

PROFESSIONAL FOR STERILE  
ENVIRONMENT CLEANROOM  
DESIGN & CONSTRUCTION



## MODULAR OPERATION THEATER MANUFACTURER

Air Handling Unit | Clean Room | HVAC Projects

*URNS TO THE EXPERTS NOW*

- Integration
- Versatility
- Extensibility

## About us



APEX INDUSTRIES Turnkey Solution Provider for Modular Operation Theater & Clean Room Facility, We undertakes major clean-room & HVAC projects worldwide in a special areas of Pharmaceuticals & hospitals (Modular Operation Theater) fit-out Clean Air technology a versatile and user-friendly customized HVAC and Clean-room products includes equipment's also heaving quality efficiency Air handling unit & Clean-room manufacturing facility and our products quality is to meet international regulatory, we always deliver a premium modular operation theater designed by us provides a configured solution for handling every day operation theater activities in a modern medical institution.

We are the integrated clean room solution provider for better-controlled-hygienic Modular Operation Theater environment system; we are heaving hands on dynamic experience with well-trained engineers with thorough knowledge about the latest technology guideline of NABH, ISHRE, ASHRE, 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, Hospitals Modular Operation Theater HVAC Mechanical Systems and other critical manufacturing environments in which contaminant restriction is critical.

We have successfully emerged as a leading name in the field of manufacturing and exporting of Air Handling Unit - HVAC & Refrigeration equipment. Our research & developments team are backed by latest process technologies and user friendly interfaces that allow us to deliver these in both standard and customized specifications. Further, their special features also make them handle the tasks more simply as well as ensuring low cost & time consuming executions and operations, 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, Positive Pressure Indicate...



## Quality

We have been able to successfully establish a glowing reputation in the market as quality conscious products manufacturing of Cleanroom and HVAC & Equipment's that finds wide usage in varied industry sectors. With our commitment in providing quality products & services, we ensure maximum product value is provided to our customers. In this, our well defined Quality Management System assists us to stand true to our commitment of delivering quality products.

## Vision & Mission

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, Let APEX INDUSTRIES provide the comfort & quality that your business deserves. We look forward to the opportunity of providing our customized services & solutions to your organization in the near future.

## Why us

- ◆ Leading manufacturer & Exporter of Air Handling units & Clean room panels and Clean room Equipment's.
- ◆ State of the arts, manufacturing and design facility under one roof.
- ◆ ISO 9001-2008, CE, ISHRAE, ASHRAE Eurovent, and AHRI Certified.
- ◆ Dynamic, Modern Technologies, skilled & experienced organization.
- ◆ Proactive and communicative management – one stop solutions.
- ◆ Working with the 20th years dynamic & Skilled experience
- ◆ Working with 65+ nos. of employees.
- ◆ International presence is around the world.



## Benefits & Advantages

- ◆ In house design team which captures acceptance of surgeon, nursing, biomedical and engineering team.
- ◆ Easy integration of existing and critical equipment's with latest clean-room technology.
- ◆ Customized turnkey solution for complete modular operation theater.
- ◆ Our solutions are Cost effective and budget friendly.
- ◆ All Operation theaters are built as per NABH guideline.
- ◆ Prompt and proactive after sale supports and maintenance services.

## Modular Operation Theater Solutions

We offer total turnkey solutions for Hospital facility; we are specialized in modular Operation Theater construction as per latest revised guidelines of NABH. We are providing edge-less corner in Modular (wall & ceiling) Paneling, HVAC Systems, Surgeon Control Panel, vinyl Flooring with seamless joints & homogenous, peripherals LED Lighting, X-Ray viewing panel, writing board, Pendants, Scrub Station & Storage Cabinet. We also provide specialized OT Control Panel for Gas Alarm, Temperature and Humidity Controller, Ceiling Suspended LAF with HEPA Filter, OT  $\pm$  positive pressure Indicator and Music system etc.

### We Provide End To End Solution Which Includes;

Design	:	Optimal Process Plan
Equipment	:	Reasonable Equipment Configuration
Installation & Commissioning	:	Safety Measure And Advisable Solutions
Training	:	Systematic Theory And Actual Operations
Maintenance	:	Technology Consulting Fast Feedback & Action

### Built to meet the EU OR ISO standards on sterility and safety

PPCGI Metallic sheets, S.S. & HPL, Self-supported Modular panels, Guarantees compliance with cGMP (Current Good Manufacturing Practices) to meet international regulatory requirements for modular clean-room, Customized Height arrangement to have stacked boards for more elevated level applications, Surface Finish: Anti-bacterial surface, high impact resistance, anti-corrosive nature, Epoxy Polyester Powder covered according to RAL tones, SS Finish (matt/reflect finish), Frosting: Double flush frosting with 5mm hardened glass on the two sides inside a treated Steel/Powder covered outlining, Infill Material: Mineral Wool, Honeycomb Kraft paper with aluminum center guarantees board unbending nature and Polyurethane Foam, Board Connection in Patented aluminum extruded profiles, easily milled to allow flush mounting of all accessories; Each Panel is associated with its neighboring unit. This permits rapid establishment and destroying.



## Modular Wall System

Design Made of individual Modular Wall Panels with a seamless joint width of each panel. The Modular Paneling system design fascinates, the panels are installed to the wall on substructure made of galvanized steel All Internal corner wall panels are curved and easy to clean. Special Homogenous Silicone are used as a scaling between panels, frames, windows. Panels can be powder coated according to RAL palette with antibacterial paint. Optionally we provide glass panels (optionally with photos) fixed on metal frames.

PPGI/PCGI PARTITION WALL PANEL (THICKNESS – 50MM, 80MM, 10MM)

STAINLESS STEEL PARTITION WALL PANEL (THICKNESS – 50MM, 80MM, 10MM)

HPL PARTITION WALL PANEL (THICKNESS – 50MM, 80MM, 10MM)



## Surfaces System Elements

We offer complex solutions for Modular Operation Theaters including following elements,

- ◆ Modular Wall System (PPGI, S.S. 304, HPL)
- ◆ Modular Ceiling System (PPGI, S.S. 304, HPL)
- ◆ Hermetically Sealed Doors (Swing / Sliding)
- ◆ Flooring (Seamless Joints)
- ◆ HVAC System
- ◆ Laminar Air Flow unit
- ◆ High efficiency particulate air [HEPA filter]
- ◆ Surgeon Control Panel
- ◆ Pendant
- ◆ Surgeon Scrub Station
- ◆ Clean-room Lights
- ◆ Pass Box
- ◆ Accessories
- ◆ Validation & Documentation

## Ceiling System

Metal ceiling is made of individually detachable Modular Ceiling Panels with a seamless joint width of each panel with standard & Customized dimensions which pre and after powders coated with antibacterial paint Standard color is RAL 9010 The Substructure is made of galvanized steel. Panels are fixed in clip-in System are fixed in clip-in system, special Homogenous Silicone are used as a scaling between panels, frames, windows. Panels can be powder coated according to RAL palette with antibacterial paint.



PPGI/PCGI PARTITION CEILING PANEL (THICKNESS – 50MM, 80MM, 10MM)

STAINLESS STEEL PARTITION CEILING PANEL (THICKNESS – 50MM, 80MM, 10MM)

HPL PARTITION CEILING PANEL (THICKNESS – 50MM, 80MM, 10MM)

## Cleanroom Doors Hermetically Sealed (Swing / Sliding)

The customized, high quality clean room doors from APEX INDUSTRIES ensure a high degree of impermeability for your clean room. Ensuring that all clean-room standards are met, we supply doors with all the important fire, smoke and noise protection properties tested to the current EU directives and RAL standards. The highest level of comfort paired with the optimal level of safety, Double glaze View Panel glass cutouts for a high level of transparency, compatible with Floor and Ceiling Systems, special components available depending on customer's requirements, integral scratch protection available, Controls cross contamination, Swing doors & Sliding door with optional Automation. Door wing, thickness 37-42 & 75-85mm, with fully closed construction Aluminium Swing & slide way system with stainless cover, Door acoustically and thermally isolated with high pressure polyurethane foam or honeycomb additionally strengthening construction of the door wing Door without threshold. Hardware made of stainless steel: from external sides "C-shape" holder, from Internal side holder placed inside of door wing.



## Swing Door, Sliding Door, Emergency Fire Doors, 1 or 2-Wing, Manual & Automatic Door

We use only the high grades material, in Galvanized, CRCA, stainless steel and HPL doors, there are no antibacterial elements, made of aluminum or galvanized steel. In all doors, even the reinforcements inside the door leaf & frame, Screw bolts washers & accessories are made of stain-less steel 304, most industry used our doors like;

Uses in:- Operation Theater / Hospitals / Pharmaceutical / Food & packaging / Laboratories / Semiconductor & electronic industries / Computer server rooms / R&D Labs / Fire emergency exit doors.



### Characteristics

- ◆ Stainless steel a ISI 304 smooth, brushed optionally powder coated.
- ◆ Galvanized steel. Powder coated.

### Additional Options Door Wing

- ◆ Inspection window round with door wing surface safety double glass flushing
- ◆ Electrically operated window shutters
- ◆ Stainless steel bottom cover (for powder coated doors)
- ◆ Key-lock Fully covering frame

## Laminar Air Flow Unit

Laminar air flow ceilings ensures efficient protection against contamination which can occur during invasive acts and caused by airborne dead or living particles to create a clean zone around the patient, medical staff and medical devices. Our laminar flow ceilings are mainly used with our Clinicair Air Handling Unit, This system is dedicated to operating theatres in order to meet ISO 5 standard (complying with EN ISO 14644-1) as well as to pharmaceutical industry. It helps fight cross contamination and hospital borne infections.

- ◆ Velocity: 90 FPM+20% & Positive pressure
- ◆ Class: Class 100/ISO 5 at grill level as per NABH guidelines.
- ◆ Temperature: 21 +/- 3°C as per NABH guidelines.
- ◆ Humidity: 40 - 60 %



## Surgeon Control Panel

Monitoring and Controlling Centralized Server Data Monitoring and Logging Through Sever Software, Operating or Elapsed Time, Dirty Filter Display and Alarm-HEPA-Laminar, Medical GAS Hi – Low Alarm System, OT Light Control System (Dimmer –Higher), Anesthesia Countdown OT Room Differential Pressure with Hi, Low Alarm Touch LCD Display (As per Model) Date & Time Real Time Clock Temperature Display with Hi - Low Alarm Temperature & Humidity & DP Control Humidity Display with Hi - low alarm, Flush Wall Mounted fully stainless steel Material, With all Clean Room Mounted Sensor Small Size with All standard Features Low Cost With Highly Reliable. Specially Designed for Isolation & OT Room, Also Flexibility to add customized solutions, including BMS integration.



- ◆ Standard six-tile control panel (Membrane type)
- ◆ Touch screen control panel (22inch)
- ◆ PLC supported touch screen HMI (10inch)

## HVAC Systems

Apex Industries are leading & quality conscious organization dealing in manufacturing, supplying and exporting of Air Handling Units across the globe. The First priority of our company is customer's satisfaction and we totally focus on that only. Our offered air handling units are available with diverse specification at reasonable prices. HVAC systems are milestones of building mechanical systems that provide thermal comfort for occupants accompanied with indoor air quality; Central HVAC systems contain all-air, air-water, and chilled-water systems. Systems should be considered as central treated air for better environment as well. Air Handling Unit, Ceiling Suspended Laminar Air flow, HEPA Filter, HVAC Electrical Control Panel, Perforated Grills Steelness steel 304, Cooling unit (Branded OEM), G.I. Ducting & Insulation .





## L.E.D. X-RAY Viewer

APEX INDUSTRIES specializes in the manufacture of X-ray film viewers (X-ray illuminator). Keeping the needs of the doctors in mind along with the continuously changing demands of hospitals and Nursing homes, we have developed a sleek and effective L.E.D. Viewing system to view M.R.I, C.T. and X-Ray images. Bio-X offers a range of Single Screen & Double Screen viewers.



We offer a combination of benefits that is unmatched by our competition: reliability, distinctive product line designed to match your requirements, technical support for layouts, excellent service and stunning looks. Keeping the needs of the oncologist and radiologists in mind, we have developed a sleek and effective L.E.D. Viewing system to view Mammography film images which comes with an option of surgeons.

- ◆ Flush & Slim, Durable and Effective / Energy Efficient: Savings range from 82% to 93%, No UV emission / unparalleled latest LED backlight technology. 4-5 times longer than regular CCFL/EEFL, Power efficient L.E.D Light with long life- up-to 100,000 hours, Reliable magnetic nipper
- ◆ Initial brightness can be set, 12 step digital dimmer to get the perfect brightness

## Flush Writing Board

We are providing White Writing Board to use in every operating theatre. Writing boards are composed of ceramic magnetic properties. With our expertise we are able to provide a better quality rating of the Writing Board. It is manufactured using high-quality raw materials; this range is well adjusted to various parameters according to the different demands of the customers. This range of writing board is offered at the competitive prices of the industry.



Product Details:

Usage/Application : Hospital, Home, Office, College Board Color – White, Board Size - 2\* 3 Feet (Customized), Material: Resin Coated Steel Surface, Alloy Aluminum and Paper Honeycomb Core Mounting type, Wall Mounted, Shape : Rectangular

## Hospital & Clean Room Floorings

We specialize in Conductive & Non Conductive vinyl flooring and its properties are Homogenous & antibacterial, also we have Industrial Epoxy flooring, Epoxy Floor coating, ESD flooring, Polyurethane / PU flooring, PU Coating, Dielectric Flooring, Antistatic Flooring Coating, Epoxy Coving Services are pretty attractive and are available in shiny or rough texture with protection layers again water and chemicals. Epoxy flooring is technical floors which resists to chemicals, mechanical and stress factors. The great advantage is that they are hygienic and easy to clean and long-term needs.



## Operation Theater & Icu Surgical Pendant

We offer a premium quality & wide variety of OT Pendants that are available in fixed type and moveable. That includes ICU Swivel Pendants, Single arm Pendant, Double arm Pendant, Laparoscopy Pendant, and Anesthesia Pendant. Our products are available in varied specifications that meet on customer's demand. We offer you a complete range of OT Pendants that can be the helping arm for the surgeons during the surgeries, intensive care treatments, endoscopies, anesthesia as well as the diagnostic applications.

- ◆ Distributor head/console have up-to 8 universal electrical sockets connectors have 2\* infusion pole
- ◆ Ceiling mounted surgical pendant should meet with safety accordance to CE & ISO certified
- ◆ Baring hosing set is made of double bearings with six gas outlets



## Clean Room Equipments

We have a large selection of premium quality 304 stainless steel equipment for clean-rooms and labs. In addition, we have a full line of clean-room equipment, as well as clean-room furniture and gowning room furniture and we are using 304 / 316 grade steelness steel on demand of customers as required.

- ◆ Statics Pass-box / Dynamic Pass-box
- ◆ Scrub Sink
- ◆ Sterile cross over bench
- ◆ Sterile Garment cubicle unit
- ◆ Sterile Air Shower unit
- ◆ Movable trolley / Table



## Modular Operation Theater Products

- ◆ Modular Wall Panel
- ◆ Modular Ceiling Panel
- ◆ Operation Theater Swing Doors
- ◆ Operation Theater Sliding Doors
- ◆ Operation Theater Laminar Air Flow
- ◆ Operation Theater Light
- ◆ Operation Theater Ceiling Pendant
- ◆ X-ray Viewer
- ◆ Writing Board
- ◆ Surgical Scrub Sink
- ◆ Surgeon Control Panel
- ◆ Vinyl Flooring
- ◆ Medical Gas Pipeline System
- ◆ Hospital Beds
- ◆ Surgery Beds
- ◆ S.S. Furniture
- ◆ Air Handling Unit
- ◆ G.I. Ducting
- ◆ Electrical Control Panel



**DEDICATED TO THE AIR PURIFICATION INDUSTRIES**

**Export Quality Product Manufacturer**

Contact Us \_\_\_\_\_

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