



Compact Finedust Filter

Type GV8 Full Plastic (F6-F9)



Overview

The GV8 Full Plastic Compact Prefilter is designed to meet the strictest requirements in gas turbine applications. Each GV8 Full Plastic Filter contains eight (8) 'Minipleats-Media Packs' cast in V-shape

technology to achieve the lowest pressure drop results, the highest dust holding capacity, and maximum burst pressures.

FEATURES:

- Efficiencies of 60 % up to 98 % ASHRAE
- High quality micro fibreglass media
- Lowest initial pressure drop
- High quality standards due to Quality Assurance System
- Highly economical through high final pressure drop
- Any airflow direction possible making installation easy
- Rigid frame
- UL 900 approved version



Finedust - HEPA / ULPA

FILT-AIR LTD.

- Fine Dust Filter
- Final Filter for Fan Filter Units
- Final Filter for Clean Rooms
- Final Filter for Channel Installation
- Highly Active Filter Surface & Low Pressure Drop
- Final Filter for Grid Systems



Design

The side covers of the filter are made from rigid plastic with integrated water outlet slopes on both the up and down stream sides. Connection slots for the insertion of the prefilter frame HFA-# are also included. These features, in combination with the reinforced profiles, ensure maximum space for the filter media pack and provide a high mechanical strength. The fibreglass media pleated in "mini-pleat shape" can be reinforced with an additional plastic rib¹ that is cast with polyurethane sealant in V-shape technology directly into the side cover. This design provides a very high burst pressure in correlation with maximum dust holding capacity, low pressure drop and safe removal of condensate water. The filters are supplied with a flat flange and endless gasket¹ creating a secure seal between the filter and each standard prefilter holding frame.

¹ Optional

AVAILABLE STANDARDS:

- EN 779
- ASHRAE 52.1
- ISO 9001:2008

- Efficiencies of 60% up to 98% (ASHRAE 52.1)
- High quality micro fibreglass media
- Lowest initial pressure drop
- Highest dust holding capacity
- High burst pressure (>3000Pa / 2000/Pa)
- Rigid full plastic frame
- Filter height only 292 mm
- High quality standards due to Quality Assurance System
- Highly economical through high final pressure drop
- Usable in two flow directions
- Endless gasket (optional)
- Filter tested according to EN 779 (based on ASHRAE 52.1)
- UL 900 approved version.

Testing

The filters are tested in accordance with the European standard EN 779 (Particulate air filters for general ventilation). This standard is based on ASHRAE 52.1²

² Gravimetric and Dust-Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation Removing Particulate Matter 1992



Filter Data		F6	F7	F8	F9
Rated face velocity	m/s	3.37	3.37	3.37	3.37
Filter class according to EN 779 ¹		F6	F7	F8	F9
Atmospherical dust spot efficiency @ rated airflow: average ²	%	65 (60-65)	85 (80-90)	95 (90-95)	97 (95-98)
Recommended final pressure drop	Pa	600	600	600	600
Bursting pressure	Pa	>2000/3000	>2000/3000	>2000/3000	>2000/3000
Max. continuous temperature	°C	80	80	80	80
Max. relative humidity	%	100	100	100	100
Flammability classification to DIN 4102 (part 1)		B 2	B 2	B 2	B 2
Classification according to UL-900		2	2	2	2

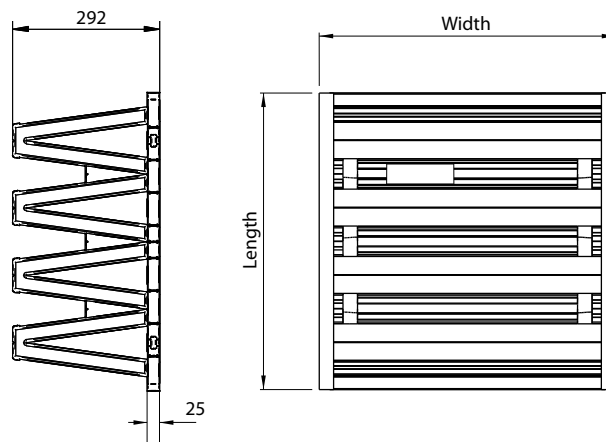
1. Standard EN 779 (1995) based on ASHRAE 52.1

2. Final pressure drop 450 Pa

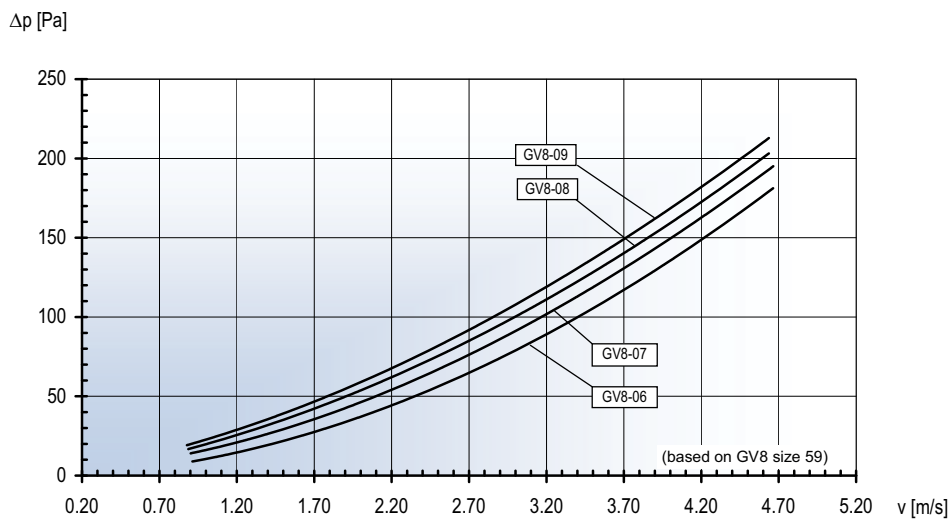
Technical Data

Size Code	29	39	49	59	
Size L x W	592 x 389 mm	592 x 389 mm	592 x 490 mm	592 x 592 mm	
Weight	3.0 kg	4.2 kg	4.9 kg	5.5 kg	
Rated airflow	2060 m ³ /h	2790 m ³ /h	3520 m ³ /h	4250 m ³ /h	
Active filter surface	8.1 m ²	11.6 m ²	15.1 m ²	18.7 m ²	
Initial pressure drop @ rated airflow	122 Pa	109 Pa	102 Pa	98 Pa	GV8-06
Active filter surface	8.5 m ²	12.3 m ²	16.0 m ²	19.8 m ²	
Initial pressure drop @ rated airflow	137 Pa	123 Pa	116 Pa	112 Pa	GV8-07
Active filter surface	8.8 m ²	12.7 m ²	16.5 m ²	20.4 m ²	
Initial pressure drop @ rated airflow	145 Pa	132 Pa	125 Pa	123 Pa	GV8-08
Active filter surface	8.8 m ²	12.7 m ²	16.5 m ²	20.4 m ²	
Initial pressure drop @ rated airflow	155 Pa	142 Pa	135 Pa	134 Pa	GV8-09

Dimensional Drawing



Initial Pressure Drop



Finedust - HEPA / ULPA



Order Numbers

Order no.	GV8	-	A	B	-	C	D	E	F
Example	GV8	-	08	59	-	6	0	0	0

Efficiency	A	Size LxW	B	Frame	C	Construction	D	Screen Material	E	Seal	F
F6	06	592 X 287 mm	29	Full Plastic	6	No Screen	0	No Screen	0	No Seal	0
F7	07	592 X 389 mm	39	Full Plastic Reinforced Frame for High Burst Pressure	7					1 x Downstream	D
F8	08	592 X 490 mm	49	Full Plastic Fire Retardant UL 900	4					1 x Upstream	U
F9	09	592 X 592 mm	59								

Specifications are subject to change without prior notice

HEPA & ULPA Filters for Industrial Clean Rooms

FILT AIR Ltd. specializes in the use of advanced technologies to implement a purified air supply for high-tech industry clean rooms, the microelectronics business sectors, and pharmaceutical industries. FILT AIR Ltd. has a broad range of client groups, such as hospitals, industrial plants, commercial buildings, and companies requiring clean air inside gas turbines.

FILT AIR's range of products is designed and produced in order to achieve the highest possible quality and offers safety and reliability with optimum prices and product availability. Since 2001, FILT AIR Ltd. has been registered and certified for Quality Management according to ISO 9001 (Registration No: IQNet: IL-24203).

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