

Боксы микробиологической безопасности Bio 1+

Технические характеристики

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Bio 1+

CLASS I MICROBIOLOGICAL SAFETY CABINET



Clean Air & Containment

Work safely with biological agents up to ACDP Hazard Group 3



Bio 1+ Class I microbiological safety cabinets for assured operator protection

Class I microbiological safety cabinets feature a front aperture through which the operator can carry out manipulations inside the cabinet and which is constructed so the worker is protected.

The escape of airborne particulate contamination generated within the cabinet is controlled by means of an inward airflow through the working front aperture and filtration of the exhaust air.

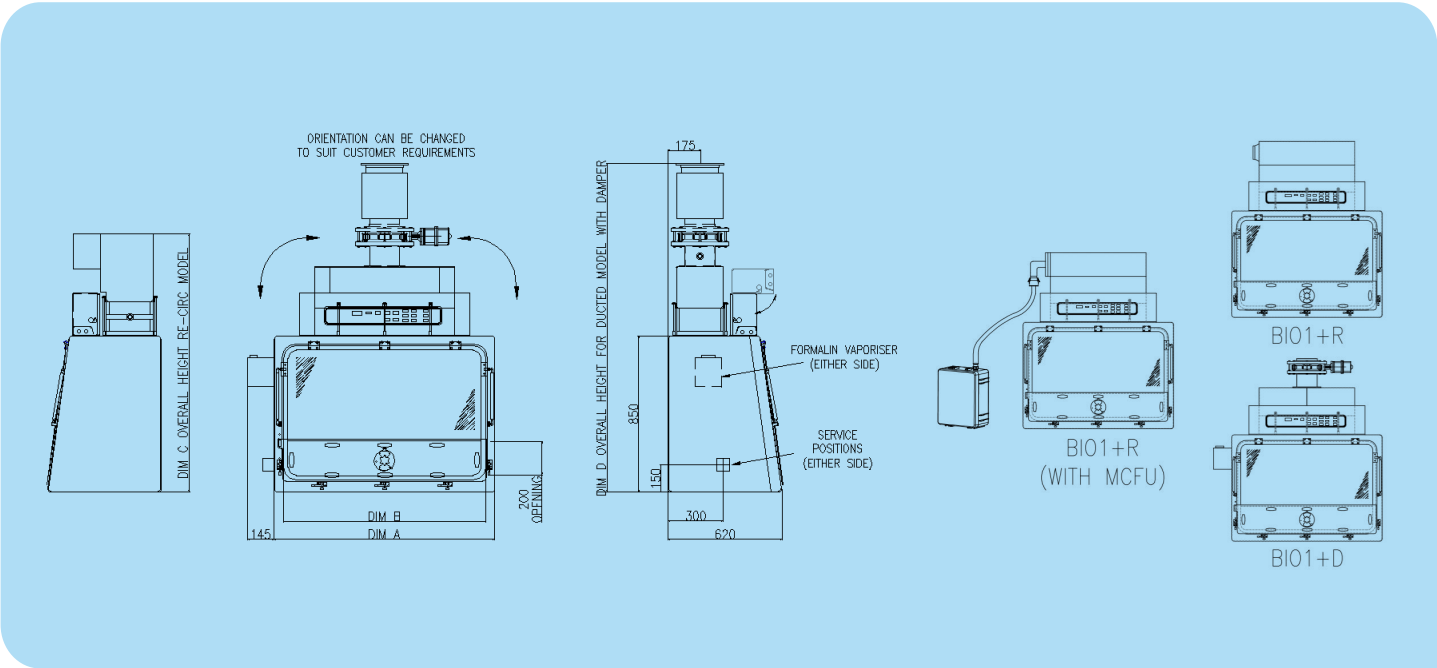
Envair Technology's Bio1+ range of compact, highly specified, high performance cabinets are ideal for laboratories working with pathogens up to ACDP Hazard Group 3, including Covid-19 samples (with proper siting).

- Recirculating or ducted exhaust design available
- Unique recirculating Formonia fumigation system available
- Fully compliant with BS EN 12469: 2000
- Wide range of sizes, configurations and fumigation options available
- Easy to clean and maintain
- Simple to install in temporary locations

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
- Very high levels of retention efficiency (operator protection)
- Integral double HEPA filtration on recirculating models, with filters to H-14 (BS: EN: 1822)
- Replaceable pre-filter for extended HEPA filter life
- Exhaust fan box with integral fans
- Hinged toughened glass front visor, supported open by gas struts
- Self-sealing light-weight night door/closure panel with interlock feature for safe fumigation
- Comprehensively alarmed and interlocked for safety
- Easy to clean membrane control panel with comprehensive alarms and indicators
- Automatic speed-controlled fan for maximum filter life and optimum performance
- Fast and easy set-up and maintenance with all access from front of cabinet
- Built in BMS (Building Management System) and auto-damper signal outputs

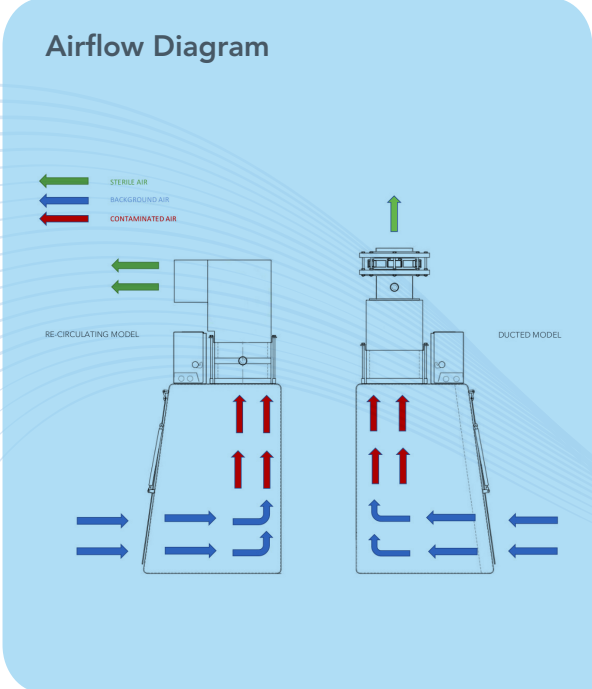
DIMENSIONS



BIO 1 +	A (mm)	B (mm)	C (mm)	D (mm)	Weight		Max Power Consumption		Exhaust rate m³/s
					R (kg)	D (kg)	R (w)	D (w)	
1.0m	900	830	1406	1790	125	136	650	1800	0.174
1.2m	1200	1050	1406	1790	160	172	650	1800	0.2
1.5m	1500	1350	1406	1790	220	238	980	1800	0.26
1.8m	1800	1650	1406	1790	270	288	1000	1900	0.31

Filter quantity: Recirculating - 1, ducted - 2. * Except DRS and RRS models. Drawing and dimensions of these models available on request

MODEL DESIGNATIONS	
D	The Bio 1+ D is designed to exhaust HEPA filtered air to atmosphere via a dedicated ducting system and remote mounted extract fan.
DRS	The Bio 1+ DRS is similar to the Bio 1+ D but is generously sized and has additional features in order to accommodate Robotic Samplers and other equipment that might require aperture protection (operator protection).
R	The Bio 1+ R is designed to exhaust HEPA filtered air back to the laboratory via a dual in line HEPA filter and an integral exhaust fan.
RRS	The Bio 1+ RRS is similar to the Bio 1+ R but is generously sized and has additional features in order to accommodate Robotic Samplers and other equipment that might require aperture protection (operator protection).
RD	The Bio 1+ RD is designed to exhaust HEPA filtered air into a thimble extract system (provided by the client) via a dual in line HEPA filter, an integral exhaust fan and a special exhaust spigot. A thimble extract system takes the exhaust of a microbiological safety cabinet into a specially designed room extract in such a way that the volume of air taken out of the room remains the same whether the cabinet is working or not.



CLASS I MICROBIOLOGICAL SAFETY CABINET

STANDARD SPECIFICATION	D	DRS	R	RRS	RD
Single exhaust HEPA filter to H14 (BS EN 1822)	✓	✓			
Dual in line exhaust HEPA filter to H14 (BS EN 1822)			✓	✓	✓
Anti-blow back damper box, horizontal (LHS or RHS) or vertical discharge (please specify with order)	✓	✓			
Integral exhaust fan box			✓	✓	
Integral exhaust fan box and thimble spigot					✓
Hinged toughened glass visor, with gas strut supports for opening	✓	✓	✓	✓	✓
Light weight 100% sealable night door (closure panel)	✓		✓		✓
Night door interlocked with formalin/UV light for safety	✓		✓		✓
Light weight night door (closure panel) suitable for sealing with tape		✓		✓	
Easy to clean touch control membrane on hinged lockable control access panel	✓	✓	✓	✓	✓
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 inflow air monitoring, filter soil 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	✓	✓	✓	✓	✓
Robotic sampler transfer chassis on roller and rail		✓		✓	
Guide rails for loading and removal of robotic sampler		✓		✓	
1 No. RS 232 computer data point (LHS)		✓		✓	
Electrical supply: 230v/50Hz/1Ph	✓	✓	✓	✓	✓
Support frame with adjustable levelling feet		✓			
Support frame with lockable castors				✓	
OPTIONAL EXTRAS					
Support frame with adjustable levelling feet	✓				✓
Support frame with lockable castors			✓		
316L stainless steel polished internally and externally	✓	✓	✓	✓	✓
UV light	✓	✓	✓	✓	✓
Solenoid controlled fail-safe gas valve	✓	✓	✓	✓	✓
13amp single splashproof (2 fitted LHS & RHS as standard on RS models)	✓	✓	✓	✓	✓
Service taps (ie vacuum, nitrogen, compressed air)	✓	✓	✓	✓	✓
FUMIGATION OPTIONS					
Integral formalin vaporiser with auto timer*	✓				
Integral formalin vaporiser with auto timer and exhaust sealing valve†			✓		✓
Auto-purge to allow fully automatic fumigation cycle*†	✓		✓		✓
5m fumigant extract flexible duct including connection†			✓		
Mobile carbon filter unit			✓	✓	
H2O2 vapour phase bio decontamination system including connections and sealing valves	✓	✓	✓	✓	✓

* Standard on the DRS model † Standard on the RRS model

NB. When a formalin vaporiser is fitted to a recirculating (R or RRS) cabinet, it must be used either in conjunction with the 5m fumigant extract flexible duct including connection (if there is a window or fume cupboard nearby through which it can exhaust) or with the mobile carbon filter unit.

Bio 1+

CLASS I MICROBIOLOGICAL SAFETY CABINET



Clean Air & Containment



Class I microbiological safety cabinet model Bio 1+ R (recirculating)



Easy to clean membrane control panel with comprehensive alarms and indicators



Hinged toughened glass front visor, supported open by gas struts

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

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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