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ISO 9001:2015  
**CERTIFIED  
ORGANISATION**

A background image of a city skyline with various skyscrapers. The left side of the image is overlaid with a red semi-circle, and a large blue semi-circle is positioned in the foreground, containing the main text.

MANUFACTURE OF  
**AIR FILTERS  
AND CLEANROOM  
EQUIPMENTS**

—  
Specializing in innovative Turnkey Solutions for Pharmaceutical,  
Biotechnology and Healthcare/Hospitals Segments.

—  
[www.mapfilters.com](http://www.mapfilters.com)

# Introduction

**MAP FILTERS (INDIA) PVT. LTD. is a Global Engineering and Manufacturing Company Specializing in innovative Turnkey Solutions for Pharmaceutical, Biotechnology and Healthcare / Hospitals Segments.**

With over two decades of experience. We have grown into one of the leading Engineering and Construction Partners for Pharmaceutical and Allied Industries.

Over the years we have diversified from Designing and Construction of Cleanrooms and Controlled environments for Pharmaceutical & Biotech Companies, into a Complete, Turnkey Solution Provider. Today our capabilities include **In-house Design, Engineering, Construction And Manufacturing** for Critical and Vital elements that go into setting up of a Speciality Manufacturing Facility.

## **Manufacturing of Air Filters & Cleanroom Equipments.**

We are one of the Companies Internationally to have our own Manufacturing of Cleanroom Equipments and Air Filters. Our Premises is about 6000 sq.ft. Big placed in the Vicinity of Mumbai, one of the biggest Industrial belts of Maharashtra.

We are Continuously Progressing Under the Proficient guidance of our owner, **Mr. Karunakar Samantaroy**. Due to his Leadership Abilities And Strong Business Acumen, We have been able to attain a Commendable Position in the Market.

ISO 9001:2015

**CERTIFIED ORGANISATION**



## PRODUCT CATEGORIES

**01** AIR FILTERS

**02** CLEANROOM EQUIPMENTS

**03** HVAC EQUIPMENT'S

**04** CLEAN ROOM TURNKEY SOLUTION

# Applications



**Pharmaceutical Industry**

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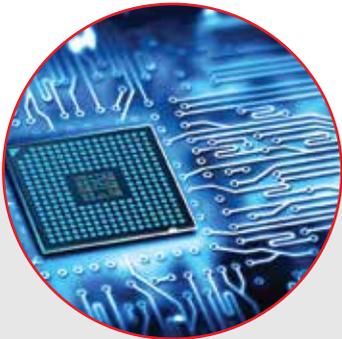
**Chemical Research laboratory**

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**Electronic Industry**

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**Semi-Conductor Production**

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**Food Processing Industry**

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**Hospital Segments**

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# 01 AIR FILTERS



## PRE-FILTER

**PRE FILTERS** are the first stage filtration installed in the AHU to prevent dust particle to pass through air. It has other applications in equipment like Laminar Air flows, Dispensing Booths & other air particle control system. Suitable for use as filter grade G1 to G4 of EN779 and MERV 1 to 7 of ASHRAE 52.

We manufacture top class **PRE FILTERS** of standard & customized sizes.

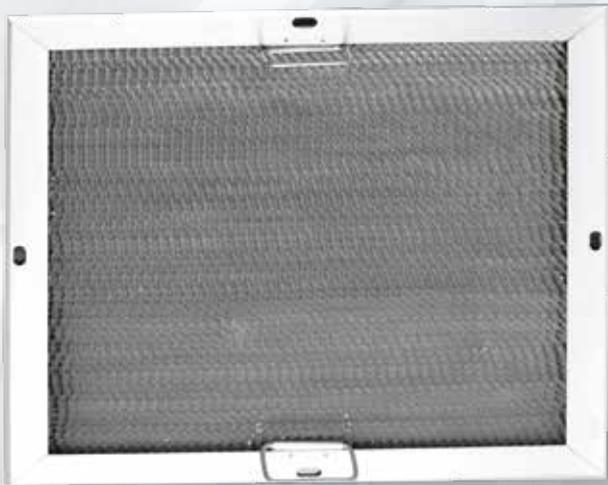
## FINE FILTER

**FINE FILTERS** or **MICROVEE FILTERS** are filters installed in the AHU to prevent dust particle to pass through air. Suitable for use as filter grade F5 to F9 of EN779 and MERV 8 to 15 of ASHRAE 52.

We manufacture top class **FINE FILTERS** of standard & customized sizes.



## 01 AIR FILTERS



### CONVENTIONAL HEPA FILTER

Conventional High Efficiency Particulate Air (HEPA) Filter made of sub-micron glass-fibre filter paper, the most efficient air cleaner.

The **Conventional Hepa filter** is certified to have minimum efficiency of 99.99% in removing particles of 0.3 microns and above. All HEPA filters designed and built by us meet the highest standards and are customized to client specified needs.

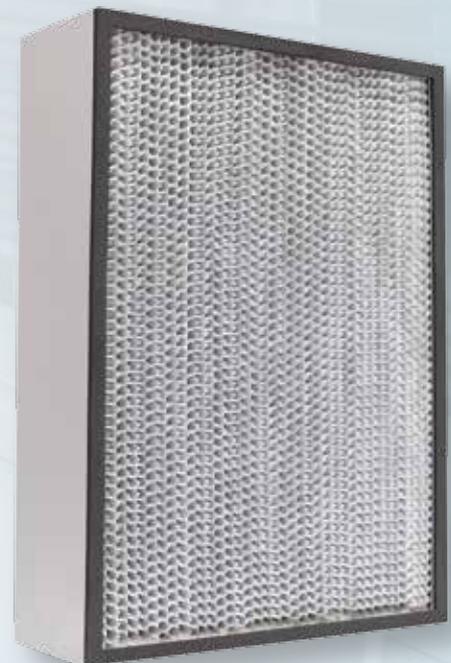
Experts monitor and assemble our systems under stringent quality standards.



### SUPER HEPA FILTER

**Super HEPA Filter** is superior version of HEPA Filter It is pleated with more media to take care of additional CFM drawn .A SUPER HEPA can handle double CFM in the same size when compared to normal HEPA filter. It is made out of borosilicate microfibers paper assembled in aluminum housing .A good resin bonding ensures no bypass of air between media and frame.

These are available in EU-11, EU12, EU13, EU14 grade having minimum efficiency of 99.97% down to 0.3 micron. Standard depth is 150 and 300 mm-Other sizes are also made as per order.



## 01 AIR FILTERS



### MINIPLEAT HEPA FILTER (GASKET SEAL)

The **Mini pleat Hepa Filter** is designed to meet the demanding airflow and efficiency requirements of the semiconductor, pharmaceutical, biotech, food processing, and other industries in which airborne contaminants must be carefully controlled.

The media pack is bonded to the sides of the extrude aluminum frame with urethane adhesive, forming an airtight seal. Microglass media is water-resistant and fire-retardant.



### MINIPLEAT HEPA FILTER (GEL SEAL)

**Mini Pleat Gel Seal HEPA Filter** is an advanced version of conventional Mini-pleat filters in which gasket is replaced by Silica gel which ensures 0% leakage from the sides/flanges.

Made by very fine high-efficiency micro fiber glass paper media interspaced with hot melt pleating & enclosed in Al. Extruded sections.



# 01 AIR FILTERS



## BASKET FILTER



**Basket strainers** permit the straining & filtering of a wide variety of fluids, to retain solids of almost any size. All baskets are easily removable & cleanable. Basket strainers elements can be offered in single cylinder, double cylinder, multi cylinder & pleated design depend upon requirement of application.

These basket strainers are constructed of filter housing, filter element supported with perforated cage, positive sealing arrangement to avoid any bypass & choice of end connections.



## DUST FILTER CARTRIDGE

**Filter cartridges** and pleated dust collection cartridges. SS pleated filter cartridges, washable net filter cartridges and pleated PP high efficiency cartridges etc.

Construction: Pleated filter media is covered inner side and/or outer side by metal mesh or mesh made from SS/ galvanized steel sheet, flanges at both ends with lugs. Pleated filter media fixed in top and bottom caps made from SS/ steel sheet. Rubber or polyurethane gasket may provide on the top and bottom side or either side of the collectors.

Filter media used in this type of cartridges are filter paper of various GSM with special treatment like antistatic, PTFE coating, water/oil repellence coating.



# 01 AIR FILTERS



**PLEATED BAG WITH METAL  
TOP & BOTTOM**



**DIN TYPE  
FILTER CARTRIDGE**



**PP HOUSING**



**WOUND  
CARTRIDGE**



**PP PLEATED  
CARTRIDGE**

## 02 CLEANROOM EQUIPMENTS



### AIR SHOWER

**Air Shower** is designed to supply Class 100 HEPA filtered air at high velocity it helps remove particulate matter from the personnel entering into the clean room.

**Air Shower** works as partial clean equipment installed at the partition between the clean room and non-clean rooms to shower the personnel or matter before entering the clean area.

These units helps to remove dust effectively and maintains the normal working status.

## 02 CLEANROOM EQUIPMENTS

### REVERSE LAMINAR AIR FLOW UNIT



### DISPENSING BOOTH

**Dispensing booth** is a kind of laminar flow filtration cabin which is employed in dispensing, sampling and weighing of powders and chemicals in pharma, biotech and chemical industries.



### SAMPLING BOOTH

**Sampling Booths** are designed to give mixed air flow stream for product, operator and environmental protection and used to control the hazardous emissions of dust powder during powder sampling process.



## 02 CLEANROOM EQUIPMENTS



### BIO SAFETY CABINET (Class II A2 & Class II B2)

**Bio-Safety Cabinets**, also known as biological safety cabinets, are enclosed, ventilated laboratory workspace areas designed to protect the user and surrounding environment from pathogens.

All exhaust air is HEPA filtered to remove hazardous agents such as viruses and bacteria. Bio-safety cabinets are used in many laboratories including clinical and research labs.

We manufacture top class **BIO SAFETY CABINET** of standard & customized sizes.



### HORIZONTAL LAMINAR FLOW UNIT

Laminar Air Flow work stations are designed for creation of a bacterial dust free air space. The work area is continuously supplied with positive pressure HEPA filtered Horizontal airflow & prevents contamination from operator and environment to work area.

Airflow work stations are used for work with low risk substances & material.

We manufacture top class **HORIZONTAL LAMINAR FLOW UNIT** of standard & customized sizes.



## 02 CLEANROOM EQUIPMENTS



### STATIC PASSBOX

**Static Pass Boxes** help to minimize the amount of particulate contamination entering the clean room and also ensure to reduce the operator traffic. The extensive range of equipment and material is passed into the clean room via the pass box, as these are fitted with a mechanical interlock system that prevents both doors from being opened at the same time.

Our range is highly affordable way to maintain the cleanliness of room, easy to install and adaptable to different working conditions.



### DYNAMIC PASSBOX

**Dynamic Pass Box** equipment are made of powder coated high grades stainless steel (304) with international quality standard components including mechanically or electrically interlocked doors and UV light.

These **dynamic pass box** equipment are equipped with suction filter made of stainless steel with 95% down to  $5\mu$  efficiency (EU-4 rating) and supply filter made of aluminum with 99.999% down to  $0.001\mu$  (EU-14 Rating). An interlock guard system controls the inlet and the outlet of PASS BOX not be opened at the same time, in order to prevent the cross contamination.



## 02 CLEANROOM EQUIPMENTS

### VERTICAL LAMINAR AIR FLOW



### CEILING SUSPENDED LAF

**Ceiling Suspended Laminar Air Flow** work stations are designed for creation of continuous supply of positive pressure HEPA filtered air, thus creating a dust free clean air. Best for aseptic filling areas.

We manufacture top class **CEILING SUSPENDED LAMINAR FLOW UNIT** of standard & customized sizes.



### STAND MOUNTED LAF

**Ceiling Suspended Laminar Air Flow** work stations are designed for creation of continuous supply of positive pressure HEPA filtered air, thus creating a dust free clean air. Best for aseptic filling areas.

We manufacture top class **CEILING SUSPENDED LAMINAR FLOW UNIT** of standard & customized sizes.



## 02 CLEANROOM EQUIPMENTS



### MOBILE LAMINAR AIR FLOW UNIT (VERTICAL / HORIZONTAL)

**Mobile Laminar Air Flow Trolley** is for transferring the sterile products from non-sterile area to sterile area under ISO Class 5 (Class 100) particle free work area.

The work area is continuously supplied with positive pressure from HEPA filtered recirculated/once through horizontal / vertical air flow.



## 02 CLEANROOM EQUIPMENTS



### GARMENT STORAGE CABINET ( STATIC )

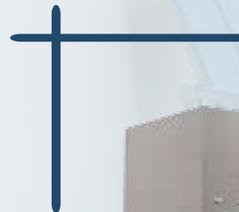
**Garment Cubicles** with HEPA Filters are used for storing sterile aprons, garment & other accessories. The unit prevents contaminations from outside dust particles and air borne bacteria.

The inside of the cubicle is flushed with fresh air supplied from HEPA filter which is re-circulated. We manufacture top class **STATIC GARMENT CABINET** of standard & customized sizes.



### STERILE GARMENT STORAGE CABINET ( DYNAMIC )

These are widely used for storage of clean apparel for cleanroom as these are equipped with HEPA filter and U.V. germicidal tube. Therefore, these are safe and ensure that the garments completely free from bacterial contamination. We offer these cubicles with additional features for odour neutralization and electric heater and U.V. that meet the demands of various sectors. We make Dynamic Garment Storage Cabinets (Cubicle). Which are ideal for controlled environment chamber and facilitate optimal storage of cleanroom garments, tools, wipes, process equipment and other consumables.



## 03 HVAC EQUIPMENT'S



### AIR HANDLING UNIT



We undertake the design and supply of **Air Handling Unit (AHU)** for Pharma, biotech and Nutra-ceutical facilities. The AHUs are designed to suit specific classifications needs of a particular work environment. Be it classification in terms of Class 100000 or be it graded like Grade C or Grade B.

The design of AHU system is worked out in tandem with the civil engineering group for slab cutouts or with cutouts on the walk-on false ceiling.



### HEPA TERMINAL BOX

We are engaged in providing high quality **Hepa Terminal Box** .This box is used to improve the appearance of the clean room We provide this box to clients in a variety of sizes and other associated characteristics, as well as at normal costs.



## 03 HVAC EQUIPMENT'S



### RETURN AIR DIFFUSER

**Return air diffuser's** main job is to pull air from a specific area and recycle it through the HVAC system. As a result, the recycled air within the system is better conditioned by cooling and heating, resulting in increased airflow efficiency within the space.



### VOLUME CONTROL DAMPER

**Volume control dampers** are used to control the amount of air that flows through duct systems. They can be utilised as positive shutoffs, as well as for automated control in low-leakage HVAC systems or systems that need airflow modulation. Control dampers are commonly used in ductwork with low to medium airflow velocity and static pressure.



## 03 HVAC EQUIPMENT'S



### RETURN AIR GRILL

An **air return** is a vent grille that is commonly found in a corridor or in the ceiling. Its purpose is to take air from a room and recycle it through the system to later conditioned by cooling or heating. Since air returns do not have a damper, **Air returns** must allow unrestricted passage of air into the vent.



### RETURN AIR RISER

Leveraging on our vast industry expertise, we are offering a wide range of **Return Air Riser**, which is developed to ensure leak proof installation. Our range of return air risers is extensively applied to overall appearances of cleaned rooms.

Further, our range is renowned for high-end features such as corrosion resistance and low maintenance.



## 04 CLEAN ROOM TURNKEY SOLUTION



### MODULAR CLEAN ROOM (WALL / FALSE CEILING PANEL, DOOR & WINDOW)



In almost every industry where microscopic particles might disrupt the manufacturing process, cleanrooms are employed. They come in a variety of sizes and complexity, and they're widely utilised in semiconductor production, pharmaceuticals, biotech, medical device manufacture and many more.

A cleanroom is any enclosed facility in which particle pollution is reduced and other environmental factors such as temperature, humidity, and pressure are controlled.



### MODULAR CLEAN ROOM (EPOXY COVING AND FLOORING)

Coving is a type of Epoxy Mortar that is put to the wall and floor junction to produce a radius that is seamlessly integrated into the floor system. As a result of this, Bacteria will not be able to breed in the wall and floor junction.



## 04 CLEAN ROOM TURNKEY SOLUTION



### MODULAR CLEAN ROOM HVAC / DUCTING



The cleanroom air handling system, like regular HVAC, regulates the temperature and humidity to your desired levels of accuracy.

Cleanroom HVACs differ from typical systems not only in terms of comfort, but also in terms of enhanced air supply, airflow patterns, the use of high-efficiency clean room filters, and room pressurisation.



### MODULAR CLEAN ROOM VALIDATION AND MAINTENANCE

The ability of the clean room to eliminate particles by purging the space with filtered air is demonstrated in clean room validation and maintenance tests.

Validation and testing of cleanrooms guarantees a completely secure environment and ISO compliance. It gives you piece of mind knowing that your cleanroom is working as expected and that Total Clean Air are monitoring your cleanroom compliance.



# Cleanroom Furniture & Other Fabrication Items



## MANY TYPE POWDER SAMPLER



**POWDER SAMPLER  
(SOLID ROD TYPE)**

**POWDER SAMPLER  
(ROTARY TYPE)**



**POWDER SAMPLER  
(HOLLOW PIPE)**

# Cleanroom Furniture & Other Fabrication Items



## MANY TYPE LIQUID SAMPLER



**NORMAL LIQUID SAMPLER**



**BOTTOM LIQUID SAMPLER WITH SPRING LIVER TYPE**



**MULTI LEVEL LIQUID SAMPLER**

**LIQUID SAMPLER HAVING 3 CUPS (TOP ; MIDDLE ; BOTTOM.)**



**VACUUM LIQUID SAMPLER**

## Cleanroom Furniture & Other Fabrication Items



### MANY TYPE MS TROLLEY



**MS DRUM TROLLEY**



**PLATFORM TROLLEY**

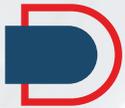


**BOX TYPE PLATFORM  
TROLLEY**



**MOPPING TROLLEY  
WITH SQUEEZER**

# Cleanroom Furniture & Other Fabrication Items



## MANY TYPE SCOOPS



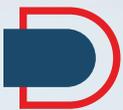
**OPEN TYPE SCOOP**

**CLOSE TYPE SCOOP  
BOTTOM HANDLE**



**CLOSE TYPE SCOOP  
SIDE HANDLE**

# Cleanroom Furniture & Other Fabrication Items



## OTHER PRODUCTS OF B. J. PRODUCTS



**MUG**



**BUCKET  
( STRAIGHT TYPE )**



**BUCKET  
( TAPPER TYPE )**



**FUNNEL**



**SPATULA  
( TEFLON SCRAPER )**



**SOP STAND**



**BOWL TYPE SPOON**



**SPOON WITH SPATULA**



**SPATULA ( SCRAPER )**

## Cleanroom Furniture & Other Fabrication Items



**FOLDING TABLE**



**CANTEEN TABLE WITH ATTACH STOOL**



**REVOLVING STOOL WITH HEIGHT ADJUSTABLE**



**REVOLVING CHAIR WITH HEIGHT ADJUSTABLE**

**BOTTLE (JAR) WITH TEFLON BUSH**



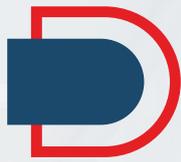
**THREADING TYPE LID**



**T.C. CLAMP TYPE**



**LIQUID STORAGE VESSEL**



# Our Valuble Clients

 <p><b>ALKEM</b></p>	 <p><b>tifr</b></p>	 <p><b>Galaxy</b> <i>Global Supplier to Global Brands</i></p>	 <p><b>glenmark</b> A new way for a new world</p>
 <p><b>Rūsan</b> HEALTHCARE</p>	 <p><b>Kopran</b></p>	 <p><b>Cipla</b></p>	 <p><b>Reliance</b> LIFE SCIENCES</p>
 <p><b>MAC</b> MAC - CHEM PRODUCTS (INDIA) PVT. LTD.</p>	 <p><b>FDC</b></p>	 <p><b>NEM</b> Laboratories Pvt. Ltd.</p>	
 <p><b>ipca</b> A dose of life</p>	 <p><b>MERCK</b> INVENTING FOR LIFE</p>	 <p><b>ANKUR</b> DRUGS AND PHARMA LTD Leaders in Contract Manufacturing</p>	
 <p><b>SCHOTT KAISHA</b></p>	 <p><b>LOBA Chemie</b> LABORATORY REAGENTS &amp; FINE CHEMICALS</p>	 <p><b>Pernod Ricard</b></p>	
 <p><b>MACLEODS</b> Macleods Pharmaceuticals Limited</p>	 <p><b>ALS</b> Here to enrich</p>	 <p><b>HAL</b></p>	
 <p><b>TOTAL</b></p>	 <p><b>Pfizer</b></p>	 <p><b>VHB</b> SINCE 1946 Life Sciences Limited</p>	

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