TION
INNOVATION IN ACTION

Class II Biosafety Cabinets

Prevent cross-contamination between the user, the sample and their environment.

TION's Class II cabinets isolate hazardous biological materials, preventing cross-contamination between the user, the sample and their environment. Ensuring your operators are safe and secure 24 hours a day.

Our products feature a modern, 9-inch digital control panel with integrated airflow controls, energy-efficient LED lighting and UV sterilisation as standard. In addition to high-spec ULPA filters, able to remove 99.99% of dust, pollen, mould, and bacteria at 0.12 microns or larger (HEPA filters are also available). Both technologically advanced and user-friendly, our focus on technical innovation expands the accessibility and capability of our cabinets inside your facility.

Key Benefits:

- Safe & Compliant
- Low Energy Consumption
- Easy Clean Procedures
- Range Flexibility

Energy-Efficient LED Lighting
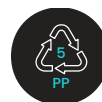Sealed LED lighting offers eco-friendly, cost-effective 800 LUX illumination.

Red Light Alarm System
Our complete safety solution includes a state-of-the-art red light alarm system to monitor your cabinet's internal airflow.

Height Adjustable Stand
Robust, height-adjustable stand and lockable casters ensure staff accessibility throughout the laboratory.

Polypropylene Construction
Corrosion-resistant polypropylene cabinet ensures maximum chemical resistance.

Worksurface Materials
Easy-clean 304 stainless steel work surface comes equipped as standard. Optional 316 stainless steel worksurfaces are available.

UV Sterilisation Timer
The UV light will only function when the cabinet sash is closed, preventing unwanted UV exposure.

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**

TION's class II biosafety cabinets are customisable systems prioritising technology, ergonomics and safety. If your cabinet requires specific materials or functionality not listed below, contact our solution design team on **01223 790028**.
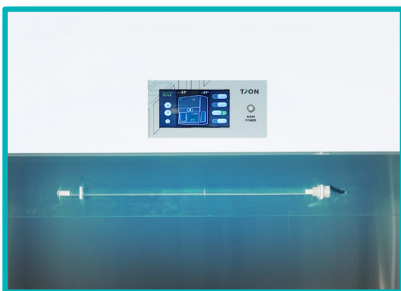
Ducted & Ductless
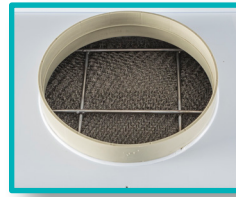
- Ducted: Fishtail outlet 250mm or 315mm in size
- Ductless: HEPA, ULPA and carbon filters available

Touch Screen Control Panel

- Available in 7 (Standard model) or 9 (Pro model) inches with IPMS
- Airflow velocity display
- Low airflow alarm display
- Fan control on/off
- Calibration settings
- Energy-efficient "Eco Mode"

UV Sterilisation Light

- EN 12469 certified
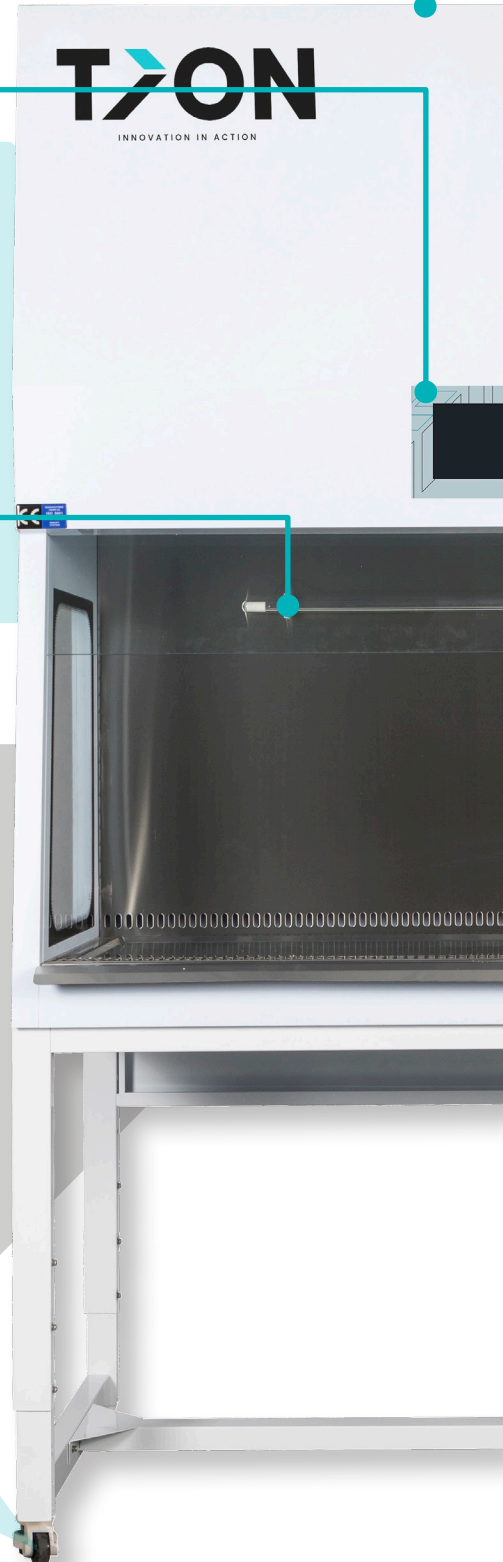- Waterproof
- Programmable by time and date
- Safety Interlock mechanism prevents UV exposure

Height Adjustable Stand

- Four tiers of height adjustment
- Reinforced steel screws
- *Lockable, rubberised casters

*

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Red Light Alarm

- Airflow monitoring
- Visual and audible
- Programmable

Electronic Sash

- 6mm safety glass
- *Plastic safeguard
- Touch-screen motion control

*
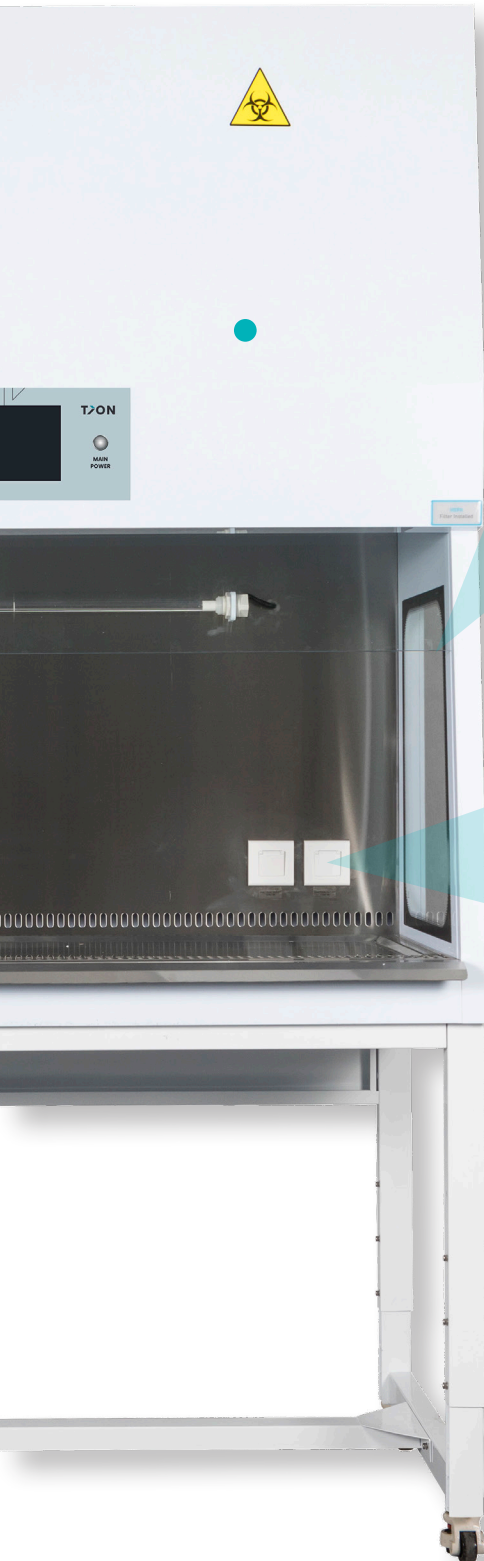
Custom Accessories

- Taps
- Sinks
- *Power outlets
- Centrifugal fans

*

Worksufaces

- Polypropylene
- Stainless steel
- Ceramic
- Epoxy
- Trespa

Polypropylene Carcass

- Easy cleaning
- Sustainable
- Lightweight & durable

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Our class II biosafety range covers four separate product groups:

1. **A2 Recirculating**: Standard recirculating units with full control panel functionality and filters.
2. **A2 Recirculating Metal Free**: Standard recirculating units with a full polypropylene build.
3. **A2 Essentials Compact**: Reduced cabinet size and control panel functionality.
4. **B2 Ducted**: PVC ducted units with full control panel functionality.

For more details on the features of each range, please refer to the specification table below.

A2 Recirculating	A2 Recircuating Metal Free	B2 Ducted	A2 Essentials Compact

Features	A2 Recirculating	A2 Recirculating Metal Free	B2 Ducted	A2 Essentials Compact
Control Panel	9-inch touch screen	9-inch touch screen	9-inch touch screen	7-inch touch screen
Customisable Design	✓	✓	✓	✓
Benchtop Mounting Available	✓	✓	✓	✓
Electronic Sash	✓	✓	✓	✓
Low Airflow Alarm	✓	✓	✓	✓
Multiple Filter Options	✓	✓	✓	✓
Stainless Steel Work Surface	✓	✕	✓	✓
Particle Monitoring System	✓	✓	✓	✕
Height Adjustable Stand	✓	✓	✓	✕
Energy Efficient Night Mode	✓	✓	✓	✕
Full Polypropylene Build	✕	✓	✕	✕
Filter Replacement Alarm	✓	✓	✕	✓

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Modern Touch-Screen With Integrated Particle Monitoring System

TION Global's Integrated Particle Monitoring System (IPMS) measures particle contamination in real time. The feed displays actionable data to the touch-screen control system, ensuring your workspace maintains ISO-5-level cleanliness. It's a cost-effective air quality control solution that eliminates the need for expensive 3rd party particle counters to be integrated.
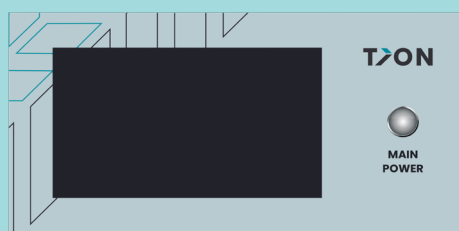

Green Light Indicator

➤ The level of cleanliness is equal to or better than the ISO-5 requirement within the cabinets workspace.

Red Light Indicator

➤ The level of cleanliness is lower than the ISO-5 requirement within the cabinets workspace.

Control Panel Functionality

➤ The control panel is equipped with low airflow alarms, filter alarms, electronic sash controls and red-light alarm notifications.

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A2 Recirculating Class II Biosafety Cabinets

This class II cabinet is made from corrosion-proof polypropylene with a 304 stainless steel worksurface, ULPA filters and a 9-inch control panel. It's best suited to large-scale biological testing and analysis.

Spec/Model	BSC915-A2	BSC1220-A2	BSC1525-A2	BSC1830-A2
Class II Biosafety Cabinets: A2 Recirculating				
External Size WxDxH (mm)	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace WxDxH (mm)	835 x 600 x 640 mm 32.8 x 23.6 x 25.2"	1135 x 600 x 640 mm 44.7 x 23.6 x 25.2"	1440 x 600 x 640 mm 57 x 23.6 x 25.2"	1715 x 600 x 640 mm 67.5 x 23.6 x 25.2"
Noise Level	<56dB	<62dB	<63dB	<63dB
Stand Dimensions WxDxH (mm)	915 x 780 x 704	1220 x 780 x 704	1525 x 780 x 704	1830 x 780 x 704
Front Sash Max Opening (mm)	505 mm / 19.9"			
Front Sash Working Height (mm)	200 mm / 7.9"			
Certification	Class 100/ISO 5			
Downflow Air Velocity	0.33 m/s, 60 fpm			
Inflow Air Velocity	0.5 m/s, 100 fpm			
Airflow Pattern	70% circulation, 30% exhaust			
Cabinet Material	Welded white polypropylene			
Work Table Material	304 stainless steel			
Filter Types	2 x ULPA H15 Efficiency @99.9995% @ 0.1 um (HEPA filters are also available)			
Control System	9" full-colour touch screen with low airflow alarms, filter change and service timers, optional particle monitoring system, red-light alarms (audio & visual) and eco mode.			
Power Supply Options	115 / 230V 50/60 Hz, single phase			
Illumination	800 LUX, eco-friendly LED lighting			
UV Light	Waterproof, germicidal UV sterilisation light operating at 254nm			
Customisation Options	Taps: (water, gas nitrogen, vacuum, others), sinks, sumps, shelves, multi-sash, partitions, glove apertures, dimensions and stands			

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A2 Recirculating Metal-Free Class II Biosafety Cabinets

Our metal-free biosafety cabinets offer the same functionality as our standard A2 recirculating biosafety cabinets. The only difference lies in the metal-free build materials and components used.

Spec/Model	BSC915-A2-MF	BSC1220-A2-MF	BSC1525-A2-MF	BSC1830-A2-MF
Class II Biosafety Cabinets: A2 Recirculating Metal-Free				
External Size WxDxH (mm)	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace WxDxH (mm)	835 x 600 x 630 mm 32.8 x 23.6 x 24.8"	1135 x 600 x 630 mm 44.7 x 23.6 x 24.8"	1440 x 600 x 630 mm 57 x 23.6 x 24.8"	1715 x 600 x 630 mm 67.5 x 23.6 x 24.8"
Noise Level	<55dB	<55dB	<57dB	<63dB
Stand Dimensions WxDxH (mm)	915 x 780 x 704	1220 x 780 x 704	1525 x 780 x 704	1830 x 780 x 704
Front Sash Max Opening (mm)	505 mm / 19.9"			
Front Sash Working Height (mm)	200 mm / 7.9"			
Certification	Class 100/ISO 5			
Downflow Air Velocity	0.33 m/s, 60 FPm			
Inflow Air Velocity	0.5 m/s, 100 fpm			
Airflow Pattern	70% circulation, 30% exhaust			
Cabinet Material	Welded white polypropylene			
Work Table Material	Welded white polypropylene			
Filter Types	2 x ULPA H15 Efficiency @99.9995% @ 0.1 um (HEPA filters are also available)			
Control System	9" full-colour touch screen with low airflow alarms, filter change and service timers, optional particle monitoring system, red-light alarms (audio & visual) and eco mode.			
Power Supply Options	115 / 230V 50/60 Hz, single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
UV Light	Waterproof, germicidal UV sterilisation light operating at 254nm			
Customisation Options	Taps: (water, gas nitrogen, vacuum, others), sinks, sumps, shelves, multi-sash, partitions, glove apertures, dimensions and stands			

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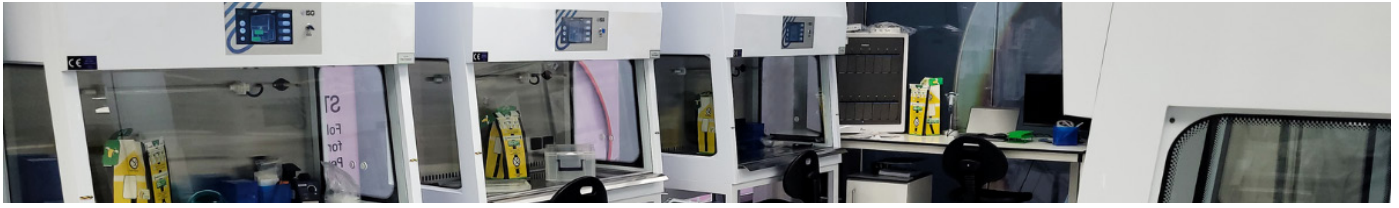
A2 Essentials Compact Class II Biosafety Cabinets

The A2 Essentials Compact class II biosafety cabinet is a cost-effective solution with a reduced work area and a smaller 7-inch touchscreen control panel compared with its standard A2 counterpart.

Spec/Model	BSC800-A2-EC	BSC1200-A2-EC	BSC1500-A2-EC	BSC1800-A2-EC
Class II Biosafety Cabinets: A2 Essentials Compact				
External Size WxDxH (mm)	800 x 680 x 1220 mm 31.5 x 26.7 x 48"	1200 x 680 x 1220 mm 47.2 x 26.7 x 48"	1500 x 680 x 1220 mm 59 x 26.7 x 48"	1800 x 680 x 1220 mm 70.8 x 26.7 x 48"
Workspace WxDxH (mm)	720 x 500 x 570 mm 28.3 x 19.6 x 22.4"	1120 x 500 x 570 mm 44 x 19.7 x 22.4"	1420 x 500 x 570 55.9 x 19.7 x 22.4"	1720 x 500 x 570 67.7 x 19.7 x 22.4"
Noise Level	<60dB	<66dB	<66dB	<66dB
Stand Dimensions WxDxH (mm)	Available on request	Available on request	Available on request	Available on request
Front Sash Max Opening (mm)	400 mm / 15.7"			
Front Sash Working Height (mm)	200 mm / 7.9"			
Certification	Class 100/ISO 5			
Downflow Air Velocity	0.26 m/s, 52 FPM			
Inflow Air Velocity	0.44 m/s, 88 fpm			
Airflow Pattern	70% circulation, 30% exhaust			
Cabinet Material	Welded white polypropylene			
Work Table Material	304 stainless steel			
Filter Types	ULPA H15 Efficiency @99.9995% @ 0.1 um (HEPA filters are also available)			
Control System	7" full-colour touch screen with low airflow alarms, filter change and service timers, red-light alarms (audio & visual) and eco mode			
Power Supply Options	115 / 230V 50/60 Hz, single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
UV Light	Waterproof, germicidal UV sterilisation light operating at 254nm			
Customisation Options	Taps: (water, gas nitrogen, vacuum, others), sinks, sumps, shelves, multi-sash, partitions, glove apertures, dimensions and stands			

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B2 Ducted Class II Biosafety Cabinets

Unlike our standard A2 recirculating products, the B2 ducted model exhausts air via a roof-mounted ventilation stack into the atmosphere. However, the technology and attributes largely remain the same.

Spec/Model	BSC915-B2	BSC1220-B2	BSC1525-B2	BSC1830-B2
Class II Biosafety Cabinets: B2 Ducted				
External Size WxDxH (mm)	915 x 800 x 1500 mm 36 x 31.5 x 59"	1220 x 800 x 1500 mm 48 x 31.5 x 59"	1525 x 800 x 1500 mm 60 x 31.5 x 59"	1830 x 800 x 1500 mm 72 x 31.5 x 59"
Workspace WxDxH (mm)	830 x 600 x 640 mm 32.6 x 23.6 x 25.2"	1135 x 600 x 640 mm 44.7 x 23.6 x 25.2"	1440 x 600 x 640 mm 57 x 23.6 x 25.2"	1715 x 600 x 640 mm 67.5 x 23.6 x 25.2"
Stand Dimensions WxDxH (mm)	915 x 780 x 704	1220 x 780 x 704	1525 x 780 x 704	1830 x 780 x 704
Front Sash Max Opening (mm)	450 mm / 17.7"			
Front Sash Working Height (mm)	200 mm / 7.9"			
Certification	Class 100/ISO 5			
Downflow Air Velocity	0.33 m/s, 60 fpm			
Inflow Air Velocity	0.5 m/s, 100 fpm			
Airflow Pattern	100% exhaust			
Cabinet Material	Welded white polypropylene			
Work Table Material	304 stainless steel			
Filter Types	2 x ULPA H15 Efficiency @99.9995% @ 0.1 um (HEPA filters are also available)			
Control System	9" full-colour touch screen with low airflow alarms, filter change and service timers, optional particle monitoring system, red-light alarms (audio & visual) and eco mode			
Power Supply Options	115 / 230V 50/60 Hz, single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
UV Light	Waterproof, germicidal UV sterilisation light operating at 254nm			
Customisation Options	Taps: (water, gas nitrogen, vacuum, others), sinks, sumps, shelves, multi-sash, partitions, glove apertures, dimensions and stands			

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Discover

This includes an extensive breakdown of key project budgets, such as building specifications, processes, workflows, and the laboratory itself. We understand the importance of capturing project details early on to reduce the chance of price complications and extended timelines.

Develop

During the development stage, you will collaborate and engage with core TION personnel and project stakeholders to develop a solution that's fit for purpose within your chosen space. Our aim is to alleviate any concerns or potential roadblocks and arrive at a final specification.
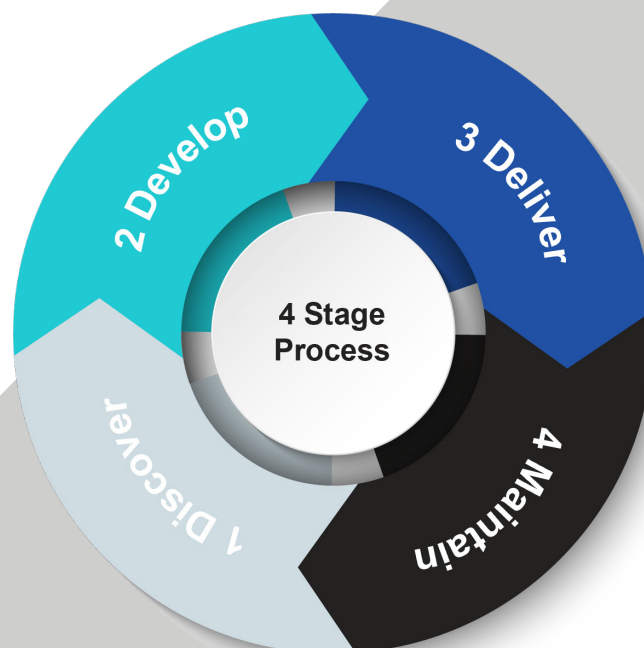
Deliver

Deliver is where the rubber meets the road, and we transform your build space into a cutting-edge laboratory. Our delivery personnel will coordinate with your team to ensure that every step of the program is clear and delivered on time by working closely with on-site contractors.

Maintain

Completing a project is really the first step. Ensuring reliability and consistency of communication following a project is paramount. Everything from asset registration, job logging, and PPM (Planned preventative maintenance) is covered by our methodology.

2 Develop

3 Deliver

4 Stage Process

1 Discover

4 Maintain

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