

Боксы микробиологической безопасности Вio 3+

Технические характеристики

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Bio 3+

CLASS III MICROBIOLOGICAL SAFETY CABINET



Clean Air & Containment

Protection against pathogens up to ACDP Hazard Group 4

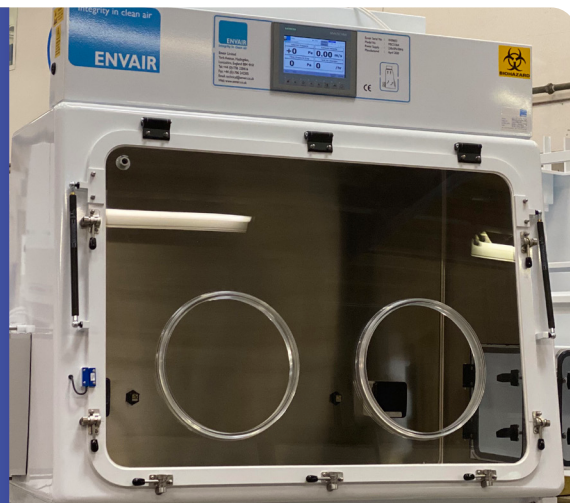
Class III microbiological safety cabinets feature a fully enclosed working area where the operator is separated from the work by a physical barrier – gloves are mechanically attached to the cabinet. Filtered air is continuously applied to the cabinet and the exhaust air is treated to prevent release of micro-organisms.

Envair Technology's Bio 3+ range of compact, highly specified, high performance cabinets are designed to provide total operator protection when handling biological agents up to ACDP Hazard Group 4 or animals inoculated with such agents (subject to proper installation, operation and maintenance.)

Supplying internal air cleanliness to ISO 5 and EC GMP Grade A (non-unidirectional airflow), the cabinets are easy to clean inside and out. They are available in a wide range of sizes, configurations and fumigation options to provide a solution for every laboratory and application.

The Bio 3/1+ model also allows for easy conversion between Class III mode (for biological agents up to Hazard Group 4) and Class I mode (for biological agents up to Hazard Group 3) where either application might be required.

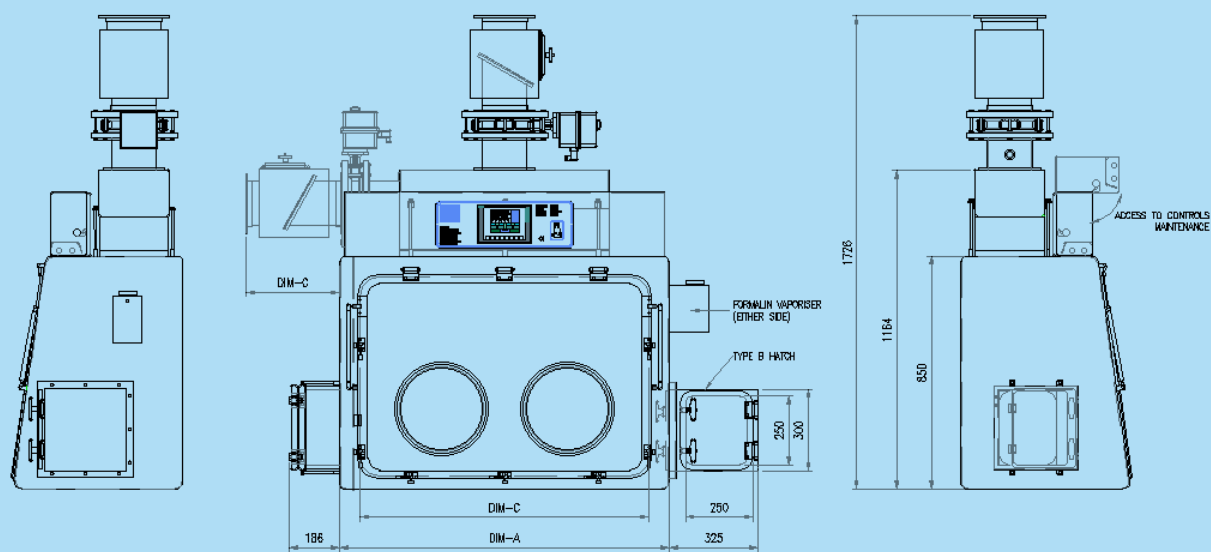
Bio 3+ Class III Microbiological Safety Cabinet for protection against biological agents up to Hazard Group 4



KEY FEATURES

- Clean and attractive compact design in stainless steel construction, white polyester coated with polished stainless-steel finish in the work base
- Smooth internal and external surfaces and radiused internal corners for easy cleaning
- PLC controls for easy set up, operation and maintenance
- Gauntlet/glove ports with sealing covers
- Toughened glass hinged visor with gas struts
- Type B pass through hatch
- Prefilter for extended HEPA filter life
- Integral HEPA filtration
- Anti-blowback damper for connection to client's dedicated exhaust system (ducting and remote fan)
- Fully alarmed and safety interlocked
- Built in BMS (Building Management System) signal outputs
- Auto-damper output signal
- Variable speed controlled fan for maximum filter life and optimum performance

Model dimensions



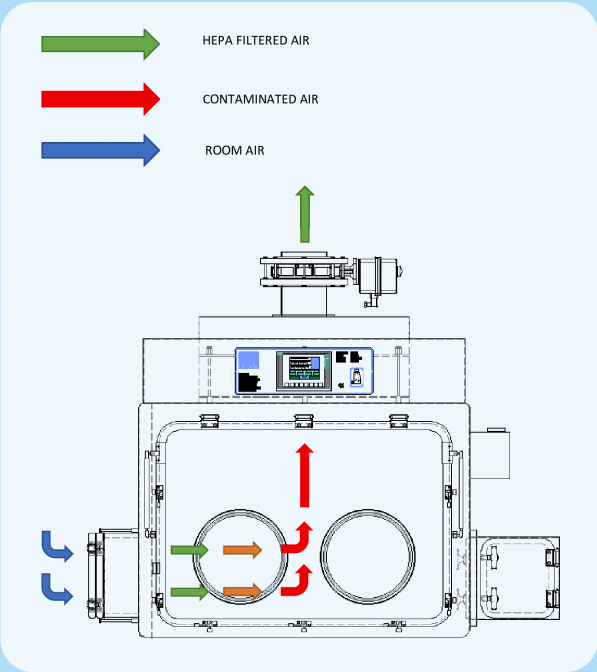
MODEL	A (mm)	B (mm)	C (mm)	Wt (kg)	Max Power Consumption (Watts)	Exhaust m3/s
1.0m	980	830	350	136	1800	0.10
1.2m	1200	1050	250	172	1800	0.12
1.5m	1500	1350	250	238	1800	0.15
1.8m	1800	1650	250	288	1900	0.18

Model designations - 3+D

The Bio 3+D is a standard Class III microbiological safety cabinet which is designed to exhaust HEPA filtered air to atmosphere via a dedicated duct and remote extract fan. The workspace is totally enclosed and access to the work space is by the use of gloves or gauntlets set into the visor.

Model designations - 3/1+D

The Bio 3/1+D is a 'hybrid' cabinet that is designed to operate in Class III mode as above or in Class I mode. In Class III mode, access to the workspace is via gloves or gauntlets set into a removable closure panel. The conversion to Class I mode is easily accomplished by removing the closure panel and fixing blanking plate(s) over the inlet HEPA filter(s).
Note: Commissioning and routine testing for the Bio 3/1+ must always be in both modes.



Bio 3+

CLASS III MICROBIOLOGICAL SAFETY CABINET



ENVAIR
TECHNOLOGY

Clean Air & Containment

STANDARD SPECIFICATION	3 + D	3 / 1 + D
Single exhaust HEPA H14 (BS EN 1822)	✓	✓
Single inlet HEPA filter (BS EN 1822) 1.0 and 1.2m	✓	✓
Two single inlet HEPA filters to H14 (BS EN 1822) 1.5m and 1.8m	✓	✓
Blanking plate (s) for inlet HEPA filters for operation in Class I mode (Bio3/1+D) and for fumigation	✓	✓
Anti-blow back damper box, horizontal (LHS or RHS) or vertical discharge (please specify with order)	✓	✓
Hinged acrylic visor, with shoulder rings for glove-sleeve systems or gauntlets and with gas strut supports for opening	✓	
Lightweight 100% sealable closure panel with shoulder rings suitable for glove sleeve systems or gauntlets	✓	
Closure panel interlocked with formalin / UV light for safety		✓
Full colour touch screen HMI on hinged lockable control access lid	✓	✓
Solid state fan speed controller, selectable automatic fan speed control	✓	✓
Latched audible / visible alarms for low and high airflow and for visor open, alarm mute and alarm test	✓	✓
Digital airflow monitoring, filter soil pressure indicator, hours run counter	✓	✓
Switchable auxiliary circuits for gas, UV and formalin vaporiser options, plus 3 spare switches	✓	✓
Internal fluorescent lighting behind sealed acrylic panel	✓	✓
Electrical supply: 230v / 50Hz / 1Ph	✓	✓
OPTIONAL EXTRAS		
Support frame with adjustable levelling feet	✓	✓
316L stainless steel polished internally and externally	✓	✓
UV light	✓	✓
13 amp single splashproof socket (2 fitted LHS & RHS as standard on RS models)	✓	✓
Service taps (ie vacuum, nitrogen, compressed air)	✓	✓

STANDARDS COMPLIANCE

- BS EN 12469: 2000
- ALL HEPA FILTERS H14 TO BS EN 1822-1: 1998
- ELECTRICAL WIRING DESIGNED TO IEC 61010-1: 2001
- INSTALLATION TO BS 5726: 2005 IS RECOMMENDED
- AIR QUALITY TO ISO CLASS 5 (BS EN ISO 14644-1: 1999)
- EC GMP GRADE A FOR A HIGH LEVEL OF PRODUCT PROTECTION

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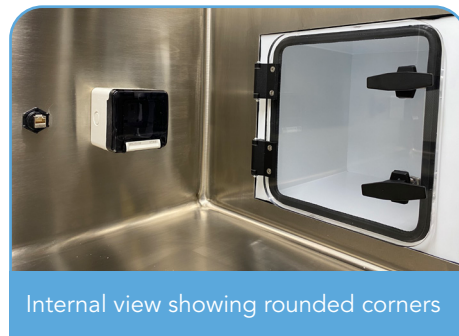
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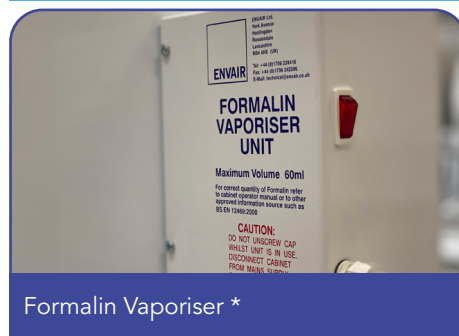
Bio 3/1+ capable of conversion between Class III mode and Class I mode



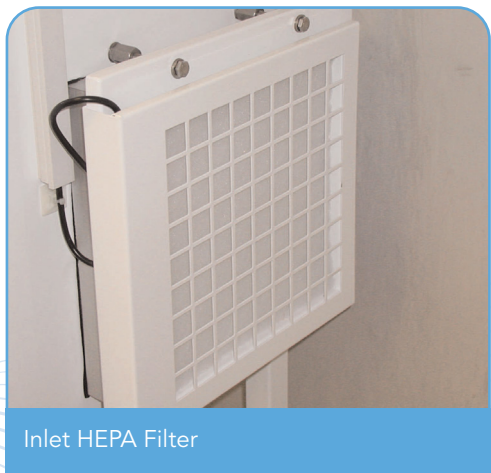
Rear view



Internal view showing rounded corners



Formalin Vaporiser *



Inlet HEPA Filter



Inlet HEPA blanking plate



Proximity switch for inlet HEPA blanking plate safety interlock

QUALITY STATEMENT

Envair Technology provides world class design and manufacturing expertise for a full portfolio of clean room and containment solutions. We work with healthcare, pharmaceutical and laboratory facilities around the world, to protect the safety of teams handling hazardous compounds and maintain product integrity. Our engineers and production team are committed to the highest standards of excellence, meeting the requirements of ISO 9001:2015. We provide a comprehensive maintenance, testing and parts service for all our products, to ensure a lifetime of trouble-free use.



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