

COMPLETE FILTER SOLUTION



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FILTER STANDARDS

1. EN:779

The European Committee for the standardization has recently published a new standard on "Particulate air filters for general ventilation – determination of filtration performance". One of the aims of this new standard is to detail the performance of an air filter.

This new test protocol provides accurate data on the effectiveness of your air filters operating under real life conditions. Please always specify filters tested in accordance with EN 779:2002.

A) AIR FILTER PERFORMANCE

The European ventilation industry organization Euro vent, in collaboration with several European air filter manufactures, has developed a certification programme to guarantee that our products live up to our promises. The key elements of the programme are that:

Published data must be correct.

The products must comply with the EN 779: 2002 standard.

Filters must be tested by independent laboratories– SP in Sweden & VTT in Finland.

The test laboratories must be ISO 17025 certified.

B) INDEPENDENT TEST RESULTS

EN 779: 2002 certification covers the bag filter, panel filters in class F5-F9, tested to EN 779: 2002. The initial pressure drop must remain within the tolerance levels set out in EN779:2002. All filters that we officially market in brochures or on our website in these filter classes are covered by the certification. Each class contains a range of product groups.

Same filter media /material (such as fibre glass).

Same basic design (such as bag filters, compact filters etc.).

Same or lower air speed /net filter area.

Same filter class: F5, F6, F7, F8, F9.

Published data must be available specifying the model, type, filter, material, filter class as per EN 779:2002.

Nominal Airflow & initial pressure drop at nominal airflow.

FILTER STANDARDS

2. ASHRAE: AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR-CONDITIONING ENGINEERS, INC.



What is ASHRAE?

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) develops standards for both its 50,000 members and other professionals concerned with the design and maintenance of indoor environments. ASHRAE publishes standards for (1) Method of Measurement and Test (2) Standard Design and (3) Standard Practice.

ASHRAE has published a standard for testing air filters since 1968. The universally accepted standard used to evaluate product alternatives is fully titled *ASHRAE Standard 52.2-2007: Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size* and is commonly referred to as **ASHRAE 52.2**. Accredited by the American National Standards Institute (ANSI), it is a consensus standard, developed and published to define minimum values or acceptable performance. (www.ashrae.org)

ASHRAE 52.2

MERV*	Particle size range			Average Arrestance (Addendum B)
	E1 (.3 to 1 µm)	E2 (1 to 3 µm)	E3 (3 to 10 µm)	
1	-	-	<20%	<65%
2	-	-	<20%	65 - 70%
3	-	-	<20%	70 - 75%
4	-	-	<20%	>75%
5	-	-	20 - 35%	-
6	-	-	35 - 50%	-
7	-	-	50 - 70%	-
8	-	-	70 - 85%	-
9	-	<50%	>85%	-
10	-	50 - 65%	>85%	-
11	-	65 - 80%	>85%	-
12	-	80 - 90%	>90%	-
13	<75%	>90%	>90%	-
14	75 - 85%	>90%	>90%	-
15	85 - 95%	>90%	>90%	-
16	>95%	>95%	>95%	-

The table above will show how average arrestance and the three particle size efficiency ranges will determine MERV for a filter.

* MERV:- Minimum Efficiency Reporting Value.

MEDIA ROLLS

ALUMINIUM MEDIA

The expanded aluminium is manufactured of high quality well finish of 9ply & 12ply. Aluminium foils are slitted & stretched longitudinally expanding the slits into holes of uniform & size by varying the densities & number of layers.



SYNTHETIC MEDIA ROLL

These media rolls are manufactured in dry laid process. The medias are applied with adhesive treatments so that it can with stand the vibrations without any negative effects. These media rolls can be classified as Paint booth filter, Roof filter & Floor filter. Media will vary from the grade G3-G5 with the thickness ranges from 10 mm, 20 mm, 30 mm. Paint booth filters will have the thickness from 1', 2' & 4'.



BAG FILTER MEDIA ROLL

- The offered bag media are of the efficiency ranging from 55% - 95%.
- Colour of these media will be ranging from brown to yellow.
- These medias can hold a particle arrestance of less than 5 microns.



PRE FILTERS

PLEATED FILTER - GRADE G3

Application

Pre filter for bag filter.

- Highly used in commercial & residential purposes.
- Can be also used for the final filters in turbine plants.

Features

More dust holding capacity.

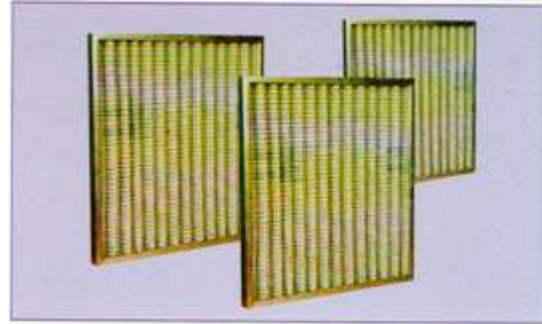
Offered filters be in PVC COATED WIREMESH.

Thickness of these filters ranging from 1", 2" & 4" encased in G.I. FRAME / ALUMINIUM FRAME.

Technical Details

Rated Face Velocity: 2.5 m/s

Initial Δ P (Pa)	Final Δ P Recomm (Pa)	Arrestance % (ASHRAE 52-6)
40	250	70-75
50	250	80-85
45	250	70-75
55	250	80-85
65	250	85-90
80	250	90-95



ALUMINIUM FILTER- GRADE G2

Application

Pre filter for bag filter.

- Highly used in commercial & residential purposes.
- Higher course particle arrestance.

Features

More dust holding capacity.

Offered filters be of Aluminium mesh.

Thickness of these filters ranging 1" to 2" encased in G.I. FRAME / ALUMINIUM FRAME.

Technical Details

Rated Face Velocity: 2.5 m/s

Initial Δ P (Pa)	Final Δ P Recomm (Pa)	Arrestance % (ASHRAE 52-76)
12	150	40-45
15	150	60-65
20	250	70-75
30	250	80-85
45	250	90-95



DISPOSABLE FILTER - GRADE G2

Application

Pre filter for bag filter.

- Reinforcement for fresh air application.
- Higher course particle arrestance.

Features

Offered filters be of disposable media (Non woven media laminated in wire mesh).

Thickness of these filters ranging 1", 2" & 4" encased in CARD BOARD FRAME / G.I. FRAME.

Technical Details

Rated Face Velocity: 1.5 - 3.5 m/s

Initial Δ P (Pa)	Final Δ P Recomm (Pa)	Arrestance % (ASHRAE 52-76)
80	250	25-30
55	250	25-30
50	250	25-30
60	250	25-30
70	250	25-30
65	250	25-30



FINE FILTERS

SYNTHETIC BAG FILTER

Application

MELT BLOWN MEDIA with high dust holding capacity used in commercial & residential purposes.
Efficiency leakage will be very less.

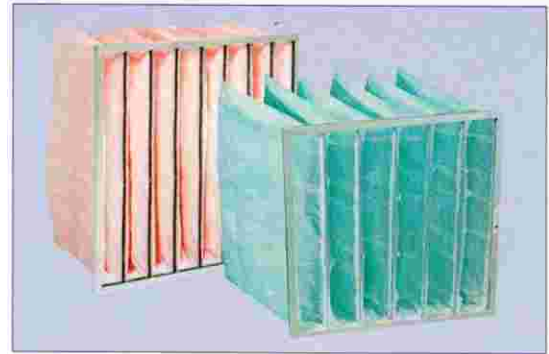
Features

Maintains the uniform air flow. Offered filters are of the efficiency range from 55% to 95%.
Thickness of these filters will be in 1", encased in G.I. FRAME (20 mm / 22 mm / 25 mm).
Availability of the pockets will vary as per the required size.

Technical Details

Rated Face Velocity: 1.3-3.2 m/s

Initial \ P (Pa)	Final \ P Recomm (Pa)	Efficiency% (ASHRAE 52-76)
60	250	25
80	250	45- 50
110	375	60-65
120	375	80-85
135	375	90-95



MINI PLEAT FILTER

Application

Highly used in HVAC purposes, Airports, Hospitals etc.

- MINI PLEATED MICRO GLASS FIBRE MEDIA provides a high degree cleaning application.

Features

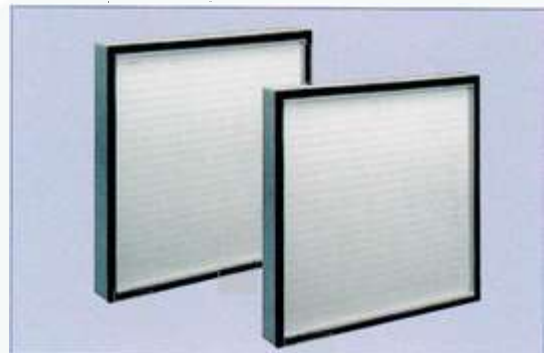
Maintains the uniform air flow.
Offered filters are of the efficiency ranging from 65%, 85% to 95%.
Thickness of these filters ranges from 1", 2" & 4" encased in G.I. FRAME.
MINI PLEATED MICRO GLASS FIBRE MEDIA with glue lining.

Technical Details

Air Flow Rate: 1600m³/h for 2"

Air Flow Rate: 3400m³/h for 4"

Initial \ P (Pa)	Final \ P Recomm (Pa)	Efficiency%
100	600	65
145	600	85
170	600	95



V TYPE FILTER

Application

- Highly used in HVAC purposes, Airports, Hospitals etc.
- Low pressure drop, increase filter life, Better filtration purpose.

Features

Offered filters are of the efficiency ranging from 65%, 85% & 95%.
Frame of these filters will be Acrylonitrile Butadiene Styrene (Plastic Frame).

MINI PLEATED MICRO GLASS FIBRE MEDIA with glue lining.

Technical Details

Air Flow Rate: 5000m³/h

Initial \ P (Pa)	Final \ P Recomm (Pa)	Efficiency%
100	600	65
125	600	85
145	600	95



SPECIAL FILTERS

HEPA FILTER

Application

Highly used in HVAC purposes, Airports, Hospitals etc.
Very high Efficiency Final Filtration HVAC Application.
Close pleated filter media provides a greater surface area for filtration

Features

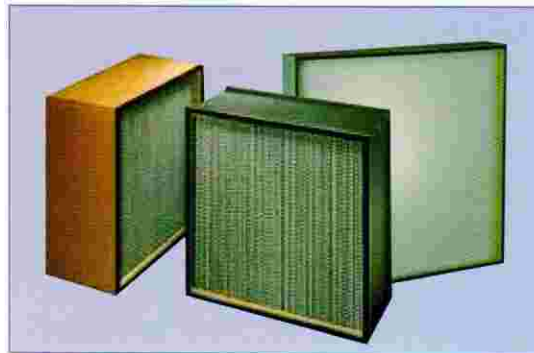
Offered filters are of the efficiency range from thickness of 69 mm, 75 mm, 81 mm, 12 inches.
Frame of these filters will be of either ANODIZED ALUMINIUM / G.I. CONSTRUCTION / WOODEN FRAME.
MINI PLEATED MICRO GLASS FIBRE MEDIA with ALUMINIUM SEPARATOR for 12" depth.

Technical Details

Rated Face Velocity: 1.25m/s for 12" deep

Rated Face Velocity: 0.7m/s for 6" deep

Initial \ P (Pa)	Final \ P Recomm (Pa)	D.O.P Efficiency%
250	700	99.97 & 99.99



RIGID BOX FILTER

Application

- Highly used in HVAC purposes, Industrial Application.
- Uniformly deep pleated filter media provides uniform airflow.
- Laminated glass fibre media with metal mesh are also used.

Features

Offered filters are of the efficiency range from 65%, 85%, 95%.
Frame of these filters will be of G.I. Construction.
Additional Support of G.I. cross strips hold more support for the filter.

Technical Details

Rated Face Velocity: 2.5m/s

Initial \ P (Pa)	Final \ P Recomm (Pa)	Efficiency% (ASHRAE 52-76)
100	375	50
120	375	65
145	375	85
150	375	95



AUTOROLL

Application

- Media used for all brands of Automatic machines.

Features

More dust holding capacity, longer service life, effective adhesive.
65 feet long & 6 feet width.
Adhesive to trap more dust due to construction of larger diameter fibre in air entering side & smaller one in air leaving side.

Technical Details

Rated Face Velocity: 2.5m/s

Initial \ P (Pa)	Final \ P Recomm (Pa)	Arrestance % (ASHRAE 52-76)
40	250	90-95



FILTER REQUISITES

FILTER BAGS / DUST COLLECTION BAG

Application

- Pin hole filtration process.
- Mainly used in Cement Factories, Iron & Steel Factory, Manufacturing sectors.

Features

Ease of use.
Designed in way which suits to fit all manufactures filter bag housing.
Designed to be mounted & gasketed firmly into place with a snap band, corded cuff, clamp to ensure dust tight seal.
Media varieties from 100g/m² from 650g/m²



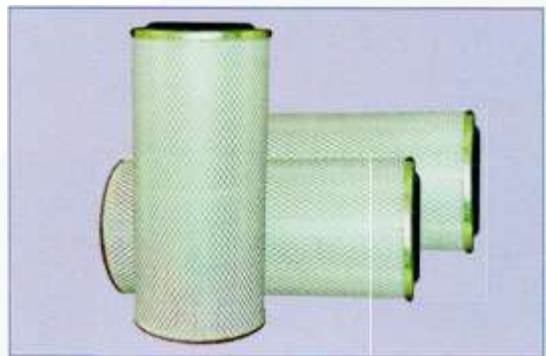
CARTRIDGE FILTER

Application

- Fine dust filtration / Liquid filtration / Oil filtration.
- Mainly used Metallurgical process & Industrial Application.

Features

Efficiency 99.99 % on 5 micron & larger particles by weight.
Pans are made up of G.S./ S.S.
Filter sealant is made of Poly urethane on top & bottom.



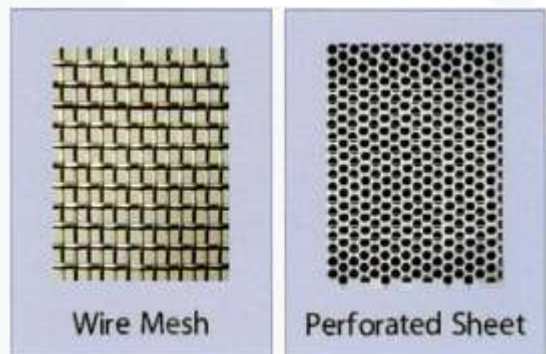
WIRE MESH / PERFORATED SHEET

Application

- A/C manufacturing.
- Fencing / Sieving / Filtration / Printing.

Features

Available in S.S./ M.S./ G.I.
From 0.5 mm to 50 mm hole diameter.
Mesh size from 4 mesh to 600 mesh.
Width up to 2 meter.



PLEATED PAPER FILTER

Mainly used for paint collection at Paintbooth.
Also applicable for powder and wet coating booth.
Size: 36" x 30'.
Available colour White / Brown.





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