

BIOSAFETY CABINET

We design, manufacture and supply Class 2 Biosafety Cabinets Type A2 & Class 2 Biosafety Cabinets Type B2 for laboratory and research applications.

These **Type A2 Class II Biological Safety Cabinets** have an open front design provided with negative pressure generation module. Type A2 cabinets are typically used for biosafety levels 1 through 3 and are suitable for work with chemicals, as long as vapors are not hazardous and will not interfere with the work when recirculated. Cabinets protect from contamination of the works, experiment or process from outside contaminants.

The ergonomic internal design, the airflow aerodynamics, the built-in safety devices and the advanced level of construction, ensure the highest performances at the most stringent safety levels, as specified by International standards. These systems combine a multitude of design, construction and technological considerations to provide optimum operator, product and environmental protection. Stainless steel construction and simple design make it easy to clean after use. The powder coating finish prevents microbial / bacterial growth on the exterior and delivers a sleek and graceful appearance.

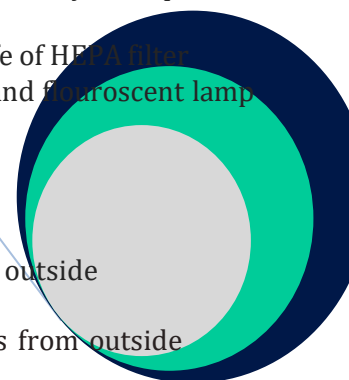


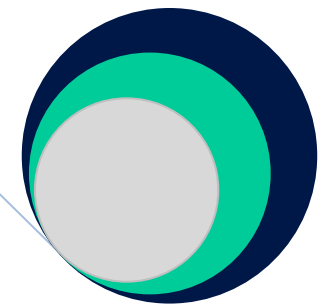
SALIENT FEATURES:

- A front access opening with carefully maintained inward air flow. An internal blower draws sufficient room air through the front grill to maintain a minimum calculated or measured average fpm at the face opening of the cabinet.
- The contaminated air is drawn by the blower through the plenum of the cabinet, where approximately 70% of the air is recirculated through the HEPA filter back to the work area 30% of the air is exhausted from a common plenum at top through a HEPA FILTER.
- Room air enters through a Brushless DC blower/motor passes through a pre filter and HEPA filter into the work area as the vertical unidirectional airflow
- HEPA-filtered exhaust air in Type A2 cabinet may be recirculated back into the room or exhausted to the outdoors through a canopy exhaust connection
- HEPA filters having efficiency rating as high as 99.99% thus retaining all air-borne particles of size 0.3 micron and larger
- Negative pressure surrounds the work area and maintains inward air flow in chamber.
- Aerodynamics air flow grills maintains safety and prevents blockage.
- High efficiency pre filter use increases life of HEPA filter
- Unit has UV germicidal light for sterilization and fluorescent lamp

for illumination.

- Max safe door opening height of 8" (Access port – Work aperture)
- Noise level is less than 62 dB \pm 3dB
- Personnel protection from harmful agents used inside the biosafety cabinet.
- Product protection to avoid contamination of the works, experiment or process from outside contaminants.
- Environmental protection from contamination of the works, experiment or process from outside contaminants.





- Machine qualifies Particle Count Test, Filter Integrity Test, Velocity Test, DOP/POA Test, Flow Pattern Test, LUX Intensity Test and UV Light Watt Test
- Machine is fitted with lockable castor wheels for ease of movement and fixed with rubber levelling pad.

SPECIFICATIONS:

Model	SRBM-BSC-A2-2	SRBM-BSC-A2-3	SRBM-BSC-A2-4	SRBM-BSC-A2-5	SRBM-BSC-A2-6
Main Filter	HEPA Filter (99.99% efficient at 0.3 micron particulate for air quality ISO 5 Class 100)				
Pre-filter	High-efficiency washable pre filter having efficiency 90% down to 5 micron				
Illumination	LED light of 5/10/15/20 W (greater than 1200 LUX as per standard guidelines)				
Sterilizing	UV Germicidal Tube of 254 nm wavelength				
Front Door	Sliding type safety door made of plexi glass (Polycarbonate Door Optional)				
Utility	Gas/Air cock and Multipoint 15/5 Amp. electric socket				
Pressure Gauge	Inclined Manometer Gauge for monitoring main HEPA Filter pressure drop				
Input supply	AC 230V, 50 Hz				
MOC (Cabinet)	Cold Rolled Steel Powder Coated (Optional Stainless Steel SS-304)				
Work Table	Stainless Steel 304 grade (Optional Stainless Steel SS-316)				
Internal Work zone (WxDxH feet) Approx	2 x 2 x 2	3 x 2 x 2	4 x 2 x 2	5 x 2 x 2	6 x 2 x 2
External Size (WxDxH feet) Approx	2.4 x 2.8 x 6.9	3.4 x 2.8 x 6.9	4.4 x 2.8 x 6.9	5.4 x 2.8 x 6.9	6.4 x 2.8 x 6.9
No. of HEPA Filter	2	2	2	2	2

OPTIONAL:

- Analog Magnehelic Gauge (Dial Type) in lieu of manometer gauge
- Digital Magnehelic Gauge with electronic filter choke alarm
- Inclined manometer or magnehelic gauge to monitor pressure at exhaust HEPA filter
- Interlocking of UV germicidal tube will auto switch off UV light when the door is opened
- Microprocessor LCD controller with digital display for status indication of ON/OFF - Blower, ON/OFF - UV Lamp & ON/OFF - LED Lamp
- Blower failure status indication
- Door alarm when sash is opened above safe height of 8"
- ULPA filter having 99.97% efficient at 0.1 to 0.3 micron particulates for ISO class 4 work cleanliness condition
- Hour meter for totalizing UV light burning hours.
- UV light timer for automatic ON/OFF cycle of chamber sterilization
- Motorized door lifting arrangement at press of a button
- Flow velocity sensor with display for measuring air flow velocity
- Thimble duct for connecting pipe to exhaust air outside room.

