carbon Filter Type	Formalin
Filter Size mm	600 x400 x 115
Filter Weight	14kg
Pre-Filter	Filtrete
Internal Lighting	18 watt fluorescent
Fan	Centrifugal, Brushless & Sparkless
Water Supply	Optional
Foot Switch Control	Optional
Hand Operated Controls	Standard
Built-in 50 litre Formalin Tank	Optional
Noise Level	<57 db(A)
Electrical Supply	2 x 240v - 400watts
Construction	Head: Epoxy Powder Coated Zintec Steel with 6mm clear acrylic front and side upper panels.

Circulaire **650FDS Compact Formalin Dispensing Station**

The Circulaire 650FDS provides a compact and safe solution to the dispensing of Formalin in Operating Theatres, Pathology Laboratories & Mortuaries.

It is free standing and has a footprint of less than 0.4m2. It is extremely simple to use, just place your container of formalin into the base section, connect up and press the front mounted button (or optional foot switch) to dispense the formalin through the tap.

The upper cabinet provides full fume containment making sure that all formalin fumes are kept well away from the operator. The large capacity carbon filter ensures that no fumes are returned into the working area. This filter provides 3 to 4 years of life under normal use and is extremely easy to change when required. Where additional safety is required an outlet carbon filter can be fitted along with a filter saturation alarm to detect chemical breakthrough.

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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

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