

CLASS II Biosafety Cabinet Type B2

(For Product, Personnel and Environment Protection)



Aeromech make Class II Type B2 Biosafety Cabinet ensures environment, product, and personal protection during lab procedures where the circulation of filtered air is restricted due to the existence of possible chemical fumes that are released during the process. Since the filter does not catch these chemical fumes, it can be of potential danger to the operator if they are re-circulated in the workspace. Therefore, Class II Type B2 Biosafety Cabinets are ducted to a blower that is located on the outside of the cabinet, for total exhaust.

Application of the Class II Type B2 Biosafety Cabinet

Designed to work with pathogens of risk group 1, 2, and 3, these BSC's provide optimal protection for the operator, product, and environment. Meeting the safety requirements of working with toxic materials, these cabinets ensure that all the inflow and down flow air is exhausted after being filtered by the HEPA/ULPA, without being recirculated over the workspace.

Minimizing the risk of cross and external contamination, the Class II Microbiological Safety Cabinet protects the operator and the environment from the potential airborne diseases that can result from working with highly risky microorganisms.

If the Class 2 Type B2 Cabinet is connected to the individual active exhaust system, then it can be used for procedures involving the use of toxic chemicals and radionuclides in exceptionally low quantities. It is specially designed to gear up the work in medical, pharmaceutical, and other related institutes which use pathogenic organisms for lab procedures.

Features of a Aeromech make Class II Type B2 Biosafety Cabinet:

- 100% fully vented outdoor (HEPA filtered), great for handling of COVID-19, HIV, chemotherapy specimen, radioactive, toxic samples, irritating gases, and volatile chemicals
- No air recirculation in the Biosafety Cabinet
- Ergonomic 10 deg slanted toughed Glass front sash
- Removable worktable for easy cleaning and decontamination
- Air flow imbalance, an audible-visible alarm system is installed to avoid any disruptions and unnecessary incidents
- Front service access panel for comfortable maintenance
- Front sash can be closed fully to avoid to keep the interior clean during non-use period as well as to prevent UV exposure during sterilisation process
- Interlocking Between Supply and exhaust blower as well as front Sash and UV Lamp



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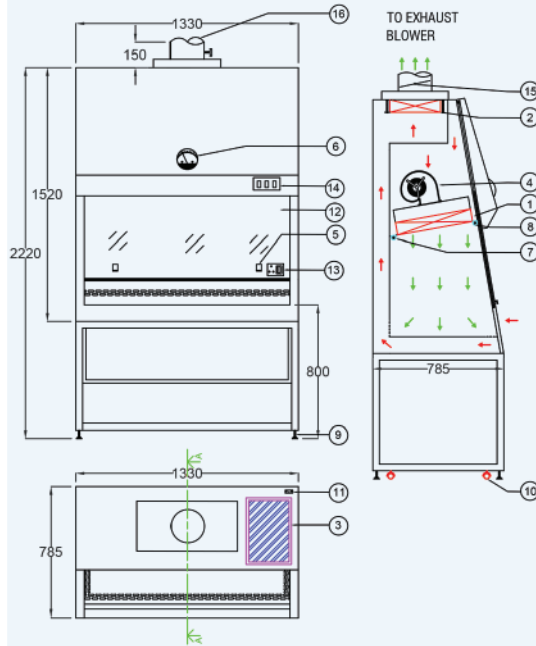
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Exhaust Requirement:

Before deciding on a location, examine it carefully to ensure that it is compatible with the cabinet's exhaust duct. The area directly above the cabinet's exhaust port should be clear of structural elements, water and utility lines, or other fixed obstructions. There should be enough clearance to allow for the passage of a 10" PVC or stainless steel duct. Avoid cabinet locations that require either an elbow directly on top of the cabinet's exhaust connection or an excessive number of elbows to clear other items.

The cabinet exhaust stack is sized to accept 8-inch (200 mm) PVC or stainless steel ductwork. The exhaust system's blower should be sized to handle the exhaust volume of each cabinet. The exhaust system must maintain a static pressure equal to or greater than the system pressure, plus 1.5 inches (38 mm) of water for the Aeromech B2 cabinet.



BILL OF MATERIAL		
SNO	DESCRIPTION	QTY
1	SUPPLY HEPA FILTER 1220 x 457 x 75	1
2	EXHAUST HEPA FILTER 610 x 305 x 75	1
3	PRE FILTER : 305 x 305 x 25	1
4	BLOWER	2
5	DOOR HANDLE	2
6	MAGNEHELIC GAUGE : 0-25	1
7	LIGHT	1
8	UV LAMP	1
9	LEVELING LEG	4
10	CASTOR WHEEL	4
11	MALE/FEMALE CONNECTOR	1
12	POLYCARBONATE FRONT DOOR	1
13	5/15 AMPS POWER SOCKET	1
14	ON/OFF SWITCH FOR BLOWER AND LIGHTS	-
15	DAMPER	1
16	8" ROUND COLLAR FOR PVC DUCTING	1

NOTE :-
ALL DIMENSIONS ARE IN "mm"
UNLESS OTHERWISE SPECIFIED

UNIT SIZE	
OVERALL SIZE	1330 x 785 x 2200
INTERNAL SIZE	1230 x 670 x 700

Model No	ABS 900 B2G/ ABS 900 B2S	ABS 1200 B2G / ABS 1200 B2S	ABS 1800 B2G / ABS 1800
Dimensions Internal Size	900 x 600 x 600	1200 x 600 x 600	1200 x 600 x 600
WxDxH in mm Overall Size	1010 x 850 x 2050	1310 x 850 x 2050	1910 x 850 x 2050
Protection	Product & Personnel & Environment		
Application	Suitable for Biosafety Level 1, 2 & 3		
Air Balancing	100% Recirculation & 0 % Exhaust Air		
Inflow Velocity	Minimum Average Inflow 0.51 m/sec as per NSF 49 & EN 12469		
Exhaust Air Volume	300 CFM	600 CFM	900 CFM
Down Flow Velocity	Average Downflow 0.25 - 0.40 m/sec as per NSF 49 & EN 12469		
Cleanliness Level	ISO Class 5 as per ISO 14644-1 (Class 100 As per US FED STD 209E)		
Noise Level	Minimum 58dB on A scale ± 5		
Light Intensity	Minimum 750 Lux on the working table through LED Light fitting		
Differential Pressure	Magnehelic Gauge 0-25 mm		
Front Door	Anti UV 5mm Clear Polycarbonate Sheet with UV Lamp Interlocking		
Castor Wheel	Universal Castor Wheels with Brake & Levelling Leg		
Material of Construction	1.2mm GI Sheet with epoxy powder coated (or) IS 304 Grade Stainless steel with satin finish		
Inner Working Area	IS 304 Grade Stainless Steel with Perforation		
Working Table	IS 304 Grade Stainless Steel Sheet with satin finish		
Supply & Exhaust HEPA Filter	Mini Pleat HEPA Filters H14 Grade >99.999% efficiency down to 0.3 Micron		
Pre-Filter Efficiency	G6 Grade > 90% efficiency down to 5 microns		
Motor Blower	Centrifugal Motor Blower with statically and Dynamically Aluminium Impeller		
Ultraviolet Lamp	254 nm wavelength Philips make UV Lamp		
Standard Accessories	5 Amps Combined Socket Switch & Gas Cock,		
Power Supply	AC 220V±10%, 50 Hz		
G - Galvanized Iron Sheet & S - IS 304 Grade Stainless Steel			

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