

## MODULAR OPERATION THEATRE

We, Medcorp India provide Total solution for Modern Operation Theatre to achieve zero bacteria sterile environment. Our modular operation theatres with Ultra Clean Laminar Air flow System conform all global standards, meeting all engineering architectural and clinical requirements for a perfect working environment for any surgeon with zero contamination.

We, Medcorp India offer Total turnkey solution for Modular Operation Theatre. We have a team of highly competent and experienced engineers and technicians to deliver the best equipment with most efficient and friendly after sales service.

Our Laminar Air flow system is designed to maintain accuracy in environmental air parameters which suits to the latest technology guidelines of NABH and ISO standards.

All the built in facilities are accessible from outside the theatre and thereby avoids the need of disturbing clean areas during routine maintenance.

In addition to that, we focus in finding innovative solutions for all engineering as well as environmental challenges in Surgical Clean rooms in highest quality standards.

Our highly experienced Engineering professionals show their dedication, commitment and reliability confirming the latest technology developments and care for the entire satisfaction of the customers.

## LAMINAR AIR FLOW SYSTEM

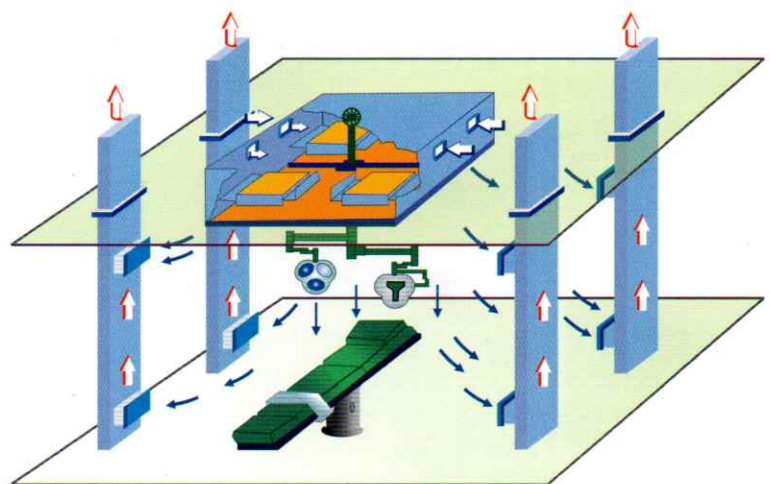
In Operation Theatre it is most necessary to control the air in respect of temperature, humidity and content of air, micro organisms, i.e., bacteria, viruses, fungi etc.

The air is cooled, moisture is removed, air is filtered to remove dust particles, bacteria, viruses, gases, odors and other volatile organic compounds.

In Laminar Air Flow system the air coming over operative area to diffuser plenum which is fitted with HEPA ( High Efficiency Particulate Air) filters of 0.3 microns at 99.99% efficiency.

It is necessary to maintain particular air velocity so that filtered air, bacterial load away from it according to international standard NABH.

Laminar Air Flow Unit



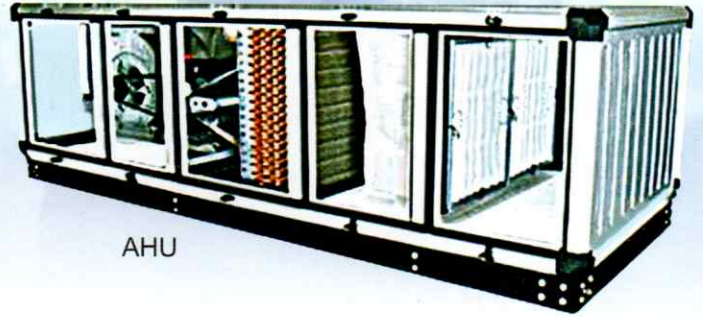
**MEDCORP INDIA**

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### AIR HANDLING UNIT - AHU

In Air Handling Unit ( AHU) the air is supplied through HEPA filters. The minimum size of the air supply area is 6' x 4' to cover the entire OT table and surgical team. The minimum supply air volume to the OT (in CFM) will be compliant with the desired minimum air change. The return air will be picked up/ taken out from the exhaust grille located near the floor level.

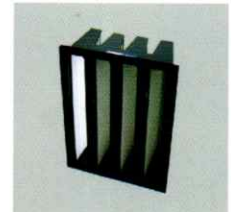
The air quality at the supply should be Class 1000/ ISO Class 6. The AHU consists an air purification unit and air filtration unit. There are two sets of washable flange type pre filters of capacity 10 microns and 5 microns with aluminum / SS 304 frame within the AHU. HEPA filters of efficiency 99.97% down to 0.3 microns are provided in the AHU.



AHU



Liquid Sealing Type Air HEPA Filter



Plastic Frame V-bank Mini-pleat Filter



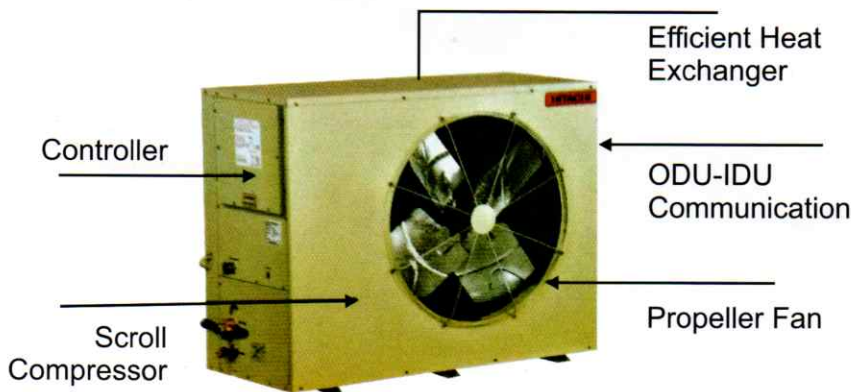
High temp. Resistance Disposable



Fiberglass HEPA Filter for Laboratory

Air Filters

### OUT DOOR UNIT



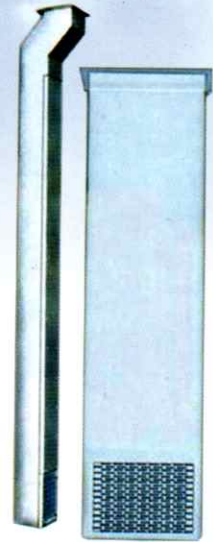
### CENTRAL CONTROLLER



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### CEILING PANEL

Ceiling partitions are a composite construction of two skin of PPGI or SS304 over an GI with powder coated frame work with a sealed and insulated interior. Standard panel dimensions are 1200x3000mm an overall thickness ranges of 100/80/60/mm. The self supporting internal walls are constructed with an interior GI frame work. The partition seams are sealed by silicone with a perfectly flush finishing. PUF insulation material is sandwiched between the two skin layers PPGI or SS304.



### RETURN AIR RISERS

Inbuilt riser panels are made composite of two skin of PPGI or SS304 over and GI with power coated frame work with a sealed and insulated interior with infill of PUF providing and fixing 100mm thick return air riser with grill cut out with edge finish / reinforcement for cut out of specified size.

### EPOXY/VINYL FLOORING

1) 100% epoxy resin with hardener is spread over floor and settled at 1 mm thickness. Double coat is given which makes it hard enough and long lasting. 2) Vinyl floors are of 1/2/3 mm sheet in roll or tile form is fitted on floor. Copper plates are placed below it connected to earthing. Floorings have good resist to chemical and mechanical stress and with excellent antibacterial, antifungal qualities. Colors and designs options available.

### HERMITICALLY SEALED STAINLESS STEEL DOORS

Medcorp india developed a series of Hermitically sealed Stainless Steel doors swing / sliding doors, single / double and manual / automatic which facilitates the entry to meet the demands of precision control of air movements in operation theatre. The doors encased in aluminium profile frame, have PUF filled core faced with a compact stainless steel laminate cladding to both sides. Molded rubber gasket surrounds the door blade enabling a hermitic seal to be achieved, when door is closed.

### SURGEON'S CONTROL PANEL

SS304 control panel incorporating membrane type panel with day time, elapsed time, medical gas alarms, hands free tel, music etc. Air handling system controls. temperature & humidity indicators, peripheral lighting controls etc. are fitted on SS base plate on the other side of membrane panel. Push button, touch screen options available, data transfer facility can be provided.



Control Panel



Vinyl Flooring



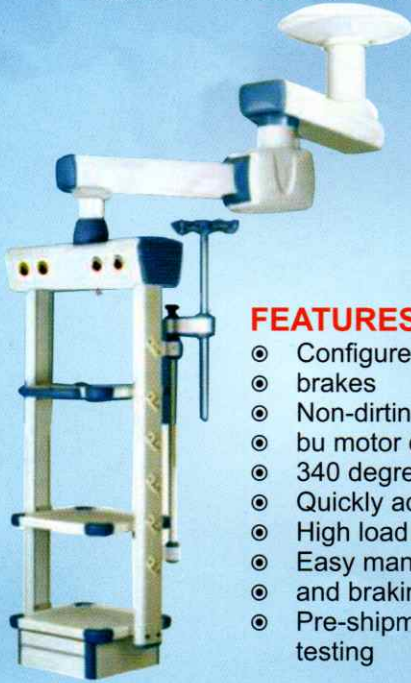
Double Side SS Door



Sliding SS Door

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### Double Arm Medical Pendant



#### FEATURES

- ⦿ Configured with pneumatic brakes
- ⦿ Non-dirting, vertical retract-ability
- ⦿ bu motor driven
- ⦿ 340 degree range of arm rotation
- ⦿ Quickly adjustable shelf system
- ⦿ High load capacity
- ⦿ Easy manual arm movement and braking
- ⦿ Pre-shipment assembly and testing

### Single Arm Surgical Pendant



#### FEATURES

- ⦿ Configured with pneumatic brakes
- ⦿ 340 degree range of arm rotation
- ⦿ Medium load capacity
- ⦿ Easy manual arm movement and braking
- ⦿ Pre-shipment assembly and testing



LED X-ray view box

PASS BOXES, are so designed to handle the soiled materials from sterile areas, to transfer to an adjacent room-without compromise in air quality. The special design of doors allows opening of only one door at a time. Available in two models; 1) Static pass boxes and 2) Dynamic Pass Boxes. Digital electronic control system incorporated. Manual ones also available. The body made of SS304, 1.2 mm thick material.



SURGICAL SCRUB STATIONS



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