

Eco Friendly Environment





We Design **Eco Friendly** **Environment** Equipments

AirKlenz Enviro Systems is an Indian based company engaged in manufacturing, supplying and exporting of clean room and laboratory Equipments both in standard and customized designs. we experienced in the industry With more than 7 years, we are highly confident and working with dedication to provide its customers with a high quality standard of laboratory equipments and instruments at economical price.

We introduce our self as a fabricator and manufacturer of Mild steel & Stainless Steel fabrication projects. And every issue we meet on a project is presented with a possible solution not just a potential problem. Airkenz team of dedicated and professionally trained to work force offers the right solution for any problems pertaining to HEPA filtration systems and ultra-clean room systems.

Our enthusiastic efforts in offering HEPA filter calibration & AMC Services, certain call services, installation and validation.

We check HEPA filter integrity test as per IES

certificate recommendation, on the basis of periodic checking of airflow velocity, uniformity, static pressure, DOP test particle count test, etc and undertake service for any make of laminar airflow / HEPA filtration equipment.

We importance on quality and customer service that offers customers find in all aspects of our work.

Our Strengths

*** Some of our strengths that distinguish us from our competitors include.**

*** Experienced team support comprising of experienced engineers, semi skilled personnel, expert technicians, project managers and other industry professionals.**

**Expertise of engineers in designing projects as per the specific application
* needs of the customers.**

**Experienced project managers who help in executing & closely monitoring the
* operation of involved turnkey projects.**

Our Products

for Cleanrooms & Laboratories



Air Shower



BioSafety Cabinet



Fume Hood



Pass Box



Laminar Airflow



Modular Cleanroom



Dispensing Booth



HEPA FILTER



Clean Air Tent



Interlocking System



Air Curtains



Fan Filter Unit

AIR SHOWER

For Clean Room



Features

- > Easy to fix (Install) and operate (Function)
- > Offered in both standard and custom-made configurations
- > All operations are Programmable (Blower On/off, Interlocking, Shower duration)
- > Good manufacturing practice (GMP) / Good laboratory practice (GLP) compliant systems
- > Designed to ensure lowest noise and vibration level is < 60 db
- > Power failure, automatically all doors are unlocked Optional parts
- > Emergency switch for safety purpose inside and outside
- > The user guidelines for US federal standards followed

Air shower chamber are classified for men entry and materials entry it most effective of self-controlled and clearing off dust particles from cleanroom personnel to reduce the cotamination of products or cleanroom equipment.

The air shower mounted at entrance to clean rooms and other sterilized area. It very effectively purification by high efficiency of (HEPA) filtered air reduce the contamination. The dirtied air is purified and re-circulates through pre filters with in the unit.

Industry We Served

- Pharmaceutical Industry
- Biotechnology
- Food & Beverage Industry
- Research & Development Institute
- Automobile Industry
- Life Science
- Electronics & Optics
- Manufacturing & Processing
- Laboratory & Research



BIO SAFETY

For Laboratory



The Biological safety cabinet is designed for product, personal and protection of the environment. Bio safety cabinet is a negative pressure safety device which widely used in microbiology, biomedicine, clinical research, life science, animal experimental, gene recombination and scientific research for biological products, teaching, clinical examination, production and pharmaceutical laboratory.

It adopts advanced air decontamination technology and negative pressure box designing, and it understand the protection of the environs, users and models(sample),furthermost basic safety equipment in laboratory and eco-friendly protection.



Features

- > Even air flow systems are providing firm protection to individual and environment
- > Energy savings high efficiency, low noise level control
- > The user working table for ss 304 grade, easy to cleaning.
- > Body of the cabinet constructed in different material: SS 304, AND GI POWDER COATED
- > Negative pressure for surrounding Working area, it can make sure maximum safety in work zone
- > UV lamp for sterilization
- > Soft touch control panel, and LCD display
- > Negative pressure type vertical laminar flow

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AIR CURTAIN



AirKlenz making a quality of air curtains for all types of industries. Its create a continuous barrier of air over any window, entrance/exit doors, shops, supermarkets, stores, hotels, restaurants, research laboratories, clean room entrance, cargo entrance, reception and hospitals areas and etc.

AirKlenz's Air curtains are perfect technique to obtain a hygienic and dust free environment for any type of environment. The idea behind those air curtains especially for doors is that restricting hot air from coming indoors and they keep (maintain) the perfect room temperature.

Advantages of using

Our air curtains are real nuisance (pest) control system, it helps in regulating the airflow. It also acts as an unlimited barrier against pollution airborne dust and fumes.



Features

- > Creates much more comfortable environment for employees & customers.
- > Saves energy, by keeping the heating or cooling inside the building.
- > Allows easy access through openings, increasing safety.
- > Improves indoor air quality by keeping fumes, insects, and dust out.
- > Air curtains reduced door maintenance.

Industry We Served

Cold Storage Facilities
Restaurants
Warehouse/Distribution Centers
Food Processing Plants
Loading Docks
Supermarkets
Commercial Front Door Entrances
Hospitals
Retail Stores
Bakeries
Fast Food Restaurants
Coolers/Freezers



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PASS BOX

For Clean Room



Dynamic pass box is specifically designed such that the material transfers without much personnel movement. Controlling the entrance of particulate air contamination into the clean room and other controlled environments is supreme in order to continue the integrity of products and processes. Personnel movement is the most important issue which must be controlled.

AirKlenz Dynamic Pass box and material transfer Hatches are very effective solution as they permit materials to be transferred into the clean environment without much personnel movements.

Key Benefits of Pass Box

- Reliable Automated Electromagnetic Interlock system with buzzer indication
- SS 304 grade base surface with corner coving
- Poly carbonate door for both side
- UV light and UV TIMER
- Florescent light



Features

- > Precision designing and finish.
- > High grade stainless steel construction.
- > Choice of mechanical or electrical interlocked.
- > Static and Dynamic Pass Box models.
- > Floor and wall mounted design.
- > Maximum chemical resistance construction.
- > CE and ISO certified.
- > UV light along with hour meter.
- > Magnehelic gauge for measuring pressure drop
- > Low Vibration and Noise
- > Fully custom designed

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FUME HOOD

For Clean Room



Features

- > All local ventilation systems (devices) are designed to three primary goals
- > To protect the user from inhaling toxic fumes (fume hoods, glove boxes, biosafety cabinets)
- > To protect the product or testing (experiment) (glove boxes and biological safety cabinets)
- > To protect the atmosphere (recirculating fume hoods, biological safety cabinets, the exhaust airstream)

AirKlenz's Fume hoods naturally protect only the user, and are maximum commonly used in laboratories where noxious chemicals or hazardous are released research development, during testing, practicing and also used in industrial applications or other activities where noxious vapors or gases or hazardous or dusts are generated or released. Inspection of Fume Hoods should be inspected in accordance with the American Society of Engineers (ASHRAE 110) to certify proper control and ASHRAE 110 means quantifying containment performance.

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LAMINAR AIRFLOW

For Laboratory



Features

- > Microbiological manipulations
- > Bio-assays and sterility testing
- > Bio clean protection for semi-automatic vial filling and bunging operations in parenteral production, hospitals, pathological laboratories, microelectronics, optics, food and beverage, agriculture, animal husbandry, avionics and biotechnology
- > Dry processing of electronics, electronic integration and micro feature assembly or, for automatic filling lines in parenteral production
- > Microbiological labs or other research

We are engaged in offering our prestigious clients a very highly premium quality range of Laminar Flow Benches. Our range are highly appreciated by the clients and are huge in demand across the nation. Our range is available at market's most leading price.

Advantages of vertical laminar flow cabinet:

- > Air-Stream is not directed at the operator causing less stress over
- > Larger pieces of equipment cause less
- > Larger working area

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MODULAR CLEANROOM

For Laboratory



A cleanroom or clean room is an environment, typically used in manufacturing or scientific research, with a low level of environmental pollutants such as dust, airborne microbes, aerosol particles, and chemical vapors.

Hardwall Cleanroom Interior to encounter the critical requirements of the Microelectronics industries and Aerospace we proposal aluminum composite wall panels that are, non-particle shedding, anti-static and non-out gassing. This system also has a non-progressive design for easy alteration and adjustments.

The structure or system will be considered to your specific configuration and cleanliness requirements, ranging from ISO Class 4 (Class 10) with improvements such as raised, flush mounted window, floor, door frames and ULPA filters to ISO Class 8 (Class 100,000) that encounter your basic cleanliness requirements.

Features

- > The hardwall cleanroom assembly is an easy method and most projects can be assembled by four or five people.
- > Fully scalable: Start with a small room and expand to virtually any size simply by adding components.
- > Can be used for partitions in existing cleanrooms, save valuable production time by installing clean partition in an operating cleanroom.
- > Virtually any configuration can be designed including pass-through sliding doors, windows, interlocks, and more.

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Dispensing Booth

For Laboratory



Sampling booth / Dispensing booth is purifying apparatus. Unidirectional vertical laminar flow Class ISO5 (Class100).

The Raw materials and compounds are refilling, weighing, filling, and sampling. It is provided with high efficiency HEPA filter, which averts the airborne dusts by down flow of air technique. The unit eliminates powder contamination to protect the operator and the surrounding environment.

Dispensing booth removes powder contamination in order to protect the operator (user) and the nearby environment and is used for weighing, mixing and dispensing of powder. The sampling / dispensing booth is the re-circulation of air principle.



Features

- > Lockable castors wheel on all legs
- > Easy to transport to one area to another area
- > Sample Ready to within 2 minutes of start up
- > Air changes per hour- Over 600
- > Easy Installation & Portable



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Clean Room Door

For Cleanroom Interior



Features

- > Designed to meet hygienic and stringent requirement of clean rooms
- > Made for Cleanroom Interior Applications
- > Can be Single/Double leaf door
- > Customized as per requirement
- > Acoustic
- > No Pressure Leakage
- > Prevents Bacteria Growth
- > Flush Surface, Easy to Clean



AirKlenz Clean room doors are well suited to clean room isolation environment. Clean room doors provide high air-tightness and controls the inside pressure.

Our clean room doors ensures very low air loss and minimize air exchange, which results in increased clean room cost-effectiveness.

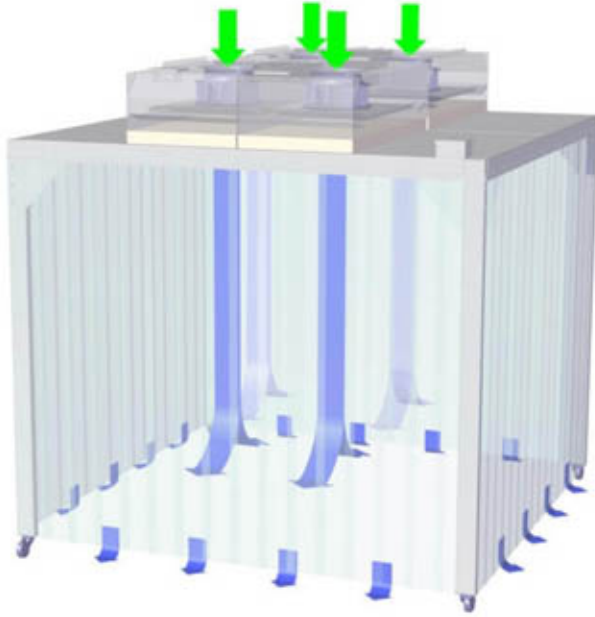
Industry We Served

Pharmaceuticals & healthcare
Drug & Medicine manufacturing
Electronic
Semi-conductor
Wafer-fab
Telecommunication
Netscape
Defence
Food processing



Clean Air Tent

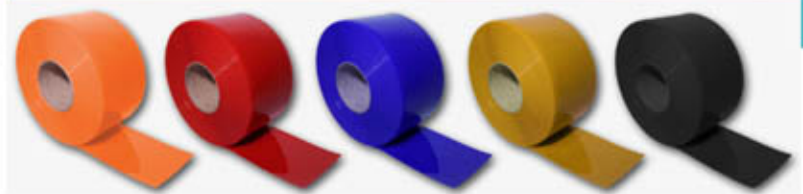
For Laboratory



The Clean Air Tent is a laminar air flow type of equipment's that provides the local dust free (clean) environments. It will create controlled environments for the service of instrumentation, lasers, components sensors and other sensitive equipments. For the service engineer generally it will be a major difficult because the necessary environmental conditions at the customer's end are insufficient i.e. regularly a clean room is not available. In that peculiar situation the service can be carried out only at the manufacturer end. To avoid this expense the portable and dismountable clean air tent has been developed for the Pharmaceutical, Electronics, Food, Semiconductor, Nanotechnology Biotechnology and other industries. It is also most Economical and Flexible, they may be easily movable and relocated when application requirements change.

Features

- > All operations are Programmable (Blower On/off, Interlocking, Shower duration)
- > Good manufacturing practice (GMP) / Good laboratory practice (GLP) compliant systems
- > Designed to ensure lowest noise and vibration level is < 60 db
- > Power failure, automatically all doors are unlocked Optional parts
- > Emergency switch for safety purpose inside and outside



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Fan Filter Units For Cleanroom



Fan Filter Units draw air in through a top-mounted prefilter and blow air out the other side through a HEPA or ULPA filter into a cleanroom. They are often installed in a ceiling grid system but can also be mounted on a support frame or suspended from a support structure.

Features

- Quiet operation - high-efficiency sound-absorbing foam liners and motors mounted with vibration isolators
- Non-ducted modules are ETL certified to UL507 standard
- Ducted modules are ETL certified to UL1995 standard (with optional plenum rated polymer foam insulation)
- Replaceable HEPA (99.99% efficiency on 0.3 um particles) filter requires access above ceiling Expanded metal mesh screen protects filter media.
- Largest active filter area
- Filter face is PSL Tested post-assembly



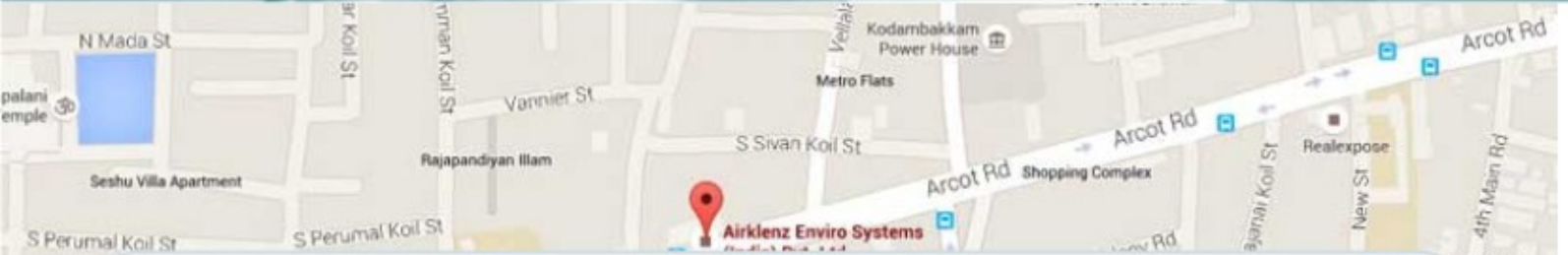
ECM technology is an available option on all Fan filter units. Key benefits of these motors include:

- > Lower energy use
- > Lower operating temperatures
- > Programmed to deliver constant air volume, independent of filter condition

Industry We Served

Softwall Modular Clean Room
Pharmaceuticals & healthcare
Drug & Medicine manufacturing
Electronic
Semi-conductor
Wafer-fab
Telecommunication
Netscape
Defence
Food processing
Research Institutions





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