

## Special Features

- Large front panel display and user friendly control panel
- 10° slanted view screen provides highly visible and easily accessible area
- Work area is surrounded by negative pressure , double-wall plenums for superior protection
- Sturdy construction of cabinet protects from air leakage from the working zone
- Display of Life of UV lamp, HEPA filter and temperature
- Caster wheels for ease of mobility
- Levelling jack for vibration free operation



## Exhaust Duct

Through exhaust duct, class II A2 bio safety cabinet is compatible with exhaust system (optional), to exhaust contaminated air outside the cabinet or room.

Technical Specifications				
Working Area (mm)	900×600×600	1200×600×600	1500×600×600	1800×600×600
External Size with stand (mm)	1020×800×2260	1320×800×2260	1620×800×2260	1920×800×2260
Inflow Velocity (m/s)	0.53 ± 0.025			
Down flow velocity (m/s)	0.33 ± 0.025			
Control system	PLC / Manual			
Display	Colour HMI with touch screen / Differential pressure Gauge			
Air Flow system	70 % air recirculation and 30% exhaust			
Front sash door	Counter balanced Toughened glass			
Maximum opening (mm)	400			
Safe Opening (mm)	200			
Filter	HEPA filter 99.999 % efficient			
Particle Retention	0.3 microns			
Class	100			
U V lamp	1			
Base Height (mm)	635			
Noise level (dB)	≥ 65			
Exhaust Volume (m3/h)	936	1315	1645	1972
Downfolw Volume (m3/h)	626	835	1045	1253
Voltage	230 VAC			

Power	300	350	400	800
Packing Size (mm)	1147x930x1800	1447x930x1800	1747x930x1800	2050x930x1800
Net weight (kg)	200	225	250	275
Gross weight	250	275	300	325

**NB:** P Models are with Programmable logic control (PLC)  
G Models are made out of Stainless steel 304 (GMP)

### **Service and Support**

The training undertaken by our Channel partners and engineers is of the highest standard in the industry, ensuring that our customers are supported by the highest level of technical expertise and as such can be assured that their equipment will perform to the standards required at all times.

Our wide network of Engineers/Technicians enables us to respond to any technical query, ensuring that our customers receive the maximum benefit from their equipment.

## **Construction**

These cabinets are basically constructed with an outer body of Mild Steel duly powder coated. The inner work table is made of stainless steel. GMP models are in total stainless steel (Inside S. S 304 with mirror finish and outside. S 304 dull finish.) And the unit is mounted on caster wheels for ease of mobility.

## **Blower Motor Assembly**

Duly balanced, direct drive highly efficient centrifugal blower units sized to provide adequate air flow volume over the entire surface of HEPA filter. These are directly coupled to an inbuilt motor and operate with minimum noise level i.e. lower than 65 db on scale and Vibration less than 2.5 um.



Front window

Counter balanced Front window consists of frameless laminated UV resistance shattered proof glass door.

## Control and Display

A **programmable logic controller** (PLC) is a digital computer used for automation of controlling electromechanical processes, and it controls and indicates information of pressure, temperature, system status with audio visual alarm, control of illumination, UV lamp and Door open and close functions event management with less maintenance hence no moving parts.



- PLC with 4.3" touch screen and colour Display
- Password protected Human Machine Interface (HMI)
- Data storage to record set values, process values, date & time with variable time intervals
- Display of set value and process value
- High speed Ethernet connectivity
- Data logging capacity up to 1000 readings
- Log report for Alarm and other event management
- Programmable alarms with event management
- Self diagnostic system with error messages

Colour HMI with touch screen displays all the parameters including air velocity and timer. An inbuilt UV timer helps in the decontamination by switching ON the UV tube for a certain interval of time. A user friendly software and soft touch controls for blower, light, UV and power are easy to use.

## UV interlock system

Colour HMI with touch screen displays all the parameters including air velocity and timer. An inbuilt UV timer helps in the decontamination by switching ON the UV tube for a certain interval of time. A user friendly software and soft touch controls for blower, light, UV and power are easy to use.

## **Water proof socket**

2 water proof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet.

## **Extensible Valve**

2 supply valves are available for extensive function, compatible with liquid, gas and vacuum.