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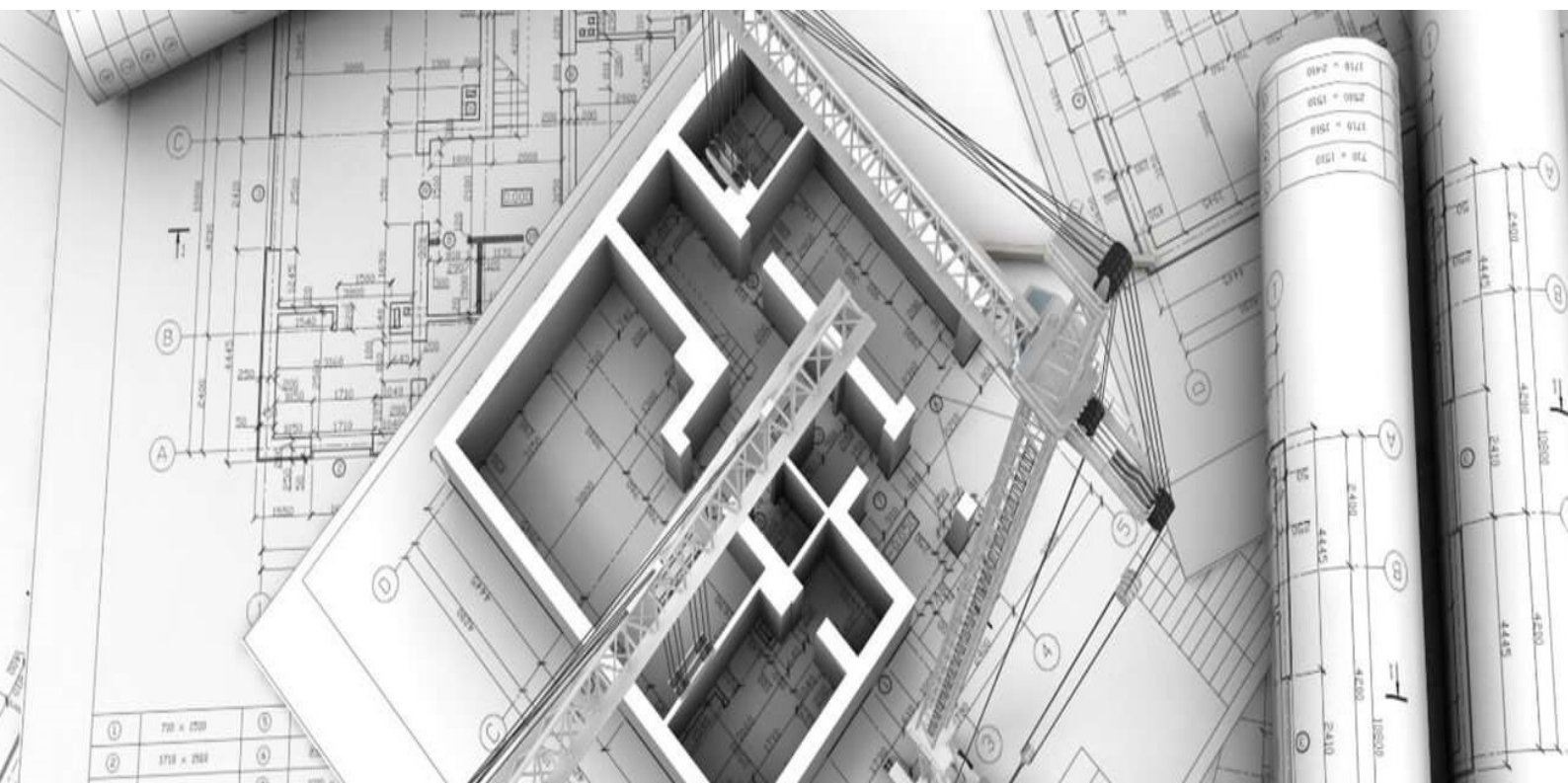
About us

Alcon Cleanroom is young vibrant Cleanroom solution Provider Company engaged in Engineering, Consulting and Execution majorly for Pharmaceuticals, Healthcare, FMCG, Biotechnology, Chemicals, R&D Centre and Automobile which today have an increasing demand for Turnkey Cleanroom Solution across the world.



What We Do

We provide Turnkey Cleanroom Solutions in terms of Design, Manufacture, Supply, Install, Commission and Validation of all the classes of Cleanroom. We are a single window solution provider for Cleanroom comprising of Cleanroom Partitions, Doors, Cleanroom Equipment, Lab Furniture, HVAC, Electrical, Lighting, Building Automation System, Plumbing, Fire Alarm & Suppression etc. along with the validation of facilities as per the required standards.



Industries We Serve



Pharmaceuticals



Healthcare



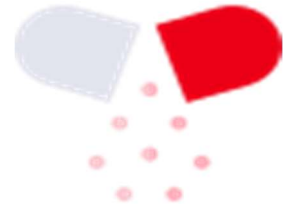
FMCG



Chemical



Biotech



API (Active Pharma Ingredients)



Laboratories



Medical Devices



Electronics

"Excellence and Innovation built into every design"

PRODUCT AND SERVICES

HVAC System

In Pharmaceutical manufacturing, how space conditions impact the product being made is of primary importance. Worldwide the pharmaceutical facilities are closely supervised by the food and drug administration (FDA), this requires manufacturing companies to conform to cGMP (current Good Manufacturing Practices). These regulations, which have the force of law, require that manufacturers, processors, and packagers of drugs to take proactive steps to ensure that their products are safe. HVAC system plays a major role in this.



Air Handling Unit



DX System



Chillers



HEPA Filters

HVAC system executes four important functions -

- Control airborne particles, dust and micro-organisms through air filtration using high efficiency particulate air (HEPA) filters.
- Maintain room pressure in areas that must remain "cleaner" than surrounding.
- Maintain space moisture (Relative Humidity).
- Maintain space temperature which can affect production directly or indirectly.

Optimized Systems -

- Heating ventilation & air-conditioning system is the major energy consuming part in pharmaceutical manufacturing. More than 50% of input energy is consumed by HVAC system of the building. Our experienced engineers design the systems to achieve maximum power efficiencies without diluting on guidelines.
- Maintain room pressure in areas that must remain "cleaner" than surrounding.
- Maintain space moisture (Relative Humidity).
- Maintain space temperature which can affect production directly or indirectly.



Air Distribution System

Pre insulated / GI Ducting



Dehumidifier

Cleanroom Partition Systems

Speed to market, flexibility and maintaining a dust free environment during construction phase and later, is critical for almost all manufacturing companies, and it's particularly important for the pharmaceutical and biopharmaceutical industries, that's where Modular Cleanroom Panels play an important role.

Specification

- Thin & light weight construction
- Wide variety of filler PUF / PIR / ROCK WOOL / HONEYCOMB PAPER CRAFT
- Wide variety of Surface material PCGI / PPGI / AL / S.S. / Laminates
- Available in Thickness 30mm / 50mm / 80mm / 100mm
- Progressive and Non-Progressive
- Doors compatible with panel materials
- Excellent insulating property
- Less joints as compared to any other system of panel design
- Design engineering and installation support
- Easy cleaning & maintenance
- Panels can easily be re-locatable or dismantled
- Inbuilt return air riser
- Concealed electrical fittings
- Double flush glazing with 5mm toughened glass on both sides





Emergency Door FLP Type



Double glazed window panel



Cleanroom panel work



Cleanroom panel work



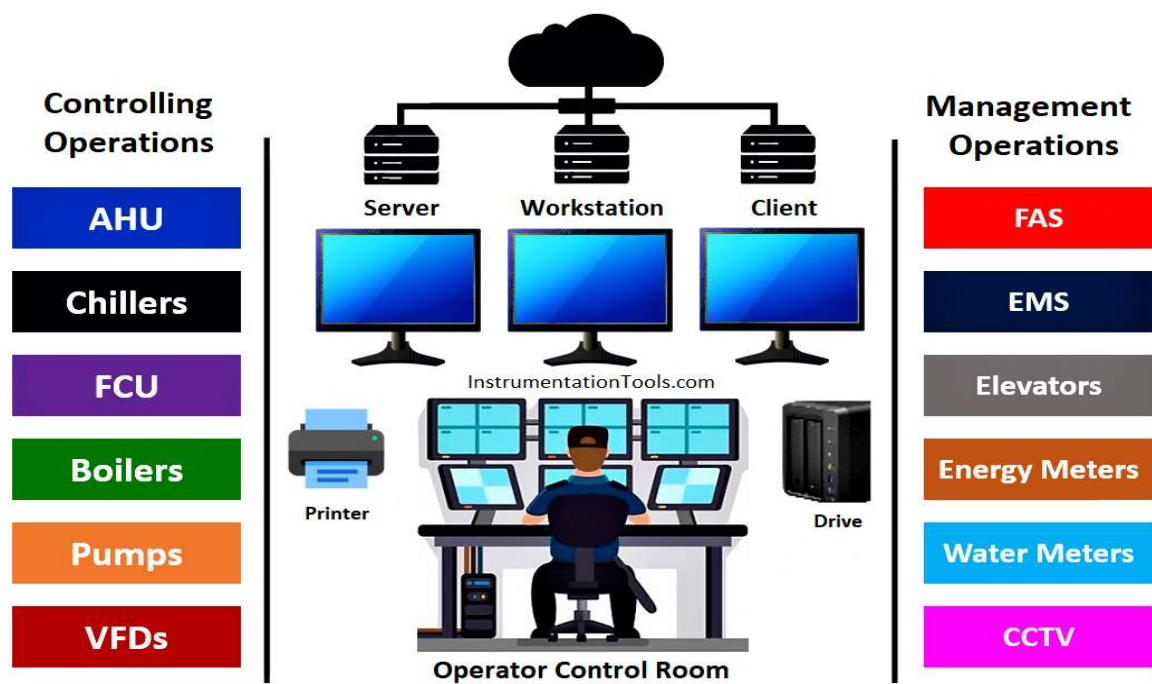
HPL (high pressure laminated panel)



GMP double & single door

BMS & Electrical System

From Transformers, Generators To smallest voltages, we provide end to end electrical solutions. We design customized electrical system considering specific project requirements along with compliance to relevant international codes. We take into account fundamental principles of energy conservation and safety current, fault current over voltage.





PLC



ACTUATER



SENSOR AND WALL



WALL WITH ACTUATER



TRH SENSOR



DAMPER ACTUATER



FLP TRH



HMI



DIGITAL MAGNEHALIC GAUGE



DIGITAL CLEANROOM MONIT

Flooring

The pharmaceutical industry is on the cutting edge of scientific progress and research, working around the clock to develop, test, and produce medications and treatments that improve the health outcomes and quality of life for patients across the globe. As pharmaceuticals are such a sensitive and precise science, great care must be taken to ensure that every aspect of the facilities involved, at every step in the process, is designed to protect cleanliness and avoid the risk of contamination. The floor coatings of organizations manufacturing medicinal drugs should manage to oppose most oils, solvents, and acids. Also, the coating should be resistant to scrape and impact since the plant's floors can easily be exposed to heavy traffic from robust tools and machinery.



Types of Flooring:

- Epoxy Flooring

In a nutshell, epoxy flooring is a type of synthetic resin floor system that is laid on top of concrete substrates as a **form of protection and decoration**. The systems can comprise of several layers of thermosetting resin that are coated, trowelled or poured, and generally applied onto a concrete substrate.



• PU Flooring

Polyurethane floors are practical and beautiful, therefore mainly used in private houses. In comparison to epoxy floors they are much better suited for under floor heating, a common technique in modern houses and kitchens. In addition, this floor can be applied over most existing floors.



• Vinyl Flooring

Vinyl has long-lasting, sturdy, safe, shock-absorbing materials. Wherein they reduce noise and are comfortable to walk and run on. Even with hectic 24 hours busy days, vinyl flooring will still perform well. Hospitals too need regular cleaning, but other floorings are unsuitable for thorough maintenance.



Validation Services

Validation is the process of establishing documentary evidence demonstrating that a procedure, process, or activity carried out in testing and then production maintains the desired level of compliance at all stages thereby ensuring product quality at all times. In the pharmaceutical industry, it is very important that in addition to final testing and compliance of products, it is also assured that the process will consistently produce the expected results.



We have well documented systems & SOPs for various stages of the projects – design, engineering, Installation, FQPs etc. to take care of stringent documentation needs also – Design Qualification (DQ), Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification (PQ), systematically & logically. Our in-house dedicated well-equipped teams take care of validation services as per ISO 14644 or other relevant standards to meet the regulatory needs of USFDA or UKMHRA or MCC or as the case may be.

Clean room Validation Tests include -

- ACPH Test
- Pressure Difference Test
- HEPA or ULPA Filter Integrity Test / Efficiency Test (Pao Test)
- Particle Counts (Concentration of Airborne)
- Particles (Non – Viable Particle Count) Recovery Test
- Shoot off Test
- Air Flow Pattern Test
- Temperature and Humidity Measurements
- Measurement of Noise – Sound Pressure Level

Cleanroom Equipments

Cleanroom Equipment restricts cross contamination, provide a safe and comfortable position for the operator and most importantly ensure that the Clean room system maintains its parameters.

Dynamic Pass Box

In pharmaceuticals manufacturing facilities, it is essential to minimize man / material movement and avoid cross contamination between different classified areas to achieve desired classification and to maintain integrity of products and processes. Pass Box is designed to allow material transfer without much personnel movement. It also aids controlling ingress of particulate contaminants into clean room and between different classified areas.



Static Pass Box

Static pass box is specifically designed for material transfer within same Cleanroom classification without much personnel movement.

Available in 48 stainless steel finish with SS 304 & SS 316 material.

Flush double walled construction with internal coving.

Flush doors with double walled flush glass view panels.

Electro-magnetic / mechanical interlocking
Feather touch door release switch on either side.

Type of Static Pass Box

NON- Flameproof / Flameproof type

Straight entry & Exit type, L type & 3 way 'T' type



Airtight pass hatch

Airtight Pass hatch is specifically designed that aids in the material transfer without personnel movement inside a Cleanroom. The airtight mechanism avoids air leakage during material transfer within same classified areas.

Available in 4B stainless steel finish with SS 304 & SS 316 material

Heavy duty radial hinges for glass doors
High durability & high strength toggle lock
Food grade D type gasket embedded in toughened glass doors

Type of Airtight Pass Box

NON- Flameproof / Flameproof type

Straight entry & Exit type, L type & 3 way 'T' type



Negative Sink Dynamic Pass Box

Negative Sink Dynamic Pass Box facilitates the seamless transfer of materials in potent areas. It is equipped with Independent Exhaust System connected to BIBO System, Airtight Glass Doors, and Push-to-talk Intercom ensuring safety of the controlled critical areas.

Available in 4B Stainless Steel Finish with SS 304 & SS 316 Material

Electro-Magnetic / Mechanical Interlocking
Exhaust Air Flow through Circular / Rectangular duct.

Available with and without filtration system
Integrated with intercom device for communication between two rooms

Horizontal LAF Workstation

Horizontal LAF Workstations are designed to supply high precision worktables with a continuous horizontally directed flow of class 100 clean air to maintain a work table that is free from particles providing the product protection.

Available in powder coated & stainless steel SS 304 / SS 316 / SS 316 L Material

Air cleanliness: ISO Class 5 with Air

Velocities: 100 $\pm$ 20 FPM

Digital control Panel with Inbuilt Hour

Meter and LED Display

Air flow Direction: Horizontal – Re-circulatory

Supply Filter: HEPA Filter – H14- Efficiency-

99.997% down to 0.3 micron

Application: Microbiology / Product Testing Laboratory

Available in Flameproof / ATEX Proof Type with all FLP Electrical



Vertical LAF Workstation

Vertical LAF Workstations are designed to supply high precision worktables with a continuous vertical downward flow of class 100 clean air to maintain a work table that is free from particles providing the product protection.

Available in powder coated & stainless steel SS 304 / SS 316 / SS 316 L Material

Air cleanliness: ISO Class 5 with Air

Velocities: 100 $\pm$ 20 FPM

Digital control Panel with Inbuilt Hour Meter and LED Display

Air flow Direction: Vertically Downwards – Re-circulatory

Supply Filter: HEPA Filter – H14- Efficiency- 99.997% down to 0.3 micron

Available in Flameproof / ATEX Proof Type with all FLP Electrical

Vertical LAF Unit

Vertical LAF is designed to create area supplied with a continuous flow of air to maintain a work environment that is free from particles.

Available in stainless steel SS 304 / SS 316 / SS 316 L Material

Air cleanliness: ISO Class 5 with Air Velocities: 90 $\pm$ 20% FPM

Air flow Direction: Vertically Downwards – Re-circulatory

Supply Filter: HEPA Filter – H14- Efficiency- 99.997% down to 0.3 micron

Available in Flameproof / ATEX Proof Type with all FLP Electrical

Type of Vertical LAF Unit

Ceiling hanged, Stand Mounted with wheels & Machine Mounted



Mobile LAF Trolley

Mobile LAF is designed for transporting sterile products under ISO class 5 (Class 100) practical free work area. The work area is continuously supplied with positive pressure HEPA filtered air flow.

Available in stainless steel SS 304 / SS 316 / SS 316 L Material

Air cleanliness: ISO Class 5 with Air Velocities: 90 $\pm$ 20% FPM

Air flow Direction: Vertically Downwards & Horizontally – Re-circulatory

Supply Filter: HEPA Filter – H14- Efficiency- 99.997% down to 0.3 micron

SS 304 Handles with Lockable Castor wheels for easy movement

UPS System with battery for power backup of 60 minutes

Reverse LAF Booth

RALF is designed to provide high level of protection from airborne contaminants generated during powder handling operations such as sampling & dispensing. It provides Operator, Product & Environment Protection.

Available in Powder Coated Steel and Stainless Steel Finish
Air cleanliness : ISO Class 5 with Air Velocity : 90 ± 20 % FPM
Audio Visual Alarms using Digital Differential Pressure Gauge
Supply HEPA Filter - H14 – Efficiency – 99.997% down to 0.3 micron
Available in Flameproof / ATEX Proof Type with all FLP Electrical

Type 1 : Booth for large batches & workstations for smaller batches

Type 2 : Downflow Booth with 100 % Exhaust & RABS



Bio Safety Cabinet

(BSC) is designed to provide personnel, environment and product protection during critical material handling process.

Type of bio safety cabinet

Class II: There are more difference like divided into four types A1, A2, B1 & B2

Class III: It's also known as glove box & offers maximum protection

Available in powder coated steel and stainless steel finish

Air cleanliness: ISO Class 5 with Air Velocities: 90 ± 20 % FPM

Air flow Type: Re-circulatory OR 100% Exhaust with bag in / out arrangement

Supply Filter: HEPA Filter – H14- Efficiency- 99.997% down to 0.3 micron

Available in Flameproof / ATEX Proof Type with all FLP Electricals

De-dusting Tunnel

De-dusting Tunnel is designed to effectively remove dust and particles from materials entering controlled environments making it ideal for use in pharmaceutical and other sensitive manufacturing facilities.

Available in stainless steel SS 304 / SS 316 / SS 316 L Material

Air Velocities: 4000±20% FPM

Motorized Conveyor with Brushing System & SS 304 Nozzles

Air Flow: Vertically Downward & Horizontally – Re-circulatory

PLC Controller & Sensor for Controlled operation of the unit

Accessories like Dust Controller Tray, Vinyl Curtains, and Emergency Switches



Air Shower

Air shower is a self-contained air chamber installed at the entrance to Cleanroom in order to minimize the amount of particulate contaminants entering the Cleanroom. Personnel move through the air shower while particulate contaminants are washed off with high velocity HEPA-filtered air jets. The high air velocity of 6000 FPM ensures efficient scrubbing action necessary to remove particulate matter. Contaminated air is then taken in through the base of the unit, filtered, and re-circulated into the chamber.

Mist Shower

Mist Shower is a chamber installed at exit of Cleanroom to showering Mist (Air + Water) over the gown of a person and thus providing protection during de-gowning process in potent drug manufacturing areas.

Available in powder coated steel and stainless steel finish

Vertically + horizontally misting through ultrasonic nozzles

PLC Controller with waterproof electronic & electrical

Inbuilt high pressurized water and air system with programmable logic

Pass chute for sterile Garment transfer after De-gowning.

Mist Shower + Air Shower as combined option available with BIBO Exhaust

Available in Flameproof / ATEX Type with all FLP Electricals



Fume Hood

Fume Hood is a type of local ventilation device that is designed to limit environmental exposure to hazardous or toxic fumes, vapors or ducts.

The principle of Fume Hood is that the Air with fumes is drawn in from the front (open) side of the cabinets, and either expelled outside the building.

Available in Powder Coated Steel and Stainless Steel Finish Durable and chemical-resistant construction with PP / FRP linings Digital Control Panel with LED Display & Electrical Raceway Exhaust Chimney with weather cowl, bends flanges, brackets etc.

Ducting : FRP duct pipe with suitable elbows & FRP Dampers High Flow Capacity Exhaust FRP Blowers for drawing out the fumes efficiently Available in Flameproof / ATEX Proof Type with all FLP Electricals.

Laminar Air Flow Unit

LAF is designed for offering highest product protection for samples and processes by providing ISO class 5 particle free work station. LAF offers proven protection for samples and processes. The work station is continuously supplied with positive pressure HEPA filtered vertical air flow. The vertical unidirectional airflow speed prevents contamination from operator and environment to work station. The laminarity of the flow prevents cross contamination between the items handled in the working space. LAF is available in powder coated G.I steel, S.S.316, S.S.316 L or a combination of both.



Cleanroom Clothing

People who work in Cleanroom undergo extensive training to maintain the cleaning standards. They enter and exit the Cleanroom through by wearing special clothes designed to trap contaminants which are shed by the bodies of people working in the clean rooms. Depending on the complexity & classification of clean room, clean room clothing could be as extensive as fully covered in multiple layered dresses with self-contained breathing apparatus. Cleanroom clothing is used to prevent microbes, particles from being released off the wearer's body and contaminating the environment. The Cleanroom clothing must not release any kind of particles or fibers to prevent contamination of the environment. So much so is the importance of clean room clothing, that in case if the same is not being maintain, it can certainly degrade the performance of semiconductors and can lead to cross infection between patients and healthy people in Pharmaceuticals or Medical Industries.

Laboratory Modular Furniture

Modular Laboratory Furniture modules- the perfect solution for creating a functional and efficient laboratory space.

Our modular furniture modules are designed to meet the specific needs of pharmaceutical and biotechnology laboratories, providing a seamless integration of functionality, durability and aesthetics.

Whether you need a fume hood, workbench, storage cabinet, or a combination of these, our modular furniture modules can be configured to maximize your laboratory's productivity and organization.



Sterile Garment Cabinet

Garment Storage Cabinet is designed to provide Class 100 particle free work area to meet storage needs for sterile garment which avoids any particulate accumulation. An integral HEPA filter and blower assembly provides a continuous wash of heated class 100 air over the garments.

Available in Powder Coated Steel and Stainless Steel Finish Air cleanliness: ISO Class 5 with Air Velocity: 90 ± 20 % FPM H-14 HEPA Filter with Efficiency- 99.995% down to 0.3 micron Inbuilt heater with thermostat for storing sterile garment at certain temperature PU Caster wheels for easy movement of the unit SS 304 Hanging Arrangement / ATEX Proof Type with all FLP Electricals.

Cleanroom Steel Furniture

Cleanrooms require specialized furniture that does not shed particles. You can rely on Pharmintech to supply the CLEANROOM furniture you need.

Our Cleanroom SS Furniture range includes Stainless Steel Cross Over benches. Tables & Chairs

- Cleanroom Trolleys, Step ladders, Garment Storage Cabinets
- Working Tables, Computer Tables, QA tables with LED Lights for inspection
- Carts, Shelves, Storage Lockers, Stools, Drum Trolleys, Racks
- Cross Over Benches, Trays, mopping Trolleys, Bins, Sinks etc.



STORAGE CUPBOARDS / CABINETS

The design of the Work Tables are made to fit in any kind of and any shape of Laboratory to give maximum flexibility and utility.

The Tables are made of High Grade Electro Galvanized Steel of 20 SWG finished with Epoxy Polyester Powder Coating finish with high quality Granite work Tops.

OPTION: Imported Epoxy Work Tops.

Work / Wall Table width are normally 750mm or 900mm with height of 750mm or 900mm. Options of with Knee Hole and foot rest or Continuous Modules are available.

Lab Equipments

The reliable partner for critical research.

HPLC (Shimadzu)

High-Performance Liquid Chromatography (HPLC) is used for separating, identifying, and quantifying components in liquid samples. Shimadzu's HPLC system offers high precision, reproducibility, and sensitivity, suitable for pharmaceutical, chemical, and food testing applications. It uses high-pressure pumps to push the mobile phase through the column for accurate separations.



GC (Shimadzu)

Gas Chromatography (GC) is an analytical instrument used to separate and analyze volatile compounds in a sample. Shimadzu GC provides high-resolution, fast, and accurate results, widely used in environmental analysis, food testing, and chemical research. It relies on vaporizing the sample and carrying it through a column by an inert gas.

FLUOROMETER (Anton)

Fluorometers measure the fluorescence emitted by a sample when exposed to light, detecting specific molecules with high sensitivity. Anton fluorometers are used in molecular biology, environmental testing, and chemical analysis. They allow rapid quantitative and qualitative analysis of fluorescent compounds.



Real-Time PCR (Cole Parmer)

Real-Time PCR quantifies DNA or RNA in samples with high sensitivity using fluorescence-based detection. Cole Parmer systems provide rapid, accurate, and reproducible results for molecular biology, diagnostics, and pathogen detection. It allows monitoring of amplification in real time.

UV Spectrophotometer (Shimadzu)

A UV Spectrophotometer measures the absorbance of ultraviolet and visible light by a sample. Shimadzu's UV systems provide accurate, reproducible results for nucleic acids, proteins, and chemical compounds. It's widely used in pharmaceuticals, biotech, and research labs for qualitative and quantitative analysis.



Density Meter (Anton)

A density meter determines the precise density of liquids and solutions. Anton density meters are highly accurate, fast, and easy to use, applicable in quality control, chemical, and pharmaceutical laboratories. They provide reliable data for formulation and concentration measurements.



Polarimeter (Anton)

A polarimeter measures the angle of rotation caused by optically active substances in a solution. Anton polarimeters are used in pharmaceutical, sugar, and chemical industries for purity and concentration determination. They provide accurate, reproducible readings with user-friendly interfaces.



PCR (Thermo)

Polymerase Chain Reaction (PCR) amplifies specific DNA sequences for research, diagnostics, and forensic applications. Thermo PCR instruments offer high accuracy, efficiency, and programmable protocols. They are fundamental tools in molecular biology laboratories.

Refractometer (Anton)

A refractometer measures the refractive index of liquids or solids to determine concentration or purity. Anton refractometers are precise and widely used in pharmaceuticals, food, and chemical laboratories. They are simple to operate and provide rapid measurements.



Microscope

Microscopes allow detailed observation of microscopic structures in biological, chemical, and material samples. Modern lab microscopes provide high-resolution imaging, multiple magnification levels, and advanced illumination. They are essential for research, diagnostics, and quality control.



Rheometer (Anton)

A rheometer measures the flow and deformation behavior of liquids and semi-solids. Anton rheometers are used in pharmaceutical, cosmetic, and food industries for viscosity and texture analysis. They provide accurate, reproducible data on material properties.



LCMS/MS (Shimadzu)

Liquid Chromatography-Mass Spectrometry (LCMS/MS) combines liquid separation with mass analysis. Shimadzu's LCMS/MS system provides highly sensitive and specific detection of complex compounds in pharmaceuticals, environmental, and biological samples. It's ideal for trace analysis and metabolite identification.

FAAS (Shimadzu)

Flame Atomic Absorption Spectroscopy (FAAS) measures the concentration of metals in liquid samples. Shimadzu FAAS provides high sensitivity and precise metal detection in environmental, food, and pharmaceutical applications. It uses a flame to atomize the sample and measure light absorption by metal atoms.



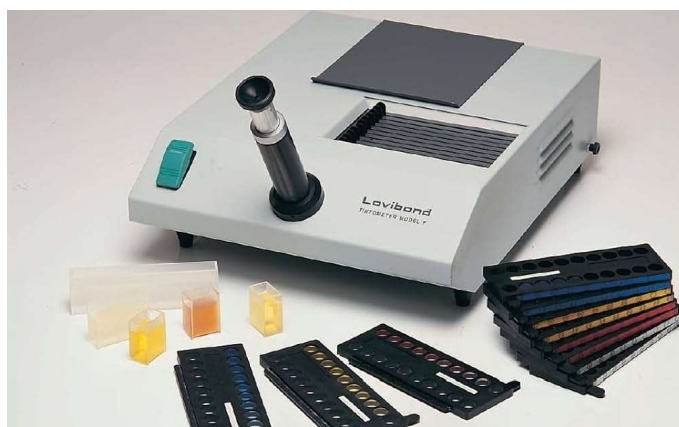
Homogenizer (Rimi)

A homogenizer is used to create uniform mixtures by reducing particle size in liquids or semi-solids. Rimi homogenizers are widely applied in pharmaceuticals, cosmetics, and food industries. They improve texture, consistency, and stability of formulations.



KF Titrator (Lab India)

Karl Fischer (KF) titrators accurately measure water content in liquids, solids, or powders. Lab India's KF titrators provide precise and reproducible moisture determination for pharmaceuticals, chemicals, and oils. They are essential for quality control and compliance.



Tintometer (Lovibond)

A Tintometer measures color in liquids, powders, and solids for quality and consistency. Lovibond systems are widely used in food, chemical, and pharmaceutical industries. They provide precise color matching, standardization, and reporting.

Fire Hydrant System

A Fire Hydrant System is a critical component of a building's fire protection infrastructure, designed to provide a reliable water supply for firefighting in case of emergencies. It consists of a network of underground and/or above-ground water pipes connected to one or more water sources, such as municipal supply or storage tanks. The system typically includes fire hydrants, hoses, valves, and pumps, enabling firefighters to quickly access high-pressure water to control and extinguish fires.

Overall, a fire hydrant system is an essential life-saving and property-protecting solution in commercial, industrial, and residential complexes, ensuring rapid firefighting capabilities and compliance with local fire safety regulations.

- Provides a reliable water supply for firefighting to protect life and property.
- Consists of fire hydrants, water pipes, valves, fire hoses, nozzles, and fire pumps.
- Hydrants are strategically placed indoors and outdoors for easy access.
- Fire pumps maintain adequate water pressure, especially in high-rise buildings or areas with low pressure.
- Regular inspection ensures hoses, nozzles, valves, and pipes are functional and leak-free.
- Complies with local fire safety codes and regulations for emergency readiness.
- Enables rapid firefighting, minimizing property damage and risks to human life.



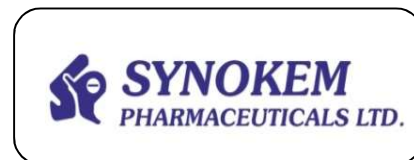
Fire Alarm System

A Fire Alarm System is an essential safety system designed to detect and alert occupants about the presence of fire or smoke. It helps in minimizing damage to property and ensures the safety of people by providing early warnings. The system typically consists of smoke detectors, heat detectors, manual call points, alarm bells, and control panels. Modern systems can integrate with sprinklers, emergency lighting, and building management systems. Timely detection allows for quick evacuation and emergency response. Fire alarm systems are a crucial part of fire safety compliance in commercial, industrial, and residential buildings.

- Detects smoke, heat, or flames and triggers alarms immediately.
- Includes control panels, detectors, manual call points, and alarms for comprehensive coverage.
- Provides early warning to occupants for safe evacuation.
- Can integrate with sprinklers, emergency lighting, and other safety systems.
- Regular maintenance ensures reliability during emergencies.



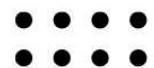
Our Prestigious Clients



NEEUPURE PHARMA



ALCON CLEANROOM



"Excellence and Innovation built
into every design"

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