

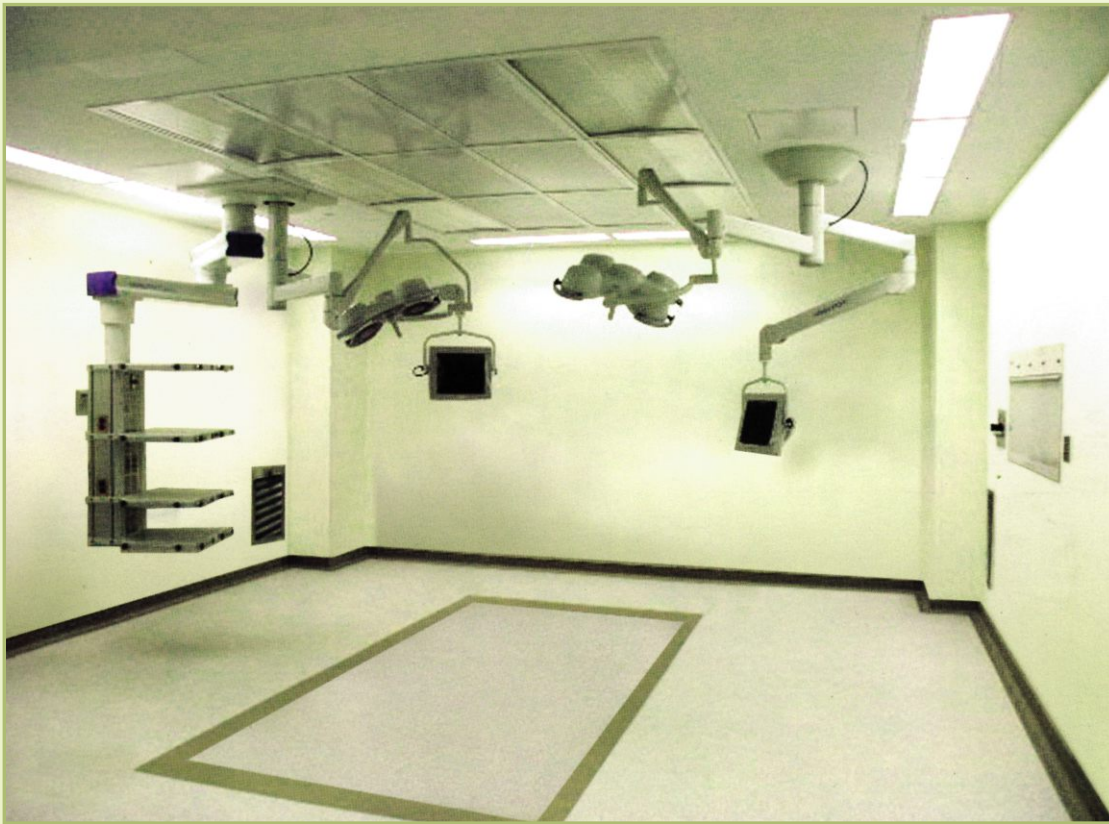


SKAN® Inc.
"THE HYGIENE OF INDIA"
Hygiene & Micro Bacteria Control Products



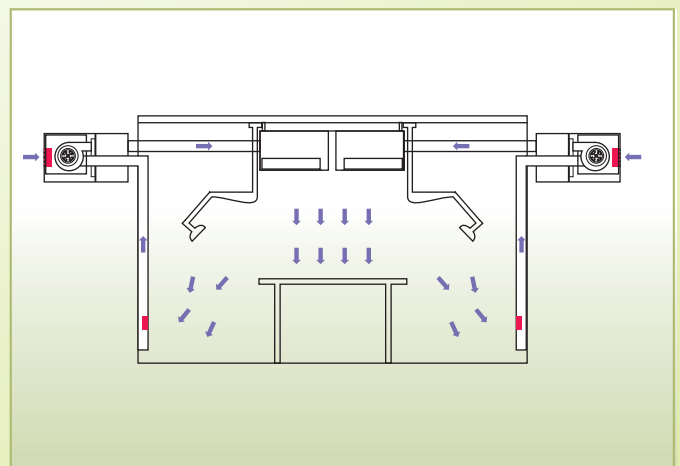
LAMINAR AIR FLOW

CUSTOMIZED SOLUTIONS FOR MODULAR OT & CLEAN ROOM



Skand Inc. is India's leading manufacturer of medical, hospital and pharmaceutical equipments, instruments and disposables. The company was incorporated at Mumbai (India) during the year 2000. The company's unique name is an amalgamation of Research, Development & Hygiene.

Skand Inc. proudly states that we are the awardees of **BHARTIYA UDYOG PRATIBHA AWARD** for *innovative method of fumigation*. We offer a one stop solution for a hospital set up right from **Modular O.T. with Laminar Air Flow (HEPA Filter)** to the most sophisticated operation theater equipments.



We are dedicated to provide products as per the requirements of the medical professional and the pharma industry. Our company is well known in the industry for product quality and prompt, efficient and timely after sales service.

Today **Skand Inc.** has a path breaking presence in Chemicals & Disinfectants for hygiene and micro-bacteria control for all sterile areas in the field of pharmaceuticals, hospitals, laboratories, chemicals and surgical instruments.

LAMINAR AIR FLOW – AHU (Air Handling Unit)

The AHU Unit will be set up in Horizontal or Vertical position outside the Operation Theater Complex Area.

The following inventories are assembled / connected in the AHU unit.

1. Pre Filter of 10 microns and 3 microns microvee filter (washable).
2. Ultra violet lamp as bactericidal.
3. Cooling coil (Air Conditioning as per the requirement).
4. Air Flow System (Blower / Motor / Impeller) as per the area of the Operation Theater.
5. Positive Pressure System - for suction of 15 to 20% fresh air.

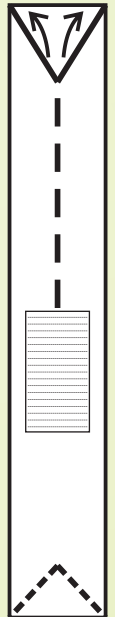


Working of AHU

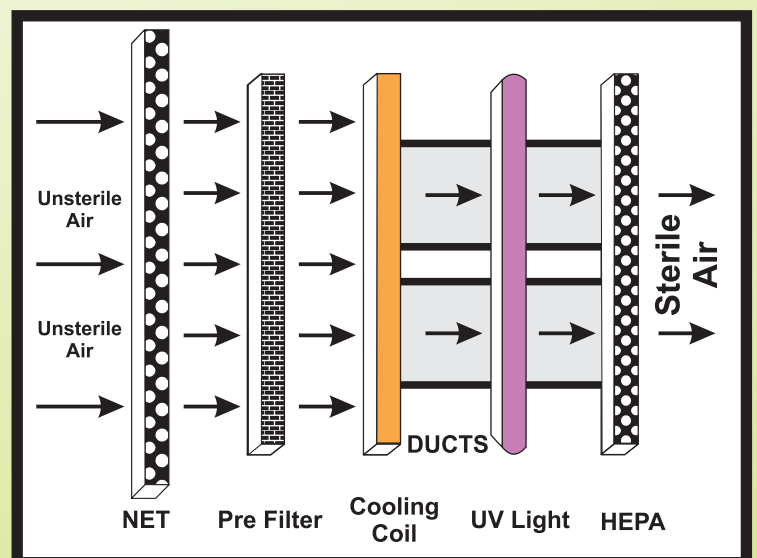
1. The system should be started a minimum of 30 mins. prior to surgery.
2. There is ducting for Air Flow to be constructed from AHU to the operation theater at ceiling level, for supply of air duct to be connected to the 0.3 micron terminal HEPA filter with outer grill protection for non-turbulent air flow on the operation table.
3. The unsterile area suction will be through return air risers fixed at the corners of the operation theater connected to AHU.

Ceiling Suspended LAMINAR AIR FLOW SYSTEM with AC

1. The Ceiling suspended plenum bolted on rods.
2. It has following inventory in-built in the HEPA plenum.
 - a. 10 micron filters.
 - b. Ultra violet light.
 - c. Cooling coils (Air condition assembled as per the requirement of OT).
 - d. 0.3 micron terminal HEPA filters with outer grill protection for non-turbulant air flow on the operation table .
3. False ceiling 600 mm X 600 mm Aluminium / GI sheets powder coated white colour or in stainless steel.
4. In view of false ceiling, Air Suction will be through return air risers from the corner of the operation theater. Picture as per the literature.



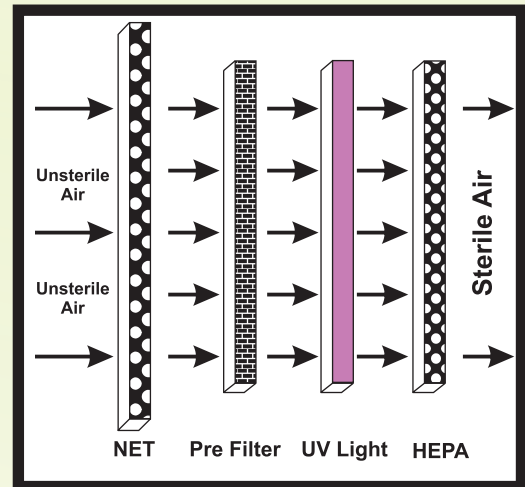
Ceiling Suspended LAMINAR AIR FLOW SYSTEM with AC (Adjacent Motor)



CEILING SUSPENDED WITHOUT AC



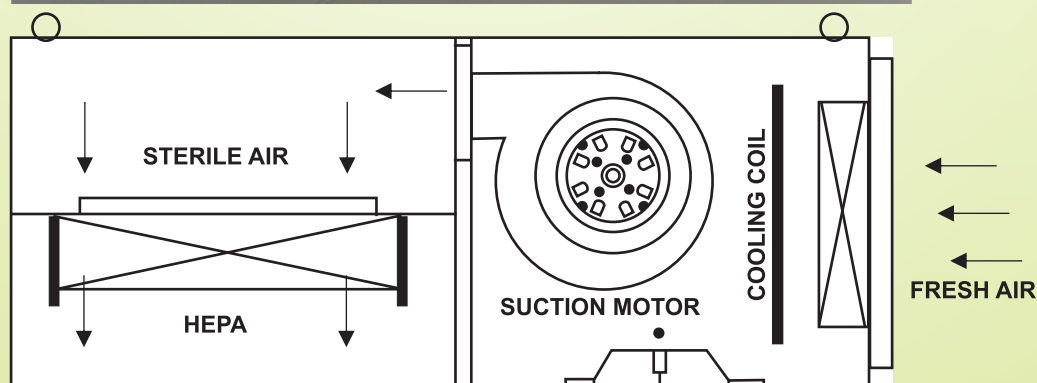
INTERNAL INVENTORY



Positive Pressure System

PPS is supplementary to LAF with assembled AC or without AC suspended to the ceiling. The fresh air from outside the OT complex will travel through a 10 micron filter and then to the cooling coil (assembled air condition) to reduce the temperature to 25°C to 30°C (depending on outside weather condition) then routed through 0.3 micron Hepa filters in the operation theater.

This increases the air pressure inside the operation theater. This results in sterile air being continuously forced out of the operation theater, preventing unsterile air from coming into the OT.



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