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.
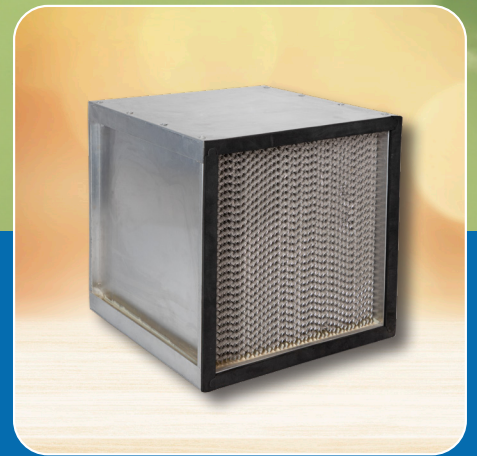
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Nikhtish
INNOVATION | QUALITY | CONSISTENCY

FINE FILTER

GLASSFIBRE DEEP PLEAT (FGD)

Grade: F6 TO F9 OR MERV 11 to MERV 16
ISO 16890/ ASHRAE 52.2-2017/EN 779-2012

The fine dust filters made from rigid non-corrosive metal frames with micro-fine glass fiber media, corrugated separators in deep pleated style allow higher flow, velocity, and dust holding. The filters have the edge over the competition regarding high dust holding capacity. Available in standard depths of 6" & 12" depending upon the filter face velocity, the filtration grades range from F6 to F9 or MERV 10-16. All four sides of the filter are sealed in polyurethane for enhanced filtering efficiency and available in single, double, or no header flange.

Filter Features

- The FGD series are filters made from micro fine fibreglass media with aluminium separators in deep pleated style in rigid non-corrosive metal frames, allowing high air flow and low pressure drop.

- 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.

- FGD series available in various sizes & installation options to fit almost any customer requirements.
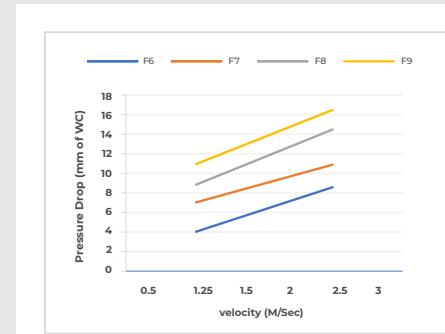
Technical Specifications

Filters Grade	EN779 Class: F6, F7, F8,F9 Eurovent: EU 6,7,8,9 ASHRAE 52.2-2017 Class: MERV-11,12,13,14,15,16
Type	Deep Pleated Compact Filter
Frame	Aluminium, Galvanized iron, Stainless steel
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
Humidity	≤100 % RH
Non-Flammability Class	F1 (DIN 53438)
Gasket	Neoprene
Separator	Corrugated Aluminium Hemmed Edge
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.	FGD	A	B	C	D	E	F	G	H	I	J	K	L
Example no.	FGD	6	GSF	63	16	B	A	AH	25	1	0	1	M

Grade	A	TYPE	B	SIZE	C	DEPTH	D	Frame Construction Type	E	MOC	F	SEPARATOR	G	NO. OF FOLDS OR POCKETS	H	GASKET	I	TEMP.	J	GUARD MESH	K	GAURD MESH MATERIAL	L
F6	6	GLASS FIBRE	GSF	305X305	33	150	16	Box	B	Aluminium	A	Corrugated Aluminium Hemmed Edge	AH	25	25	At air inlet	1	Upto 70°C	0	No Mesh	0	Aluminium Expanded	A
F7	7			610X305	63	300	18	Flange	F	GI	G					At air outlet	2			One Side	1	MS Powder Coated expanded	M
F8	8			610X610	66			Double Side Flange	D	Stainless Steel	S					At Both	3			Both Side	2	GI Sq. Weld mesh	G
F9	9																					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			
305 x 305 x 150	1.25/2.5	500/850	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5
610 x 305 x 150	1.25/2.5	850/1700	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5
610 x 610 x 150	1.25/2.5	1700/3400	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5
305 x 305 x 300	1.25/2.5	500/850	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5
610 x 305 x 300	1.25/2.5	850/1700	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5
610 x 610 x 300	1.25/2.5	1700/3400	4.8/8.6	7.0/10.9	8.8/14.5	10.9/16.5

For any customized filter, please contact us.

Applications:

PHARMACEUTICAL INDUSTRY

FOOD PROCESSING UNIT

COMMERCIAL BUILDING

PAINT BOOTH

POWER PLANT