

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 & secure 24hrs 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 & user-friendly, our focus on technical innovation expands the accessibility & 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.



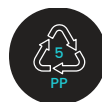
Red Light Alarm System

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**

Our class II biosafety range covers four separate product groups:

- A2 Recirculating:** Standard recirculating units with full control panel functionality and filters.
- A2 Recirculating Metal Free:** Standard recirculating units with a full polypropylene build.
- A2 Essentials Compact:** Reduced cabinet size & control panel functionality.
- 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.



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	✓	✓	✗	✓



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.



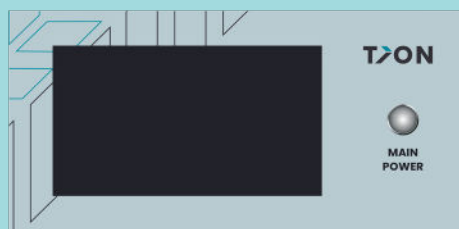
Green Light Indicator

➤ 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, VAV controls, electronic sash controls & red-light alarm notifications.

Spec/Model	BSC915-A2	BSC1220-A2	BSC1525-A2	BSC1830-A2
A2 Recirculating Biosafety Cabinets				
External Dimensions (WxDxH)	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)	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
Carcass Material	Polypropylene with stainless steel 304 worktop	Polypropylene with stainless steel 304 worktop	Polypropylene with stainless steel 304 worktop	Polypropylene with stainless steel 304 worktop
Spec/Model	BSC915-A2-MF	BSC1220-A2-MF	BSC1525-A2-MF	BSC1830-A2-MF
A2 Recirculating Metal-Free Biosafety Cabinets				
External Dimensions (WxDxH)	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)	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
Carcass Material	100% polypropylene structure including worktop	100% polypropylene structure including worktop	100% polypropylene structure including worktop	100% polypropylene structure including worktop
Front Sash Maximum Opening	480 mm / 18.9"			
Downflow Velocity	0.33 m/s, 60 FPM			
Inflow velocity	0.5 m/s, 100 fpm			
Airflow pattern	70% circulation, 30% exhaust			
Cleanliness level	Class 100/ISO 5			
Power supply	115 / 230V 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	2 x ULPA H15 Efficiency @99.9995% @ 0.1 um			
Options	Motorised Stand, multi or single piece worksurface			
Integrated Particle Monitoring System	Yes			

A2 Essentials Compact Biosafety Cabinets

The difference between our Essential Compact & Standard A2 recirculating models lies in the technologies and accessories available to each product. The Essential Compact range is significantly smaller in size, features a 7-inch touch-screen control system and lacks the integrated particle monitoring system and energy-efficient night mode.

For more information on our Essentials Compact range, please refer to the specification table below:

Spec/Model	BSC800-A2-EC	BSC1200-A2-EC	BSC1500-A2-EC	BSC1800-A2-EC
A2 Essentials Compact Biosafety Cabinets				
External Dimensions (W x D x H)	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 (W x D x H)	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"
Front Sash Maximum Opening	400 mm / 15.7"			
Certification	Manufactured to comply with BS EN 12469:2000			
Downflow Velocity	0.26 m/s, 52 FPM			
Inflow velocity	0.44 m/s, 88 fpm			
Airflow pattern	70% circulation, 30% exhaust			
Cleanliness level	Class 100/ISO 5			
Carcass Material	Welded white polypropylene structure with stainless steel 304 worktop			
Noise Level	<60dB	<66dB	<66dB	<66dB
Power supply	115 / 230V 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	2x ULPA H15 Efficiency @99.9995% @ 0.1 um			
Options	Fixed height stand 800mm (working height of 900mm)			

Please Note: Our Essentials range comes with a 7" screen as standard, if you wish to upgrade to a 9" control system, contact our solution designers.

B2 Ducted Biosafety Cabinets

Unlike our standard A2 recirculating products, the B2 ducted model exhausts air via a roof-mounted ventilation stack. Although the short-term installation costs are significantly higher, the ability to experiment with a broader range of substances (chemicals & acids) justifies the initial investment. B2 models can also be integrated with VAV (variable air volume) functionality.

For more information on our B2 Ducted range, please refer to the specification table below:

Spec/Model	BSC915-B2	BSC1220-B2	BSC1525-B2	BSC1830-B2
B2 Ducted Biosafety Cabinets				
External Dimensions (W x D x H)	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 (W x D x H)	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"
Front Sash Maximum Opening	450 mm / 17.7"			
Certification	Manufactured to comply with BS EN 12469			
Downflow Velocity	0.33 m/s, 60 fpm			
Inflow velocity	0.5 m/s, 100 fpm			
Airflow pattern	100% exhaust			
Cleanliness level	Class 100/ISO 5			
Carcass Material	Welded white polypropylene structure with stainless steel 304 worktop			
Noise Level	<52dB	<52dB	<54dB	<60dB
Power supply	115 / 230V 50/60 Hz, Single phase			
Illumination	800 LUX, Eco-friendly LED lighting			
Filters	2 x ULPA H15 Efficiency @99.9995% @ 0.1 um			
Options	Motorised Stand, multi or single piece worksurface			

Please Note: Our B2 ducted models use a combination of ULPA or HEPA filters and ducting.



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.



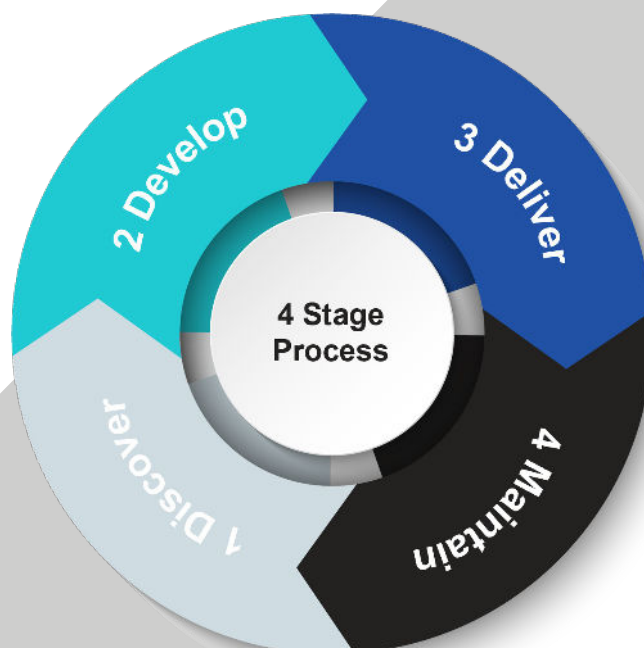
Deliver

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.





Contact us today for more information
Call us on +44 (0) 1223 790028
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