

The
Ultimate
Solution For
Clean Air



Comech Industries



The Ultimate Solution For Clean Air



About Us

Precision Cleanroom Solutions for Critical Environments

Based in Ahmedabad, India, **COMECH INDUSTRIES** is a trusted leader in manufacturing, supplying, and servicing high-performance clean room equipment and air filtration systems for classified environments. We provide complete, customized solutions—engineered for durability, cost-efficiency, and compliance with stringent global standards.

Our Mission!

At **COMECH INDUSTRIES**, we engineer precision clean-air systems to empower industries where purity is non-negotiable. Founded on innovation and reliability, we design bespoke, future-ready solutions that ensure peak efficiency and regulatory compliance for your critical operations.

Why Partner With Comech Industries?

Industry-Leading Expertise

Our highly trained engineers craft tailored clean-air systems to meet your exact specifications.

End-to-End Reliability

From design to deployment, we ensure on-time delivery and long-lasting performance.

Future-Ready Vision

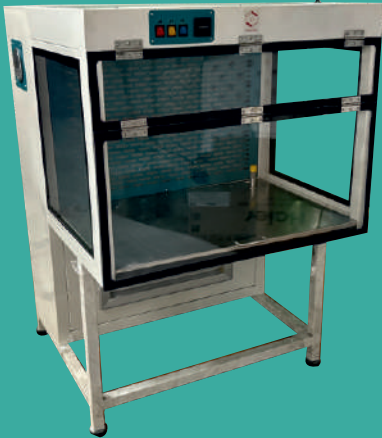
Driven by innovation and teamwork, we're advancing toward global leadership in clean room technology.

Your Trusted Partner for Clean Air Solutions

At **COMECH INDUSTRIES**, we don't just deliver equipment—we deliver confidence, compliance, and cleaner air. Partner with us for unmatched expertise and reliability in cleanroom technology.



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Horizontal Laminar Airflow Unit

The **Horizontal Laminar Airflow Unit** is designed to provide a clean and controlled work environment by directing HEPA-filtered air in a horizontal flow across the workspace. This ensures the removal of airborne contaminants, making it ideal for applications requiring a sterile and particle-free environment

TECHNICAL SPECIFICATIONS

○ Airflow Type	: Horizontal Laminar Flow
○ Filter Efficiency	: HEPA (99.99% @ 0.3µm)
○ Internal Work Zone	: ISO Class 5
○ Work Surface Material	: Stainless Steel
○ Side Panels	: Clear Acrylic / Tempered Glass
○ Lighting	: LED / Fluorescent
○ Noise Level	: ≤ 65 dB
○ Power Supply	: 220V / 50Hz or Customized
○ Optional Features	: UV Light, Custom Airflow Speed

APPLICATION

➤ Pharmaceutical Industry	➤ Biotechnology & Research Labs	➤ Microelectronics & Semiconductor Industry
➤ Food & Beverage Industry	➤ Tissue Culture & Cell Culture Labs	
➤ Optical & Laser Industries	➤ Medical & Healthcare Facilities	



Vertical Laminar Airflow Unit

The **Vertical Laminar Airflow Unit** is designed to provide a sterile, particle-free environment by directing HEPA-filtered air in a vertical downward flow. This configuration minimizes contamination risks and is ideal for handling sensitive processes in pharmaceuticals, laboratories, electronics, and healthcare industries.

TECHNICAL SPECIFICATIONS

○ Airflow Type	: Vertical Laminar Flow
○ Filter Efficiency	: HEPA (99.99% @ 0.3µm)
○ Internal work zone	: ISO Class 5
○ Work Surface Material	: Stainless Steel
○ Side Panels	: Clear Acrylic / Tempered Glass
○ Lighting	: LED / Fluorescent
○ Noise Level	: ≤ 65 dB
○ Power Supply	: 220V / 50Hz or Customized
○ Optional Features	: UV Light, Custom Airflow Speed

APPLICATION

➤ Pharmaceutical Industry	➤ Biotechnology & Research Labs	➤ Microelectronics & Semiconductor Industry
➤ Food & Beverage Industry	➤ Tissue Culture & Cell Culture Labs	
➤ Optical & Laser Industries	➤ Medical & Healthcare Facilities	



Ceiling-Suspended Laminar Airflow Unit

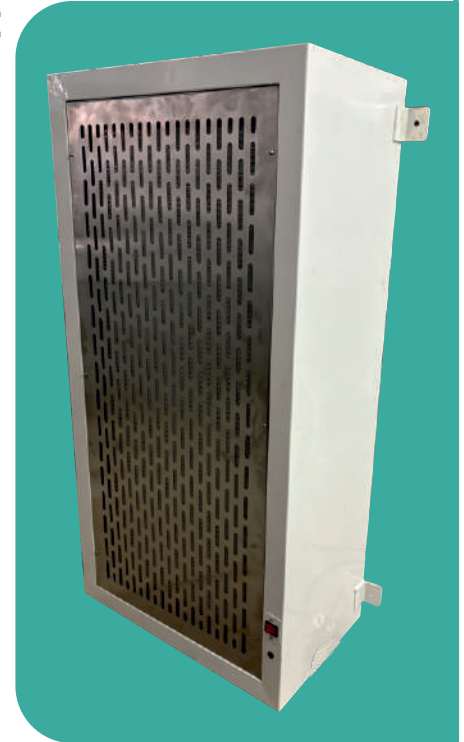
The **Ceiling-Suspended Laminar Airflow Unit** is designed to provide a sterile and controlled environment by directing filtered air downward in a uniform laminar flow. This unit is ideal for clean rooms, surgical suites, pharmaceutical production, and laboratory environments where contamination control is critical. Its suspended design saves workspace and allows flexibility in positioning over specific work areas.

TECHNICAL SPECIFICATIONS

○ Airflow Type	: Vertical Laminar Flow
○ Installation	: Ceiling-Suspended
○ Internal work zone	: ISO Class 5
○ Filter Efficiency	: HEPA (99.99% @ 0.3μm)
○ Housing Material	: Stainless Steel / Aluminum
○ Lighting (Optional)	: LED / Fluorescent
○ Noise Level	: ≤ 65 dB
○ Power Supply	: 220V / 50Hz or Customized
○ Optional Features	: UV Light, Adjustable Airflow Speed

APPLICATION

> Pharmaceutical Mfg. > Food & Beverage Industry > Medical Device Mfg.	> Optical & Precision Engineering > Clean Room Environments	> Hospital Operating Rooms & surgical suites > Laboratory Research & Biotechnology
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Reverse Laminar Airflow Unit – Sampling & Dispensing Booth

The **Sampling & Dispensing Booth** is a specialized laminar airflow unit designed to ensure a controlled and sterile environment during the weighing, dispensing, and sampling of raw materials or chemicals. It prevents cross-contamination by using a combination of HEPA filtration and negative pressure airflow, making it ideal for pharmaceutical, biotechnology, and chemical industries.

TECHNICAL SPECIFICATIONS

○ Airflow Type	: Vertical Laminar Flow
○ Filtration System	: Pre-Filter + Intermediate Filter + HEPA/ULPA
○ Internal Work Zone	: ISO Class 5
○ Pressure Design	: Negative Pressure Containment
○ Material	: Stainless Steel / Powder-Coated Steel
○ Lighting	: LED / Fluorescent
○ Noise Level	: ≤ 65 dB
○ Power Supply	: 220V / 50Hz or Customized
○ Optional Features	: UV Light, Adjustable Airflow Speed, PVC Strip Curtains

APPLICATION

> Pharmaceutical Manufacturing > Chemical & Fine Powder Processing	> Biotechnology & Research Laboratories > Food & Beverage Industry	> Cosmetics & Personal Care Industry > Sterile Storage Areas
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Static Pass Box

The **Static Pass Box** is a clean room equipment designed for the safe transfer of materials between rooms of the same cleanliness level or low-contamination risk areas. It prevents cross-contamination through interlocking door mechanisms and ensures secure material handling without active airflow.

TECHNICAL SPECIFICATIONS

○ Material	: SS 304 / SS 316 (optional)
○ External Dimensions	: Customizable
○ Internal Dimensions	: Standard & customizable sizes
○ Filtration System	: Not required (Static pass box does not have an airflow system)
○ Door Interlocking	: Mechanical / Electromagnetic
○ Lighting	: LED Indicator & Optional UV Germicidal Lamp
○ Noise Level	: Silent operation
○ Power Supply	: 220V-240V / 50-60Hz (For models with UV lamp)
○ Glass Window	: 5mm Toughened Glass

APPLICATION

> Pharmaceutical & Biotech Industries

> Electronics & Semiconductor Manufacturing
> Food Processing & Packaging

> Hospitals & Laboratories
> Tissue Culture & Cell Culture Labs



Dynamic Pass Box

The **Dynamic Pass Box** is an essential cleanroom equipment designed for the safe transfer of materials between controlled environments while maintaining air cleanliness levels. It prevents contamination through controlled airflow, HEPA filtration, and interlocking door systems.

TECHNICAL SPECIFICATIONS

○ Material	: SS 304 / SS 316 (optional)
○ External Dimensions	: Customizable
○ Internal Dimensions	: Standard & customizable sizes
○ Filtration System	: HEPA Filter (99.99% @ 0.3 µm)
○ Airflow Type	: Unidirectional vertical airflow
○ Door Interlocking	: Mechanical / Electromagnetic
○ Lighting	: LED Indicator & Optional UV Germicidal Lamp
○ Noise Level	: < 65 dB
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)
○ Air Velocity	: 0.45 m/s ± 20%
○ Particle Filtration Efficiency	: ISO Class 5 (ISO 14644-1)

APPLICATION

> Pharmaceutical & Biotech Industries

> Electronics & Semiconductor Manufacturing
> Food Processing & Packaging

> Hospitals & Laboratories
> Tissue Culture & Cell Culture Labs



Biosafety Cabinet (BSC) – Class II A2

The **Biosafety Cabinet (BSC) Class II A2** is a critical containment device designed to **provide operator, product, and environmental protection** in laboratories handling biohazardous materials. It ensures **ISO Class 5 clean air conditions**, recirculating **70% of filtered air** while exhausting **30% safely** to the environment. Ideal for microbiological and pharmaceutical applications, it prevents contamination through HEPA filtration and controlled airflow.

TECHNICAL SPECIFICATIONS

○ Cabinet Type	: Class II, Type A2
○ Material	: SS 304 / SS 316 (Work Surface)
○ External Dimensions	: Customizable (Standard: 4ft, 6ft models)
○ Internal Work Zone	: ISO Class 5 (ISO 14644-1)
○ Filtration System	: HEPA Filter (99.99% @ 0.3 μ m)
○ Airflow Pattern	: 70% Recirculated, 30% Exhausted
○ Air Velocity	: Inflow: 0.53 m/s $\pm$ 20%
○ Noise Level	: < 65 dB
○ Sash Opening	: 8-10 inches (Adjustable)
○ Lighting	: Fluorescent / LED
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

> Microbiological Research & Testing

> Pharmaceutical & Biotech Laboratories
> Hospitals & Clinical Labs

> Food & Beverage Testing Labs



Biosafety Cabinet (BSC) – Class II B2

The **Biosafety Cabinet (BSC) Class II B2** is a fully exhausted containment system designed to provide **operator, product, and environmental protection** in laboratories dealing with toxic chemicals and biohazardous materials. Unlike Class II A2 models, the **B2 cabinet does not recirculate air**, making it ideal for work involving volatile chemicals and hazardous aerosols.

TECHNICAL SPECIFICATIONS

○ Cabinet Type	: Class II, Type B2
○ Material	: SS 304 / SS 316 (Work Surface)
○ External Dimensions	: Customizable (Standard: 4ft, 6ft models)
○ Internal Work Zone	: ISO Class 5 (ISO 14644-1)
○ Filtration System	: HEPA Filter (99.99% @ 0.3 μ m)
○ Airflow Pattern	: 100% Exhausted, No Recirculation
○ Air Velocity	: Inflow: 0.53 m/s $\pm$ 20%
○ Exhaust Requirement	: External ducting with dedicated exhaust system
○ Noise Level	: < 65 dB
○ Sash Opening	: 8-10 inches (Adjustable)
○ Lighting	: Fluorescent / LED
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

> Toxic Chemical & Biohazardous Sample Handling

> Pharmaceutical & Biotech Laboratories
> Industrial & Chemical Testing Labs

> Clinical & Pathology Labs





Garment Storage Cabinet

The **Garment Storage Cabinet** is designed to store and protect cleanroom garments, lab coats, and personal protective equipment (PPE) in a controlled environment. It ensures contamination-free storage by incorporating HEPA filtration, UV sterilization, and stainless steel construction, making it an essential addition to cleanrooms, pharmaceutical labs, and industrial facilities.

TECHNICAL SPECIFICATIONS

○ Material	: SS 304 / SS 316 (Internal & External)
○ External Dimensions	: Customizable (Standard: 900mm, 1200mm, 1500mm width)
○ Filtration System	: HEPA Filter (99.99% @ 0.3 µm) (Optional)
○ UV Sterilization	: Available (Optional)
○ Shelving & Hanging Rods	: Adjustable stainless steel rods and shelves
○ Door Type	: Acrylic / Tempered glass (Sliding or Hinged)
○ Airflow System	: Forced air circulation (Optional)
○ Lighting	: LED (Energy-efficient)
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

➤ Pharmaceutical & Biotechnology Cleanrooms

➤ Hospital & Healthcare Facilities

➤ Food & Beverage Processing

➤ Electronics & Semiconductor Manufacturing



Air Shower for Human Entry

The **Air Shower** is an essential decontamination system used at the entrance of cleanrooms and controlled environments. It removes dust, particulate matter, and contaminants from personnel before they enter critical areas, ensuring minimal contamination and maintaining air purity levels. The high-velocity HEPA-filtered air effectively removes particles from clothing and surfaces.

TECHNICAL SPECIFICATIONS

○ Material	: SS 304 / SS 316 / MS Powder Coated (Internal & External)
○ External Dimensions	: Customizable (Standard: Single/Double Entry)
○ Filtration System	: HEPA Filter (99.99% @ 0.3 µm)
○ Air Velocity	: 15-20 m/s (High-speed jet airflow)
○ Number of Nozzles	: 12 to 24 (Customizable)
○ Shower Duration	: 5-30 seconds (Adjustable)
○ Interlocking System	: Automatic door lock mechanism
○ Noise Level	: < 80 dB
○ Power Supply	: 440V / 50-60Hz (Customizable)

APPLICATION

➤ Pharmaceutical & Biotech Industries

➤ Semiconductor & Electronics Manufacturing

➤ Hospitals & Healthcare Facilities

➤ Food & Beverage Processing Units



Air Shower for Material Entry

The **Material Entry Air Shower** is designed to remove surface contaminants from materials, equipment, and carts before entering cleanrooms or controlled environments. Using high-velocity HEPA-filtered air, this system ensures dust, dirt, and particulate matter do not compromise the cleanliness of sensitive areas. It is essential in industries where even minor contamination can impact product quality and safety.

TECHNICAL SPECIFICATIONS

Material	: SS 304 / SS 316 / MS Powder Coated (Internal & External)
External Dimensions	: Customizable (Standard: Single/Double Entry)
Filtration System	: HEPA Filter (99.99% @ 0.3 μ m)
Air Velocity	: 15-20 m/s (High-speed jet airflow)
Number of Nozzles	: 12 to 24 (Customizable)
Shower Duration	: 5-30 seconds (Adjustable)
Interlocking System	: Automatic door lock mechanism
Weight Capacity	: Up to 500 kg (Customizable for heavy loads)
Noise Level	: < 80 dB
Power Supply	: 440V / 50-60Hz (Customizable)

APPLICATION

- > Pharmaceutical & Biotechnology
- > Electronics & Semiconductor Manufacturing
 > Food & Beverage Processing
- > Hospital & Laboratory Facilities



Ducted Fume Hood

The **Ducted Fume Hood** is a laboratory ventilation system designed to safely remove hazardous fumes, vapors, and airborne contaminants generated during chemical experiments and industrial processes. The system ensures a safe working environment by exhausting harmful gases through an external ducting system.

TECHNICAL SPECIFICATIONS

Material	: MS Powder Coated / Stainless steel (SS 304/316) / Polypropylene
External Dimensions	: Customizable (Standard: 4ft, 6ft, 8ft models)
Airflow Type	: Ducted with external exhaust
Face Velocity	: 0.5 m/s - 0.7 m/s (Adjustable)
Sash Material	: Toughened glass (Vertical/horizontal sliding)
Work Surface	: Stainless steel / Granite
Filtration System	: Carbon filter (optional)
Noise Level	: < 65 dB
Lighting	: LED (Energy-efficient)
Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

- > Chemical & Pharmaceutical Laboratories
- > Educational & Research Institutions
 > Biotechnology & Industrial Labs
- > Manufacturing & Quality Control Labs





Ductless Fume Hood

The **Ductless Fume Hood** is a self-contained filtration system designed to remove hazardous fumes, vapors, and airborne contaminants without the need for external ducting. Equipped with advanced carbon and HEPA filtration, it ensures clean and safe air circulation within the laboratory, making it ideal for environments where ducted ventilation is impractical.

TECHNICAL SPECIFICATIONS

○ Material	: MS Powder Coated / Stainless steel (SS 304/316) / Polypropylene
○ External Dimensions	: Customizable (Standard: 4ft, 6ft, 8ft models)
○ Airflow Type	: Recirculating with built-in filtration
○ Filtration System	: Activated carbon filter / HEPA filter (99.99% @ 0.3µm)
○ Face Velocity	: 0.4 m/s - 0.6 m/s (Adjustable)
○ Sash Material	: Toughened glass (Vertical/horizontal sliding)
○ Work Surface	: Stainless steel / Granite
○ Noise Level	: < 65 dB
○ Lighting	: LED (Energy-efficient)
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

> Chemical & Pharmaceutical Labs

> Educational & Research Institutions
> Biotechnology & Medical Labs

> Forensic & Industrial Testing Labs



Fan Filter Unit (FFU)

The **Fan Filter Unit (FFU)** is a self-contained, ceiling-mounted filtration system designed to provide clean and contaminant-free air in controlled environments such as cleanrooms, laboratories, and semiconductor facilities. It integrates a high-efficiency HEPA or ULPA filter with a low-noise, energy-efficient fan to ensure continuous airflow and particle filtration.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Aluminum / Stainless Steel (SS 304/316)
○ External Dimensions	: 600x600mm, 600x1200mm, 1200x1200mm (Customizable)
○ Filtration System	: HEPA (99.99% @ 0.3µm) / ULPA (99.9995% @ 0.12µm)
○ Airflow Velocity	: 0.45 ± 0.05 m/s (Adjustable)
○ Air Volume	: 500-1200 CFM (Model dependent)
○ Noise Level	: ≤ 60 dB
○ Fan Type	: Centrifugal / BC Fan
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

> Cleanrooms & Semiconductor Facilities

> Pharmaceutical & Biotech Labs
> Hospitals & Healthcare Facilities

> Electronics & Optical Industries



Positive Pressure Module

The **Positive Pressure Module** is designed to create a clean and controlled environment by supplying filtered, contaminant-free air into a room or workspace. It helps maintain a higher pressure inside the enclosed space compared to the surrounding areas, preventing the infiltration of airborne contaminants. This makes it ideal for cleanrooms, pharmaceutical labs, and sterile processing areas.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ External Dimensions	: 600x600x300mm, 900x600x300mm, 1200x600x300mm (Customizable)
○ Filtration System	: HEPA (99.99% @ 0.3μm)
○ Airflow Capacity	: 300-1500 CFM (Model dependent)
○ Air Velocity	: 0.45 ± 0.05 m/s
○ Noise Level	: ≤ 65 dB
○ Fan Type	: Centrifugal / BC Fan
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

➤ Cleanrooms & Pharmaceutical Manufacturing	➤ Hospitals & Healthcare Facilities ➤ Biotechnology & Research Labs	➤ Food & Beverage Processing ➤ Tissue Culture & Cell Culture Labs
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Negative Pressure Module

The **Negative Pressure Module** is designed to create a controlled environment by maintaining a lower pressure inside a room compared to surrounding areas. This system prevents contaminants, pathogens, and hazardous particles from escaping the enclosed space, making it ideal for biosafety labs, isolation rooms, pharmaceutical containment, and hazardous material handling areas.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ External Dimensions	: 600x600x300mm, 900x600x300mm, 1200x600x300mm (Customizable)
○ Filtration System	: HEPA (99.99% @ 0.3μm)
○ Airflow Capacity	: 300-1500 CFM (Model dependent)
○ Air Velocity	: 0.45 ± 0.05 m/s
○ Noise Level	: ≤ 65 dB
○ Fan Type	: Centrifugal / BC Fan
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

➤ Hospitals & Healthcare Isolation Rooms	➤ Pharmaceutical Containment Facilities ➤ Biosafety Laboratories (BSL-2, BSL-3, BSL-4)	➤ Chemical & Hazardous Material Handling
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De-Dusting Tunnel with Brushing Mechanism

The **De-Dusting Tunnel with Brushing Mechanism** is designed for the efficient removal of dust, dirt, and loose particles from materials, products, or personnel before they enter controlled environments. This system combines high-velocity air jets with mechanical brushing to ensure thorough cleaning, making it ideal for pharmaceutical, food processing, textile, and packaging industries.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ External Dimensions	: Customizable (Standard: 1200mm x 1800mm x 2500mm)
○ Brushing Mechanism	: Motorized rotating brushes (Adjustable speed & height)
○ Filtration System	: HEPA (99.99% @ 0.3µm) / Pre Filter 15nm
○ Air Velocity	: 15-20 m/s (Adjustable)
○ Airflow Capacity	: 1200-5000 CFM (Based on model)
○ Noise Level	: ≤ 85 dB
○ Power Supply	: 440V / 50-60Hz (Customizable)
○ Control System	: PLC-based automation with HMI touchscreen (Optional)

APPLICATION

➤ Pharmaceutical & Cleanroom Industries

➤ Food & Beverage Processing

➤ Automotive & Aerospace

➤ Textile & Fabric Manufacturing

➤ Electronics & Semiconductor Industries



De-Dusting Tunnel with Air Clean

The **De-Dusting Tunnel with Air Clean** is designed to remove dust, dirt, and particulate contaminants from materials, products, or personnel before they enter clean environments. It utilizes high-velocity filtered air jets and suction systems to effectively eliminate loose particles, ensuring compliance with cleanroom, pharmaceutical, food, and electronics industry standards.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ External Dimensions	: Customizable (Standard: 1000mm x 1500mm x 2500mm)
○ Filtration System	: HEPA (99.99% @ 0.3µm) / Pre Filter 15nm
○ Air Velocity	: 15-20 m/s (Adjustable)
○ Airflow Capacity	: 1000-4000 CFM (Based on model)
○ Nozzle Configuration	: Multi-angle, adjustable stainless steel nozzles
○ Noise Level	: ≤ 85 dB
○ Power Supply	: 440V / 50-60Hz (Customizable)
○ Control System	: PLC-based automation with HMI (Optional)

APPLICATION

➤ Pharmaceutical & Cleanroom Industries

➤ Food & Beverage Processing

➤ Textile & Packaging Industries

➤ Electronics & Semiconductor Manufacturing

➤ Automotive & Aerospace Manufacturing



Plenum Box for Operation Theatre (OT)

The **Plenum Box for Operation Theatre (OT)** is a crucial component in maintaining sterile air conditions within surgical environments. It ensures uniform air distribution, minimizes contamination, and supports HEPA-filtered laminar airflow for a clean and controlled surgical space. Designed for hospitals, healthcare facilities, and pharmaceutical cleanrooms, this unit complies with GMP, ISO 14644-1, and ASHRAE standards.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ External Dimensions	: Customizable (Standard: 1200mm x 2400mm x 500mm)
○ Filtration System	: HEPA (99.99% @ 0.3μm)
○ Airflow Type	: Unidirectional Laminar Flow
○ Airflow Capacity	: 500-3000 CFM (Based on model)
○ Noise Level	: ≤ 65 dB
○ Pressure Drop	: ≤ 25 mm WC
○ Duct Connection Size	: Customizable as per HVAC requirements
○ Installation Type	: Ceiling-Mounted / Wall-Mounted

APPLICATION

➤ Operation Theatres (OTs) & Surgical Rooms	➤ ICUs & Isolation Rooms ➤ Pharmaceutical & Cleanroom Facilities	➤ Biotech & Laboratories
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HEPA Terminal Box

The **HEPA Terminal Box** is a high-efficiency air filtration unit designed to deliver clean, particle-free air into controlled environments such as cleanrooms, pharmaceutical facilities, hospitals, and laboratories. It serves as the final stage of air filtration in HVAC systems, ensuring ISO-compliant air purity with minimal contamination risks.

TECHNICAL SPECIFICATIONS

○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated GI
○ Filter Type	: HEPA (99.99% @ 0.3μm)
○ Available Sizes	: Customizable (Standard: 600mm x 600mm, 1200mm x 600mm)
○ Airflow Capacity	: 250-2500 CFM (Based on model)
○ Pressure Drop	: ≤ 25 mm WC
○ Diffuser Plate	: Perforated Aluminum / Stainless Steel
○ Mounting Type	: Ceiling-Mounted / Wall-Mounted
○ Duct Connection Size	: Customizable as per HVAC requirements
○ Sealing Type	: Silicone Gasket / Gel Seal
○ Installation	: Flush-Mounted / Surface-Mounted

APPLICATION

➤ Pharmaceutical Cleanrooms	➤ Hospitals & Surgical Rooms ➤ Biotech & Research Labs ➤ Microelectronics & Semiconductor Industries	➤ Food Processing & Packaging Units
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Air Curtains

The **Air Curtain** is designed to create an invisible barrier of high-velocity air, preventing dust, insects, contaminants, and temperature loss between different environments. These units are widely used in cleanrooms, hospitals, pharmaceutical facilities, cold storage, and commercial spaces to maintain controlled conditions while allowing easy entry and exit.

TECHNICAL SPECIFICATIONS

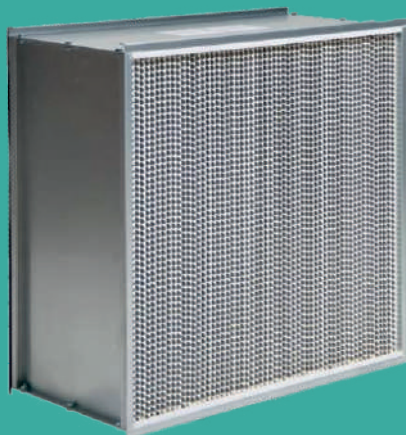
○ Housing Material	: Stainless Steel (SS 304/316) / Powder-Coated Aluminum
○ Available Widths	: 900mm, 1200mm, 1500mm, 1800mm, 2000mm (Customizable)
○ Airflow Velocity	: 10-20 m/s (Adjustable)
○ Motor Power	: 100W - 750W (Based on size & model)
○ Noise Level	: ≤ 65 dB
○ Mounting Type	: Wall-Mounted / Ceiling-Mounted / Recessed
○ Operation Mode	: Manual / Automatic (Door Sensor-Integrated)
○ Filter Options	: Pre-filter / HEPA (Optional)
○ Power Supply	: 220V-240V / 50-60Hz (Customizable)

APPLICATION

○ Cleanrooms & Pharmaceutical Units

○ Hospitals & Healthcare Facilities
○ Commercial Spaces & Malls
○ Cold Storage & Food Processing Plants

○ Manufacturing & Industrial Facilities



Deep Pleated HEPA Filter

The **Deep Pleated HEPA Filter** is designed for high airflow applications that require superior particle filtration efficiency. With deep pleat media construction, it offers low-pressure drop, extended service life, and high dust-holding capacity. These filters are ideal for pharmaceutical cleanrooms, hospitals, HVAC systems, and industrial processes where 99.99% efficiency at 0.3 microns is essential.

TECHNICAL SPECIFICATIONS

○ Filter Type	: Deep Pleated HEPA (H13/H14)
○ Filtration Efficiency	: 99.99% @ 0.3μm (H13/H14)
○ Frame Material	: Galvanized Steel (GI) / SS 304 / SS 316 / Aluminum
○ Media Material	: Glass Fiber / Synthetic Fiber
○ Pleat Style	: Deep Pleat with Corrugated Aluminum/Plastic Separators
○ Gasket Type	: Neoprene / EPDM / PU Gel Seal
○ Faceguard	: Expanded Mesh / Protective Grid (Optional)
○ Available Sizes	: 610x610x292mm / 1220x610x292mm (Customizable)
○ Airflow Capacity	: 500-3500 CFM (Varies by size)
○ Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
○ Max Humidity	: 100% RH (Moisture-Resistant Models)
○ Initial Pressure Drop	: ≤ 30 mm WC

APPLICATION

○ Pharmaceutical & Biotechnology Cleanrooms

○ Hospitals & Healthcare Facilities
○ HVAC & Air Handling Units (AHU)
○ Microelectronics & Semiconductor Manufacturing

○ Aerospace & Automotive Paint Booths



PRE Filter

The **PRE Filter (Preliminary Air Filter)** is designed for coarse particle filtration, serving as the first line of defense in air filtration systems. It protects HEPA and fine filters by removing large dust particles, lint, pollen, and other airborne contaminants, increasing their lifespan and efficiency. Ideal for HVAC systems, cleanrooms, pharmaceutical, and industrial applications, these filters provide high dust-holding capacity with low-pressure drop

TECHNICAL SPECIFICATIONS

○ Filter Type	: Panel / Pleated / Synthetic Fiber / Metal Mesh
○ Filtration Efficiency	: G3 - G4 (EN779) / MERV 5-8 (ASHRAE)
○ Frame Material	: GI / Aluminum / SS 304 / SS 316 / ABS Plastic
○ Media Material	: Synthetic Fiber / Glass Fiber / Non-Woven Fabric
○ Dust-Holding Capacity	: High
○ Available Sizes	: 305x305x50mm, 610x610x50mm (Custom Sizes Available)
○ Airflow Capacity	: 500-3000 CFM (Varies by size)
○ Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
○ Max Humidity	: 100% RH (Moisture-Resistant Models)
○ Initial Pressure Drop	: ≤ 10 mm WC

APPLICATION

➤ HVAC & Air Handling Units ➤ Hospitals & Healthcare Facilities	➤ Automobile & Aerospace Ind ➤ Pharmaceutical & Cleanroom Environments ➤ Commercial & Industrial Air Filtration	➤ Food Processing & Manufacturing Plants
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Mini-Pleat HEPA Filter

The **Mini-Pleat HEPA Filter** is a high-efficiency air filtration solution designed for compact, high-performance applications where space is limited but superior air purity is required. With an optimized pleat design, it provides low-pressure drop, increased airflow, and extended filter life while maintaining 99.99% filtration efficiency at 0.3 microns. These filters are ideal for cleanrooms, hospitals, laboratories, and HVAC systems in critical environments.

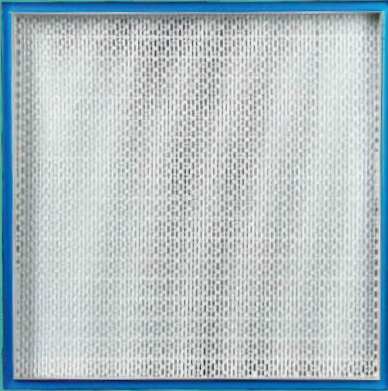
TECHNICAL SPECIFICATIONS

○ Filter Type	: Mini-Pleat HEPA (H13/H14)
○ Filtration Efficiency	: 99.99% @ 0.3μm (H13/H14)
○ Frame Material	: Aluminum / SS 304 / SS 316 / Powder-Coated GI
○ Media Material	: Glass Fiber / Synthetic Fiber
○ Pleat Style	: Mini-Pleat with Hot-Melt Separator
○ Gasket Type	: Neoprene / EPDM / PU Gel Seal
○ Faceguard	: Expanded Mesh / Protective Grid (Optional)
○ Available Sizes	: 610 X 610 X 75, 915 X 610 X 75, 1220 X 610 X 75 (Customizable)
○ Airflow Capacity	: 250-2500 CFM (Varies by size)
○ Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
○ Max Humidity	: 100% RH (Moisture-Resistant Models)
○ Initial Pressure Drop	: ≤ 25 mm WC

APPLICATION

➤ Pharmaceutical & Biotechnology Cleanrooms	➤ Hospitals & Healthcare Facilities ➤ HVAC & Air Handling Units ➤ Aerospace & Automotive Paint Booths	➤ Microelectronics & Semiconductor Industries
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Gel Seal HEPA Filter

The **Gel Seal HEPA Filter** is designed for ultra-clean environments requiring 100% leak-proof sealing. It features an advanced polyurethane (PU) gel seal that provides perfect edge sealing, preventing any bypass leakage. These filters are ideal for pharmaceutical cleanrooms, biotech labs, hospitals, and semiconductor manufacturing where air purity is critical.

TECHNICAL SPECIFICATIONS

○ Filter Type	: Gel Seal HEPA (H13/H14)
○ Filtration Efficiency	: 99.99% @ 0.3μm (H13/H14)
○ Frame Material	: Aluminum / SS 304 / SS 316
○ Media Material	: Glass Fiber / Synthetic Fiber
○ Pleat Style	: Mini-Pleat with Hot-Melt Separator
○ Sealing Type	: PU Gel Seal (Zero Leakage)
○ Faceguard	: Expanded Mesh / Protective Grid (Optional)
○ Available Sizes	: 610 X 610 X 75, 915 X 610 X 75, 1220 X 610 X 75 (Customizable)
○ Airflow Capacity	: 250-2500 CFM (Varies by size)
○ Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
○ Max Humidity	: 100% RH (Moisture-Resistant Models)
○ Initial Pressure Drop	: ≤ 25 mm WC

APPLICATION

➤ Pharmaceutical & Biotech Cleanrooms

➤ Hospitals & Healthcare Facilities
➤ HVAC & Air Handling Units (AHU)
➤ Semiconductor & Electronics Manufacturing

➤ Aerospace & Automotive Paint Booths



Fine Filter

The **Fine Filter** is a secondary stage air filter designed for removing fine dust, bacteria, and other airborne contaminants before air reaches HEPA filters or clean zones. With a higher filtration efficiency than PRE filters, fine filters ensure cleaner air, protect sensitive equipment, and improve indoor air quality. These filters are widely used in HVAC systems, cleanrooms, pharmaceutical industries, and industrial applications.

TECHNICAL SPECIFICATIONS

○ Filter Type	: Pleated Panel / Box
○ Filtration Efficiency	: F5-F9 (EN779) / MERV 9-14 (ASHRAE)
○ Frame Material	: GI / Aluminum / SS 304 / SS 316 / ABS Plastic
○ Media Material	: Synthetic Fiber / Glass Fiber / Non-Woven Fabric
○ Dust-Holding Capacity	: High
○ Available Sizes	: 305x305x50mm, 610x610x50mm, 610x610x100mm (Custom Sizes Available)
○ Airflow Capacity	: 500-4000 CFM (Varies by size & design)
○ Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
○ Max Humidity	: 100% RH (Moisture-Resistant Models)
○ Initial Pressure Drop	: ≤ 25 mm WC

APPLICATION

➤ HVAC & Air Handling Units (AHUs)

➤ Cleanrooms & Laboratories
➤ Food & Beverage Processing Plants
➤ Automobile & Aerospace Industries

➤ Pharmaceutical & Healthcare Facilities
➤ Commercial Buildings & Malls



V-Bank HEPA Filter

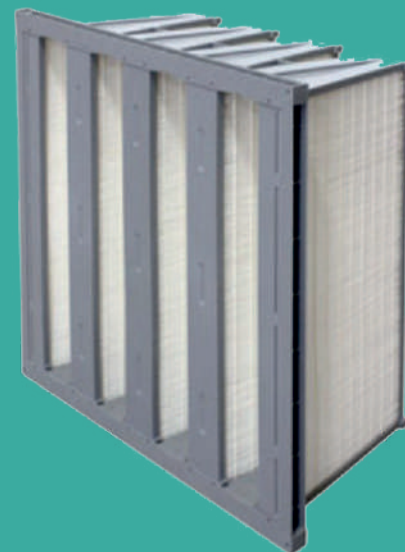
The **V-Bank HEPA Filter** is engineered for high airflow capacity with low-pressure drop and superior filtration efficiency. Its multi-V design increases the filter media area, improving dust-holding capacity and extending filter life. These filters are ideal for HVAC systems, cleanrooms, pharmaceutical industries, and industrial applications requiring high-volume, high-efficiency air filtration.

TECHNICAL SPECIFICATIONS

Filter Type	: V-Bank HEPA (H13/H14)
Filtration Efficiency	: 99.99% @ 0.3µm (H13/H14)
Frame Material	: ABS / Galvanized Steel (GI) / Aluminum / SS 304 / SS 316
Media Material	: Glass Fiber / Synthetic Fiber
V-Design Configuration	: 3V / 4V / 5V Options
Sealing Type	: PU Gel / EPDM / Neoprene Gasket
Available Sizes	: 610x610x292mm / 1220x610x292mm (Customizable)
Airflow Capacity	: 1000-4000 CFM (Varies by size & V configuration)
Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
Max Humidity	: 100% RH (Moisture-Resistant Models)
Initial Pressure Drop	: ≤ 30 mm WC

APPLICATION

➤ HVAC & Air Handling Units ➤ Hospitals & Healthcare Facilities	➤ Aerospace & Automotive Ind. ➤ Pharmaceutical & Biotechnology Cleanrooms ➤ Industrial Exhaust & Recirculation Systems	➤ Microelectronics & Semiconductor Manufacturing
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Activated Carbon Filter

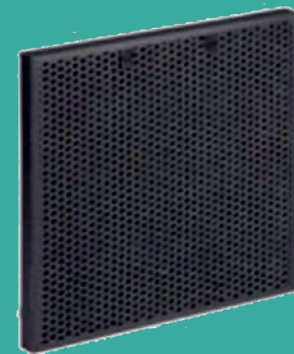
The **Activated Carbon Filter** is designed for effective removal of odors, volatile organic compounds (VOCs), toxic gases, and chemical fumes from the air. These filters use high-quality activated carbon to trap and neutralize harmful gases through adsorption, making them ideal for HVAC systems, cleanrooms, laboratories, pharmaceutical industries, and industrial air purification.

TECHNICAL SPECIFICATIONS

Filter Type	: Panel / Box / V-Bank / Cartridge
Adsorption Efficiency	: 99% for VOCs & gaseous contaminants
Frame Material	: GI / Aluminum / SS 304 / SS 316 / ABS Plastic
Media Material	: Activated Carbon Granules / Impregnated Carbon / Honeycomb Matrix
Particle Removal	: PM1, PM2.5, PM10 (if combined with particulate filters)
Gas Adsorption	: VOCs, SO2, NOx, Ozone, Odors, Ammonia, Formaldehyde
Dust-Holding Capacity	: High (when combined with pre-filters)
Available Sizes	: 305x305x50mm, 610x610x50mm, 610x610x100mm (Custom Sizes Available)
Airflow Capacity	: 500-4000 CFM (Varies by size & design)
Max Operating Temp	: 80°C (Standard) / 120°C (High-Temp Models)
Max Humidity	: 100% RH (Moisture-Resistant Models)
Initial Pressure Drop	: ≤ 30 mm WC

APPLICATION

➤ Cleanrooms & Laboratories ➤ Hospitals & Healthcare Facilities	➤ Food & Beverage Processing Plants ➤ Pharmaceutical & Healthcare Facilities ➤ Industrial & Chemical Manufacturing	➤ Commercial & Office Buildings ➤ Automotive & Aerospace Industries
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