

MODULAR OPERATION THEATRE

1. Ceiling Panel with 1.5 m EGP Panel back side 12mm G. Board or 50mm Puf EGP & ppgi panel



Specifications:

- Corners should be one sheet bent to avoid corner joints
- Complete Joint less O.T. Joint LESS Wall and Ceiling, Minimum junction
- Seamless junction.
- Durable
- Fire retardant
- Antibacterial surface

Descriptions

In a operating department for which the most integrated function is required, cleanliness must be kept and the safety of facilities, equipment's and devices must be maintained any times. Supply, installation, testing commissioning of pre-fabricated modular operation theatre with 50 mm EGP and PPGI Puf Panel . , having flame resistance to BS 1142 with proper supports . Panels are provided with Tongue & Groove Joints and specially designed cam Locks to enhance a airtight Assembly. The standard density is $40 \text{ kg} + - 2 \text{ Kg/m}^3$. Filling of all joints and cavities with epoxy filler and sanded flush to provide a seamless finish.

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2. 4 Riser all corner for Return Air Duct with Grill



Specifications:

- Seamless junction.
- Durable
- Fire retardant
- Antibacterial surface
- Corners should be one sheet bent to avoid corner joints

Descriptions

Contrary to popular belief, return placement just doesn't have that much influence on air patterns in a room. There are a lot of people who either see red or think I'm crazy when I make this statement in classes.

Supply, installation, testing commissioning of pre-fabricated modular operation theatre with 1.5 mm EGP Pane back side 12mm G. Board or 50 mm EGP and PPGI Puf Panel . , having flame resistance to BS 1142 with proper supports . Panels are provided with Tongue & Grove Joints and specially designed cam Locks to enhance a airtight Assembly. The standard density is $40 \text{ kg} + - 2 \text{ Kg/m}^3$. Filling of all joints and cavities with epoxy filler and sanded flush to provide a seamless finish.

- Complete Joint less O.T. Joint LESS Wall and Ceiling, Minimum junction

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3. Anti-Fungal Paint PAINTING FOR WALL PANELING & CEILING CLADDING



Specifications:

- Floor Mounting High Static AHU 3200 CFM, 80% Return air/20% fresh air.
- 10 Micron pre filter, 125 to 150 Static Kruger fan.
- Relative Humidifying 45-60% fine filter 5 Micron at Delivery Double Skin- Puff Insulated Horizontal.

Descriptions

Filling of all joints and cavities with epoxy filler, sanded flush for seamless finish with one primer and three coats of antibacterial & antifungal paint. That is equivalent to a dry film thickness of 300 microns.

1. Protective Zone: The protective zone is the entrance area for patients, staff and supplies where normal hospital standards of cleanliness apply and where normal everyday clothes can be worn.

2. Clean Zone: In order to pass between the protective zone and the clean zone everything must undergo a system of transfer. This is the main area of the department and all patients, staff and supplies must be clean. A strict cleaning routine applies and everybody must undergo a complete changing routine to enter

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4. Laminar air flow / Air Plenum



Specifications:

- Temperature
- Humidity
- Clean Air
- Particle and Micro Organism number
- Atmosphere Air Pressure
- Air Condition

Descriptions

With the support of our team, we have been able to provide our valued clients with the best Operation Theatre Laminar Air Flow System.

Supply and installation of Plenum LAMINAR FLOW- Plan air laminar flow Ceiling mounted system with unidirectional airflow, Plenum unit in aluminum, Holding structure in galvanized steel & Top plenum are conforming to DIN 4799 standards for the air distribution system complete with HEPA Filters (efficiency 99.97% down to 0.3 μ m). (Plenum size 2400 x 2400mm). Diffuser are made out of aluminum perforation duly anodized for laminar of filtered air. Laminar:

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5. Air Handling Unit



Specifications:

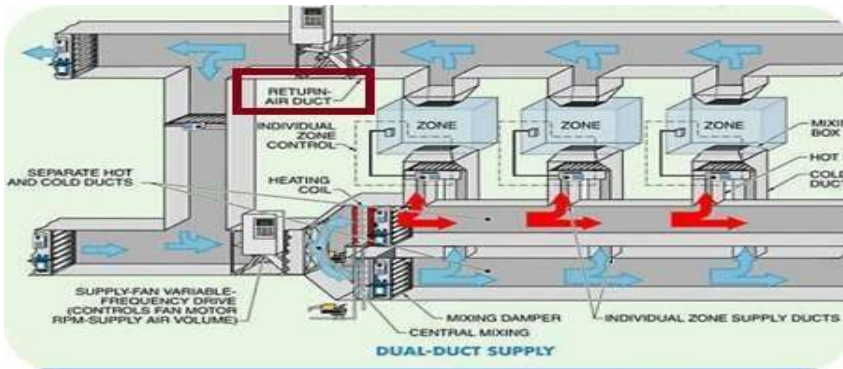
- Floor Mounting High Static AHU 3200 CFM,80% Return air/20% fresh air.
- Laminated panels under high pressure as per EN standard
- For best and durable results
- PUF sandwich panel

Descriptions

Floor Mounting High Static AHU 3200 CFM,80% Return air/20% fresh air,10 Micron pre filter,125 to 150 Static Kruger fan, Relative Humidifying 45-60% fine filter 5 Micron at Delivery Double Skin- Puff Insulated Horizontal. An air handling unit is a device used to regulate and circulate air as part of the heating, ventilation and air conditioning system. The AHU takes in outside air, reconditions (filtered and either heated or cooled) it and supplies it as fresh air to the air conditioned room.

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6. RETURN and Supply AIR DUCT



Specifications:

- Floor Mounting High Static AHU 3200 CFM
- 80% Return air/20% fresh air.
- 10 Micron pre filter, 125 to 150 Static Kruger fan
- Relative Humidifying 45-60% fine filter 5 Micron at Delivery Double Skin-Puff Insulated Horizontal.

Modular Operation Theatre

Descriptions

The wall and ceiling panel of Modular Operation Theatre can be made out of following material as per customer requirement. A) 1.6mm thick EGP steel panels backed by 12mm thick Gypsum. B) Stainless steel SS202 or SS304 panels. C) High-pressure Laminate panels as per EN standard. D) PUF sandwiched panel.

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7. Insulation of all DUCTing



Specifications:

- supply and return air ducting insulation of material Nitrile Foam or Aluminum foil faced XLPE.

Descriptions

We are professional manufacturer for HVAC Ventilation Duct with 10 years production and R&D experience. The global leader in the Flexible Duct products in commercial and residential area.

Find here Aluminum Flexible Duct, Combi Aluminum Flexible Duct, Insulated & Acoustic Flexible Duct & Silencer, Semi-Rigid Flexible Duct manufacturers, suppliers & exporters in China. Get contact details & address of companies.

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8. SUPPORT STRUCTURE



Specifications:

- Supporting structure required for installing Steripanel on the walls of the operating room should be galvanized steel profile.

Descriptions

Provides positive air pressure inside the OT. Consists of a plenum, the support structure for the air flow system within the OT ceiling. Plenum is made from aluminum and stainless steel and houses the filters & dampers.

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9. Hatch Box / Pass Box

Hatch / Pass Box



Specifications:

- The hatch will be designed in such a way that only one door will be opened at one time.
- The uv light will glow when both the doors are in closed position.

Descriptions

With sincere intentions to preserve and uplift our reputation in the market, we bring forth a distinguished assortment of Hatch Pass Box. Our offered pass box is manufactured using utmost-grade raw material and cutting-edge technology in compliance with defined quality standards. Keeping in mind the diverse requirements of our clients, we provide the entire range in various sizes and designs and at an affordable price.

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10. Pressure relief dampers



Specifications:

- Our Pressure Relief Damper (PRD) prevents cross contamination of air from clean and dirty areas of operation theater.
- Adhering standard BS colors, safety and international quality norms, the body of our PRD is fabricated using epoxy coated material.

Descriptions

Pressure relief dampers should be provided in each room to prevent contamination of air from clean and dirty areas. The body should be epoxy powder coated as per BS colors. First class electrolyzed steel plate should be used for body and with high grade SS304 stainless steel for blades. The PRD design should be as per HTM 2025:1994 for ventilation in healthcare premises.

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11. Control Panel



Specifications:

- Providing, fixing ,supply, Installation commissioning of Membrane type surgeon control panel mounted flush in the Theatre wall along with Distribution board comprising of following things-

Descriptions

Surgeon Control Panel for the modular operation theater are provided on a membrane type and touch screen type, micro controller based electronic control panel which is mounted in the theater wall. The fascia is made with superior quality UV resistance membrane with sterilization feature.

- -1 no. day, Time clock (Digital), • -1 no. Lapse, Time clock (Digital), • -1 no. Hand Free Telephone, • -1 no. Medical Gas Alarm, • -1 set indicator for temperature & humidity display control

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12. X - Ray Box



Specifications:

- Two plate x- ray viewing screen with flicker free dimming range from 3 to 100% with complete accessories.

Descriptions

Since the body is made up of various substances with differing densities, X-rays can be used to reveal the internal structure of the body on film by highlighting these differences using attenuation, or the absorption of X-ray photons by the denser substances (like calcium-rich bones).

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13. Peripheral Light



Specifications:

- Ceiling mounted dual dome halogen ot light with color temperature 4300 k and illumination of 140000 lux (small dome) and 140000 lux (large dome) the light should have an automatic switchover to reserve bulb.

Descriptions

Peripheral Light Focusing (PLF) can be described as the focusing of Solar Ultraviolet Radiation (SUVR) at the nasal limbus of the cornea. SUVR incident at the temporal limbus passes across the corneal dome and focuses at the nasal limbus.

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14. Door (GI Powder Coated)



Specifications:

- Providing, fixing, supply, Installation commissioning of Manual Hinged door, having GI Powder coated sheet on both sides with in fill Honey Comb Paper , vision panels (300x300mm) . door size 1000x2100. mm

Descriptions

Providing, fixing, supply, Installation commissioning of Manual Hinged door, having GI Powder coated sheet on both sides with in fill Honey Comb Paper , vision panels (300x300mm) . door size 1000x2100. mm

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15. Writing Board



Specifications:

- Optionally the board can be made from High Pressure Laminate board. The board is flushed with the wall of operating room

Descriptions

Prefabricated Modular Operation Theatre. Writing Board -The board is made of ceramic with magnetic properties. Optionally the board can be made from High Pressure Laminate board. The board is flushed with the wall of operating room.

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16. SS Scrub



Specifications:

- Deep sloping basin
- Check stop strainers for ease of maintenance

Descriptions

2- bay scrub station made up of stainless steel grade 304 with all accessories inclusive of photo sensors with timer, thermostatic mixing valve & bypass system, with foot switch.

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17. Single Arm Pendant



Specifications:

- Two plate x- ray viewing screen with flicker free dimming range from 3 to 100% with complete accessories.

Descriptions

Pressure relief dampers should be provided in each room to prevent contamination of air from clean and dirty areas. The body should be epoxy powder coated as per BS colors. First class electrolyzed steel plate should be used for body and with high grade SS304 stainless steel for blades. The PRD design should be as per HTM 2025:1994 for ventilation in healthcare premises.

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18. OT Light



Specifications:

- LED 1.7 Lac x 2 x 2 dome (multiple color, with remote control). 284000 LUX in Double DOM System.

Descriptions

Should be a dual dome and the main light and satellite should have the following specifications LED 1.7 Lac x 2 x 2 dome (multiple color, with remote control). 284000 LUX in Double DOM System.

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19. Electrical Wiring



Descriptions

Electrical wiring is an electrical installation of cabling and associated devices such as switches, distribution boards, sockets, and light fittings in a structure. Wiring is subject to safety standards for design and installation.

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20. AC Unit Tonnage Plant



Specifications:

- Antibacterial vinyl (German)
- Easy clean

Descriptions

The ton of refrigeration is equivalent to the consumption of one ton of ice per day and originated during the transition from stored natural ice to mechanical refrigeration.

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21. Vinyl Flooring (German)



Specifications:

- Antibacterial vinyl (German)
- Easy clean

Modular Operation Theatre

Descriptions

One main advantage of vinyl floors is that they are durable. If they are installed in the correct way, they can last for a very long time with minimum maintenance. Vinyl is highly recommended for homes with kids and big families as it can withstand high levels of foot traffic and is resistant to stains.

P & F 3%, Erection and commissioning 5%, and Actual GST Extras