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
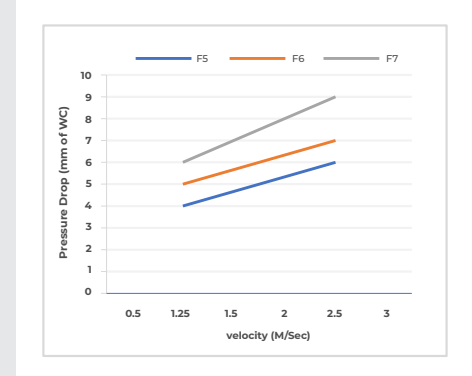
FINE FILTER

POLYESTER FIBRE PLEATED (FPP)

Grade: F5 to F7 OR MERV 9 TO 13
ISO 16890/ ASHRAE 52.2-2017/EN 779-2012

The fine dust filters made from rigid non-corrosive metal frames combine HDPE, progressive polyester non-woven, and aluminum mesh as filtration media. The filters have the edge over the competition regarding high dust holding capacity. The fine dust filters are available in standard depths of 6" & 12" depending upon the filter face velocity with filtration grades ranging from F5 to F7 or MERV 9 TO 13. The two sides of the filter are sealed in polyurethane for enhanced filtering efficiency.

Filter Features

- The FPP series are filters made from pleated filter medium that is combination of synthetic polyester fiber non-woven & aluminium mesh 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.

- Air cleanable or washable filters.

- Filter grade F5 to F7 OR MERV 9 to MERV 13.

- Tested in accordance to EN779-2012 / ISO 16890 / ASHRAE 52.2-2017.

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

Technical Specifications

Filters Grade	**EN779 Class: F5, F6, F7, Euro vent: EU 5,6,7** **ASHRAE 52.2-2017 Class: MERV-9,10,11,12,13**
Type	Polyester Pleated Filter
Frame	Aluminium, Galvanized iron, Stainless steel
Frame Construction Type	Box / One side Flange/Both Side Flange
Media	Polyester (Synthetic) 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	Metal separator
Installation Options	Front and Side 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.	FPP	A	B	C	D	E	F	G	H	I	J	K	L
Example no.	FPP	6	PLY	63	16	F	A	MS	6	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
F5	5	POLYSTER	PLY	305X305	33	150	16	Box	B	Aluminium	A	NA	0	6	6	No gasket	0	Upto 70°C	0	No Mesh	0	Aluminium Expanded	A
F6	6			457x457	44	300	18	One Side Flange	F	GI	G	Metal separator	MS	11	11	At Air Inlet	1			One Side	1	MS Powder Coated expanded	M
F7	7			610X305	63			Both Side Flange	D	Stainless Steel	S					At Air Outlet	2			Both Side	2	GI Sq. Weld Mesh	G
				610X610	66											At Both	3					SS 304 Weld mesh	S

Filter Class As per EN779				F5/MERV 9,10	F6/MERV 11,12	F7/MERV 13
Filter Class as per Eurovent 4/4				EU 5	EU 6	EU 7
Initial Efficiency test with MPPS in %				60%≤Em<80 %	80%≤Em<90 %	90%≤Em<95 %
Initial Efficiency test with Aerosol Particle size 1.0-3.0 microns in %				60%≤Em<80 %	80%≤Em<90 %	90%≤Em<95%

W x L x D (mm)	No. Of Folds	Rated Face Velocity (m/s)	Rated Air Flow (CMH)	INITIAL PRESSURE DROP (MM OF WC) @ RATED AIR FLOW		
305 x 305 x 150	6	1.25/2.5	500/1000	4/6.0	5/7	6/9.0
305 x 305 x 150	11	1.25/2.5	500/1000	3/5.5	3.5/5.5	4.5/2.5
610 x 305 x 150	6	1.25/2.5	850/1700	4/6.0	5/7	6/9.0
610 x 305 x 150	11	1.25/2.5	850/1700	3/5.5	3.5/5.5	4.5/2.5
457 x 457 x 150	6	1.25/2.5	1000/1700	4/6.0	5/7	6/9.0
457 x 457 x 150	11	1.25/2.5	1000/1700	3/5.5	3.5/5.5	4.5/2.5
610 x 610 x 150	6	1.25/2.5	1700/3400	4/6.0	5/7	6/9.0
610 x 610 x 150	11	1.25/2.5	1700/3400	3/5.5	3.5/5.5	4.5/2.5
305 x 305 x 300	6	1.25/2.5	500/1000	2.5/4.5	3/5.0	5/7.0
305 x 305 x 300	11	1.25/2.5	500/1000	1.8/4.0	2.3/4.5	4.0/6.0
610 x 305 x 300	6	1.25/2.5	850/1700	2.5/4.5	3/5.0	5/7.0
610 x 305 x 300	11	1.25/2.5	850/1700	1.8/4.0	2.3/4.5	4.0/6.0
457 x 457 x 300	6	1.25/2.5	1000/1700	2.5/4.5	3/5.0	5/7.0
457 x 457 x 300	11	1.25/2.5	1000/1700	1.8/4.0	2.3/4.5	4.0/6.0
610 x 610 x 300	6	1.25/2.5	1700/3400	2.5/4.5	3/5.0	5/7.0
610 x 610 x 300	11	1.25/2.5	1700/3400	1.8/4.0	2.3/4.5	4.0/6.0

For any customized filter, please contact us.

Applications:

PHARMACEUTICAL INDUSTRY | FOOD PROCESSING UNIT | COMMERCIAL BUILDING | PAINT BOOTH | POWER PLANT