



## ENVIRONMENTAL ENGINEERING FILTERS PVT. LTD.

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Dealer Stamp & Address



## AIR FILTERS

Cleaner the environment,  
healthier the Life...



[www.eecfilters.com](http://www.eecfilters.com)

## Air filter selection chart

### Typical particle arrestance efficiency for various grades of filter media Particulate diameter in microns

1 micron = 1/1000 of a mm

10 micron = 10/1000 of a mm and is the smallest particle able to be seen by the human eye.

Rating performance	10 micron	5 micron	1 micron	0.5 micron	0.1-0.3 micron	Filter type
G1	90%	60%	20%	0%	0%	Filter type
G2	96%	75%	30%	10%	0%	Filter type
G3	97%	85%	45%	25%	0%	Filter type
G4	98%	92%	58%	35%	5%	pre-filter
F5	98%	97%	70%	45%	20%	secondary
F6	99%	98%	82%	62%	40%	secondary
F7	99.9%	99%	88%	72%	55%	secondary
F8	99.9%	99.9%	97%	88%	78%	secondary
F9	99.99%	99.99%	98%	95%	93%	secondary
H 10-H 14	100%	100%	100%	100%	99.99%	HEPA
U 15-U 17	100%	100%	100%	100%	99.9975%	ULPA

- For more information on HEPA or ULPA grades please contact your local distributor

#### AS1324 test dust approximate micron sizes :

No. 1 (methylene blue) - mass median diameter of .65 microns

No.4 5% Cotton fibres

23% Mollocko Black 0.8 micron

72% Air Cleaner fibres 39% 0 to 5 micron

18% 5 to 10 micron

16% 10 to 20 micron

18% 20 to 40 micron

9% 40 to 80 micron

#### Sizes of particles :

Heavy industrial dusts - up to 4000 micron (4mm) Fine road dust - 5 to 20 micron

Dense smoke carbons and cigarette smoke - 0.01 to 1 micron bacteria - 0.8 to 10 microns :

Pollens - 5 to 80 micron

Mould spores - 3 to 15 microns

Viruses - 0.01 to 0.25 microns

### Primary filter (Blue/ White)

EEC pre filter media is manufactured from thermally bonded from hard and thick polyester fiber graded density for more dust holding and low initial pressure drop. EEC blue/white has additional layer of fine coated fiber at air outlet side to ensure better arrestance of dust particle on smaller size. the main application is HVAC, paint booth, general protection of equipments.



Model	BF-200	Model	BF-200
Weight	240gr./sqm.	Thickness	16 mm

### Primary filter (White)

EEC pre filter media is manufactured from thermally bonded from hard and thick polyester fiber graded density for more dust holding and low initial pressure drop. EEC pre filter media remain in the shape after loading due to its hard fiber bonding. EEC pre filter media are available in different density and thickness as per application and construction of filter assembly. The main application is Pre filter stage in HVAC, Paint booth etc.



Model	AZ-300	AZ-200	AZ-150
Weight	300gr./sqm.	200gr./sqm	150gr./sqm
Thickness	18 mm	15 mm	12 mm

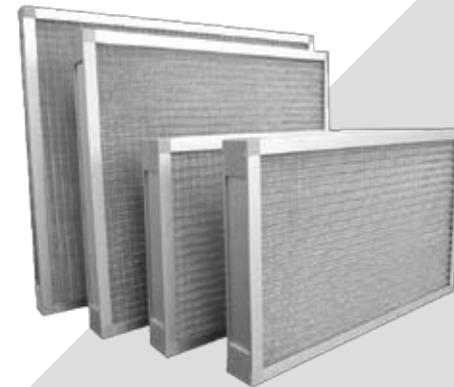
## [Filter Series]



### Metal Mesh Coarse Air Filter

EEC metallic filter is manufactured from multi-layer of AL/GI/SS mesh of different opening size in weaved shape. EEC metallic filters are available in AL /GI/SS/MS powder coated frame. main application HVAC, intake system.

- Available standard size 595 x 595 / 595 x 495 ;
- 14-20mm depth ;
- Non standard size are available on customer request ;
- Media - Metal Mesh ;
- Large Air flow ;
- Low resistance ;
- Can be washed repeatedly ;
- Long service life.

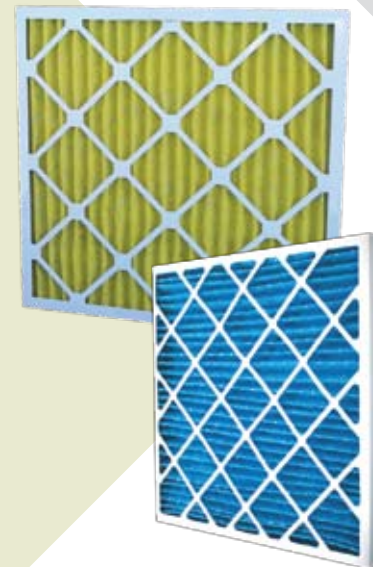


### High Capacity Pleated Filter

EEC pre filter is manufactured from Synthetic non woven media or cotton blend in metallic or cardboard frame. EEC Pre filters are available in flat and pleated construction to increase the filtration area.

Main application - HVAC, paint booth, intake system

- It is available in G2-G4 Grade ;
- Low resistance ;
- High dust holding capacity ;
- 100% moisture resistant frame ;
- Available in 1", 2", 4" .



## [HEPA Filter]



### Pre Filter

EEC Pre filter is manufactured from synthetic non woven media. ALM mesh & HOPE in GI/Alm frame. The media is washable to ensure that the panel filter can be repeatedly cleaned.

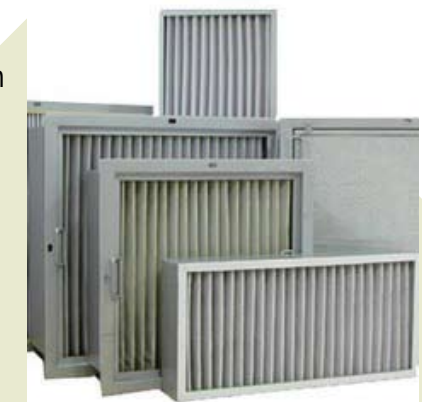
- High dust holding capacity.
- Cleanable feature ensures long service life even in the



### Fine / Micro Vee Filter

EEC Fine filter is manufactured from Synthetic non woven media, Aluminium Mesh & HDPE in GI/ Alu/ SS Frame having aluminium/ GI separator between each pleat to ensure uniform distribution of Air flow through Filter Media

- Low initial pressure drop. ;
- Cleanable/ washable ;
- High dust holdomg capacity.



### Pocket Filter

EEC pockets filters are next version of cassette filter to increase the filtration area. They are manufactured from graded density polyester fiber / PP media in multilayer to reduce the Initial pressure drop.

- The pockets filters are available in coarse and fine filtration (G3 to F9).
- EEC pockets filter frame are available in AL/GI/ SS.

Main application : HVAC, paint booth, process industries, intake system



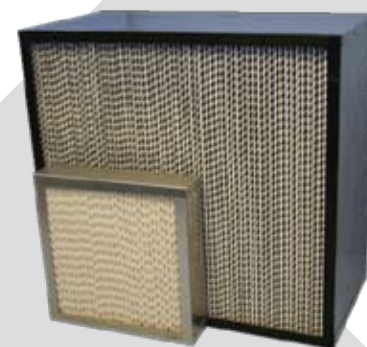


### Deep pleat HEPA filter

EEC deep pleat Hepa filter is manufactured from micro glass fiber paper pleats assembled with AL. separator to maintain uniform air flow. EEC Hepa filter are available from H10 to H15 grade.

Main application - clean room, paint booth, food industries

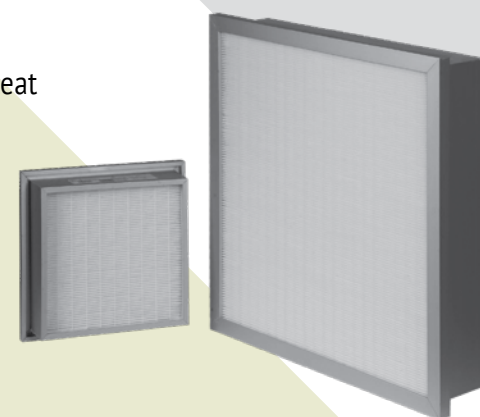
- Box pleat to ensure low pressure drop
- Rigid construction for better sealing
- Sealant provided all the four side to avoid air by pass



### Minipleat HEPA filter

EEC minipleat hepa filter is new generation of deep pleat hepa filter. Minipleat hepa filters is manufactured from micro glass fiber media pleats bond with hot-melt to increase filtration area. EEC minipleat hepa is available in AL channel, MS powder coated frame in different depth as per air flow requirement.

- Available grade - H10 to H14
- Low pressure drop
- Extended surface area
- Available standard size
- Non standard size on request



### Compress Air Filter

CFM AIRFLOW	TYPE
6	02/ 05
18	03/ 05
35	03/ 10
53	04/ 10
71	04/ 20
106	05/ 20
160	05/ 25
212	07/ 25
282	07/ 30
424	10/ 30



Type	Diff. Pressure	Efficiency	PPM
V	0.03	100%	-
FF	0.05	99.99%	1
MF	0.08	99.99%	0.05
SMF	0.12	99.99%	0.01
AK	0.08	99.99%	0.003
ST	0.03	100%	-

V : Prefilter; FF : Fine filter; MF : Micro filter; SMF : Sub-Micro filter; AK : Activated Carbon filter; ST : Dust filter

### Liquid Cartridge & PP Bag Filter

EEC Filter has developed polyolefin thermally bonded bicomponent fibers (ES fibers) are used, and the fiber-to-fiber bond forms a stable porosity. Furthermore, an ideal fiber density gradient is provided from outside layers towards inside layers of the element.

Applications :

Generic Application : Cleaning Water, Prefilter for Ultra Pure Water etc.  
Chemicals : Paints, Ink, Resins, Adhesives, Catalysts, Solvents, Surfactants, etc, Food & Beverages : Potable Water, Tea, Juices, Wine, Spirits, Soy Sauce, Seasonings and Soups, Vinegar, Flavoring and Food Additives, Syrup etc. Electroinc : Pure Water, Optical Films, Printed Circuit boards, Shadow Masks, Lead Frames, TAB, Electrolyzed Copper Foil, Ceramic Capacitor (Slurry) Registers etc. Size : Standard Length 250mm, 500mm, 750mm

Available : EEC-01 to EEC-200

Size : Standard Length 250mm, 500mm, 750mm, PP Bag Filter Welded Construction with PP Color Size : 4.5" x 20", 7.25" x 32", 4.5" x 10" Micron : 5 to 200

