

## Bio Safety Cabinet

### Features :

1. Main body should be made in mild steel (Heavy gauge- 19 G)
2. Table top and working zone should be made of stainless steel (304 grade)- Heavy gauge- 20G
3. Table top should be in two parts:
  - a) Front perforated portion 5" in size
  - b) Non perforated working zone
4. Work Area should be approximately 2 X 2, 3 X 2, 4 X 2 with shutter opening of 489 mm
5. Air Flow should be vertical down flow with 70 % Circulation 30 % exhaust.
6. Cleanliness level should be less than 3.5 particles/ litre of 0.5 mm and larger .
7. Noise Level should be less than 65 db.
8. Vibration level: Less than 2.3 mm.
9. Average air flow should be  $90 \pm 20$  fpm (down flow).
10. Door fully automatic.

### Specification :

1. HEPA filters should be MINIPLATE with 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets and manufactured in class 1000 super clean air conditioned environment for longer life.
2. Air pressurization system should be statically and dynamically balanced, fitted with special vibration reducing system to suit low noise and vibrations.
3. UV lamp should be in working zone (40 micro watts/ square cm at 254 mm or better) and placed so that the operator cannot see directly i.e. eyes should be always protected.
4. Should have Rehabitable pre filters should have efficiency of more than 80%.
5. Should have Switches & Electrical sockets outlets for 15/5 amp.
6. Should have Pressure Monitors like Magnehelic gauge are required to indicate pressure drop across.
7. Exhaust blower should be capable for 100% exhaust interconnected with supply air blower; system should only start when the negative pressure is developed
8. Back holes should be there on vertical walls to provide more work area on table
9. Should have Switches & Electrical sockets outlets for 16 amp.
10. Suitable power supply 230 volt a/c



**Rombai**  
INSTRUMENTS