

- 
- 1 HVAC & AIR HANDLING SYSTEM
 - 2 MODULAR CLEAN ROOM SYSTEM
 - 3 VALIDATION SERVICES
 - 4 TURNKEY CLEAN ROOM / AIR SOLUTIONS
 - 5 MODULAR OT & ACCESSORIES

→ MODULAR CLEANROOM PROJECTS

- ▶ Flexible configurations
- ▶ Easily modified as requirements change
- ▶ Filtration from ISO 4 to ISO 8
- ▶ Low design costs
- ▶ Consistent quality
- ▶ Predictable performance
- ▶ Full regulatory compliance

→ HVAC PROJECTS

- ▶ Conceptualization
- ▶ Design area classification
- ▶ Pressure Zoning / Balancing
- ▶ System Grouping
- ▶ Basic & Detail Engineering
- ▶ Preparations of BOQ
- ▶ Execution & Site management
- ▶ Commissioning & Validation
- ▶ Documentations as per USFDA, TGA & WHO cGMP

→ CLEANROOM EQUIPMENT

- ▶ Dynamic / Static Pass Box
- ▶ Dispensing / Sampling Booth
- ▶ Laminar Airflow Unit
- ▶ Reverse Laminar Airflow Unit
- ▶ Air Shower
- ▶ Bio-Safety Cabinet

→ CLEANROOM SERVICES

- ▶ Revamp / Up-Gradation of Existing Plant Facilities
- ▶ HVAC / Cleanroom Project
- ▶ Implementation
- ▶ Turnkey Solution under Single Source

→ MODULAR OT

- ▶ Operation Control Room Panels
- ▶ Hermetically Sealed Metal Doors
- ▶ Operation Theatre Room Accessories



WHAT WE DO

AIRCARE PROJECTS offers a spectrum of services from ideation to commissioning for both turnkey and partial projects of Modular clean room & HVAC.

AIRCARE PROJECTS OFFERS

- Conceptual Study & Design
- Heating Ventilation And Air-Conditioning Systems (HVAC)
- Modular Paneling
- Cleanroom Equipment
- Validation & Documentation
- Turnkey Projects
- Door Inter-Locking System
- Modular Operation Theater



WE SERVE FOR THE FOLLOWING VERTICAL

- Life Sciences
- Pharmaceutical
- Bio Technology
- Medical Device
- Manufacturing Companies
- Laboratory & Research
- Industrial Labs
- Nanotech
- Electronics
- IRobotics
- ColdStorage etc.,

HEATING VENTILATION AND AIR CONDITIONING SYSTEMS (HVAC)

HVAC is the system which is used to provide heating ventilation and air-conditioning for controlled environment. HVAC SYSTEM will play the vital role in contamination control for cleanroom projects. The major components used in cleanroom air distribution are Air Handling Units, Filter Modules, Raisers, Grills, Volume Control Dampers, Fire Dampers, Ducting, Insulation and Condensing Units. For design and manufacturing of clean air distribution components we have to follow latest guidelines and standards of ASHRAE, ISHRAE, SMANCA and ARI.



HVAC COMPONENTS

- AHU
- Ducting
- Insulations
- HEPA Modules
- Return Raisers
- Dx
- Grills & Lowers
- Volume Control Dampers
- Chilled Water & DX Systems
- HVAC Electrification
- VRF
- Condensing unit Chillers

AIRCARE'S MODULAR CLEAN ROOM PANELS

AIRCARE's Modular Cleanroom panel system has several unique features to build State-of-the-Art Cleanrooms and other controlled environments for various applications. Self-bearing wall provided in modular units consisting of :

- Flush surfaces for easy cleaning and complying with cGMP requirements.
- Practically no maintenance.
- Good stability due to advanced architectural design.
- Attractive appearance.
- Custom designed solutions from a single room to complete departments.
- Full modularity.
- Easy to assemble and dismantle.

PRODUCTS:

- Wall Panels
- Ceiling Panels
- Snap fit Coving
- Doors
- View Glasses
- Return Raisers

Available in infill material of PUF / ROCK WOOL / EPS
Ceiling Panels available in Walkable / Non-Walkable
Modular panel available thickness: 50, 60, 80, 100 & 150mm

Modular Cleanroom complete accessories supports your cleanroom by providing control over Contamination, Static, Micro-organisms, Humidity and other critical operating conditions.

Our accessories include Aluminium Powder Coated / Anodized Coving, PVC Coving, 2D / 3D corners etc., which are designed with the cGMP guidelines.]

AIRCARE'S HERMITICALLY SEALED METAL DOORS

SPECIAL FEATURES

- ➔ Highly durable and smooth functioning
- ➔ Attractive designer outlook
- ➔ Easily cleanable
- ➔ Hermitically sealed
- ➔ Safety assured



MODULAR DOUBLE GLAZED VIEW PANELS



Special Features

- ➔ Flush mounted to the walls
- ➔ Moisture adsorption facility
- ➔ Cleanroom Compatible
- ➔ Available Toughened
- ➔ Easily Cleanable Civil Wall Window and Modular Double Glazed View Panels

LAMINAR FLOW UNITS (LAFU)



AIRCARE'S LAFU FEATURES

- ➔ High performance direct driven centrifugal blowers
- ➔ Noise level is low
- ➔ Excellent finish
- ➔ HEPA Filters are long life
- ➔ HEPA filters status indication system
- ➔ Power consumption is low

FLOORINGS

AIRCARE's Epoxy, PU 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.

SPECIAL FEATURES

- ➔ Highly survives to chemicals & stress factors
- ➔ Highly hygienic
- ➔ Lowest Life cycle cost
- ➔ Low slippage
- ➔ Seamless and non porous
- ➔ Available in antistatic
- ➔ Easy to clean

Aircare Projects Offers The Following Cleanroom Equipments

- ➔ Pass Boxes (Pass Thru)
- ➔ Laminar Flow Units (LAFU)
- ➔ Biological Safety Cabinets
- ➔ Sampling and Dispensing Units
- ➔ Air showers

Other Cleanroom Related Products

- ➔ Dress Cabinets
- ➔ Cross over benches
- ➔ Door Inter-Locking System
- ➔ Lockers etc.,

PASS BOXES (PASS THRU)

AIRCARE'S RANGE OF PASS BOXES

- ➔ Static Pass Boxes
- ➔ Dynamic Pass Boxes
- ➔ Stainless Steel(SS). SS304, SS316
- ➔ Galvanized Iron (GI) Powder coated

FEATURES

- ➔ Robust in construction
- ➔ Good finish
- ➔ Ultra violet lights protection for sterility
- ➔ Coving provided inside the body. So that easily cleanable
- ➔ Electromagnetic inter locks are "CE" approved and long life
- ➔ Available in standard and custom made pass boxes
- ➔ Food grade neoprene gasket arrangement for air tightness



BIOLOGICAL SAFETY CABINETS

AIRCARE'S RANGE OF BIO SAFETY CABINETS

- Class II, Type A2 BSC CABINETS
- Class II, Type B2 BSC CABINETS

AIRCARE'S LAFU FEATURES

- Good quality and high performance Bio-safety cabinets
- Low power consumption
- Noise level is low
- High protection for personnel product and environment. Total system is interlocked with micro processed base logic control
- Supply and exhaust HEPA filters are long life



SAMPLING AND DISPENSING UNITS



Specifications

- Cleanliness Class 100 Particle retention :0.3 micron Standard :FED 209E
- Velocity: 100FPM + 20% Illumination :4 ft. 40w with diffuser
- Noise level : 60-65 decibels Nozzles Adjustable SS
- Power supply : 220v single phase

AIRCARE OFFERS VALIDATION & DOCUMENTATION FOR COMPLETE CLEANROOM FACILITIES

We offer AMC and periodical services for new & existing Cleanroom facilities.

- Filter Integrity Test
- Particle Count
- Air Velocity
- Illuminous
- DB Level
- Air Flow Pattern Test



AIR SHOWERS

- Completely self-contained, adjustable nozzles to remove surface contaminants
- Versatile design allows you position the Air Shower inside or outside the cleanroom
- Dual HEPA filters remove 99.90, of particles > 0.3 microns from the At stream
- Equipped with interlocking doors, automatically released when power fails
- Emergency stop buttons on both doors immediately disengage interlocks and halt air shower
- Light weight and modular design enables easy shipping and transfer of the unit



MODULAR OPERATION THEATER (Modular OT)

Modular Operation Theatre (Modular OT), manufactures and designing for hospital operation room, laboratories etc. Our modular operating theater equipment has been satisfying those conditions consists of a ceiling, slanted panels and wall. In addition, it has a high availability with high workability and enough functions, which is provided for the introduction of a new facility in the future.



Operation Room Panels



Hermetically Sealed
Metal Doors



Operation Theatre
Room Accessories

KEY DRIVERS FROM AIRCARE PROJECTS PVT. LTD.

- ➔ To complete each project regardless of size or value with dedication
- ➔ Budgetary quotation during the planning stage with value engineered alternatives followed by firm predetermined prices
- ➔ Perfect coordination with customers through the entire process from pre-construction to commissioning and beyond
- ➔ Adopting new initiatives and modern methods over products and installations
- ➔ Promoting delivery through frameworks Replacement spares/services available



For Cleanroom Environmental Solution at Single Source

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