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ASE- 132a BIO SAFETY CABINET

Bio safety cabinet type A2 in which 70% air re- circulated and 30% of the air exhausted. The bio safety cabinet includes two DC motors. The motor automatically adjusts the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments. In order to preserve safety to the user and the environment, the exhaust blower on the cabinet contains operating when the supply blower stops working . When the exhaust blower failed, the supply filter also turned off. In order to ensure consistent and reliable down flow velocity across the supply HEPA filter over the life of the cabinet, the cabinet uses a pressure sensor(rather than an anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.

The pressure sensor been cased in order to protect the sensor from temperature, humidity and other environment alphenomena that can impact the sensor's performance.

The microprocessor displays the inflow and down flow air the velocities in real timeon an LED display to ensure the user knows whether or not the cabinet isworking under safe operating conditions.The front window 10" sash opening and be made off laminated safety glass to ensure containment off potentially hazardous samples in the case of accidental glass breakage. All interior and exterior parts painted or smooth to ensure no risk of cuts to usersor maintenance personnel.The front of the cabinet angled 10° to help minimize glare on the window to the user, and to ensure that the posture is comfortable during a working session. In adequate ergonomics in a safety cabinet may lead to excessive fatigue, un safe working habits and harmful consequences to user safety and product contamination.The cabinet noise level is less than 63 dBA)for a 4 foot cabinet as measured in a sound proof room 12 inches in front of a cabinet and 15 inches above the work surface, Lower noise level promotes more comfortable and safer working habits.

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The Bio safety Cabinet has a microprocessor controller and same located on a slanted front panel so it is easy to see and reach from a seated working position infront of the cabinet.The interior of the front window is accessible for cleaning without requiring the userremove or support the window.The biological safety cabinet capable of achieving current state of the art in energy efficiency.

A biological with lights on a fan at operating speed consume less than 200 watts for a nominal four foot width and have a reduced energy mode for non-operational maintenance on containment in the work area. The cabinet automatically reduces fan/ blower motor speed to 30 % when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.In order to provide maximum effectiveness, efficiency and safety to laboratory personnel, UV light is programmable to allow for specific exposure time from 0 to 24 hours.

The automatic shut off feature on the UV light saves money on replacement off the bulbs.The cabinet has provision to fit taps for vacuum, water and non combustible gas & Taps.

The Bio Safety cabinet NSF / EN 12469 certified with listing on the website can be seen on the website. The Bio safety cabinet incorporate HEPA filters of the class H 14 EN 1822/14652 having a minimum efficiency of 99.995% at 0.3 μm particular size.

Approximate dimensions Exterior 1500 H × 1300 W × 800 D
                                  Interior   800 H × 1200 W × 500 D

Ventilation Exhaust an inflow air volume approx 300 – 350 CFM. Heat emissions at 25°Capprox 0.2 KW or lesser. The cabinet provided a microprocessor controller and large LED display for inflowand downflow air velocity and hours of operational, audible and visual alarmsfor HEPA filter failure, blower failure, air flow speed failure, and incorrectwindow position.

The Bio Safety Cabinet incorporates an LED indicator to indicate filter loading and provide visual and audible alarm to indicate excessive HEPA filters loading which can result in unsafe airflow deviation from the NSF recommended inflowand down flow air velocity values measured in meters per second or foot perminute.

Thecabinet provided a fixed /adjustable height stand, UV light and one set off detachable arms rest and Two electrical out lets.The Drain pan of the BSC made off stainless steel 304 G. The Bio safety cabinet dual side wall with negatively pressurized interstitial space. Bio Safety cabinet with three side Stainless Steel wall or can be supply with single glass side walls.

Supplied with external ducting and virus burn out units.

System validated at the time of installation and every 6 months during guarantee and CAMC. Suitable UPS with half hour battery to the firm and maintained in guarantee of CAMC. NSF / EN12469 certified.

Manufactured By : SUDARSHAN CHEMICALS India 324007 0744-2362345, 09414188018

CE, ISO 9001:2015, WHO, FDA & ISO-13485 CERTIFIED
With first prize awarded at Haroti Udyog Mela year 2003