NIKHTISH ENGINEERING PVT LIMITED

Founded in 2008, is India's leading manufacturer and distributor of CBRNE Filtration Systems, Air Filters & Clean Room Validation Services. We cater to industries, namely, Pharmaceutical, Automotive, Hospitality, Dairy, Food & Beverage, Biotech, Defence, and Nuclear power plants.

An equal opportunity employer Nikhtish focuses on consistent innovation & development, especially CBRNE (Chemical, Biological, Radioactive Nuclear & Explosives) air filtration systems, and filters while ensuring quality. The manufacturing facility has been ISO 9001 compliant since 2012, and the products are tested by Standards Institute of Israel continuously in their state-of-the-art facility around the year as part of quality assurance.

Contact Us:

Phone : +91-7722008853

Email : sales@nikhtish.com

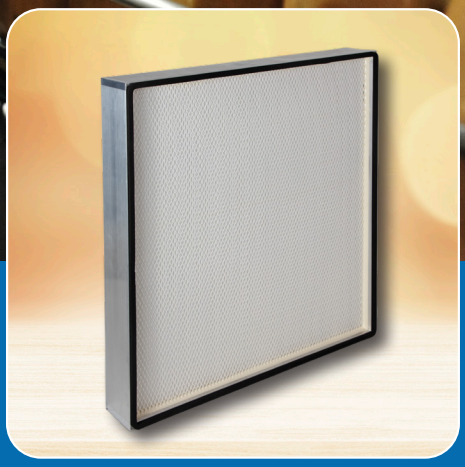
Address : Nikhtish Engineering Pvt.Ltd, 78/1/1, Kamthe Estate, Aditya hotel lane, Shivane, Pune - 411023.

Nikhtish

INNOVATION | QUALITY | CONSISTENCY

Nikhtish
INNOVATION | QUALITY | CONSISTENCY

www.nikhtish.com



FINE FILTER

GLASSFIBRE MINI PLEAT (FGM)

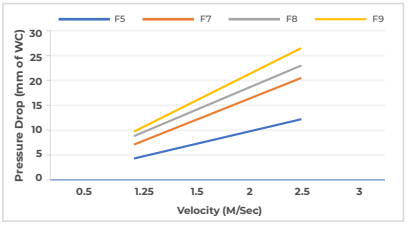
Grade: F6 to F9 OR MERV 11 to MERV 16

ISO 16890/ ASHRAE 52.2-2017/EN 779-2012

These fine dust filters are manufactured from rigid Anodised Aluminium extrusions with (new-gen), high-efficiency mini-pleated microfine glass fiber media with hotmelt separators. The filters have the edge over the competition regarding their high dust holding capacity. Available in a range of depths from 2" to 6" depending upon the filter face velocity, the filtration grades range from F6 to F9 or MERV 11-16. All four sides of the filter are sealed in polyurethane for enhanced filtering efficiency with a single, double, or no header flange.

Filter Features

- The FGM series are filters made from new generation high efficiency mini-pleated micro fine fibreglass media with hotmelt separators in rigid non-corrosive metal frames.
- Mainly used in air handling units one stage prior to HEPA filters, very economical due to higher final pressure drop.
- The filter media is moisture resistant and fire retardant.
- Filter grades F6 to F9 OR MERV 11 to MERV 16.
- Tested in accordance to EN779-2012 / ISO 16890 / ASHRAE 52.2-2017.
- FGM series available in various sizes & installation options to fit almost any customer requirements.



Technical Specifications

Filters Grade	**EN779 Class: F6, F7, F8,F9 Eurovent: EU5,6,7,8,9 ASHRAE 52.2-2017 Class: MERV-11,12,13,14,15,16**
Type	Glass Fibre Mini-Pleated Compact Filter
Frame	Aluminium, Galvanized iron, Stainless steel/Wooden
Frame Construction Type	Box / One side Flange/Both Side Flange
Media	Micro Fine Glass Fibre
Sealant	Polyurethane
Final Pressure Drop	450 Pa
Temperature Max	70°c Maximum In Continuous Service
Non-Flammability Class	F1 (DIN 53438)
Humidity	≤100 % RH
Gasket	Neoprene
Separator	Special Hotmelt separator
Installation Options	Front Access Filter Housings
Optional Guard Mesh	Aluminium expanded/MS powder coated expanded/GI sq.weld mesh/SS sq weld mesh.
Filters Testing In Accordance	EN779-2012/ ISO16890/ASHRAE 52.2-2017

Selection Chart

(Order as per model no.)

Order no.	FGM	A	B	C	D	E	F	G	H	I	J	K	L
Example no.	FGM	6	GSF	63	7	B	A	HM	68	1	0	1	M

Grade	A
F6	6
F7	7
F8	8
F9	9

TYPE	B
GLASS FIBER	GSF

SIZE	C
287X592	25
457x457	44
610x305	63
610X610	66
610x1200	62

DEPTH	D
53	5
75	7
95	10
125	14

Frame Construction Type	E
Box	B
One side Flange	F
Both Side Flange	D

MOC	F
Aluminium	A
GI	G
Stainless Steel	S
Wooden	W

SEPARATOR	G
Hotmelt	HM

NO. OF FOLDS OR POCKETS	H
68	68

GASKET	I
At air inlet	0
At air outlet	1
At Both	2

TEMP.	J
Upto 70°C	0

GUARD MESH	K
No Mesh	0
One Side	1
Both Side	2

GAURD MESH MATERIAL	L
Aluminium Expanded	A
MS Powder Coated expanded	M
GI Sq. Weld mesh	G
SS 304 Weld Mesh	S

Filter Class As per EN779	F6/MERV 11,12	F7/MERV 13	F8/ MERV 14	F9/ MERV 15,16
Filter Class as per Eurovent 4/4	EU 6	EU 7	EU 8	EU 9
Initial Efficiency test with MPPS in %	60%≤Em<80 %	80%≤Em<90 %	90%≤Em<95 %	95%≤Em
Initial Efficiency test with Aerosol Particle size 1.0-3.0 microns in %	60%≤Em<80 %	80%≤Em<90 %	90%≤Em<95%	95%≤Em

W x L x D (mm)	Rated Face Velocity (m/s)	Rated Air Flow (CMH)	INITIAL PRESSURE DROP (MM OF WC) @ RATED AIR FLOW			
287 x 592 x 53	1.25/2.5	850/1700	4.3/12.2	7.1/20.5	8.8/23.0	9.7/26.5
457 x 457 x 53	1.25/2.5	850/1700	4.3/12.2	7.1/20.5	8.8/23.0	9.7/26.5
610 x 305 x 53	1.25/2.5	850/1700	4.3/12.2	7.1/20.5	8.8/23.0	9.7/26.5
610 x 610 x 53	1.25/2.5	1700/3400	4.3/12.2	7.1/20.5	8.8/23.0	9.7/26.5
610 x 1200 x 53	1.25/2.5	3400/6800	4.3/12.2	7.1/20.5	8.8/23.0	9.7/26.5
287 x 592 x 75	1.25/2.5	850/1700	4.0/11.0	6.1/15.0	8.1/19.5	9.0/23.0
457 x 457 x 75	1.25/2.5	850/1700	4.0/11.0	6.1/15.0	8.1/19.5	9.0/23.0
610 x 305 x 75	1.25/2.5	850/1700	4.0/11.0	6.1/15.0	8.1/19.5	9.0/23.0
610 x 610 x 75	1.25/2.5	1700/3400	4.0/11.0	6.1/15.0	8.1/19.5	9.0/23.0
610 x 1200 x 75	1.25/2.5	3400/6800	4.0/11.0	6.1/15.0	8.1/19.5	9.0/23.0
287 x 592 x 95	1.25/2.5	850/1700	4.0/10.0	5.1/13.0	7.1/17.1	8.0/19.3
457 x 457 x 95	1.25/2.5	850/1700	4.0/10.0	5.1/13.0	7.1/17.1	8.0/19.3
610 x 305 x 95	1.25/2.5	850/1700	4.0/10.0	5.1/13.0	7.1/17.1	8.0/19.3
610 x 610 x 95	1.25/2.5	1700/3400	4.0/10.0	5.1/13.0	7.1/17.1	8.0/19.3
610 x 1200 x 95	1.25/2.5	3400/6800	4.0/10.0	5.1/13.0	7.1/17.1	8.0/19.3
287 x 592 x 125	1.25/2.5	850/1700	3.5/9.5	4.5/12.3	6.5/16.5	7.5/18.5
457 x 457 x 125	1.25/2.5	850/1700	3.5/9.5	4.5/12.3	6.5/16.5	7.5/18.5
610 x 305 x 125	1.25/2.5	850/1700	3.5/9.5	4.5/12.3	6.5/16.5	7.5/18.5
610 x 610 x 125	1.25/2.5	1700/3400	3.5/9.5	4.5/12.3	6.5/16.5	7.5/18.5
610 x 1200 x 125	1.25/2.5	3400/6800	3.5/9.5	4.5/12.3	6.5/16.5	7.5/18.5

For any customized filter, please contact us.

Applications:

PHARMACEUTICAL INDUSTRY

FOOD PROCESSING UNIT

COMMERCIAL BUILDING

PAINT BOOTH

POWER PLANT