

# Ducted Fume Cupboards

The ultimate safety, longevity and low maintenance solution.



The TION ducted fume cupboards are the obvious choice for laboratories looking for the ultimate safety, longevity and low maintenance solution.

Made from 100% virgin medical-grade polypropylene, the units are resistant to even the harshest chemical environments. The fume cupboards are fully customisable from the size to the sash type and are a great option for those looking to utilise space and improve working efficiency.

## Key Benefits:

- Customisable
- Full polypropylene construction
- Certified to EN 14175 & Ashrae



### Energy-efficient LED lighting

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



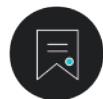
### Worksurface options

Depending on your requirements, we design a worksurface to suit your needs, with multiple types available.



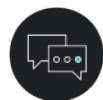
### Totally customisable

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. Anything can be easily customised.



### Intuitive user interface

All controls in one place with our user-friendly interface, with intuitive calibration and night setback mode.



### Polypropylene vented storage cabinets

100% polypropylene cabinets, including the door hinges. Options for drawers, knee space or cabinets.

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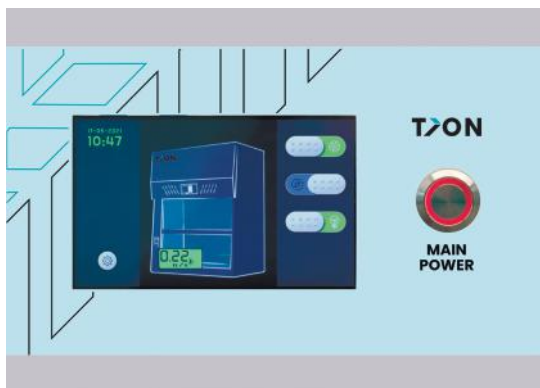
For further product details and to see more from our range, visit **www.tion.co.uk**



The TION control systems are built-in house and are designed to work with the cabinet as one ecosystem, removing the potential of breakdown between third party systems and providing greater flexibility and design.

This also means that everything can be controlled from the control panel without the requirement for multiple manual switches and buttons.

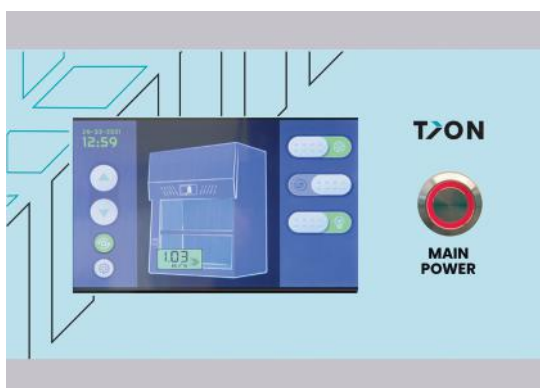
The control systems come in two main types:



## Standard 5" touch screen panel

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

- Airflow velocity display
- Low airflow alarm display
- Fan control on/off
- Calibration settings
- Airflow velocity display
- Low airflow alarm display
- Fan control on/off
- Calibration settings



## Pro 9" touch screen panel

The pro version of the TION control system comes with a 9" panel which provides all of the features of the 5" panel and also enables:

- VAV control
- Electronic auto sash (when fitted)
- Upgradable software system

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## Red light alarm system

Part of the TION control system is the red light airflow alarm. This allows a very visual representation of any airflow issue that may occur from any distance.

This system is particularly useful in noisy environments or large rooms where fume cupboards are not being worked in all of the time.

The red light alarm will turn off the internal light when alarming to ensure work does not continue until the issue is resolved.



## Auto-closing sash

The auto-closing sash is designed to remove human error and decrease the amount of air taken from the room at any time.

When an auto-closing sash is installed, the unit will be VAV enabled, which means that as the sash closes itself, the airflow will reduce, thus saving cost on heating/cooling of the laboratory. This system is particularly useful in environments with multiple hoods where work is not undertaken 100% of the time.



## 100% polypropylene carcass

Polypropylene is the ideal material for the construction of fume cupboards and we don't use just any polypropylene, but virgin medical-grade welded polypropylene.

Our cabinets are 100% polypropylene, including the door hinges and drawers. We can, of course, offer the traditional style ducted cupboards if required but we would always recommend the significantly better polypropylene version as this offers much higher chemical resistance than other materials used in traditional fume cupboards.

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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! Below is a table of the typical specifications we offer:

Spec/Model	PPFC120	PPFC150	PPFC180
<b>Bench Top Style</b>			
External Dimensions (WxDxH)	1200 x 805 x 2320mm	1500 x 805 x 2320mm	1800 x 805 x 2320mm
Workspace (WxDxH)	1000 x 630 x 1170mm	1300 x 630 x 1170mm	1600 x 630 x 1170mm
Cupboard Stand Dimensions (WxDxH)	1200 x 850 x 800mm	1500 x 850 x 800mm	1800 x 850 x 800mm
<b>Walk-In Style</b>			
External Dimensions (WxDxH)	1200 x 805 x 2350mm	1500 x 805 x 2350mm	1800 x 805 x 2350mm
Workspace (WxDxH)	1000 x 650 x 1900mm	1300 x 650 x 1900mm	1600 x 630 x 1170mm
Front Sash Max Opening	720mm/28.3"		
Production/Test Standard	EN-14175/ASHRAE 110-1995		
Recommended Air Velocity	0.5±0.1m/s, 120 ±20FPM		
Cabinet Material	Polypropylene		
Work Table Material	HPL/Ceramic/Epoxy/PP/Stainless Steel		
Optional Control Systems	VAV System With 7" Colour Touch Screen/Dynamic VAV		
Options	Taps: (Water, Gas Nitrogen, Vacuum, Others), Sinks, Sumps, Shelves, Multi-Sashes, Partitions, Glove Apertures...Anything is possible		

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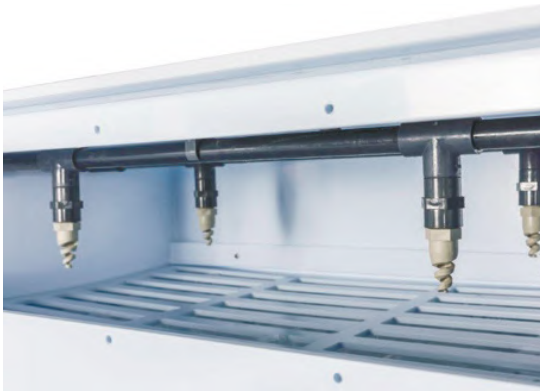
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## Scrubbed fume cupboards

The TION scrubbed fume cupboard hoods are an integrated scrubbing system per cabinet that allows for straightforward cleaning and maintenance whilst ensuring safety for the user and environment.

- Where very harsh chemicals are being used and in large quantities, a scrubbed fume cupboard may be the option to choose
- When performing acid digestion and working with acids such as hydrofluoric, a scrubbed unit is always advised.



## Wash down fume cupboards

Wash down fume cupboards are very specialist fume cupboard for when using perchloric acid. Rather than a traditional 'air scrubber' the units have a wash down system fitted that sprays water down the backs of the baffles and first part of the ductwork to ensure no crystallisation occurs. The wash down fume hoods are designed to be 100% fresh water and to drain rather than recirculate. The wash down system is turned on after each procedure or at the end of each day.



## Fully customisable units

Whether you are looking to utilise as much space as possible in your existing lab or are designing your lab from scratch, TION Fume can build something to maximise workspace and efficiency whilst maintaining compliance and safety. We're able to build almost any size of internal heights, widths and depths.

We've built cupboards from 600mm wide to 4000mm wide, so we understand the varied requirements you may have!



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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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