

PRTECH[®]

AIR SYSTEMS PVT. LTD.

Better Air is our Business...



About Us

Respected Sir,

We take the pleasure of introducing ourselves as one of the best quality complete solution provider of AIR FILTRATION technology. We PROTECH is established in the year 2016, we undertake the turn-key job for the AIR FILTRATION PRODUCT for DESIGN to meet the customer requirements according to the international standard. these products are widely acclaimed at Pharmaceutical, Lab, Hospital, Hotel etc.

“PROTECH” main concept to provide the best solution for AIR FILTRATION product and service for mainly OPERATION THEATER/ CLEAN ROOM / COMFORT AIR / PROCESSING AIR TREATMENT while contributing to something essential to everyone CLEAN AIR.

"PROTECH" are manufacturing as one of Top Quality Clean Air Equipment. These include Laminar Flow benches, RLAf, Pass Box, Bio safety cabinet, Air shower, Dust collector, fume hood, AHU, etc.

CLEAN AIR benefits human health and well being safety production and operating reliability. As the leader in AIR FILTRATION TECHNOLOGY we realize this concept by:

- Providing the best air filtration products, systems and solutions to protect people, processes and the environment in local, regional and global markets.
- Providing the best customer support and service in the industry, including leading edge knowledge for any air filtration application.

We are sure you will appreciate our products and we look forward to more opportunities and long term association with your esteemed organization. Please contact to the undersigned for any further assistance.

Regards,

PROTECH AIR SYSTEMS PVT. LTD.
Ahmedabad.

“PROTECH” LAMINAR AIR FLOW BENCH (VERTICAL / HORIZONTAL)

Technical Specification :

- Air Cleanliness : ISO Class 5 / Class 100
- Air Velocity : 0.45 ± 0.05 mps (90 ± 20 FPM)
- Air Flow : Horizontal / Vertical
- Power Supply : 230V AC , 1-Ø, 50Hz
- EU5 – Intermediate Filter (95% down to 5 Micron)
- EU14 – Hepa Filter – (99.999% down to 0.3 Micron)
- Statically & Dynamically Balanced Motor – Blower with isolate to reduce noise level
- Fluorescent lights with white diffuser
- Differential Pressure Gauge
- On / Off Operating Electronic Circuit (BL/FL/UV)
- Auxiliary Power Socket : 5/15 amp for for Equipment.
- DOP port
- DQ, IQ, OQ, PQ Documentation



“PROTECH” SAMPLING / DISPENSING BOOTH

The Unit eliminates powder contamination to protect the operator and the surrounding environment. It is designed to handle powder under aseptic conditions for optional G.M.P.



Technical Specification :

- Air Cleanliness : ISO class 5 / class 100
- Air Velocity : 0.45 ± 0.05 mps (90 ± 20 FPM)
- Air Flow : Vertical
- Noise level : less than 65db
- Vibration level : Minimum
- Power Supply : 230V AC, 1-Ø, 50HZ
- MOC : SS-304 / SS-316 / Powder Coated
- Three Stage Filtration
- EU4 - Pre Filter (90% down to 10 Micron)
- EU7 - Intermediate Filter (95% down to 3 Micron)
- EU14- HEPA Filter- (99.999% down to 0.3 Micron)
- Differential Pressure Gauge
- On / Off Operating Electronic Circuit (BL/FL/UV)
- DOP Port
- DQ, IQ, OQ, PQ, Documentation

“PROTECH” DYNAMIC PASS BOX AND STATIC PASS BOX

Dynamic Pass Boxes are designed in conformation to the international standards and are used for transferring the material from and into the classified clean room without contaminating the air of clean room. In the process, room door is not require to open, these can be easily installed on the wall between the classified room and unclassified room.

Technical Specification :

- Air Cleanliness : ISO class 5 / class 100
- Velocity : 0.45 ± 0.05 mps (90 ± 20 FPM)
- Power Supply : 230V AC, 1Ø, 50HZ
- MOC : SS-304 / SS-316 / COMBINATION
- Fluorescent lights (Interlocked with Door)
- UV light (Interlocked with Door)
- Differential Pressure Gauge: 01 no. (HEPA FILTER)
- Door Opening with Solid State Electronic Inter Locking Mechanism
- DQ, IQ, OQ, PQ Documentation



“PROTECH” CEILING SUSPENDED LAMINAR AIR FLOW UNIT

For the protection for sterile / Filling machine in the pharmaceutical industries used where bacteria and particle can have a destructive effect on the final product. The unit is supplied either to be mounted in the ceiling 4 adjustable chains or with legs which optionally can be supplied with wheels.

Technical Specification :

- Air Cleanliness : ISO class 5 / class 100
- Air Velocity : 0.45 ± 0.05 mps (90 ± 20 FPM)
- Air Flow : Vertical
- Power Supply : 230V AC ,1Ø, 50HZ
- MOC : G.I. Powder Coated / SS-304 / SS-316
- EU 5 Pre - Filter (95 % down to 5 Micron)
- EU14 – Hepa Filter (99.999% down @ 0.3 Micron)
- On / Off Operating Electronic Circuit (BL/FL/UV)
- DOP port
- DQ, IQ, OQ, PQ Documentation



“PROTECH” AIR SHOWER UNIT

Prefabricated modular air shower enclosure used for removing surface particle from personnel prior to entering a contamination controlled environment. Air Shower are constructed as per ISO Class 8 / ISO Class 7.

Technical Specification :

- Air Cleanliness : ISO class 8 / class 1 Lac
- Air Velocity : 15 ± 5 mps
- Air Flow : Horizontal / Vertical
- Noise level : Minimum
- Vibration level : Minimum
- Power Supply : 440V AC, 3- \emptyset , 50 HZ
- MOC : GI Powder Coated / SS - 304 / SS - 316 / combination
- EU7- Intermediate Filter (95% down to 3 Micron)
- EU14 - Hepa Filter - Supply (99.999% down to 0.3 Micron)
- DQ, IQ, OQ, PQ Documentation



“PROTECH” BIO SAFETY CABINET

“PROTECH” Biohazards Cabinet, which is meet the laboratories requirements for life science research, clinical or industrial applications. These are manufactured using stainless steel for easy Cleaning and maintenance and excellent powder coating finish helps to prevent microbial or bacterial growth.



Technical Specification :

- Air Cleanliness : ISO Class 5 / Class 100
- Air Velocity : 0.45 ± 0.05 mps (90 ± 20 FPM)
- Air Flow : Vertical
- Power Supply : 240V AC, 1- \emptyset , 50HZ
- MOC : SS-304 / SS-316 / Powder Coated
- Sash (Shutter) : Vertical Rising of Vertical Opening
- EU7 - Intermediate Filter (95% down to 3 Micron)
- EU14 - HEPA Filter - Supply (99.999% down to 0.3 Micron)
- Fluorescent Lights with White Diffuser
- Differential Pressure Gauges
- On / Off Operating Electronic Circuit (BL/FL/UV)
- DOP Port
- DQ, IQ, OQ, PQ, Documentation

“PROTECH” POLYPROPYLENE FUME HOOD (NON METALLIC FUME HOOD)

Technical Specification :

- MOC : Main unit -100% Polypropylene Fabricated
- Work Platform : Black Granite (15/20mm thick)
- Sash (shutter) : Vertical rising of vertical opening sash monument with counter weight balance mechanism
- Utility : Gas cock / Air lock / Vaccum cock
- Air Flow : 100% air take from inside room through Polypropylene Fume Hood for protection of the personnel against toxic gasses and fumes by 100% exhaust the outside.
- Fluorescent lights
- Ducting : Made from PP / PVC pipe / Flexible duct
- Power Supply : 440V AC, 3-Ø, 50HZ

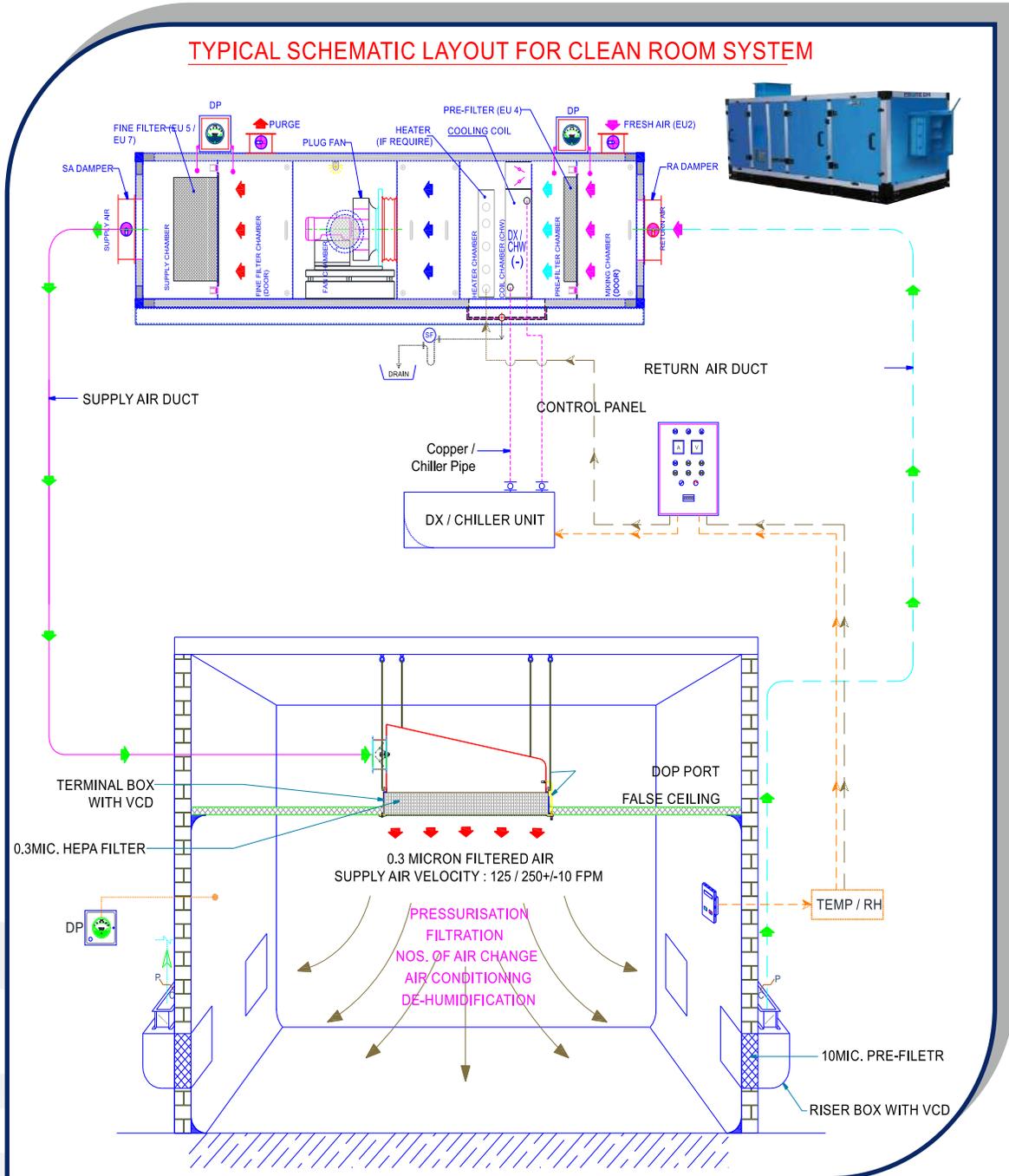


DEHUMIDIFIER

- The “PROTECH” Large Bed Dehumidifier is a one stop source for total precise environmental control. “PROTECH” can design, engineer and package the dehumidifier with
- Pre and after cooling coils.
- Bye-Pass ducting and mixing chamber volume controls and filter elements
- Upgraded fan for total system air to provide complete environmental control in a single package for any industrial application
- Design Capacity : RH 10% to 65%



“PROTECH” AHU CLEAN ROOM SYSTEM (TURN-KEY PROJECT)



An Air Handling Unit (AHU) is a key component of a Heating, Ventilation, and Air Conditioning (HVAC) system, responsible for conditioning and circulating air throughout a building. It combines various functions like air filtration, temperature control (heating and cooling), humidity control, and ventilation. Essentially, it takes in air, treats it based on the desired conditions, and distributes it through ductwork to different zones within a building.



A modular partition panel HVAC system integrates heating, ventilation, and air conditioning (HVAC) components within a cleanroom's modular wall and ceiling system. This allows for efficient temperature control, air filtration, and airflow management within a controlled environment. These systems are designed for flexibility and adaptability, allowing for easy reconfiguration as needed.

Key Features and Benefits:

- Integrated Design
- Flexibility and Adaptability
- Controlled Environment
- Air Quality Management
- Customizable Solutions
- Ease of Maintenance

LAMINAR AIR FLOW FOR OT ROOM



A modular operation theatre (OT) system is a modern, pre-fabricated, and highly integrated surgical suite designed to create a sterile, efficient, and technologically advanced environment for surgical procedures. Unlike traditional operating theatres built with conventional construction methods (bricks and mortar), modular OTs are built using modular panels and components that are easily assembled, disassembled, and customized.

Modular operation theatre systems are gaining popularity in modern healthcare due to their ability to provide a safe, efficient, flexible, and technologically advanced surgical environment that meets stringent hygiene and safety standards.

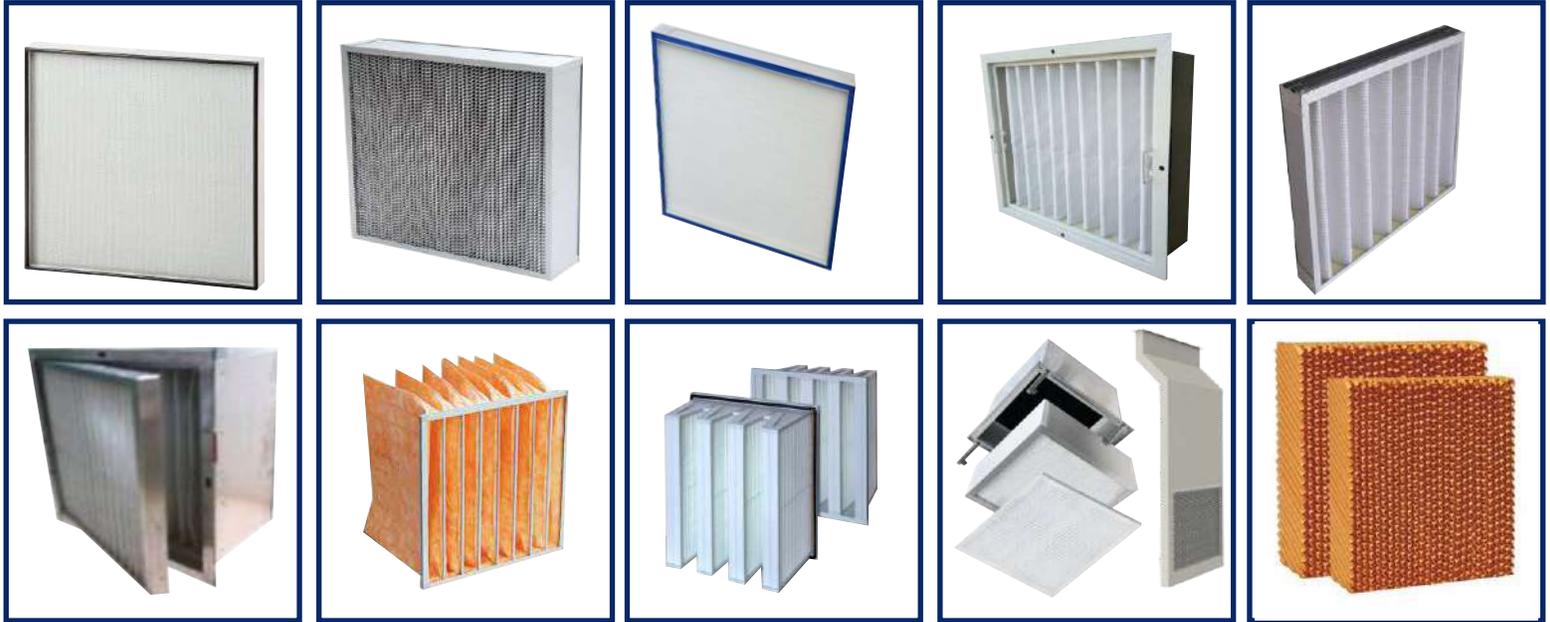
Key features and advantages:

- Sterility and Infection Control
- Flexibility and Customization
- Rapid Deployment and Installation
- Technological Integration
- Workflow Optimization
- Durability and Low Maintenance
- Improved Air Quality

Key components:

- Walls and Ceilings
- Laminar Air Flow System
- Hermetically Sealed Doors
- OT Control Panel
- Medical Pendants
- Anti-Static Flooring
- Surgical Lights
- Integrated Audio-visual Systems
- Pass Boxes

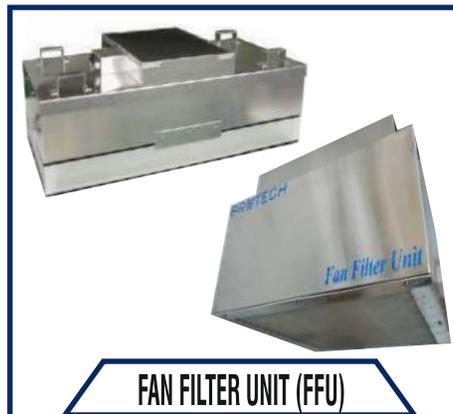
AIR FILTER



VENTILATION PRODUCT



AIR CURTAIN



**FAN FILTER UNIT (FFU)
POSITIVE PRESSURE MODULE**



STERILE GARMENT CABINET



AXIAL FLOW FAN

GRILL & DIFFUSER

CENTRIFUGAL BLOWER

OUR VALUABLE CLIENT



OUR PROJECT WORKS



PROTECH[®]
AIR SYSTEMS PVT. LTD.



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