



Cleanroom Equipment



PB

Pass Box

LAF

Laminar Air Flow

SS

Shower System

CS

Cabinet & Storage

SB

Sterile Booth

COB

Cross Over Bench

BSC

Bio Safety Cabinet

SS

S.S. Cleanroom Furniture



Static Pass through Boxes are used for transfer of material between two Clean Rooms that are equally clean. Static Pass Box should not be used between Clean Room and non-Clean Room.

STATIC PASS BOX

Our Pass Box has electromagnetic interlocking arrangement between the two doors with LED indication to show if any door is open.

Material of Construction could be either GI with powder coated finish or fully SS 304 grade Stainless Steel. An UV lamp and CFL lamp are provided in the enclosure.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Surface Finish	Hairline Finish (Coved Corners) / Powder Coated / Customized
Doors	S.S. – 304 Double Walled Doors With Double Glazed View Panel
Indicators	Indicator & Buzzer Is Provided For Door Interlocking Signal
Lights/Switches	Led Lights & On/Off Switches For Lights
Door Interlocking	Electro Magnetic Interlocking/ Mechanical Interlocking To Ensure Only One Door Opens At A Time
Power Supply	220-230 V AC/ Single Phase / 50 Hz

Optional Accessories

- U.V. Light with Hour Meter
- Mechanical Interlocking

Dynamic Pass Box is designed to allow material transfer through controlled environment without much personnel movement to minimize man /material movement & avoid cross contamination between different classified areas.

DYNAMIC PASS BOX

This is essentially installed to minimize movement of personnel for transfer of material into and from the clean room. It aids to achieve desired classification, maintain integrity of products, process & controls ingress of particulate contaminants into clean room & between different classified areas.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Velocity at Grill	0.45+/-0.05 MPS
Air Cleanliness	ISO CLASS - 5
Motor & Blower	Statically & Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters With Efficiency Of 99.997% Down To 0.3 Micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Door	S.S- 304 Double Walled Doors With Double Glazed View Panel
Door Interlocking	Electro-Magnetic / Mechanical Interlocking
Indicators	Indicator & Buzzer Is Provided For Door Interlocking Signal
Lights/Switches	Led Lights & On/Off Switches For Blower& Lights
Magnehelic Gauge	Magnehelic Differential Pressure Gauge Across Supply HEPA Filter
DOP PORT	Dop Test Port For Upstream Of HEPA Filter
Power Supply	220-230 V AC/ SINGLE PHASE / 50 Hz

Optional Accessories

- Floor mounted construction with three side wall structure & Door Drop Seal
- Audio Visual Alarm indicating condition of HEPA Filters
- Flame Proof Fitting



Vertical Laminar Air Flow provides a work area completely bathed in high efficiency perfect air, which is free from any kind of particulate contamination or impurities.

VERTICAL LAMINAR AIR FLOW

These units are ideally suited in all the applications, requiring protection of biological specimens or products from the possible contamination during the process or test. Our Laminar Air Flow is fast gaining popularity in other fields, such as pharmaceutical production, electronic industries and various other manufacturing applications.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS - 5
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Battery/Backup	Std Make- Amron/Exide/Equivalent/ 2-4 Hours
Inverter	Std Make Inverter
Trolley Wheel	PU Wheel With Locking Arrangement
Magnehalic Gauge	Magnehelic Differential Pressure Gauge Across Supply HEPA Filter
DOP PORT	Dop Test Port For Upstream Of HEPA Filter
Power Supply	220-230 V AC/ SINGLE PHASE / 50 Hz

Optional Accessories

- U.V. Light with hour meter.
- SS 304 cock for gas and air.
- Foldable polycarbonate front door.
- Clean down timer with
- Operation hold indicator.
- Flame proof fitting.



Horizontal Laminar Flow workstations are designed to protect the product within the work area from airborne particulates in the ambient air.

HORIZONTAL LAMINAR AIR FLOW

The regulated efflux of custom made laminar airflow supplies the work zone with ISO Class 5 air cleanliness to offer the best product production by a clean bench in the industry. The Horizontal Laminar Flow workstations pushes the air through a HEPA filter and directs the filtered air horizontally over the work surface at a constant speed, toward the operator.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	Horizontal
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS - 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Work Table	Stainless Steel Work Table with Reinforcement
Side Panel	Acrylic /Polycarbonate
Additional	5/15 Ampere Socket And Switches For External Equipment
Lights/Switches	Led Light & On/Off Switches For Blower & Light

Optional Accessories

- U.V. Light with hour meter
- SS 304 cock for gas and air
- Foldable polycarbonate front door
- Audio visual alarm indicating condition of HEPA filters
- Clean down timer with operation hold indicator
- Sodium vapor lamps
- Flame proof fitting

Reverse Laminar Air Flow offers easy solution to control your dust and vapor. Our equipment is designed to protect workers from breathing unsafe levels of particulates during material handling operations.

REVERSE LAMINAR AIR FLOW

Air flows from the booth ceiling, down across the operator's head, and into a grille below the operator's waist level, thereby drawing particulates away from the operator's breathing zone. We designs both standard and customized downflow booth for clean room application. The containment booths are economical and offer unmatched usages and specifications.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS – 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
HEPA Filter (Exhaust)	HEPA Filters Which Confirms To H 13 With Efficiency Of 99.9997% Down To 0.3 micron
Fine Filter	Fine Filter which conforms to F6 Grade with Efficiency Of 99 % Down To 5 micron

Optional Accessories

- Front Anti-static PVC Curtains
- Audio visual alarm indicating condition of HEPA filters
- Clean down timer with operation hold indicator
- VFD based control systems
- Sodium vapor lamps
- Flame proof fitting
- Safe change bag in / bag out arrangement for filters
- Double skin side panels with view windows
- Service access from front / back / side
- Horizontal internal coving at base



Air Shower are fully self-contained units, designed to provide complete decontamination solutions for various clean room applications. They are ideally installed at the entrance of a clean room or controlled environment chamber to minimize the entry of dust and particulate matters inside the clean room via the clothes and skin surfaces of the personnel.

AIR SHOWER

They use highly efficient pre-filters and HEPA filters for maintaining highly sterile working environments and an integrated fan/blower assembly to provide high velocity air streams for maximum scrubbing action against dust and particulate matters adherent on the exposed skin, clothes and material surfaces.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Velocity at Nozzel	25 - 30 MPS
Air Cleanliness	ISO CLASS - 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Interlocking	Interlocking between the doors by Electro Magnetic Locks
Door	S.S.304 Double Wall Sandwich Panel with Toughned View Glass
Power Supply	220-230 V AC/ Three Phase/ 50 Hz
Lights/Switches	Fluorescent Light & ON / OFF switches for Blower Light
Vibration Level	Minimum

Optional Accessories

- Audio visual alarm indicating condition of HEPA filters
- Clean down timer with operation hold indicator
- VFD based control systems
- Photophelic gauge / Digital pressure gauge to monitor of pressure drop across filter.
- Sodium vapor lamps
- Flame proof fitting



MIST SHOWER is uniquely design for micro labs and clean room application. Mist shower is now widely use in industries for decontamination from the cloths of the user.

MIST SHOWER

A mixture of air and water is spray on the cloths of the users. Comes with the microprocessor or PLC unit to control the whole process. Our versatile mist shower are quite adept at controlling the level of contamination for particle sensitive processes such pharmaceutical drug testing and for research applications involving molecular biology and biochemical experiments, cell and tissue culture experiments etc.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	From 2 Sides
Velocity at Nozzel	25 – 30 MPS
Air Cleanliness	ISO CLASS – 5
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Interlocking	Interlocking between the doors by Electro Magnetic Locks
Door	S.S.304 Double Wall Sandwich Panel with Toughned View Glass
Power Supply	220-230 V AC/ Three Phase/ 50 Hz
Lights/Switches	Led Light & On/Off Switches For Blower & Light

Optional Accessories

- Audio visual alarm indicating condition of HEPA filters
- Clean down timer with operation hold indicator
- VFD based control systems
- PLC Control



Biological Safety Cabinet are widely used for day to day clean room activities involving high risk patho-gens, etiological agents, non-volatile radio nuclides and limited degree of low toxic chemicals for various applications in research labs of all the branches of medical, agriculture, basic and applied science.

BIO SAFETY CABINET

We specialize in both standard and customized models of Biosafety Cabinet specially designed to meet the challenging demands of various scientists for individual and specialized research applications. With standard magnehelic gauges and controls. The floor standing & portable cabinet provides access for passage of materials inside through working table with upside sliding glass door. With Duct connected on the top of the Biosafety for Exhaust.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	Vertical - Recirculatory
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS - 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
HEPA Filter (Exhaust)	HEPA Filters Which Confirms To H 13 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Confirms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Side Frame	S.S.304 Double Walled
Front Door	Upside Sliding Glass Door with Manual or Motor Power
Exhaust	Small Exhaust Duct

Optional Accessories

- Front door with gloves and glove port arrangement
- Transfer hatch for material movement
- PLC based control system
- U.V. Light with hour meter
- Sodium vapor lamps
- Flame proof fitting



Garment Storage Cabinet for Clean Room is designed to maintain the cleanliness integrity of clean room garments during storage. It can effectively purge and remove particles such as lint and dust ingress on the clothing fabric.

GARMENT STORAGE CABINET

Garment Storage Cabinet features a quiet, direct drive, variable- speed blower mounted above a HEPA filter rated 99.99% 0.3m, and delivers a continuous horizontal flow of clean air that block the inrush of contaminants into the storage area, as a result, helps garments virtually free of particulates. Door of the scientific equipment is made available to make movable and curtain type.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	Vertical
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS – 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Trolley Wheel	PU Wheel with Locking arrangement
Additional	5/15 Ampere Socket and Switches for External Equipment
Light/Switches	LED Light & On/Off Switches for Blower and Light
Magnehelic Gauges	Equivalent make Magnehelic differential Pressure Gauge across supply heater

Optional Accessories

- U.V. Light with Hour Meter
- 6/15 amp single-phase switch socket for external equipment
- Electro-Magnetic / Mechanical Interlocking
- Audio visual alarm indicating condition of HEPA filters
- Sodium vapor lamps
- Flame proof fitting



DYNAMIC DRESS CABINET feature a quiet, direct drive, variable-speed blower mounted above a HEPA filter, rated 99.99% efficient at removing particles 0.3µm and larger. This blower/filter module delivers up to 120 linear feet/minute (0.61 m/s) of Class 10 air, a continuous downstream that blocks the inrush of contaminants into the storage area and helps to keep garments and other materials particle-free.

DYNAMIC DRESS CABINET

An air outlet located at the bottom of the storage area discharges air along with any contaminants that may have entered the cabinet.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	Vertical Laminar
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS - 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Indicators	Indicator & Buzzer is provided for Door Interlocking Signal
DOP Port	DOP Test Port for Upstream of HEPA Filter
Light/Switches	LED Light & On/Off Switches for Blower and Light
Magnehelic Gauges	Equivalent make Magnehelic differential Pressure Gauge across supply heater
Power Supply	220-230 V AC/ Single Phase/ 50 Hz

Optional Accessories

- U.V. Light with Hour Meter
- Electro-Magnetic / Mechanical Interlocking
- Audio visual alarm indicating condition of HEPA filters
- SS 304 removable grills on side walls for return air



MOBILE TROLLEY CABINET is designed to maintain the cleanliness integrity of clean room garments during storage. It can effectively purge and remove particles such as lint and dust ingress on the clothing fabric.

MOBILE TROLLEY CABINET

Clean Room Stoker features a quiet, direct drive, variable- speed blower mounted above a HEPA filter rated 99.99%0.3m, and delivers a continuous downstream that block the inrush of contaminants into the storage area, as a result, helps garments virtually free of particulates.

The work area is continuously supplied with positive pressure HEPA filtered re-circulated vertical / horizontal air flow.

Specifications

MOC	S.S.304 / S.S.316 / S.S.316 L / Powder Coated Steel / Customized
Flow	Vertical
Velocity at Grill	0.45 ± 0.05 MPS
Air Cleanliness	ISO CLASS - 5
Motor/Blower	Statically and Dynamically Balanced Motor Blower
HEPA Filter	HEPA Filters Which Confirms To H 13/ H14 With Efficiency Of 99.9997% Down To 0.3 micron
Pre-Filter	Pre Filter Which Conforms To G4 Grade With Efficiency Of 95 % Down To 5 Micron
Battery / Backup	Std Make- Amron/Exide/Equivalent/ 2-4 Hours
Inverter	Std Make Inverter
Trolley Wheel	PU Wheel With Locking arrangement
Additional	5/15 Ampere Socket And Switches For External Equipment

Optional Accessories

- U.V. Light with Hour Meter
- Electro-Magnetic / Mechanical Interlocking
- Audio visual alarm indicating condition of HEPA filters
- 6/15 amp single-phase switch socket for external equipment
- Clean down timer with operation hold indicator
- Sodium vapor lamps
- Flame proof fitting

AIR CURTAIN



AIR CURTAINS range especially designed to be installed in reduced spaces to create a barrier between two different areas. They create an effective barrier up to a distance of 1.5 m. Because of the volume/power ratio, they also fulfil a purpose as a heating element.

CROSS OVER BENCH

Crossover Bench provides a physical barrier between clean and unclean areas in pharmaceutical and cleanroom environments, facilitating proper gowning and preventing cross-contamination. Made from SS304 stainless steel with smooth, crevice-free surfaces for easy cleaning, it complies with GMP and cleanroom standards, and is installed in change rooms or airlocks to maintain hygiene and area segregation.



CLEANROOM FURNITURE



CLIENTEL

ASSEMBLY & SERVICES

With our vast experience of cleanroom installation around the world, we are able to offer a comprehensive solution, not just a product or system.

We not only offer our customer the know - how for product development, manufacturing and installation, but also a complete range of cleanroom service to ensure quality, function and on-time delivery.

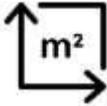
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Location (MH) INDIA Mahad, Raigad	Corporate Office Mumbai, INDIA	Area Sq.Mt 13900		Employee Strength 225+	Experience Years 20+	Projects Completed 750+



Our Global Foot Prints

Algeria	Bangladesh	Bolivia	Egypt	Ghana	Iran	Oman	Kenya
Nepal	Philippine	Qatar	Sri Lanka	Vietnam	UAE	UK	USA