

Monmouth
Scientific

www.monmouthscientific.co.uk

Monmouth⁺ Circulaire T800



Circulaire[®] Filtration Fume Cabinets

Monmouth Scientific's brand new range of industry leading filtration fume cabinets are perfect for a huge variety of different applications.

The Circulaire[®] Filtration Fume Cabinets with Visionaire[®] touch screen control system utilise the latest in carbon and HEPA filter technology. The deep bed carbon filters and the large working aperture of the cabinet offer unrivalled operator protection from the inhalation of fumes and / or particulates.

The cabinets are available in a variety of sizes to ensure there is a model to suit most applications and laboratories. A selection of standard options for the range is available. These include base stands, under cupboards, trolleys, gas outlets, water and drainage services, rear mounted scaffold racks and much more. For those instances when something standard won't quite fit the bill, Monmouth offer a customisation service where we can modify an existing design or come up with a complete design just for you.

Monmouth Scientific believes that you should not compromise on safety. That is why every bench mounted cabinet is supplied with 115mm deep carbon filter beds - the deepest of its type. In addition, every cabinet is fitted with a carbon filter saturation alarm, low airflow alarm and face velocity compensation to ensure the optimal cabinet air speed is always maintained.

- **Visionaire[®] Touch Screen**
- **Low Energy**
- **Low Noise**
- **Custom Applications**
- **British Design/Manufacture**
- **5 Year Warranty**





Visionaire®

Touch Screen Control System

"probably the easiest to use and understand fume cabinet control system in the world"

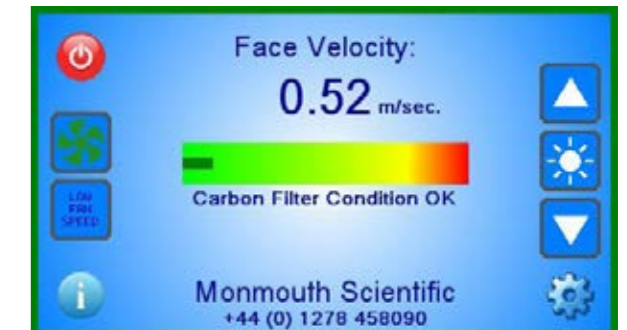
Monmouth Scientific

In Partnership With
Your Company

Visionaire® welcome screen



Filter application compatibility check



Standard operating screen - green border indicates no problems

Introducing the new Monmouth Circulaire® with Visionaire® Touch Screen Control System and Automatic ECO operation

All new Monmouth Circulaire® CT range cabinets are fitted with the very latest in touch screen technology, the Visionaire®. 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.

The system provides probably the easiest to use and understand fume cabinet control system in the world and makes the Monmouth Circulaire® CT range one of the most advanced cabinets of its type.

The new Visionaire® system offers some of the following functions in its design:

- Automatic ECO mode* lowers fan speed and switches off lights if cabinet left unused
- Welcome Screen
- Filter application compatibility check*
- Audible* & highly visual alarm system
- Visual display of airflow speed in m/sec or f/min
- Easily identifiable warning messages
- Automatic filter type, part number, serial number and change date recognition
- Hydrocarbon sensor and easily readable graph to warn of filter saturation
- Reduced fan speed operation – for sensitive applications
- Full information screen with: next service date, last service date, hours run total and since last service, cabinet serial number, date of commissioning, current time and date
- PIN number access to Engineer and Supervisor settings
- Full list of available filter types AND suitable applications
- Fan running indicator

* Can be deactivated if preferred.



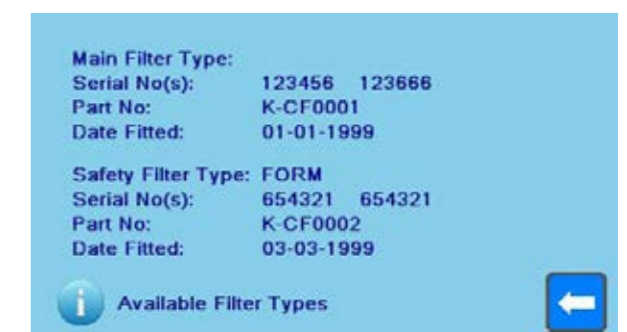
Error screen with warning and audible alarm* - red border indicates unsafe for use



Reduced fan speed operation – yellow border indicates caution



PIN number access to engineer and supervisor settings



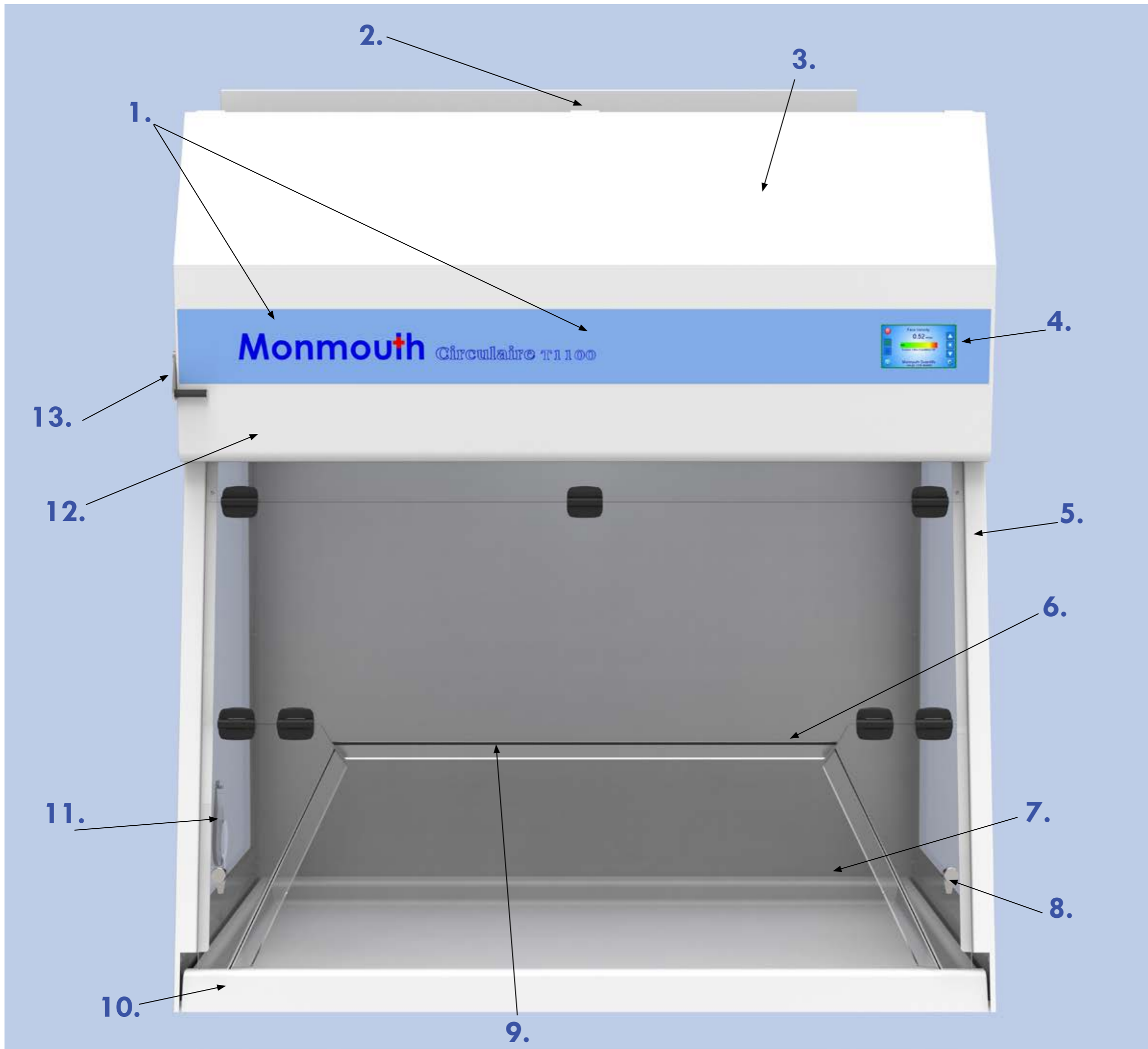
Automatic filter type, part number, serial number and change date recognition



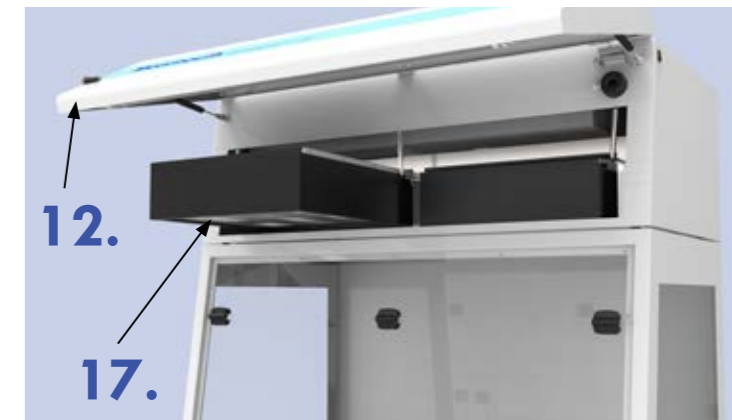
Full list of available filter types AND suitable applications



Full information screen with: next and last service date, hours run total and since last service, serial number, commissioning date, current time and date



14. 15. 16.



Features and Benefits of the cabinets

1. Large capacity HEPA or carbon filters
2. Optional outlet carbon or HEPA filters
3. Low noise, low energy fans
4. Visionaire® Touch Screen control system
5. Sloped front for easy viewing
6. Aerofoil angled glazing
7. Automatic face velocity airflow compensation
8. Sash locks
9. High and wide aperture for easy access to work area
10. Deep lipped removable spillage tray
11. Cable entry port for easy installation of equipment
12. Hinged panel for easy access to main filters
13. Glazing stay
14. Sash opens fully to allow equipment access
15. 'Safe-change' pre-filters
16. Built in PIR movement sensor to detect periods of inoperation
17. Easy changing and secure spring clamping of main filters



Standard Features:

- Visionaire® colour touch screen control system
- Low energy – cost saving and great ‘green’ credentials
- Low noise – better working environment
- Dimmable lighting – adjustment for all requirements
- Low airflow alarm
- Carbon filter saturation alarm
- Large filters for best containment and capacity
- Smooth white powder coated finish – great looking, chemically resistant and easily cleaned
- High working aperture for maximum access to working area
- Automatic face velocity air speed compensation
- Visual display of actual air speed in m/sec or ft/min
- Visual display of carbon filter capacity/saturation
- Cabinets manufactured from zintec mild steel means years of corrosion free use
- High-lipped moulded GRP spillage tray for containing spills and removable for easy cleaning
- Built in aerofoil/arm/wrist rest on leading edge of spillage tray for maximum operator comfort
- Aerofoil air intakes built into sash for improved airflow
- Sash latch to keep cabinet open for cleaning and installation of equipment
- ECO mode with PIR sensor – cabinet automatically saves energy when left unused for a pre-determined & adjustable period of time
- Easy & safe change pre-filter system
- Carbon and/or HEPA filters for maximum versatility
- Clear sides for maximum comfort and visibility
- Great range of sizes: 800mm , 1100mm, 1400mm & 1800mm
- EC Fans – maximum efficiency with low noise and low power requirements
- Mutable alarms and keypad notes for quiet labs or working areas
- PIN number controlled supervisor settings area
- Brushless and sparkless fans means no source of ignition to harmful gases or fumes
- All electrics are completely isolated from the airstream means no possible source of ignition of gases or fumes.
- 5 year limited warranty
- British designed and manufactured
- Filter suitability check on switch on for maximum safety
- Automatically recognised carbon and HEPA filter types/blends
- Sloped front for easy viewing
- Easy change main filters on sprung clamped aluminium rails



Optional extras

1. Trolley
 2. Sinks and taps
 3. Vented under cupboard
 4. Electrical sockets
 5. Rear mounted stainless steel scaffold
 6. Frame stands
- Polypropylene work surfaces
 - Stainless steel work surfaces
 - Custom sizes
 - Clear rear panels
 - Opaque side panels
 - Compressed air lines
 - Industrial gas services
 - Demineralised water services

Circulaire® CT800 - 800mm wide



Circulaire® CT1100 - 1100mm wide



Circulaire® CT1400 - 1400mm wide



Circulaire® CT1800 - 1800mm wide



We use only the finest grades of carbon to manufacture the filters and they can handle a huge variety of chemicals. The filters are typically available in the following blends:

- AC General organic compounds (i.e. elemental iodine, solvents, odours etc)
- ACID Acidic compounds (and general organics)
- ACR Alkali compounds (and general organics)
- AMM Ammonia & Amine containing compounds (and general organics)
- CYN Cyanide compounds (and general organics)
- ETHER Ether compounds (and general organics)
- FORM Aldehydes (and general organics)
- SUL Sulphur compounds (and general organics)
- MCH Special blend of up to 4 of the above carbon types
- ED Tri-Layered filter for schools (organic, acid & alkali removed)
- HEPA High Efficiency Particulate Air filter (99.997% efficient at 0.3 μ)

Other blends are also available upon request.

The new Circulaire® units are offered with our industry leading 5 year limited warranty. This means that we are so confident that your new fume cabinet will perform faultlessly for 5 years (and probably much longer) that provided you keep the unit annually serviced in accordance with COSHH by your authorised Monmouth service agent, we will repair the unit free of charge for 5 years from the date of installation.*

*Ask for full details of the warranty



Specifications

	Circulaire® T800	Circulaire® T1100	Circulaire® T1400	Circulaire® T1800
External Dimensions (mm)	800mm (w) 700mm (d) 1210mm (h)	1100mm (w) 700mm (d) 1210mm (h)	1400mm (w) 700mm (d) 1210mm (h)	1800mm (w) 700mm (d) 1210mm (h)
Work Area Dimensions (mm)	785mm (w) 650mm (d) 840mm (h)	1185mm (w) 650mm (d) 840mm (h)	1385mm (w) 650mm (d) 840mm (h)	1785mm (w) 650mm (d) 840mm (h)
Working aperture size (mm)	500mm (w) av. 300mm (h)	800mm (w) av. 300mm (h)	1100mm (w) av. 300mm (h)	1500mm (w) av. 300mm (h)
Aperture size with glazing open (mm)	720mm (w) 630mm (h)	1020mm (w) 630mm (h)	1320mm (w) 630mm (h)	1720mm (w) 630mm (h)
Typical face velocity (m/sec)	Typically set at 0.55m/s - however can be adjusted between 0.3m/s and 1.0m/s depending upon filters fitted and specific application			
Airflow (m³/hr)	300m³/hr	475m³/hr	650m³/hr	890m³/hr
Typical Noise Level	circa. 48db(A)	circa. 50db(A)	circa. 52db(A)	circa. 53db(A)
Internal Lighting	Twin LED full width strip lighting - >900 Lux - Dimmable via control panel			
Pre Filters	Easily replaceable with safe-change system			
Main Filters	1 x 16kg Carbon or 1 x large capacity HEPA	2 x 14kg Carbon or 2 x large capacity HEPAs	2 x 16kg Carbon or 2 x large capacity HEPAs	2 x 14kg and 1 x 16kg Carbon or 3 x large capacity HEPAs
Outlet Filters	1 x 5kg Carbon or 1 x large capacity HEPA	2 x 4kg Carbon or 1 x large capacity HEPA	2 x 5kg Carbon or 1 x large capacity HEPA	3 x 4kg Carbon or 2 x large capacity HEPAs
Airflow Monitoring	Low airflow monitoring with adjustable limits, audible and highly visual alarm			
Carbon Filter Monitoring	Hydrocarbon monitor fitted after main filter to detect filter saturation with two stage sensitivity, audible and highly visual alarm			
Control System	Visionaire® full colour touch screen control panel with airflow and filter alarms			
ECO Mode	Yes - User adjustable time delay from 5 mins to 60 mins or disabled			
High-lipped Spillage Tray	Removable - maximum capacity 14 litres	Removable - maximum capacity 21 litres	Removable - maximum capacity 27 litres	Removable - maximum capacity 35 litres
Power	240v - 50hz 57 watts during standard operation	240v - 50hz 80 watts during standard operation	240v - 50hz 100 watts during standard operation	240v - 50hz 120 watts during standard operation
Compliance to BS7989:2001	Yes			
CE Marking	Yes			

Errors and omissions excluded. In order to achieve continuous improvement, Monmouth Scientific reserve the right to alter any information within this brochure without notice.

Monmouth
Scientific



Units 5 & 6, Kilinside, East Quay, Bridgwater, Somerset, TA6 4DB United Kingdom

Tel: +44(0)1278 458090 Fax: +44(0)1278 458091

Email: info@monmouthscientific.co.uk

Website: www.monmouthscientific.co.uk