

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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FINE FILTER

GLASSFIBRE V BANK-PLASTIC (FGV-P)

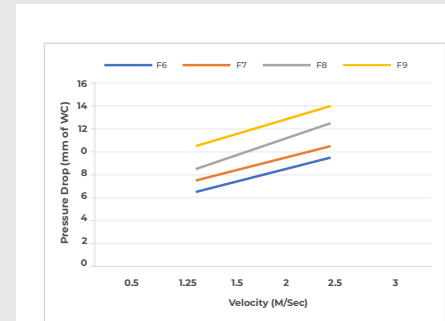
Grade: F6 to F9 OR MERV 11 to MERV 16

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

The fine dust filters manufactured from high-strength plastic casings in V-shape (new-gen) include high-efficiency mini-pleated microfine glass, fiber media, and hotmelt separators. The high filtration area and efficiency are primarily due to the V-shape and low initial pressure drop, making it the best alternative to pocket and panel filters within the same grade. The filters come in standard depths of 12" and filtration grades range from F6 to F9 or MERV 10-16.

Filter Features

- The FGV-P series are filters made from new generation high efficiency minipleated micro fine fibreglass media with hotmelt separators in high-strength V-shape plastic casings. Filter media is water resistance and fire retardant.
- Mainly used in air handling units one stage prior to HEPA filters , very economical due to higher final pressure drop.
- Compact design, Light in weight compared to conventional deep pleated filters.
- Filter grades F6 to F9 OR MERV 11 to MERV 16.
- Tested in accordance to EN779-2012 / ISO 16890 / ASHRAE 52.2-2017.
- FGV-P series available in various sizes & installation options to fit almost any customer requirements.



Technical Specifications

Filters Grade	EN779 Class: F6, F7, F8, F9. ASHRAE 52.2-2017 Class: MERV-11,12,13,14,15,16
Type	Glass Fibre V-Bank Minipleat Compact Filter
Frame	Plastic
Frame Construction Type	One Side Flange
Media	Micro Fine Glass Fibre
Sealant	Polyurethane
Final Pressure Drop	600 Pa
Temperature Max	70°C Maximum In Continuous Service
Non-Flammability Class	F1 (DIN 53438)
Humidity	≤100% RH
Gasket	Neoprene
Separator	Hotmelt
Installation Options	Front Access Filter Housings
Optional Guard Mesh	Aluminium expanded/MS powder coated expanded
Filters Testing In Accordance	EN779-2012/ ISO16890/ASHRAE 52.2-2017



Selection Chart

(Order as per model no.)

Order no.	FGV-P	A	B	C	D	E	F	G	H	I	J	K	L
Example no.	FGV-P	6	GSF	25	17	V	P	MH	68	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	287X592	25	292	17	V-BANK	V	Plastic	P	Hotmelt	MH	68	68	At Air Inlet	1	Upto 70°C	0	No Mesh	0	Aluminium Expanded	A
F7	7			592X592	55															One Side	1	MS Powder Coated expanded	M
F8	8																			Both Side	2		
F9	9																						

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			
287x592x292	2.5/3.2	1700/2125	6.5/9.5	7.5/10.5	8.5/12.5	10.5/14
592x592x292	2.5/3.2	3400/4250	6.5/9.5	7.5/10.5	8.5/12.5	10.5/14

For any customized filter, please contact us.

Applications:



PHARMACEUTICAL INDUSTRY



FOOD PROCESSING UNIT



COMMERCIAL BUILDING



PAINT BOOTH



POWER PLANT