Genious Pharmatech Industries

CLEANZONE SOLUTIONS

FILTRATION EXPERTS

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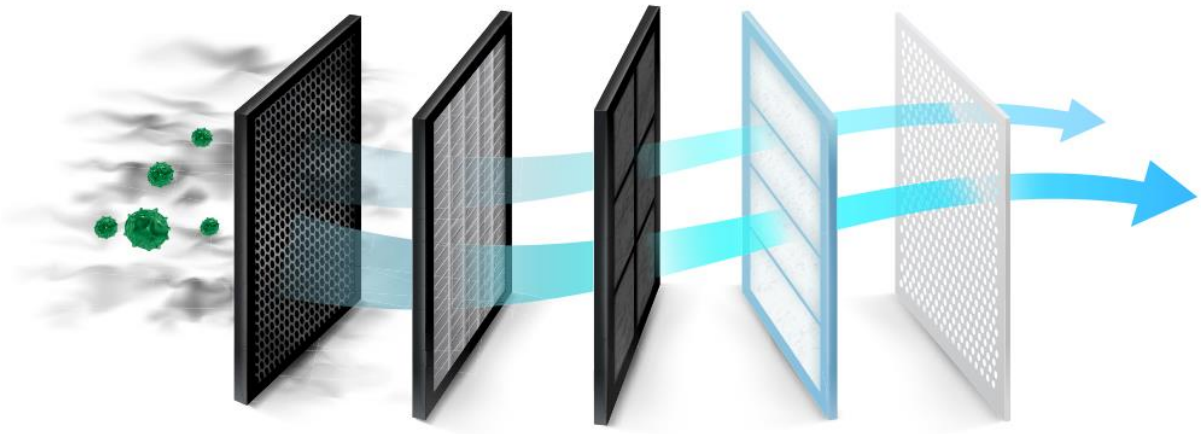
ABOUT US

Genious Pharmatech Industries is a leading manufacturer of Air Filters. We serves in the air filtration industry and aims to provide Environmental Safety, Industrial air Protection, Health Care, Air Quality Maintenance etc.

We are as a young dynamic and progressive unit in the field of manufacturing of Air filters with the help of highly skilled and dedicated production team. We have earned a good reputation with our esteemed clients, with respect to our quality, timely supplies and also our after sales service. Moreover, we always keep ourselves updated with the new trends in the market so that we use the highest quality of materials and stile our products remain economical for our customers.

We are the largest suppliers to many of the Pharmaceutical, Fertilizer, Chemical plants, Automotive Industries, Turbo-machinery Segment and Cement Industries. We also are fully equipped with all the testing facilities. We assure you our best quality and best of our attention at all times.



Classification of Air Filters Based On BSEN779-2012 Standard

A] CLASSIFICATION OF COARSE FILTERS AND FINE FILTERS

GROUP	FILTERCLASS	FINAL PRESSURE DROP (Pa)	AVERAGE ARRESTANCE (Am) OF SYNTHETIC DUST (%)	AVERAGE EFFICIENCY (Em) OF 0.4 µm PARTICLES (%)	MINIMUM EFFICIENCY(*) OF 0.4 µm PARTICLES (%)
COARSE	G–1	250	50 ≤ Am < 65	-	-
	G–2	250	65 ≤ Am < 80	-	-
	G–3	250	80 ≤ Am < 90	-	-
	G-4	250	90 ≤ Am	-	-
MEDIUM	M–5	450	-	40 ≤ Em < 60	15
	M-6	450	-	60 ≤ Em < 80	25
FINE	F–7	450	-	80 ≤ Em < 90	35
	F–8	450	-	90 ≤ Em < 95	55
	F-9	450	-	95 ≤ Em	70

* MINIMUM EFFICIENCY IS THE LOWEST EFFICIENCY AMONG THE INITIAL EFFICIENCY, DISCHARGED EFFICIENCY AND THE LOWEST EFFICIENCY THROUGHOUT THE LOADING PROCEDURE OF THE TEST.

B] CLASSIFICATION OF EPA, HEPA AND ULPA FILTERS

FILTER CLASS	INTEGRAL VALUE		LOCAL VALUE	
	EFFICIENCY (%)	PENETRATION (%)	EFFICIENCY (%)	PENETRATION (%)
E–10	≥85	≤15	…a	…a
E–11	≥95	≤5	…a	…a
E–12	≥99.5	≤0.5	…a	…a
H–13	≥99.95	≤0.05	≥99.75	≤0.25
H–14	≥99.995	≤0.005	≥99.975	≤0.025
U–15	≥99.9995	≤0.0005	≥99.9975	≤0.0025
U–16	≥99.99995	≤0.00005	≥99.99975	≤0.00025
U-17	≥99.999995	≤0.000005	≥99.9999	≤0.0001

…a- GROUP E FILTERS (CLASSES E10, E11, E12) CANNOT AND SHALL NOT BE LEAK TESTED FOR CLASSIFICATION PURPOSES.

Classification Of Air Filters Based On BSEN ISO 16890-1:2016

ISO 16890-1:2016 (E)

FILTER GROUPS				
GROUP DESIGNATION	REQUIREMENT			CLASS REPORTING VALUE
	ePM1, min	ePM2.5, m	ePM10	
ISO COARSE	------	-----	< 50%	Initial grav. Arrestance
ISO ePM10	-----	-----	≥ 50%	ePM10
ISO ePM2.5	-----	≥ 50%	-----	ePM2.5
ISO ePM1	≥ 50%	-----	-----	ePM1

PRE FILTERS

DISPOSABLE PLEATED FILTERS G-3, G-4, M-5, F-6, F-7

WASHABLE PLEATED FILTERS G-3, G-4, M-5, F-6, F-7

WASHABLE PLEATED FILTERS G-3, G-4, M-5, F-6, F-7

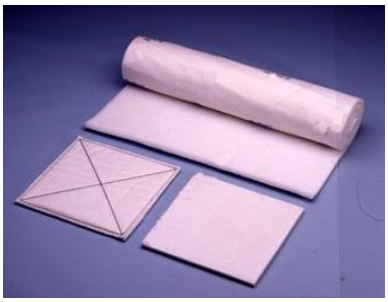
PLEATED TYPE PRE FILTERS G-3, G-4, M-5, F-6, F-7

EXHAUST & HT PRE FILTERS G-3, G-4, M-5

ROD TYPE PRE FILTERS G-3, G-4, M-5, F-6, F-7

CEILING FILTERS

SYNTHETIC FILTER MEDIA ROLLS G-2, G-3, G-4



CEILING FILTERS IN PAINT BOOTH M-5

PAINT ARRESTOR FILTER ROLLS / HIGH LOFTED GLASS FIBERMATS

POCKET FILTERS

FIVE POCKET FILTERS G-4, M-5

SIX POCKET FILTERS G-4, M-5, F-6

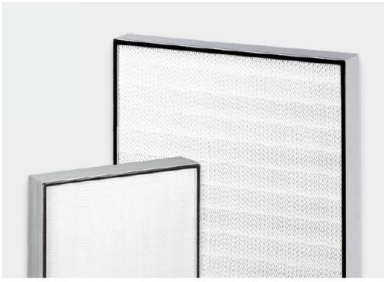
EIGHT POCKET FILTERS F-6, F-7, F-8

POCKET FILTER IN MELTBONE MEDIA M-5, F-6, F-7, F-8

FINE FILTERS

MVIGT FILTER IN PLASTIC FRAMNE F-6, F-7, F-8, F-9

MVIGT FILTER IN PLASTIC FRAMNE F-6, F-7, F-8, F-9



MINIPLEAT FILTERS IN ALUMINIUM FRAME F-6, F-7, F-8, F-9

HIGH FLOW MIINIPLEAT HEPA FILTER F-6, F-7, F-8, F-9

HEPA FILTERS

HEPA FILTER F-8, F-9, E-10, E-11, E-12, H-13, H-14

HIGH TEMPERATURE HEPA FILTER F-7, F-8, F-9

MINIPLEAT FILTERS IN ALUMINIUM FRAME H-13, H-14

SUPER HEPA FILTER IN ALUMINIUM FRAME F-6, F-7, F-8, F-9

TERMINAL HOUSING

Nathkrupa Pharmatech Industries Housings allows quick Filter change with enabled aerosol injection ports. Air tightness is ensured with heavy duty material and fully welded housing. Terminal Housings contain rigid headers with lifting hooks available. Enabled with perforated diffusers, side entry or top entry, dampers, tool-less filter clamping. We have a wide range to offer to the customers according to their application needs. Housings can be accommodated with GEL sealed filters as well for pharma industry.

Our terminal housing has a low noise level and low energy consumption.

Application: Housing for filters in cleanroom

MOC: Stainless Steel, Galvanized Steel powder Coated (RAL 9002), Aluminium Extruded

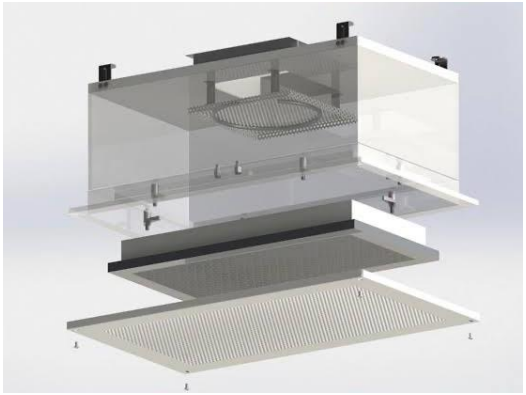
Diffuser: Perforated Sheet

Volume Control Damper: Gear Operated/ Butterfly type

Accessories: In stainless steel

Type: Terminal Housing (Square or circular)

Installation: T Grid System, By Hangers, Ceiling Panels



CLEANROOM EQUIPMENTS

Static Pass Box

Although simple in design, the use of a Pass-Thru is essential to the maintenance of the high level of cleanliness within the cleanroom. The Pass-Thru significantly limits the amount of outside air exposed to the clean zone. With the use of either a mechanical or electrical interlock system, the cleanroom is protected from the cross-contamination which would occur if both doors were to open simultaneously.

Dynamic Pass Box

Dynamic Pass box is designed to minimize entry of contaminants and also cross contamination into the clean rooms and at the same time safe transfer of material, equipment, documents or samples between clean rooms or rooms in different grade or/and pressure. Usage of pass boxes minimizes the risk of airborne cross contamination. Further add on function such as air circulation and filtration, UV lights, etc. to the base model will make transfers of your material even safer and cleaner.

Sampling/Dispensing booth

Dispensing booth is a kind of partial purification equipment, for filling, refilling, weighing and sampling of raw material and Compounds especially used for pharmacy, micro-organism research and scientific experiment and other places. Dust particles available are being filtered at three levels of filtration system. This system takes care of product, person and environment safety. The unit is custom made in various sizes as per user requirement. The unit is available in stainless

Laminar Air Flow Bench

Laminar flow benches are a critical component of any clean room facility. Benches can be horizontal, or vertical, whichever maximizes contamination protection for your application. Used in a variety of applications including m e d i c a l r e s e a r c h laboratories, hospitals, manufacturing f a c i l i t i e s and other research and production environments Al units incorporate a 99.99% efficient HEPA filter at 0.3 M in a c c o r d a n c e w i t h I S 0 1 4 6 4 4 - 1 specifications.

Ceiling Suspended laminar

A class 100 air flow in the work area for operations where a product is of utmost importance. The unrestricted o p e n front work a r e a allows t h e u s e of e q u i p m e n t u n d e r sterile conditions. The Laminar Air Flow Cabinet is designed to provide a high degree of protection for products in laboratories and production facilities. Many critical applications in the medical, pharmaceutical, nuclear-power, and micro electronic fields demand an ultra-clean work environment which is free from biological and particulate contamination

Bio-Safety Cabinet

A bio-safety cabinet (BSC) - also called biological safety cabinet or microbiological safety cabinet - is an enclosed, ventilated laboratory workspace for safely working with materials contaminated with (or potentially contaminated with pathogens requiring a defined bio safety level. The need to protect personnel, product, and the environment from exposure to biohazards and cross contamination during routine procedures has never been more acute. The Company has developed a wide variety of biological safety cabinets designed to meet diverse applications in the life science, medical, clinical, research, defence, education, pharmaceutical, industrial laboratory and general healthcare sectors. Biosafety Cabinet includes Class I, Class Il / Type A, Class Il / Type B2 and Class Ill and also customized models are available as per the request. The Biosafety Cabinet is designed in such a way to protect operator, product and environment from external

Air Shower

Due to the requirement of near sterile conditions in clean rooms, air showers are used to decontaminate by blasting dirt and dust particles off personnel entering the place. The pollutants carried by personnel can affect special equipment. Their use can potentially eliminate contamination and in turn prevent loss of important manufacturing, such as expensive batches of pharmaceutical chemicals and semiconductor wafers. Thus, air showers are common in many factories where sterile conditions are needed. Air showers are specialised antechambers which personnel need to pass through before entering clean rooms in order to decontaminate. This is done so by clearing off dust and dirt particles from bodies of clean room personnel to minimize contamination of equipment or products

Air Curtain

Genious has been manufacturing high quality air curtains from long period. Our air curtains protect building environments from e n e r g y loss a n d windborne dust, dirt and fumes, along with flying insects. The air barrier created by the light stream of air over a d o o r w a y h e l p s t o i m p r o v e inside

DUST CONTROL / DUST EXTRACTION SYSTEM

We offer complete line of Dust Collection Equipments like Bag Filter, Cyclone, Scrubber etc.

- Air borne Dust generated in plant due to handling, Transferring, Processing, Loading / unloading etc. gets sucked and is routed through proper sized ducting network to DUST FILTERING EQUIPMENT.
- An Efficient Method of filtering the air borne dust giving effective working environment there by eliminating the Dust Hazard.
- Our Dust Control System satisfies all Pollution Control Board regulations and their requirements of Emission Norms. The system is designed with Optimum Power Economics and suitable Duct Sizing.

DUST COLLECTOR / BAG FILTER

Working principle of our Dust Collector or Bag Filter are:

- Air Borne dust/powder enters in hopper (variety of inlets, depends on nature of dust).
- Air + Dust travels to Bag. Fine Dust/Powder retain on the bags;
- Heavy dust settles in hopper. Clean Air is passed through bags.
- Clean Air Exists from the Top of the Bag Filter.
- Compressed Air header with blow pipe network provides filter cleaning.
- Pulse Valve, connected to blow pipes is controlled by sequential timer for filter bag cleaning.
- Cleaning the Filter Bags by Reverse Pulse Jet of Compressed Air. Dust released from the bags get settled in the hopper.
- Collected Dust/Powder in hopper is discharged through different aids provided at hopper discharge in Rotary Valve, Double Dump Valve, etc.


Airtight
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