



Splash-proof Terminal HEPA Filter

Type GTS



Overview

The Splash-proofed Terminal HEPA Filter GTS is designed and tested to extract a 'Minipleat -Media Pack,' available in different heights, with a new

application technology of 'Hot melt spacers' to get the lowest pressure drop results.

FEATURES

- Special Splash proofed stainless steel screen
- Efficiencies of 98% up to 99.99995% (@ 0.3 μm)
- High quality fibre glass paper
- Lowest initial pressure drop
- Adjustable airflow by means of a damper



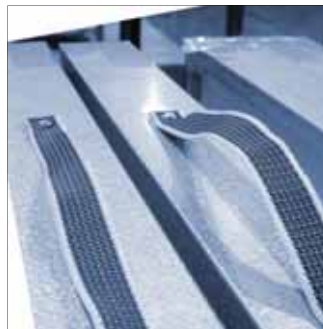
Finedust - HEPA / ULPA

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

FEATURES:

- Anodized rigid aluminium frame
- High quality standard due to Quality Assurance System
- Tested by laser particle counting system
- Highly economical through high final pressure drop
- For use in clean rooms up to class 1



Design

The housing is made from anodized extruded aluminium profile with two galvanized angles in each corner to create a rigid, straight frame. The alu-zinc hood, with an attached collar, is tide glued on top of the filter. The damper and the aerosol / pressure drop checking inlet is placed in a special middle bridge and is adjustable from downstream. The fibreglass media, pleated in 'Minipleat shape,' is available in different heights of 47 and 56. The filter cake is cast into the frame and middle bridge. This design produces high surface filtration and ensures the minimal pressure drop of the GTS model.

Testing

Each HEPA filter is tested and packed in accordance with American standard IEST-RP-CC-001.3 (HEPA and ULPA Filters) or in accordance with the European standard BS EN 1882-1, 4&5 (testing filter elements HEPA and ULPA efficiency and scan method) or other customer requested Testing. The prefilters are tested in accordance

with European standard BS EN 779 (Particulate air filters for general ventilation). This standard is based on Ashrae 52.76 (Gravimetric and Dust-Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter 1992).

APPLICABLE STANDARDS:

- EN 1822-5
- IEST-RP-CC0001.3
- EN 779
- ASHRAE 52.1
- ISO 9001:2008



XY - Scan Testing Device

The XY-scan testing device is able to perform automated filter leak testing of high efficiency air filters using automatic particle counters and a motorized scan table. While the particle counter probe passes over the filter face, the computer

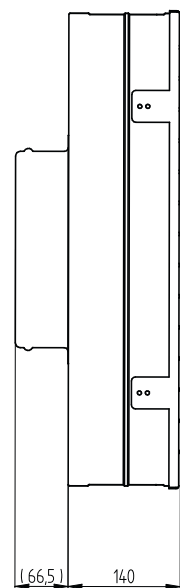
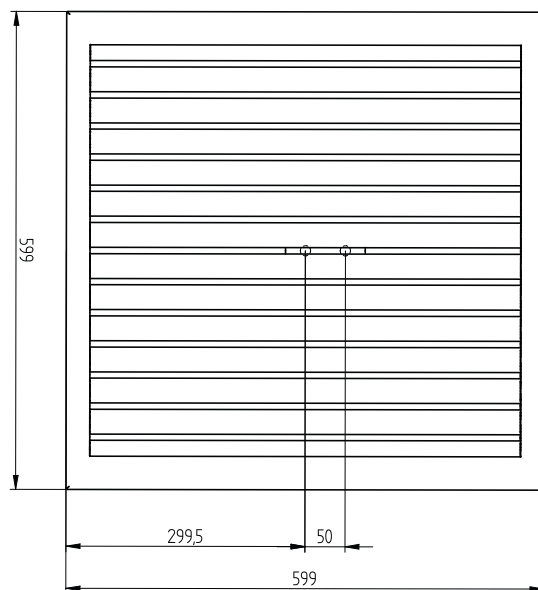
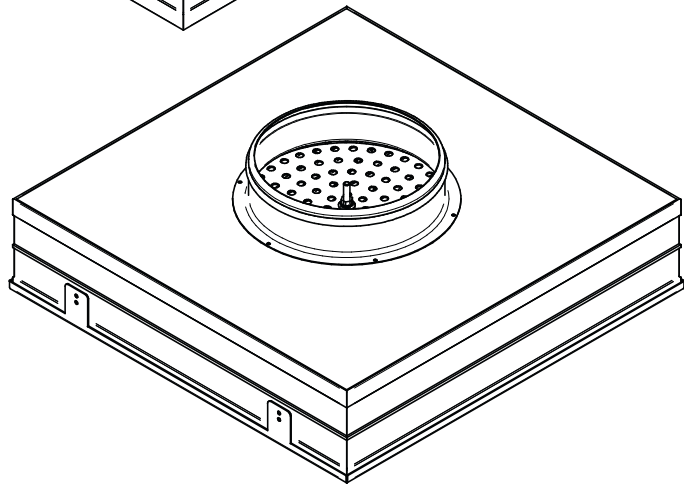
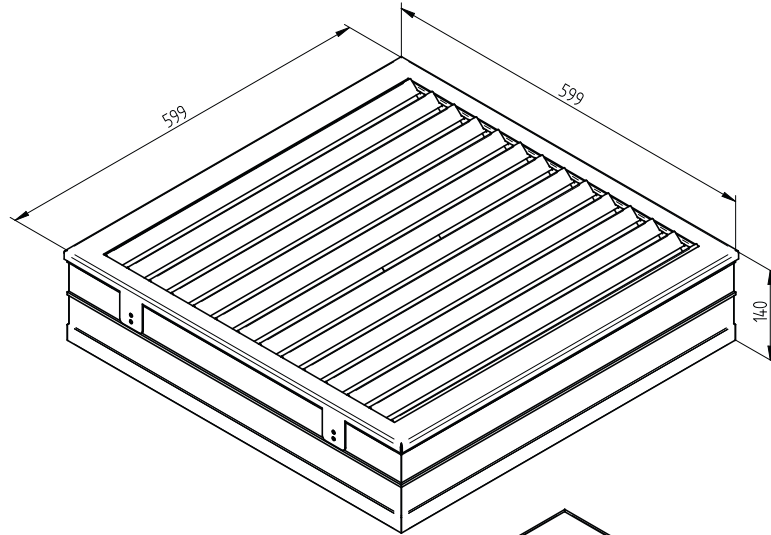
compares the counted particles with the given leak tolerance setting.

In addition, it calculates the overall efficiency for each checked filter and measures the pressure drop @ nominal airflow.

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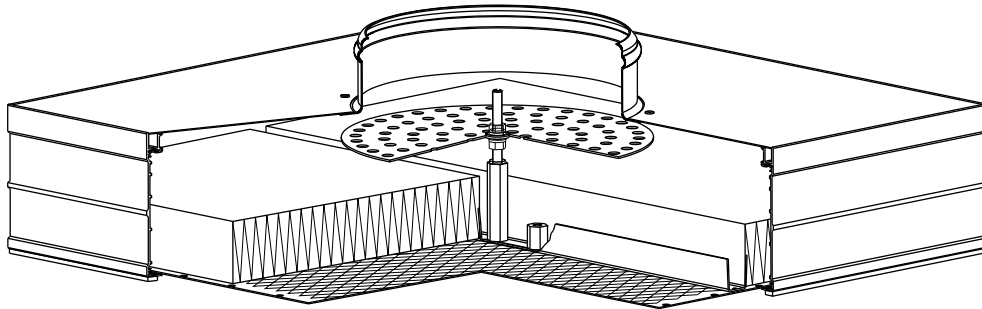
Dimensional Drawing





Dampers:

Version A



Version A of the damper system is a combination of an in-room adjustable damper with an aerosol inlet for efficient checking of the installed filter. This feature allows for easy adjustment of the airflow (filter velocity) during checking with a velocity meter from the clean room side. In

addition, for DOP efficiency testing (of installed filters), an aerosol entry is provided to allow for easy channelling of the test aerosol to the upstream side of the filter media. Both are covered with a sealed screw to prevent any leaks.

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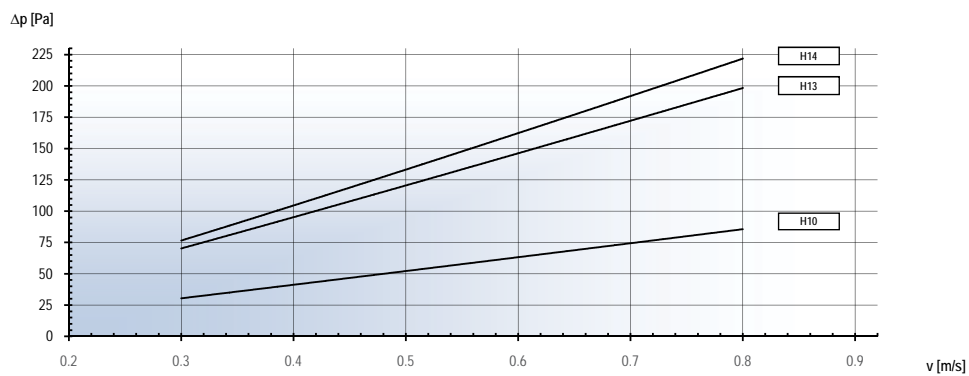
Technical Data

Filter Data		H 10	H 13	H 14
Rated face velocity	m/s	0.5	0.5	0.5
Media pack	mm	47 / 56 / 70	47 / 56 / 70	47 / 56 / 70
Initial pressure drop @ rated airflow	Pa	53 / 48 / 40	120 / 110 / 88	133 / 120 / 100
Filter class as per EN 1822		H 10	H13	H14
Initial efficiency @ rated airflow				
Test with MPPS (integral)	%	>85	>99,95	>99,995
Test with aerosol Ø 0.3 µm	%	>95	>99,995	>99,9995
Filter class as per DIN 24184		R	S	T
Recommended final pressure drop	Pa	600	600	600
Flammability classification to DIN 53438		K1/F1	K1/F1	K1/F1
Max. relative humidity	%	100	100	100
Max. continuous temperature	°C	80	80	80

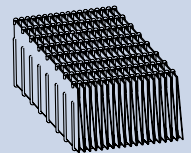
Filter Sizes

Filter Size		Rated Airflow	
600 x 600	mm	650	m ³ /h
1200 x 600	mm	1310	m ³ /h

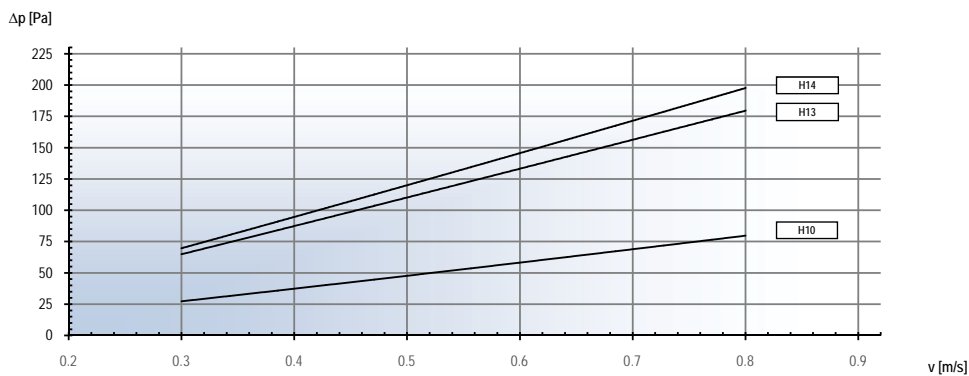
Initial Pressure Drop for 'Minipleat-Media Pack' in 47 mm Height



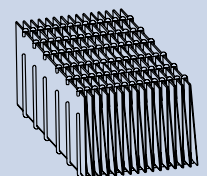
Media Pack 47 mm



Initial Pressure Drop for 'Minipleat-Media Pack' in 56 mm Height



Media Pack 56 mm



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Order Numbers

Order no.	GTS	-	B	C	-	D	E	F	G
Example	GTS	-	13	66	-	1	1	C	0

Efficiency	B	Size L x W	C	Frame	D	Damper & Collar	E	Screen Material	F	Seal on SPS	G
H 10	10	600 x 600 mm	AD	130 mm (U15-1)	Y	8" without Damper	A	Exp. Steel / Powder Coated	C	No Seal	0
H 13	13	1200 x 600 mm	AQ			10" without Damper	B	Exp. Stainless Steel	U	1x Down-stream	D
H 14	14	Other dimensions available upon request				12" without Damper	C				
						8" with Damper Ver. A	1				
						10" with Damper Ver. A	2				
						12" with Damper Ver. A	3				

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.

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