Modular Operation Theatre
the comprehensive clean room solutions
La-Max Corporation Pvt. Ltd.
When; We set out to design a new kind of operation theatre, Doctors from many disciplines were invited to become intimately involved in a systematic design process. Surgeons, Assisting staff and Anesthetists were asked to define the requirement for a total solution for operation theatre. The team identified the unique features required to meet the current and emerging surgical techniques in a way never before imagined.

So now we offer versatile and user-friendly operation theatre. This premier operation theatre provides a configured solution for handling everyday operation theatre tasks in a modern medical institution.
Modular Operation Theatre

We are Introducing as Total Turnkey Solution Provider for better Clean room Environment System. Having well trained with hands of experience and thorough knowledge about the latest technology guidelines of ASHRAE, WHO, USFDA & cGMP in Clean room Systems, we are highly capable in executing the projects to perfection as per the guidelines and schedules.

We are all set with our products services for the pharmaceuticals, Biotechnology, Hospitals, R&D Laboratories, Medical Devices, Electronics, Engineering, Food Processing, Cold storage rooms, HVAC Mechanical Systems and other critical manufacturing environments in which contaminant restriction is critical.

Our Vision is committed in building long-term relationships based on integrity, performance & dedication. We will continue to upgrade ourselves to meet the changing needs of our clients with our quality services, delivery schedules by our well experienced team to the best of client satisfaction.
1. The room walls are formed by Stainless Sheet, Glass or Impact prefabricated panels with a coat of antibacterial paint.

2. The outer shell panels can maintain a controlled internal environment suitable for various surgeries, not affected by the outer conditions.

3. Central Filtration System effectively generates Laminar flow with unique air flow technology to remove infection and other contamination.
**Operation Theater Room Walls**

consist of following materials:

1. **Metal**

**Versions:**
- Stainless steel, grounded with grain
- Stainless steel with powder coating
- Steel galvanized with powder coating

**Quality**

Material/Surface: Microscopic flat and free of pores, resistant against living organism and chemical substances, resistant against all general hospital detergents and disinfectants
2. Glass

**Versions:**
- Safety glass
- Insulated
- Transparent
- With colored foil
- Satined
- With backlit

**Quality**
Material/surface: Microscopic flat and free of pores, resistant against living organism and chemical substances, resistant against all general hospital detergents and disinfectants
Operation Theater Room Walls
consist of following materials:

3. Impact

Versions: Fiber cement panel: 12mm with fire flammable

Coating:
• Full color
• UV hardened finish on acrylic coating covers up with translucent structure of the fiber cement
• Laminate
• Laminated
• Ceramic

Quality: Laminated coating Plain, high abortion resistant, UV-stable, water resistant, impact resistant, resistant against living organism and chemical substances, resistant against all general hospital detergents and disinfectants.
Offering the best turnkey solutions ever that include:

- Modular Sandwich Panels (Laminate/Pre-coated / SS)
- Clean room Doors
- Modular Clean Room Accessories
- Civil Wall Windows Double Glazed View Panels
- Epoxy and PVC Flooring
- Clean Room Equipments
- HVAC Systems
- Solutions @ Hospitals
1. Modular Sandwich Panels

Modular Sandwich Panels:
Laminated / Pre coated / SS Sandwich panels for clean room systems are designed according to the latest CGMP norms. Our array of quality are Modular Wall Panels, Walk-able & Non-walk-able ceiling Panels with infill material of PUF, EPS, Rockwool and Honeycomb. Each and every component of the systems is engineered & developed for easy installation and functioning. Our Modular technology is very reasonable at cost and more flexible at usage. This whole system can be assembled and demounted with more ease.
1. Modular Sandwich Panels

**Special Features**
- Extremely Low Weight
- Excellent Strength
- High Resistance to Moisture
- High Resistance to Corrosion
- Excellent Thermal Conductivity
- Non Combustible
- High Resistance to Fungi
- Easy Installation
- Easily Cleanable
2. Clean Room Doors

Clean Room Doors are available in Laminated, Powder Coated in GL and SS with in filled material of Honeycomb, PUF and EPS. Our clean room doors are extremely durable and are available in different models for clean rooms, hospitals, and other special purposes. The said doors are available with a variety of options including double glazed toughed vision panels, hardware like imported hinges and total specialized aluminum frame for proper air tights and automatic door drop seal arrangements and locking mechanisms. We also offer special fire proof doors as per fire & safety norms for emergency exists.
3. Modular Clean Room Accessories

Modular Clean room complete accessories supports your clean room by providing control over contamination, static, microorganisms, humidity and other critical operating conditions. Regardless of your clean room requirements, we provide a complete turnkey system and perform all installation to your production schedule.

Our accessories includes Aluminum Powder Coated / Anodized Covings, PVC Covings, 90 and 180 degree Bends and room corner pieces etc., designed for fulfilling the CSMI guidelines of clean rooms.
Civil Wall Window and Modular Panel Double Glazed View Panels

Civil Wall Window Double Glazed View Panels are fit flush with both surfaces of the wall panel system. Each unit is constructed with two panels of 3+3 mm double layered and fixed with toughed safety glass. The two panels sit within a structured framework, and air fills the space between the two panels. The window system is especially designed for the cleaning needs of the clean room system. It is completely silicone sealed and includes a micro-perforation profile with an integral silica gel moisture absorption system designed to eliminate fogging.
5. Clean Room Floorings

Clean room Floorings
Epoxy and PVC Floorings are pretty attractive and are available in shiny or rough texture with protection film against water and so on. Epoxy flooring are technical floors which resists to chemicals, mechanical and stress factors. The great advantage is that they are hygienic and easy to clean.
6. Clean Room Equipments

Clean room Equipments

- Pass Box
- Laminar Work Stations
- Sampling and Dispensing Booth
- Fume Cupboards
- Air Showers
6. Clean Room Equipments

1. **Pass Box**

Our specially designed pass boxes are very well suitable for various industries like pharmaceutical, Electronic, Hospital and Engineering. The advantage of our Pass Boxes are Bacteria free, Virus killing applications, Indication alarm, CE approved Interlock Systems, Double Glazed View Panels.

We are ready to offer static and dynamic pass boxes with customized designs of different sizes.
6. Clean Room Equipments

2. Laminar Work Stations

We manufactures both vertical and horizontal laminar flow workstations. These are ideal applications which are not hazardous to the operator. The compact, light weight design allows for multiple “clean zones” within a laboratory. These workstations provide clean class 100 laminar flow air for process protection by using a two stage filtration process. Room air is initially cleaned with an electro-statically charged per-filter and next cleaned with a HEPA filter.
6. Clean Room Equipments

3. **Sampling and Dispensing Booth**

Sampling and Dispensing booths are designed as Open Front Containment Systems with built-in Scavenging arrangement that draw powder aerosols away from the operator and the operating environment. Thus we are protecting products and personnel@100% cleanliness.
4. **Fume Cupboards**

Our Fume Cupboards are best choice in controlling your exposure to chemicals, noxious fumes and airborne hazardous materials which are generated. As per the client requirements, we will provide the custom made fume cupboards.
6. Clean Room Equipments

5. Air Showers

Our Air Showers shall provide access to & from at work areas and shall be a high velocity, low air pressure system. The construction of all structures is structurally sound and esthetically pleasing. The materials used are compatible with clean room environments.
Heating Ventilation & Air Conditioning Systems:

We offer a range of HVAC solutions for pharmaceutical Clean rooms, Hospital and industrial ventilation etc. Our HVAC Team follow the latest guidelines of ASHRAE, ECBC Norms, LEED, OSHA, NFPA, SMANCA and Green Building guidelines for latest trends of HVAC. VRP offers conceptual study and design to reduce the cost of the project with fulfillment of different guidelines. Our specially made Air Handling Units are simple in operating which supports energy saving, robust in construction and reduction of microorganism.

- Ducting & Insulation
- Modules
- Inbuilt Raisers
- Dampers & Louvers
- Air Handling units
- Dx Systems/Chilled Water System
- Validation & Documentation
- Electrical System for Modular Clean room & HVAC Systems
7. Basic of HVAC Systems
8. Solutions @ Hospital

Solutions @ Hospitals

We offers total turnkey solutions for Hospital facility. We are specialized in modular Operation Theatre construction as per latest guidelines. We are providing modular Paneling. HVAC Systems, OT Lighting & Power Control Arrangement, Pendants, Scrub Station and Storage Cabinet. We also provide specialized OT Control Panel for Gas Alarm, Temperature and Humidity Controller, HEPA Filter pressure Indicator, Room pressure indicator, Music system etc.
Value Additions

- Budgetary quotation during the planning stage with value engineered alternatives followed by firm fixed price
- Complete submittal package utilizing the most recent version of Auto-Cad
- Delivery and schedule coordination to enhance installation schedules
- Custom designed Products for meeting unique and unusual requirements
- Complete set of O&M Manuals when orders are shipped
- Replacement spares / services inventory available
ADVANTAGES

• Integral and flexible construction kit system
• Innovative detail solutions for built-in components
• Certified hygiene, fire, noise and radiation protection
• Clearly calculable investment
• High planning reliability prior to installation
• Fast, easy and labor cost-efficient installation
• Ready for flexible integration of today and future systems
Applications

- HOSPITAL
  - OPERATING THEATRE
  - INTENSIVE CARE UNIT
  - CORRIDOR / MODULAR FURNITURE
  - DOOR SYSTEMS

- LABORATORY
  - STERILISATION/HOSPITAL LAB
  - HIGH SAFETY LAB
  - RESEARCH LAB
  - ANIMAL TEST ROOMS
We supplies worldwide a range of integrated modular operation room solutions and components, which allow efficient and flexible use of the available space in hospitals and laboratories. We work together with professional architects, medical planners and consultants in close partnership with leading hospitals and laboratories, to achieve our aim. We develop new solutions to optimize existing ones, in order to help our customers to improve the quality and efficiency of their daily work.

We are pleased about every completed project

In highest quality

With innovative architecture

And economic success for all
Photo Gallery
Photo Gallery
Photo Gallery
Laminar Air Flow
the flexible solution for OT
La-Max Corporation Pvt. Ltd.
Introduction

We are supplying a quality precession engineered Laminar Air Flow Units for Operation Theatre, which is manufactured with international quality standards. Our Operation Theatre Laminar Air flow ventilation is used in modern orthopedic operating theatres to reduce the number of infective organisms present in the air, which may lead to post-operative infection of the wound.

The operation theatre has to be with clean air for operation, like orthopedic surgery, to avoid, infections of operation wounds which may be fatal in certain cases, involving lots of legal complication these days. To keep the air clean of dust, fungus, microorganisms the operation theatre laminar flow air filtration is the only system available.
What is Laminar Air Flow?

Laminar Air Flow means that the flow of air is continuous, steady and unidirectional, with the entire body of air in the room moving with a low uniform velocity in parallel planes. In rooms equipped with Laminar Flow Patterns, the idea is to have a steady, turbulence-free flow of absolutely clean air to bathe the occupants and equipments. Under this condition of a piston-like delivery of air, the air will migrate over all surfaces. Any contaminated particles will not be picked up from one spot and deposited in another. Rather, it will be carried away from the working area to the Exhaust Point.
Laminar Air Flow Process
Technical Specification

- Cleanliness: Class 100
- Particle retention: 0.3 micron
- Velocity: 90FPM + 20%
- Illumination: 750 - 800 lumen
- Noise level: 60-65 decibels
- Standard: FED 209E
- Power supply: 220v single phase
Salient Features:

- Laminar flow plenum is constructed from aluminum.
- Serves the main objective to dilute the bacteria generated by the operating team & patient in theatre.
- It follows an air flow pattern that carries out contaminated air, away from operating table.
- Plenum has HEPA Filter’s having efficiency up to 99.9% down up to 0.3 micro us tested in factory.
- Plenum is integrated with light diffuser.
- It is an integral part of operation theatre.
- Air and light diffuser is consisted of two layers of monofilament precision woven polyester of uniform porosity with an open area of sufficient resistance to create laminar flow from diffuser’s face.
Benefits / Advantages

- Air-Stream is not directed at the operator causing less stress overall.
- Larger pieces of equipment cause less stress.
- Larger working area.
Applications

- Microbiological manipulations
- Bio-assays and sterility testing
- Bio clean protection for semi-automatic vial filling and bunging
- Operations in parental production, hospitals, pathological laboratories, microelectronics, optics, food and beverage, agriculture, animal husbandry, avionics and biotechnology
- Dry processing of electrons, electronic integration and micro feature assembly or, for automatic filling lines in parental production
- Microbiological labs or other research control centers engaged in investigative work with sub-toxic materials
- Providing protection for open vessels of chemicals, solvents or powders
Photo Gallery

Diagram of a system with labels such as Pre-Filter F7-F9 and HEPA-Filter H13-H14.
Contact Us

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