

ENVAIR LAB



Envair Lab UCS Basic+

Class II Microbiological Safety Cabinets



Envair Basic + Microbiological Safety Cabinets belong to the latest generation of laminar air flow systems. The performance, reliability and return on investment of Envair Basic + cabinets surpass most known “value for money” Microbiological Safety Cabinets on the market.



Envair Class II Microbiological Safety Cabinets are designed and built to meet the requirements of the EN-12469:2000 European Standard, with 70% of the air re-circulated via the main Class H14 HEPA filter within the cabinet, whilst the remaining 30% is discharged through an exhaust Class H14 HEPA filter. (The ambient air is drawn in from the slots at the stainless steel base of the front opening and it then passes under the work surface, where it is drawn up and blown into the plenum of the re-circulating and exhaust fan.)

Featuring automatic regulation and microprocessor based monitoring systems, these cabinets are suitable for handling micro-organisms and pathogens as defined by the appropriate European and other International Standards, as well as current health and safety guidelines and legislation aimed at safeguarding the health and safety of operators at work.

Applications & Key Features

Microbiological Safety Cabinets have been adopted worldwide for use in product, personnel and environmental protection whilst handling harmful agents pathogenic to human beings and/or animals. They operate in a wide range of disciplines, such as Microbiology, Virology, Haematology, Cell culture, Genetics, and the handling of hazardous agents.



EASY INSTALLATION

The safety cabinet can pass through 800 mm wide door openings. In fact, the overall depth of the cabinet can be reduced to approx. 790 mm by the removal of the rear panel.

REMOVABLE WORK SURFACE

The work surface is stainless steel AISI 304L, consisting of sections which are easily removable for cleaning and/or autoclaving sterilisation procedures. They are supplied as standard with a solid multi-piece work surface; a perforated and/or single piece work surface is available on request.

REMOVABLE UV STERILISING LAMP

The removable UV sterilising lamp (optional) can easily be placed in each area of the back wall. They come complete with two switch-off countdown timers, variable on a 0-3 hours scale (1 minute steps) – one with immediate start, one programmable for day, start-up hour and duration.

EASY CLEANING AND MAINTENANCE

The electrically operated safety glass sash window is hinged and can be opened during cleaning and routine maintenance.

CABINET ELEMENTS

An IP 44 electrical socket is fitted as standard in each size model (1 for size 0.9 & 1.2m and 2 for size 1.5 & 1.8m). Servicing holes are positioned on the side glass for taps installation (optional).

SILENT OPERATION

The bag plenum, the structures of the electric motor of the fan (fitted on its anti-vibration mounts) and the software itself all guarantee the quiet operation of this safety cabinet. Its sound-pressure levels are way below the parameters specified in the current EN 12469:2000 European Standard for Microbiological Safety Cabinets.

HIGH LEVEL LIGHTING

The safety glass side-windows and optimised positioning and sizing of the light system provide the highest level of luminosity to the work area.

The User Friendly Practical Keyboard

The rear-lit LCD continuously displays vital data keeping the user informed of the cabinet conditions.

The display shows:

- Laminar airflow velocity and frontal air barrier velocity
- Residual lifetime of HEPA filters, UV Lamp (if fitted)
- Total number of hours of operation
- Saturation level of HEPA filters

Audio-visual alarms are fitted for:

- Out of range or incorrect laminar airflow velocity and frontal air barrier velocity
- Incorrect position of front sash-window
- Saturation of the filters
- End of life-cycle of UV lamp (if fitted)
- Blockage in the exhaust duct
- Fan-motor malfunction
- Power failure



Safety

Manufacturing truly safe cabinets depends entirely upon the quality of their design and their components. The ENVAIR QUALITY AND SAFETY PROGRAM consists of a new set of standard operational procedures and manufacturing methods, which is applied to each and every step of the production processes aimed at fulfilling the highest standards of safety.

ANTI BACTERIAL COATING

Each cabinet is coated with exclusive Dupont™ ALESTA® anti-bacterial "Ag+cations-based solution", capable of preventing the microbial contamination of surfaces thereby inhibiting long term surface growth.

LOW NOISE LEVEL

The unique design and materials of the special plenum and filter-housing ensure a significant reduction in sound-pressure levels providing almost silent operation.

TRUE LAMINAR FLOW

The internal aerodynamic design of the chamber provides ideal laminar air-flow patterns - providing conditions to satisfy performance the requirements expressed by EN:12469:2000 European Standard.

Software

- Instant management and monitoring of operational parameters and automatic compensation system control by the new ECS® microprocessor.
- Software features easily programmable replacement of spare parts and filters
- Countdown timer integrated within the control board.
- Permanent record of all alarms and anomalies memorised by the control-board for the lifetime of the cabinet.
- One Push Restore menu, to reset the original factory calibration data.
- Alarm clock integrated in the control board.





Our Commitments:

New technology for low environmental impact

Fully aware that today's choices will determine tomorrow's world, we are convinced that technology must protect the environment to ensure continuing sustainable progress.

Respect for the environment motivates us to manufacture with ultralow environmental impact, by utilising:

- Electronically controlled motor-blower with automatic pressure-drop compensation
- 99% recyclable components
- Innovative technologies, such as the new ECS® microprocessor



QUALITY ASSURANCE DEPARTMENT

Each cabinet is tested to ensure conformity to EN12469:2000, DIN 12980:2005 EN61010:2001, and is released with FAT certificate of the tests performed.



CERTIFICATIONS

ISO 9001 Certification



TAILOR-MADE CABINETS

Custom cabinets manufactured on request



CUSTOMER CARE

Prompt technical assistance by phone and mail – within 24 hours of the call
Hot-line for immediate technical assistance and feasibility study

Technical Specification



Description	Unit	UCS 2-3	UCS 2-4	UCS 2-5	UCS 2-6
External Dimensions (W x H x D)	mm	1045x1500x810	1350x1500x810	1655x1500x810	1960x1500x810
Depth reduced to 780mm for delivery by simply removing the back panel					
Internal Dimensions (W x H x D)	mm	887x740x580	1192x740x580	1497x740x580	1802x740x580
Maximum front aperture	mm	440			
Working aperture	mm	200			
Weight	Kg	155	175	205	240
Shipping Dimensions (W x H x D)	mm	1110x1750x900	1470x1750x900	2060x1750x900	2060x1750x900
Shipping Weight	Kg	220	255		340
Noise level	dB (A)	<53	<54	<55	<56
Lighting level	Lux	>1000			
Inflow	m/s	0.50			
Downflow	m/s	0.36			
Main voltage	V	230V AC 2P+T			
Frequency	Hz	50			
Power consumption	W	281	390	587	691
Current	A	5,7	6	7	7,5
Fluorescent lamps	W	2x30	2x36	2x58	2x58
Protection level		IP20			
Internal outlet (maximum current for all the sockets: 4A)		2P+T 230V 4A			



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