Cabinet enclosure designed Class II Type A2 provides personnel, product and environment protection from hazardous particles such as bacteria, viruses, genetically manipulated materials and nucleic acids that require Biosafety Level 1, 2 or 3 containments. Various applications in medical, biomedical, biotechnology, pharmaceutical, cell culture, tissue culture, virology and pathology applications using pathogens, genetic materials, carcinogens, allergens may generates hazardous airborne particles.

Performance

- Biological Safety Level Class II Type A2 design provides a higher level of personnel, product and cross contamination protection by keep filtrate airborne particles from the air stream
- Inflow moves from the room air is drawn into the inlet grille at the work access opening and pass through a negative pressure plenum to blower creates HEPA filtered downward laminar air stream over the work area
- Approximately 70% of the HEPA-filtered air is re-circulated through the cabinet into the work zone, while 30% passes through an exhaust HEPA filter and is discharged into the laboratory room air
- Aluminum Frame Mini-pleated HEPA filters with nominal filtration efficiency of 99.99% for airborne particles larger than 0.3 um
- Optional ULPA filter had higher filtration efficiency of 99.999% for airborne particles larger than 0.12 um

ABS 1200 A2G

Construction

- Durable epoxy powder coated metallic casing.
- Removable Stainless Steel 304 working plate
- Tempered Safety Glass Sash Door

Convenience

- Ergonomic arm rest and 3 degree slanted front glass window
- Removable working plate for easy cleaning and decontamination
- Front service access panel for comfortable maintenance
- The front door can also be closed fully to keep the cabinet interior clean during non-use period as well as to prevent exposure to UV radiation during sterilization
- Epoxy powder coated SPCC exterior for durability
- Silent and vibration free blower fan motor for comfortable working environment
- LED lamp working light
- 253 nm Germicidal UV lamp on working zone
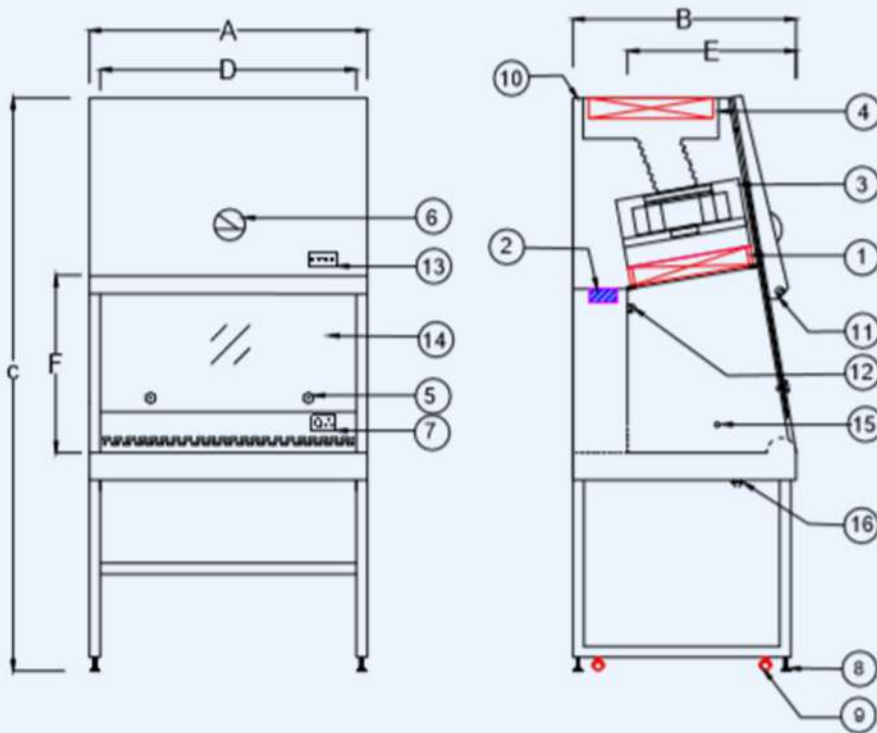- Supplied with Base Stand with caster

ABS 1200 A2S

ENGINEERING DETAILS

1) SUPPLY HEPA FILTER
2) PRE FILTER
3) BLOWER
4) EXHAUST HEPA FILTER
5) HANDLE
6) MAGNEHELIC GAUGE 0-25 MM
7) 5/15 AMPS POWER SOCKET
8) LEVELLING LEG
9) CASTOR WHEEL
10) MALE/FEMALE CONNECTOR
11) TUBE LIGHT
12) UV LIGHT
13) FEATHER TOUCH KEYBOARD
14) POLYCARBONATE DOOR
15) GAS INLET AND OUTLET PROVISION
16) DRAIN HOLE

Specification for Aeromech make Class II Biosafety Cabinet Type A2

Model		ABS 900 A2G / ABS 900 A2S	ABS 1200 A2G / ABS 1200 A2S	ABS 1800 A2G / ABS 1800 A2S
Dimensions	Internal Size	900 x 600 x 600	1200 x 600 x 600	1200 x 600 x 600
W x D x H 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		70% Recirculation & 30 % Exhaust Air		
Inflow Velocity		Minimum Average Inflow 0.51 m/sec as per NSF 49 & EN 12469		
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		
Differntial 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 Main Body		1.2mm thick Galvanised Iron 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		H 14 Grade >99.999% efficiency down to 0.3 Micron		
Pre-Filter Efficiency		G6 Grade > 90% efficiency down to 5 micron		
Motor Blower		Centrifugal Motor Blower with statically and Dynamically Aluminium Impeller		
Ultraviolet Lamp		254 nm wavelength Philips make UV Lamp		
Standard Accessories		5Amps Combined Socket Switch & Gas Cock,		
Power Supply		AC 220V±10%, 50 Hz		

G – Galvanized Iron Sheet & S – IS 304 Grade Stainless Steel