



Compact Finedust / HEPA Filter

Type GW



Overview

The GW Compact Finedust / HEPA-Filter for high airflow is designed and tested to extract the smallest particles out of the air. Each GW compact filter contains eight (8), ten (10) or twelve (12)

'Minipleat-Media Packs' pleated in one piece and assembled in V-shape technology to achieve the lowest pressure drop results.

FEATURES

- High quality micro fibreglass paper
- 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



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

Finedust - HEPA / ULPA



FEATURES:

- EN 1822
- IEST-RP-CC001.3
- EN 779
- ASHRAE 52.1
- ISO 9001:2008

Finedust - HEPA Filter Type G7

- High quality micro fibreglass media
- Lowest initial pressure drop
- Rigid frame
- Zinc coated profiles
- Filter height only 292 mm
- High quality standards due to Quality Assurance System
- Highly economical through high final pressure drop
- Usable in bidirectional flow
- HEPA filter tested according to EN 1822

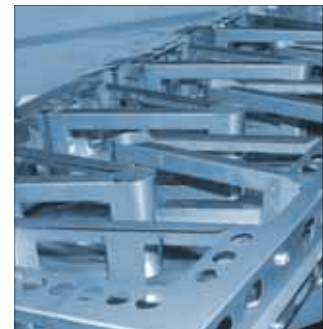
Design

Steel Frame:

The filter frame is made from zinc-coated steel with bent side edges for stability, thereby saving space for the media pack and thus providing the maximum mechanical strength. The fibreglass media is pleated in 'Minipleat shape' to a one piece cake and assembled in V-shape technology into the frame. The sealing of the filter housing is achieved through a leak-free fluid or dry-seal system.

MDF Frame:

The filter frame is made of MDF boards screwed together to form a rigid solid frame. The fibreglass media is pleated in 'Minipleat Shape' to a one piece cake and assembled in V-shape technology into the frame. The sealing of the filter housing is achieved through a leak-free dry-seal system.



Testing

Each HEPA filter is tested and packed in accordance with American Standard IEST-RP-CC001.3 (HEPA and ULPA Filters), in accordance with the European standard EN 1822-1 4&5 (Testing filter elements HEPA and ULPA efficiency and scan method), or customer requested tests. The prefilters are tested in accordance with European Standard EN 779 (Particulate air filters for general ventilation). This standard is based on ASHRAE 52.1 (Gravimetric and Dust-Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter, 1992).

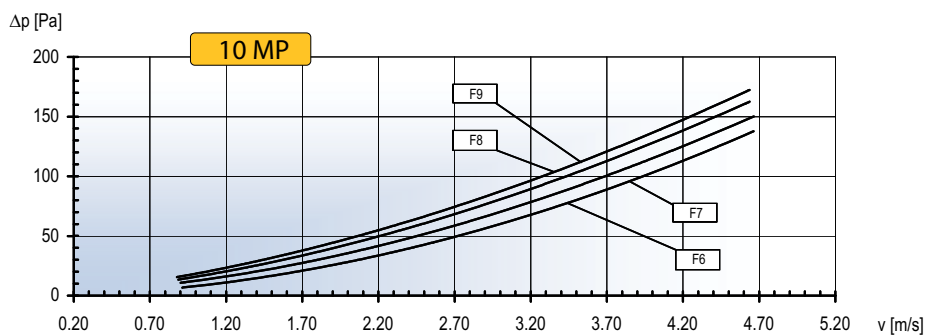
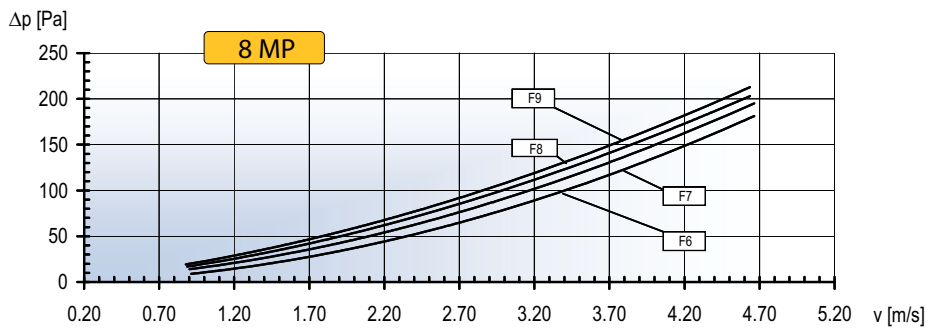


Finedust Filter Type

Finedust Filter Data		F6	F7	F8	F9
Filter consists of # media packs		8/10	8/10	8/10	8/10
Initial pressure drop @ rated airflow	Pa	98/75	112/88	123/96	134/105
Rated face velocity	m/s	3.4	3.4	3.4	3.4
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	> 2000	> 2000	> 2000
Max. continuous temperature	°C	80	80	80	80
Max. relative humidity	%	100	100	100	100
Flammability classification to DIN 53438		K1/F1	K1/F1	K1/F1	K1/F1

1. Standard EN 779 (1995) based on ASHRAE 52.1
 2. Final pressure drop 450 Pa

Finedust Filter Initial Pressure Drop



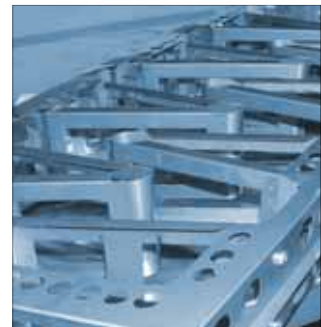
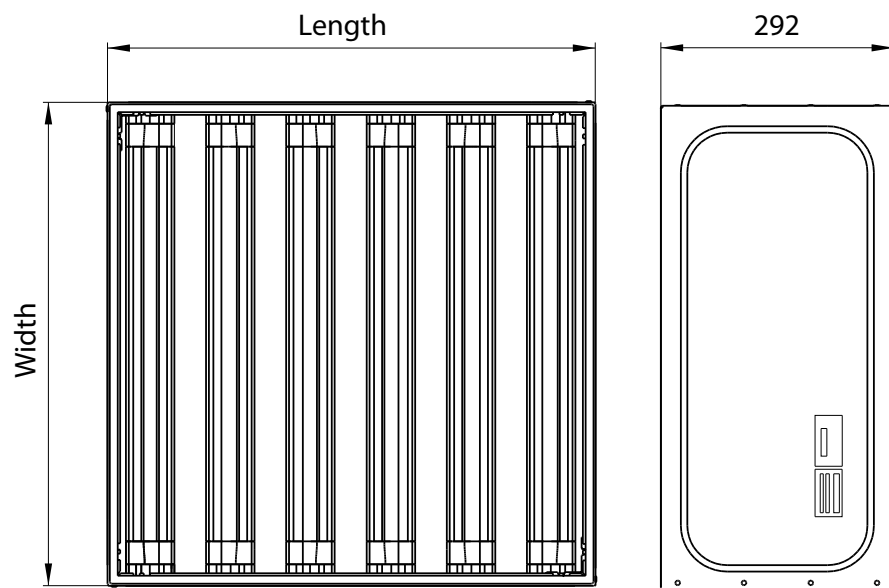
Finedust - HEPA / ULPA



Finedust Filter Sizes

Finedust Filter Size		HEPA Filter rated Airflow @ Velocity of 3.4 m/s		
305 x 610	mm		2280	m ³ /h
457 x 610	mm		3410	m ³ /h
592 x 287	mm		2080	m ³ /h
592 x 592	mm		4290	m ³ /h
610 x 610	mm		4550	m ³ /h
762 x 610	mm		5690	m ³ /h

Dimensional Drawing



Order Numbers (Finedust Filter)

Order no.	GW	A	-	B	C	-	D	E	F	G
Example	GW	8	-	08	66	-	D	0	0	D

Media Packs	A	Efficiency	B	Size L x W	C	Frame	D	Free	E	Free	F	Seal	G
8 packs	B	F 6	08	592 x 287 mm	29	MDF	4		0		0	No seal	0
10 packs	A	F 7	07	592 x 592 mm	59	Steel zinc coated	D					1x dry	D
		F 8	08	610 x 305 mm	63							1x fluid	1
		F 9	09	610 x 457 mm	64							Both sides dry	B
				610 x 610 mm	66								
				762 x 610 mm	76								
Other dimensions available upon request													

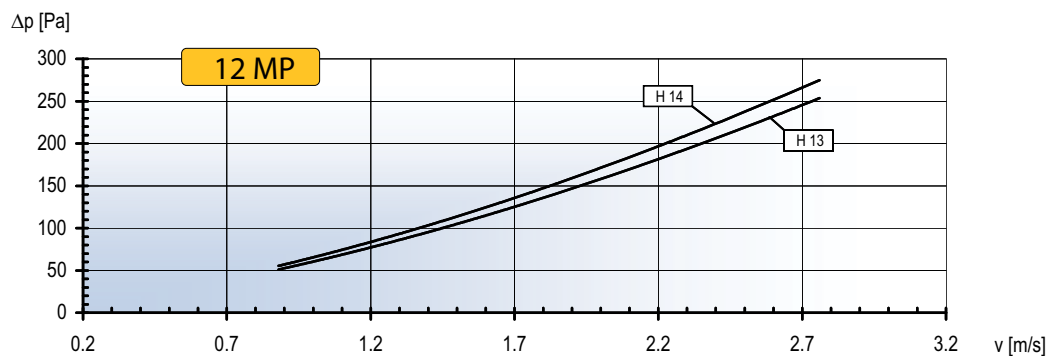
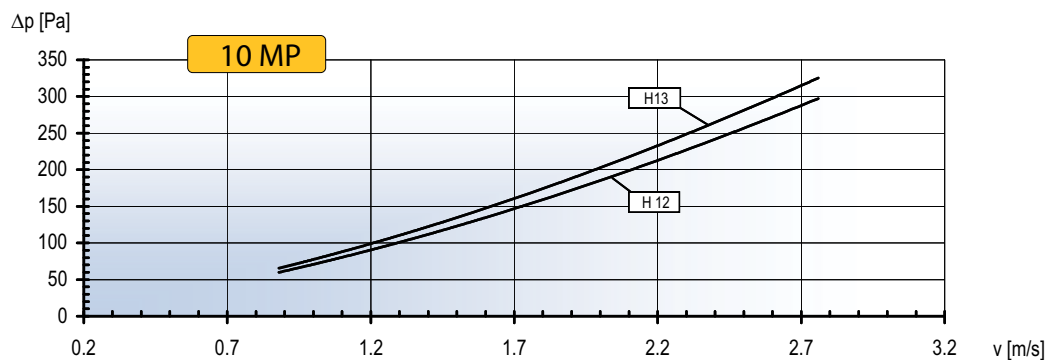
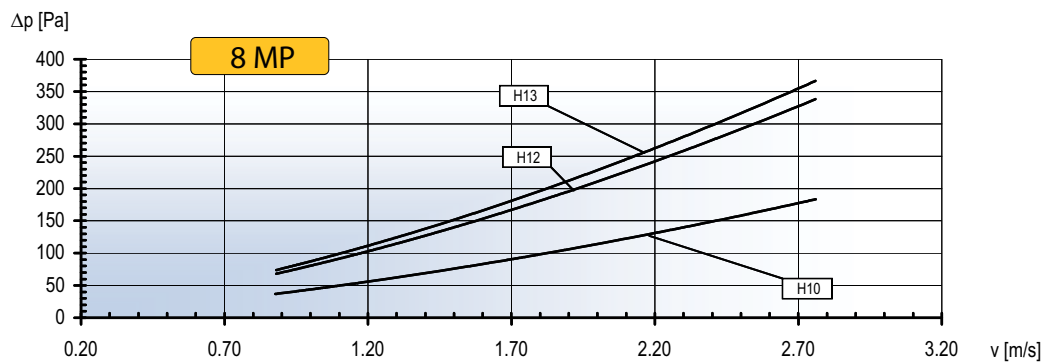
Specifications are subject to change without prior notice

HEPA Filter Type

Finedust Filter Data		H 10	H 12	H 13	H 14
Filter consists of # media packs		8	8/10	8/10/12	12
Initial pressure drop @ rated airflow	Pa	165	310/270	332/298/230	250
Rated face velocity	m/s	2.5	2.5	2.5	2.5
Filter class as per EN 1822		H 10	H 12	H 13	H 14
Filter class as per EN as per EU-ROVENT 4/4		EU 10	EU 12	EU 13	EU 14
Filter class as per E1N 24184		R	S	S	T
Initial efficiency @ rated airflow					
Test with MPPS (integral)	%	>85	>99.5	>99.90	>99.99
Test with aerosol \varnothing 0.3 μ m (integral)	%	>95	>99.97	>99.990	>99.999
Recommended final pressure drop	Pa	600	600	600	600
Flammability classification to DIN 53438		K1/F1	K1/F1	K1/F1	K1/F1
Max. relative humidity	%	100	100	100	100
Max. continuous temperature	°C	80	80	80	80



HEPA Filter Initial Pressure Drop

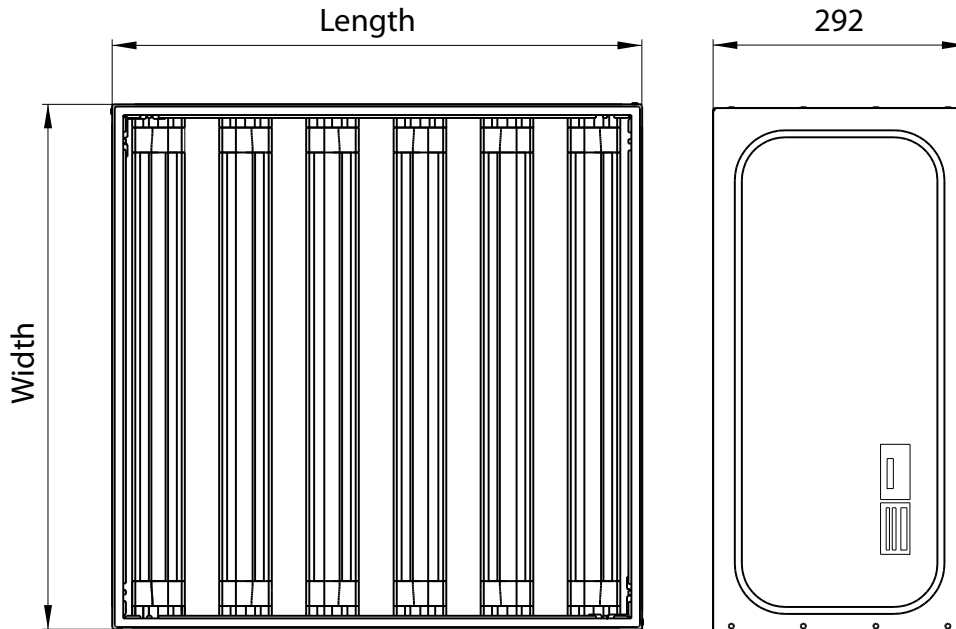




HEPA Filter Sizes

Finedust Filter Size		HEPA Filter rated Airflow @ Velocity of 2.5 m/s		
305 x 610	mm		1670	m ³ /h
457 x 610	mm		2510	m ³ /h
610 x 610	mm		3350	m ³ /h
792 x 610	mm		4180	m ³ /h

Dimensional Drawing



Finedust - HEPA / ULPA



Order Numbers (HEPA Filter)

Order no.	GW	A	-	B	C	-	D	E	F	G
Example	GW	C	-	13	66	-	D	0	0	D

Media Packs	A	Efficiency	B	Size L x W	C	Frame	D	Free	E	Free	F	Seal	G
8 packs	B	H 10	10	610 x 305 mm	36	MDF	4		0		0	No seal	0
10 packs	A	H 12	12	610 x 457 mm	46	Steel zinc coated	D					1x dry	D
12 packs	C	H 13	13	610 x 610 mm	66							Both sides dry	B
		H 14	14	610 x 762 mm	76							1x fluid	1
Other dimensions available upon request													

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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