

Ductless Fume Cupboards

Perfect for laboratories that require a more mobile solution.



Ductless fume cupboards are the alternative to a fully ducted system. They take air from the room, pass the contaminated air through a filter(s), and release the clean air back into the room.

As they take less time to install, ductless fume cupboards are becoming increasingly popular. The initial investment is lower and they provide significant energy savings against traditional ducted versions.

However, filters do need to be replaced on a regular basis to maintain safety and compliance.

Key Benefits:

- Polypropylene construction
- Fully customisable
- Variable air volume options
- Multiple filter options



Energy-efficient LED lighting

Reduce your energy consumption with a long-lasting LED light - 800 LUX.



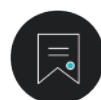
Large aperture

Large cabinet opening ensures you have enough room to work and access your materials easily.



Fully customisable

Let us help you design cabinets that are fit for purpose and designed to your specifications.



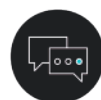
100% polypropylene carcass

No corrosion, ever. Allows for ultimate flexibility in design.



Safety and compliance

Our cupboards are built to comply with BS EN 14175 and ASHRAE 110-1995.



Intuitive user interface

Monitor every aspect and control all elements of the unit operation with our user-friendly, full colour interface.

Call now on **+44 (0) 1223 790028** to place your order or email **support@tion.co.uk**

For further product details and to see more from our range, visit **www.tion.co.uk**

At TION, we use 100% polypropylene to eliminate corrosion and increase flexibility in manufacture. Every cupboard is fully customisable to clients' requirements from the dimensions to the filtration types, everything can be adapted to meet specific requirements.

Two overarching models of TION ductless fume cupboards are available:

Standard Recirculating



Recirculating Pro



| Features | Standard Recirculating | Recirculating Pro |
|------------------------------------|------------------------|---------------------|
| Control Panel | 5-inch touch screen | 7-inch touch screen |
| Customisable Design | ✓ | ✓ |
| Fully Polypropylene Design | ✓ | ✓ |
| Metal or Cupboard Stand | ✓ | ✓ |
| Benchtop Mounting Available | ✓ | ✓ |
| Sliding Sash | ✓ | ✓ |
| Multiple Filter Options | ✓ | ✓ |
| Low Airflow Alarm | ✓ | ✓ |
| Low Airflow Internal Warning Light | ✗ | ✓ |
| Variable Air Volume (VAV) Control | ✗ | ✓ |
| Chemical Alarm | ✗ | ✓ |
| Services In Use Indicator | ✗ | ✓ |

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Standard 5" touch screen panel

As standard, the TION cabinets include a 5" touch screen control panel that includes:



- Airflow indicator
- Sockets switch
- LED light switch
- Calibration settings

Pro 7" touch screen panel for VAV

The pro version comes with a 7" panel which provides all of the features of the 5" panel and also enables:



- Manual fan speed adjustments
- UV light (optional)
- Internal warning lights

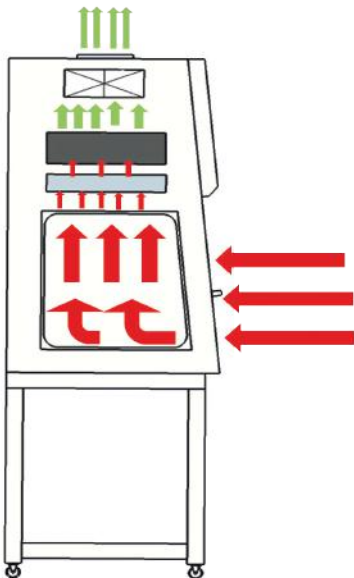
Airflow and filtration

Every recirculating fume cupboard is first fitted with a pre-filter to filter out large particles and protects the main filters inside the unit. The air is then passed through a specialist filter, the type of which depends on the application.

For organic, acid and other gas-based fumes, an activated carbon filter is used to filter the particles and release air back safely into the work area. TION can advise on the filters required depending on the chemicals you are using.

For particulates, a HEPA filter is fitted, which is highly efficient and, to meet the required standards, must remove 99.97% of all particles that are 0.3 microns in diameter. HEPA filters are often found in cleanroom systems.

If both gasses and particles are used inside the cupboard, a combination of both carbon and HEPA filters can be used.



Building fume cupboards to meet your specification is our priority. We believe fume cupboards should be designed around your workflows and specific requirements. 97% of the fume cupboards we design and build are bespoke in some way.

This is not to say that we don't build 'standard'. If standard is what your workflow needs, that is what we will build!

We build using a 100% polypropylene carcass. Polypropylene PP is an ideal material for constructing fume cupboards as it is not only highly chemically resistant in terms of corrosion, rust and staining but it's also considerably lighter, better for thermal insulation and of course requires no powder coating/painting.

Below is a table of the typical specifications we offer for standard size cupboards:

| Spec/Model | PP090R | PP120R | PP150R | PP180R |
|-----------------------------|--|---------------------|---------------------|---------------------|
| External Dimensions (WxDxH) | 900 x 750 x 1223mm | 1200 x 750 x 1223mm | 1500 x 750 x 1223mm | 1800 x 750 x 1223mm |
| Workspace (WxDxH) | 885 x 610 x 695mm | 1185 x 610 x 695mm | 1485 x 610 x 695mm | 1785 x 610 x 695mm |
| Front Sash Maximum Opening | 570mm/22.4" | | | |
| Production/Test Standard | EN-14175/ASHRAE 110-1995/BS7989/CLEAPSS | | | |
| Recommended Air Velocity | 0.5±0.1m/s, 100±20FPM | | | |
| Cabinet Material | Polypropylene | | | |
| Work Table Material | Polypropylene/Ceramic/HPL/Epoxy | | | |
| Noise Level | <52dB | <54dB | <60dB | <62dB |
| Power | 110/220V 50/60Hz, Single phase | | | |
| Illumination | 800 LUX, eco-friendly LED lighting | | | |
| Filter Options | Pre-filters, carbon filters for solvents, acids, formaldehyde and more, HEPA filters, ULPA filters | | | |

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Offering complete peace of mind

At TION, we understand that purchasing equipment from us is a capital investment for any business. With this in mind, we welcome customers to speak to our technical team regarding any questions you may have.

Our engineers will also be on hand to demonstrate some of the key functions of any TION product that's installed at your premises.



Experienced technical sales team

TION's sales team are always on hand to offer their expert advice and technical support and our engineers have extensive experience working with a range of clients on various projects. We'll help you select the appropriate equipment to suit your application, with the ultimate aim of providing the best design, manufacture and installation service in the UK.



Exceptional customer service

This is one of the most vital aspects of a complete service, but one that is often overlooked. Here at TION, providing the best customer service is important to us and is fundamental to our company ethos.

From SMEs to multi-national organisations, we always endeavour to provide the highest levels of service, no matter your requirements. We're not satisfied until you are.



Level up your workspace with our cutting-edge fume cupboards, biosafety cabinets, and clean air systems.



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