

## **Specifications for Modular Soft Clean Room**

Air filtration classification must meet International US Federal standards Class 1000
Internal Size 10' width x 12' depth x 7' height
Must contain 6 nos of fan Module with Blower & HEPA (99.99%) filter.
Air volume approx. around 6800-6900 m3/h
System has to be module clean room system of steel frame construction with antistatic vinyl curtains surrounding the work area.
Room air shall have to be taken for circulating through filters.
Non particulate shedding phenolic resign panel to be provided on ceiling grid.
Structure must be fully welded steel tubular section with finish of abrasion resistant oven-baked powder coat.
Structure needs to be free-standing and should not be suspended from ceiling support.
Structure must contain built-in light of 5000k with zero- flicker and instant start.
Structure must contain vinyl structure for easy passage of materials and personnel in and out of the clean area. Vinyl curtain must terminate above the floor.
Structure must be equipped with control panel for start up of fan filter unit and lighting.
Fan Filter Unit to have permanently lubricated, direct drive centrifugal blower with external rotor design and with HEPA/ULPA filters.
Additional disposable pre-filter must to trap large particles in the inflow air for protection against damage and long life of HEPA/ULPA filters.
Unit must have built-in solid-state variable speed controller

## **Technical specifications for Clean room Air shower Single Leaf Door**

- Internal Zone (W x D x H) app. 750-800 x 900- 950 x 1900 - 1950 mm
- Air Change per hour 350 - 400
- Air Velocity 20-22 m/s
- Air Shower Duration, must be adjustable
- Personnel Flow as a minimum 4 persons must be able to pass / min
- Main Filter must be HEPA filter having >99.99% at 0.3 µm
- Noise Level must not exceed 60 dBA
- Fluorescent Light must be equipped
- Construction must be from 1.5 mm electro- galvanized steel with oven baked epoxy powder coating
- Equipment must run on 220V, 50 Hz
- Filtration must comply european EN-1822 (H13) standards