

CORPORATE CATALOGUE



AIRZ TECH SOLUTIONS

*Specialized in Industrial HVAC Systems, Modular Cleanroom Systems,
Modular Operation Theatre Systems, Clean Air Equipment & Furniture.*

ABOUT US

Welcome To Airz Tech Solutions.

Airz Tech Solutions is a company that specialises in the design, installation, testing and commissioning of controlled environment management and industrial air treatment systems that are suitable for use in clean air equipment, industrial HVAC, modular cleanrooms system & modular operation theatre (OT) systems.

Our current focus is on life science, healthcare, biotechnology, pharmaceutical, and laboratory industries. We provide solutions in the areas of design, engineering, and implementation of turnkey projects for the cleanroom environments and process lines.

In addition to our experience with specialised technical solutions, we have a comprehensive understanding of turnkey HVAC, modular cleanroom, modular OT, and clean air equipment projects.

AirZ Tech Solutions offers project consulting, engineering, design, and supply of clean air equipment, modular OT, modular cleanroom, and industrial HVAC.

Our knowledgeable team closely monitors all aspects of product reliability, design, material quality, and system efficiency in addition to closely examining equipment specs.

Maintaining this level of emphasis guarantees that the facilities meet the expectations of our clients.

Our mentor and hands-on coach, Er. M.K. Gupta (Proprietor), helps us reach our full potential. By bringing together the most suitable skills, his direction enables us to uncover the market insights.

Our Vision

To become a best solution provider for contamination free environment by introducing the latest products and services at affordable prices.

Our Mission

To maintain client satisfaction at all the times with superior workmanship, services, quality products and on time delivery schedules.



- Conceptual Study & design
- Heating Ventilation and Air-Conditioning Systems (HVAC)
- Modular Panelling
- Cleanroom Equipment
- Validation & Documentation
- Turnkey Projects

We serve for the following verticals

Life Sciences

Pharmaceuticals | Bio Technology | Medical Device Manufacturing Companies
Hospitals & Healthcare Centres

Laboratory & Research

Industrial Labs | Nanotech | Electronics | Robotics etc.

Cleanroom is a controlled environment with a low level of environmental pollutants such as dust, airborne microbes, aerosol particles, and chemical particles. Eliminating sub-micron airborne contamination is really a process of control. The only way to control contamination is to control the total environmental air flow rates, direction, pressurization, temperature and humidity. The sources of these particles need to be controlled or eliminated wherever possible. Cleanroom should be planned and manufactured using strict protocol methods. Cleanroom design will vary for different line of production facilities like Pharmaceutical, Bio-pharmaceutical, Electronics, Medical device industries and other critical manufacturing environments.



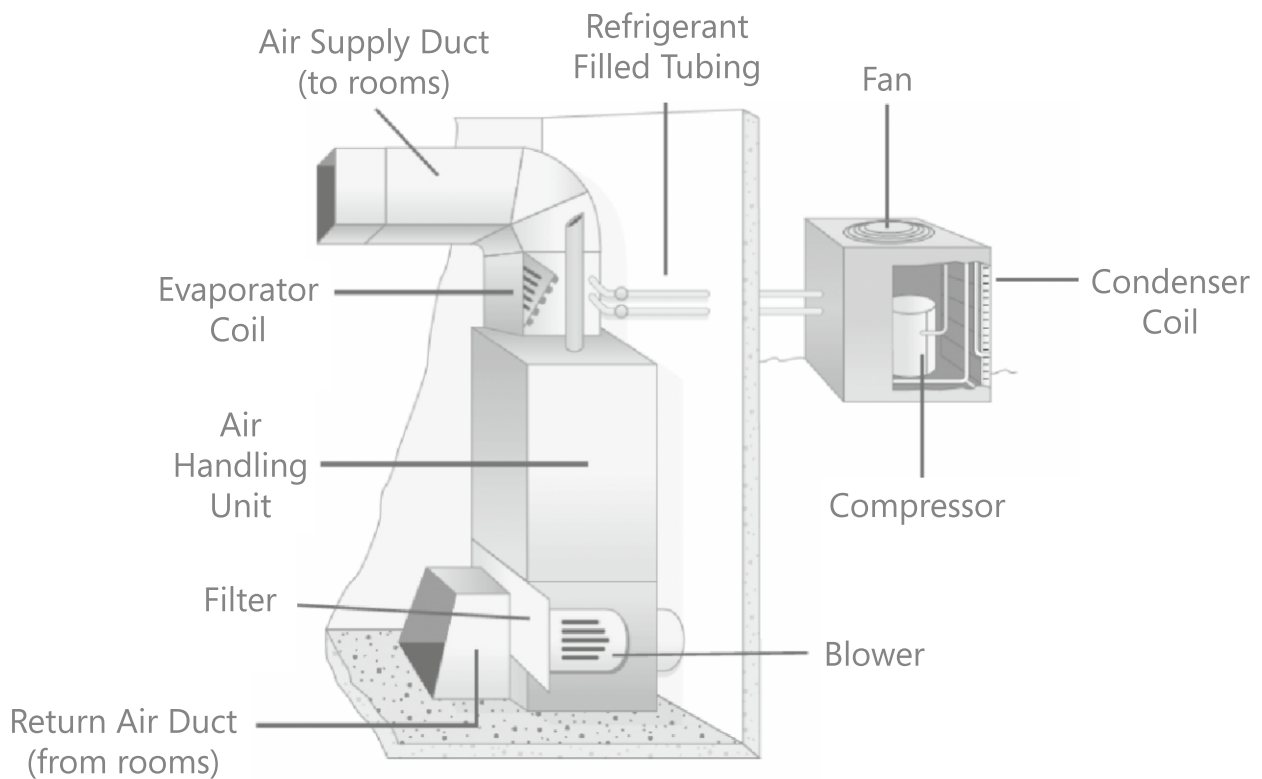
Conceptual Study & Design

AirZ Tech Solutions majorly concentrates on conceptual study of the cleanroom projects and design accordingly. This method helps the initial cost reduction as well as maintenance cost too. Suitable cleanroom planning will reduce the space and electrical usage for HVAC components. Our complete design will follow the latest CGMP guidelines, national and international accreditation agencies i.e., FDA, US FDA, ISO and EUGMP standards.

Heating Ventilation and Air Conditioning Systems (HVAC)

HVAC is the system which is used to provide heating, ventilation, and air-conditioning for a controlled environment. HVAC systems play a 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, Condensing Units, and perfect insulation. While designing and manufacturing of clean air distribution components, we follow the latest guidelines and standards of ASHRAE, ISHRAE, SMACNA, and ARI.

HVAC Diagram



Conceptual Study & Design

1. AHU
2. Ducting
3. Insulations
4. HEPA Modules
5. Return Raisers
6. Grills & Lowers
7. Volume Control Raisers
8. Fire Dampers
9. Chilled Water & DX Systems
1. HVAC Electrification

Air Handling Unit (AHU) is a device used to circulate air as part of a heating, ventilating, and Air-Conditioning System. An air handler is usually a large metal box containing a blower along with motor arrangement, cooling and heating coils, different types of filter chambers, and volume control dampers. Air handlers usually connect to duct distribution system that distributes the conditioned air through the building and returns it to the AHU.

HECTRA offers wide range of Air handling units suitable for cleanroom and comfort applications. Air handling units are custom made only. We are offering thermal and non thermal Brake Air handling units also. The AHU panel thickness is available in 50mm and 25mm as per client's requirements

AIRZ TECH SOLUTIONS offers wide range of Handling Units

1. Floor Mounted Air Handling Units
2. Ceiling Suspended Air Handling Units
3. Double Skin Air Handling Units
4. Single Skin Air Handling Units
5. Recirculation Air Handling Units
6. Ventilation Air Handling Units
7. Heat Recovery Ventilator (HRV) Air Handling Units



Features

- The anodized aluminum sections are corrosion free from multiple environments. Aluminum profiles available in thermal brake and non thermal brake
- The in fill material of panels is polyurethane foam up to 38 ± 2 Kg/cum densities. This will give you low heat transfer rate from atmosphere to AHU inside conditioned air. So that power consumption will go down
- Cooling and Heating coils material of construction is copper. This coil withstand for long run
- Available in 50mm and 25mm thick panel construction

Modular Cleanroom Panels

AIRZ TECH SOLUTIONS Modular wall panel system have 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 for 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

1. Wall Panels
2. Ceiling Panels
3. Covings
4. Doors
5. View Glasses
6. Return Raisers

Material Of Construction

- High pressure laminate
- Powder coated/pre-painted
- Stainless steel



Available in infill material of PUF/EPS/Rockwool

Ceiling panels available in walkable and non walkable

Types of panels available: 1. Progressive 2. Non progressive

Modular panel available thickness: 50, 60, 80, 100, 125, 150mm

Modular cleanroom accessories supports the cleanroom by providing control over the contaminations, micro organisms and humidity etc.

Our accessories include Aluminum Powder Coated / Anodized Covings, PVC Covings, 90° and 180° bends and room corner pieces etc. which are designed with CGMP guidelines.

Hermitically sealed Metal Doors

The hermitically sealed metal doors have been specifically designed for the areas where hygiene and the control of air leakage is critical. The doors offered by us are extremely durable & are hermitically sealed for proper air tightness. The door has a unique wrap around frame with a neoprene seal incorporated which enables the door to seal perfectly. Our cleanroom doors are extremely durable and are available in different models for cleanrooms, and other special purposes.

AIRZ TECH SLOUTIONS offers the following types of Doors

1. GI powder coated Metal Doors
2. Stainless Steel (SS) Doors
3. High Pressure Laminated Doors
4. Automatic/ Semi automatic/Sliding Doors
5. Fire Proof Doors

Special features

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



Civil Wall Window and Modular Double Glazed View Panels

AIRZ TECH SLOUTIONS Civil Wall Window Double Glazed View Panels are fit flush with both surfaces of the wall panels system. Each unit constructed with two panels of 3+3 mm double layered and fixed with toughened 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 cleanroom system. It is completely silicone sealed and includes a micro-perforation profile with an integral silica gel moisture absorption system designed to eliminate fogging.



Special Features

- Flush mounted to the walls
- Moisture adsorption facility
- Cleanroom compatible
- Available toughened
- Easily cleanable

Floorings

Airz Tech Solutions Epoxy and PVC Flooring 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 chemical , mechanical and stress factors. The great advantage is that they are hygienic and easy to clean.



Epoxy Flooring



PVC Flooring

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

AIRZ TECH SOLUTIONS offers the following Cleanrooms Equipment

1. Pass Boxes (Pass Thru)
2. Laminar Flow Units (LAFU)
3. Biological Safety Cabinets
4. Sampling and Dispensing Units
5. Air showers

Other Cleanroom Related Products

1. Dress Cabinets
2. Cross over benches
3. Fume Cupboards
4. Lockers etc.,

Pass Boxes (Pass Thru) Our specially designed pass boxes are very well suitable for various industries like Pharmaceutical, Electronic, Bio-Technology, Nanotech industries and Hospitals. The advantage of our Pass Boxes are bacteria free, virus killing applications, indication alarm CE approved interlock systems. So that we have to prevent both doors from being opened at the same time. UV light and CFL light also interlocked with door magnets. If the both doors are in closed condition UV light switch on and CFL in off condition. If any door open CFL will on UV will switch off. For dynamic Pass Boxes laminar air flow arrangement with blower, motor and HEPA filters.

1. Static Pass Boxes
2. Dynamic Pass Boxes
3. Stainless Steel(SS). SS304, Ss316
4. Galvanised Iron (GI) Powder coated

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



AirZ Tech Solutions Laminar Flow Units (LAFU)

A range of Laminar Flow Units are good quality in construction, low level of operating noise and optimum product protection. The unit is easily disassembled and assembled for free movement from one place to other. Air is drawn through a H14 type HEPA filter and blown in a very smooth. Laminar flow units are UV lamps protection for sterilize the interior and contents when not in use. Laminar Flow Units are used at medical, pharmaceutical, electronic and industrial sectors. Laminar flow is only for product protection not for personal protection. Maghenelec Guage/ digital alarm type HEPA filter status arrangement.

AirZ Tech Solutions Range of Laminar Flow Units

1. Vertical Laminar Flow Units
2. Horizontal Laminar Flow Units
3. Stainless Steel(SS).SS304, Ss316
4. Galvanized Iron (GI) Powder Coated

AirZ Tech Solutions 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
- Feather touch On Off screen with indicators



AIRZ TECH SOLUTIONS range of Bio-safety cabinets are good quality in construction, low of operating noise and optimum personnel product and environment protectional from Bio harzards. AIRZ TECH SOLUTIONS offers wide verity of Bio safety cabinets as per industry norms.

AIRZ TECH SLOUTIONS Range of Bio Safety Cabinet

1. Class II, Type A2 BSC CABINETS 2. Class II, Type B2 BSC CABINETS

AIRZ TECH SLOUTIONS 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

We hold expertise in offering a wide range of sampling and dispensing unites. Our designs are with open front containment systems with built-in scavenging arrangement. This unit is designed and made with stainless steel for providing safety to the operator and the surrounding environment. This booth (LAFU Unit) is equipped with a three stage filtration method, for providing excellent efficiency to the customers.

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

Air showers

AIRZ TECH SLOUTIONS Cleanrooms Air ssysytems play vital role in removing surface particles from personnel and material prior to entering and exiting from a controlled environmental area. These Air Showers are installed before the entrance to cleanrooms and other controlled environments perfectly suitable for semi-conductors,pharmaceuticals,spray painting, microelectronics, paint shop and packaging etc.

Features

- 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 99.99% of particles > 0.3 microns from the air 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





AIRZ TECH SOLUTIONS

WISDOM IN EVERY BREATH



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