

ENVAIR

Laboratory Equipment



MICROBIOLOGICAL SAFETY CABINETS

ENVAIR ECO SAFE BASIC PLUS

CLASS II
MICROBIOLOGICAL SAFETY CABINET

CLEAN TECHNOLOGY FOR A CLEAN ENVIRONMENT

ENVAIR ECO SAFE BASIC PLUS - THE CLEAN GENERATION

Envair eco safe Basic Plus Microbiological Safety Cabinets belong to the latest generation of laminar airflow systems. The high quality choice of materials and construction guarantees conformity to the strictest safety standards.

Envair eco safe Basic Plus cabinets are class 2, designed and built to performance requirements of BS EN-12469:2000, with 70% of the air re-circulated via the main downflow class H14 HEPA filter and the remaining 30% discharged through the exhaust Class H14 HEPA filter.



- A** Multifunctional control panel
- B** Motorised sliding front window
- C** Cabinet includes 1 or 2 electrical sockets depending on size
- D** Powder-coated rear wall
- E** Safety glass side windows with 3 service fixture cut outs, $\varnothing$ 23mm
- F** Multi-piece stainless steel work surface

TECHNOLOGY OF TODAY FOR THE WORLD OF TOMORROW

AN EFFICIENT DESIGN

- Certified 'low pressure-drop' HEPA filters providing up to 30% saving on power consumption
- Electronically controlled fan with automatic pressure-drop compensation
- 99% recyclable components
- Innovative technologies such as the new ECS® microprocessor

HARDWARE

- ALESTA® Anti-microbial coating
- Low noise level
- Stainless steel AISI 304L
- True laminar flow



Airflow

ECO CONTROLLING SYSTEM (ECS)

The new ECS® microprocessor employs the latest innovative methods of integrated management of all the principal functions of ventilation and filtration - self-regulating all the main filtration and ventilation system components - compensating for declining pressure drops and restoring power balance. Combining the use of AC fan and certified low pressure-drop filters, the new ECS® controlling system optimize power consumption, reducing CO2 emissions into the environment.

SOFTWARE

- Instant management and monitoring of operational parameters and automatic compensation system control by the new ECS® microprocessor
- Software features easily programmable replacement regime of spare parts and filters
- Countdown-Timer integrated within the control board
- Permanent record of all alarms and anomalies memorized by the control-board for the entire life-cycle of the cabinet
- One touch restore menu, to reset the original factory calibration data



Electrical outlet



Side window with 3 service fixture cut outs, $\varnothing$ 23mm

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TECHNICAL SPECIFICATIONS

Envair Eco Safe Basic Plus			
Unit type:	0.9m	1.2m	1.8m
Overall dimensions WxHxD ^[1]	1045x1500x860mm	1350x1500x860mm	1960x1500x860mm
Useful dimensions WxHxD	887x740x580mm	1192x740x580mm	1802x740x580mm
Working aperture	200mm		
Max front aperture	440mm, 740mm ^[4]		
Net weight	155kg	175kg	240kg
Exhaust flow rate	290m ³ /h	390m ³ /h	585m ³ /h
Noise level ^[2]	<53dB(A)	<54dB(A)	<56dB(A)
Lighting level	>1100 lux	>1200 lux	>1300 lux
Electrical data	1Ph+E 230V 50Hz		
Power consumption	175W	240W	360W
Current consumption ^{[2], [3]}	1.9A	2.1A	3.6A
Electrical class / IP	1 / 20		
Internal electrical outlet	4A		
Heat emission	240W	295W	360W

1. The total depth of the cabinet can be easily reduced to 780mm by removing the back panel

2. At operational conditions according to EN12469:200

3. Clean filters, lighting activated, internal outlet load excluded

4. Hinged front window allows access to full useful height of 740mm

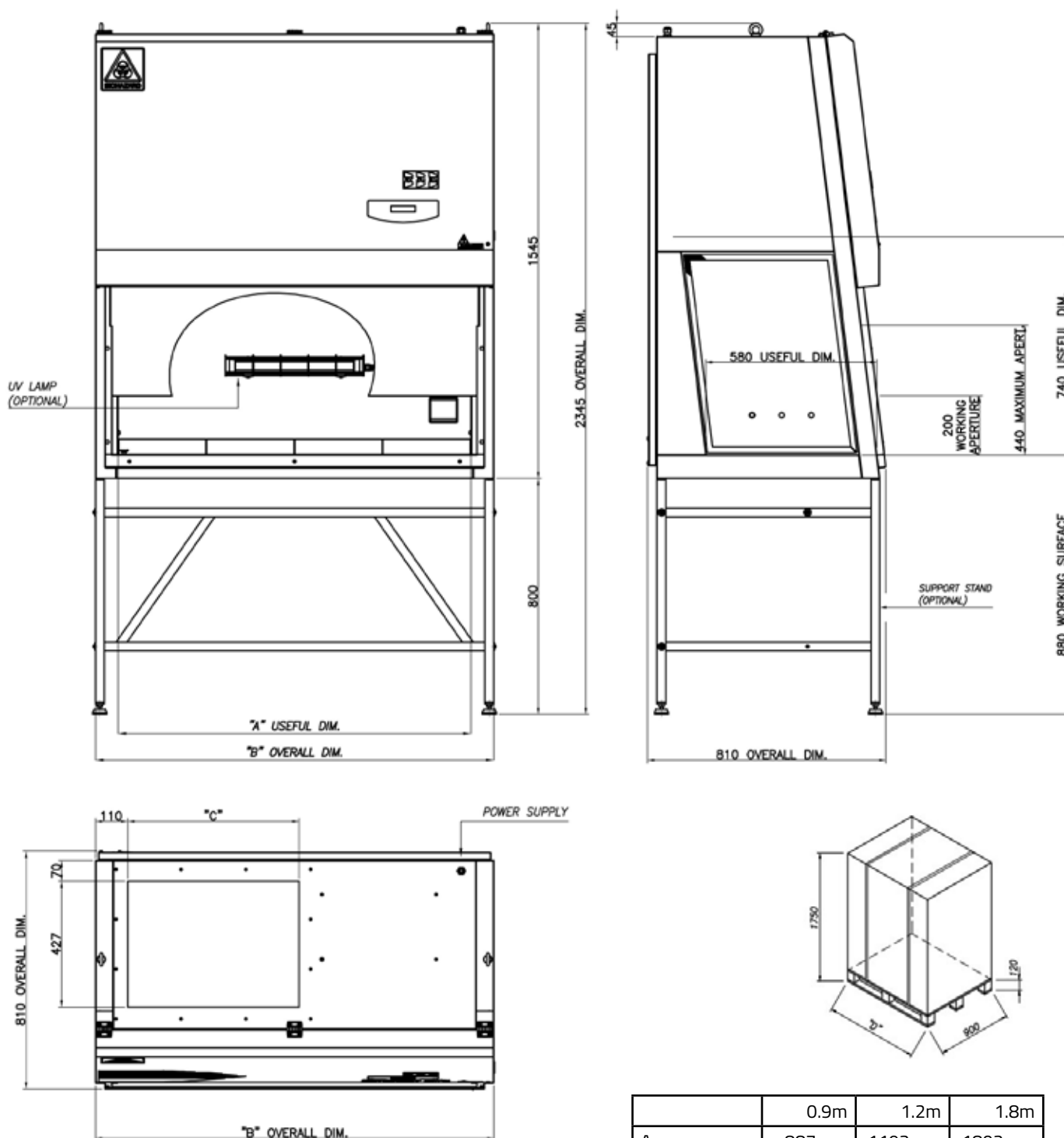
OPTIONS AND ACCESSORIES

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Single piece work surface UV light Additional taps for gas, vacuum, nitrogen Additional electrical outlet | <ul style="list-style-type: none"> IV bar Anti blow back valve Direct duct exhaust connection kit Support stand 800mm | <ul style="list-style-type: none"> Electric adjustable support stand (800-1100mm) Support stand with lockable castors |
|--|---|---|

MICROBIOLOGICAL SAFETY CABINETS

ENVAIR ECO SAFE BASIC PLUS

MODEL DIMENSIONS



	0.9m	1.2m	1.8m
A	887mm	1192mm	1802mm
B	1045mm	1350mm	1960mm
C	427mm	560mm	885mm
D	1110mm	1470mm	2060mm
Gross weight	180kg	205kg	280kg

OUR TECHNOLOGY PROTECTS HUMAN AND ENVIRONMENT

USER-FRIENDLY CONTROL PANEL

ECS® is a Microprocessor based monitoring system that provides a full status report provided via 2-line digital display. All functions and safety alarm systems are controlled ensuring that performance characteristics are maintained to the EN12469:2000 standard. A battery backup system stores safety data to the ECS system in the event of a power outage. The user-friendly control panel and the LCD display will continuously display the necessary data, keeping the user constantly informed of the cabinet conditions in operations and in particular:

- Display of laminar airflow velocity and inflow velocity
- Display of internal and external temperatures
- Display of residual lifetime of HEPA filters, UV Lamp (if fitted)
- Display of total operational usage hours
- Display of saturation level of HEPA filters



AUDIO VISUAL ALARMS PROVIDED FOR

- Incorrect airflow velocities
- Incorrect position of front window
- Saturation of HEPA filters
- End of life cycle of UV lamp (if fitted)
- Blockage in the exhaust duct
- Fan malfunction
- Power failure

CERTIFICATION

- ISO 9001 certified
- Tüv Rheinland Certified
- BS EN 12469:2000

OPERATIONAL PRINCIPLES

Operational and user protection is maintained, whilst the service safety requirement is maintained due to the H14 HEPA filters below the work surface.

MAIN FEATURES

- Motorised sliding front window
- 1 electrical socket for 3ft and 4ft cabinets
- 2 electrical sockets for 6ft cabinets
- 3 cut outs for service fixtures, ø 23mm
- Overnight operation mode for reduced energy consumption

TAYLOR-MADE CABINETS

*"We can manufacture special cabinets to meet your requirements.
Please get in touch for details."*

APPLICATIONS

Envair eco safe Comfort microbiological safety cabinets have been adopted worldwide in use for product, personnel and environmental protection while handling harmful agents pathogenic to human beings and/or animals as defined in the appropriate International Standards, in a wide range of disciplines in applications such as:

Microbiology, Virology, Haematology, Cell culture, Genetics, Handling of hazardous agents to human beings or animals.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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