CLYDE-APAC

SETTING NEW

STANDARDS

FOR SAFETY

UltraSafe

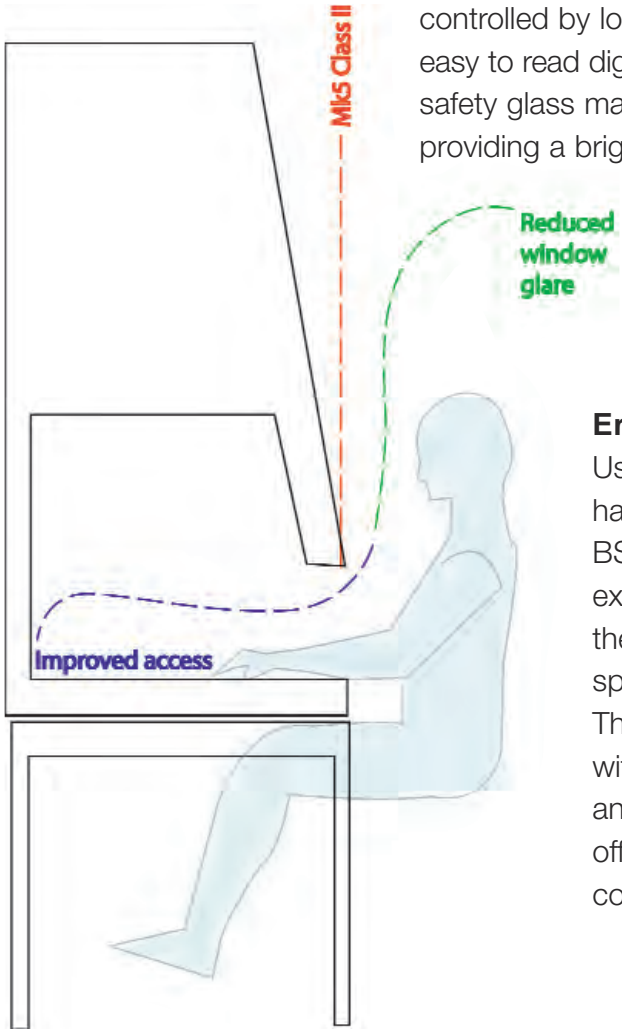
Class II Biological Safety Cabinets

Introducing the new Ultima Series II cabinet By Clyde-Apac

This new design cabinet features an ergonomically-designed operating window that slants away from the operator. A feature which greatly enhances the new cabinets ease of use without compromising the clean integrity of the work zone. Add to this a wide range of accessories, and the proven reliability of the Email brand and the Ultrasafe represents excellent value for money in the Laminar Flow market.

Ultrasafe cabinets use digital technology to maintain constant airflow during normal filter loading or temporary airflow obstruction from foreign objects.
Pressure sensor monitoring ensures safe and uniform airflow across the entire work surface of the cabinet. Independent alarm systems immediately alert the user to any airflow obstruction.

User-friendly. The functions of the cabinet are simply controlled by low-voltage electronic touch controls with an easy to read digital display. The transparent side UV resistant safety glass maximizes light and visibility inside the cabinet, providing a bright and open working environment.

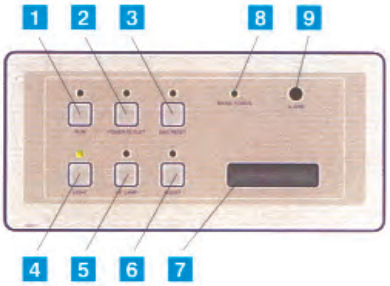


Ergonomic design.
User discomfort and ergonomic hazards associated with traditional BSCs include working in a static, extended posture, limited visibility at the sight line and lack of knee/leg space under the cabinet.
The new Ultrasafe cabinet is designed with a sloping front, work tray options and electric height-adjustable stand to offer significantly improved ergonomics compared to a traditional cabinet.

Control Panel

1. Fan/post-use over-run switch
2. Power outlet switch
3. Gas reset switch*
4. Fluorescent light switch
5. UV lamp switch*
6. Boost mode switch
7. Display panel
8. Mains power indicator
9. Alarm indicator

*optional function



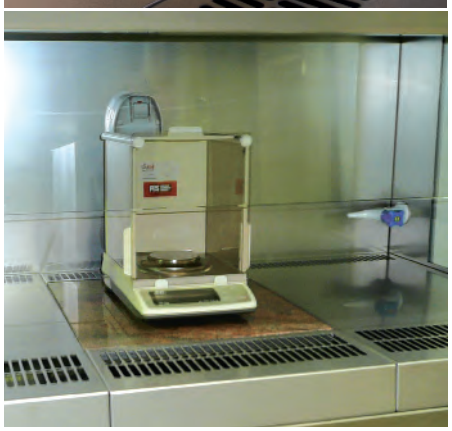
Silence without compromising comfort and safety. User safety and comfort is paramount with all Email manufactured biological safety cabinets. The comfortable, 200mm front working aperture on the Ultrasafe does not compromise safety or sample containment while significantly reducing noise level. All our cabinets have been tested at nominal airflow velocities for added security.

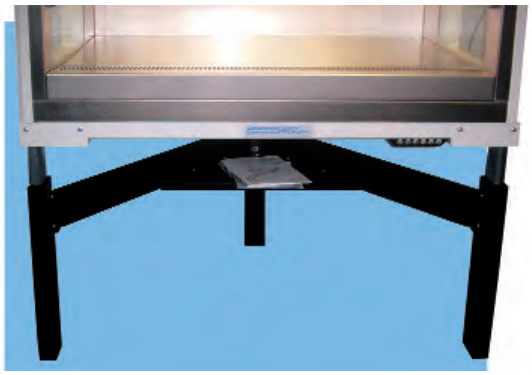
Dual fan design for guaranteed safety. If one fan fails, minimal protection is still maintained with only one fan running.

Integrated filtration system. Independent H14 HEPA supply and exhaust filters provide 99.999% typical efficiency for particle sizes of 0.1 to 0.3 microns.

A backup battery maintains alarm function for airflow, power and pressure alarm in the event of a power failure.

Customized work surfaces. Scratch-free, high quality stainless steel work surfaces are available as single or segmented modules and are easy to clean or autoclave. The indented work modules easily trap spilled liquids.





Top: Ultrasafe with optional granite workstation section installed

Left: Electric stand with 4x preset height settings

Right: Flat, indented and custom work trays can be supplied.

General Specification Ultrasafe Class II Biological Safety Cabinet				
Model		Ultrasafe 90	Ultrasafe 120	Ultrasafe 180
Part Number		1687-6000/90T	1687-6000/120T	1687-6000/180T
Nominal Size		0.9 metres (3')	1.2 metres (4')	1.8 metres (6')
External Dimensions (W x D x H)		1035 x 790 x 1570mm	1350 x 790 x 1570mm	1975 x 790 x 1570mm
Internal Work Zone Dimensions (W x D x H)		870 x 580 x 620mm	1180 x 580 x 620mm	1810 x 580 x 620mm
Test Opening		210mm	210mm	210mm
Working Opening		210mm	210mm	210mm
Fans: 240V single phase direct drive		2	2	3
Average Airflow Velocity	Inflow to grille	1 metre per second at set point		
	Downflow	0.4 - 0.45 metres per second		
Airflow Velocity	Inflow	250 L/s	300 L/s	490 L/s
	Downflow	240 L/s	290 L/s	470 L/s
	Exhaust	250 L/s	300 L/s	490 L/s
Sound Emission	AS: 1807.20	< 58.8 dB (A)	< 60.2 dB (A)	< 62.8 dB (A)
HEPA Filter	Downflow	99.9995% at 0.1 to 0.3 microns to AS 4260 / EN1822		
Typical Efficiency	Exhaust	99.9995% at 0.1 to 0.3 microns to AS 4260 / EN1822		
Germicidal UV lamp AS 1807.15		400 mW/m^2		
Fluorescent Lamp Intensity AS 1807.15			1200 Lux	
Certification to Australian Standards		AS1807.1 / AS1807.5 / AS1807.6 / AS1807.15 / AS1807.20 / AS1807.22 / AS1807.23		
Cabinet Construction AS2252.2 - 2009	Main Body	1.2mm 18 gauge electro galvanised steel. Powder coated		
	Work Surface	1.2mm 18 gauge type 304 stainless steel with B2 finish		
	Side Walls and Sump	1.2mm 18 gauge type 304 stainless steel with B2 finish		
Gas tightness of outer shell		Gas tightness of outer shell determined in accordance with AS 1807.25		
Front viewing window			6mm laminated glass	
Electrical	Cabinet Power / Amp	1300 Watts - 10 Amps	1300 Watts - 10 Amps	1300 Watts - 10 Amps
220-240V AC	Outlet Amp Fuse	10 Amps	10 Amps	10 Amps
50Hz	Full Load Amps	4.5 Amps	4.5 Amps	6.75 Amps
	Power Consumption	0.7 Kw	0.7 Kw	1.1 Kw
Cabinet Net Weight kg		210	250	280
Shipping Dimensions		1085 x 800 x 1650 mm	1400 x 800 x 1650 mm	2025 x 800 x 1650 mm
Total Shipping Weight kg		240	280	330
Shipping Volume		1.4322m3	1.848m3	2.673m3

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