



Conical Finedust Filter Type GRV



Features:

- For use in gas turbine air filtration systems with backpulse cleaning
- For use with filter type GR0 as filter pair
- High quality paper made of cellulose & synthetic components
- Filter is pulse cleanable
- Long lifetime through media with high tensile strength
- Lowest initial pressure drop

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Overview

The GRV conical filter cartridges are designed especially for the high demands in gas turbine air filtration systems. The special filtration media provides maximum protection for the turbine. Through the outstanding durability and the high efficiency of the filter media, the risk of dust entering through media failure or through high penetration values is decreased.

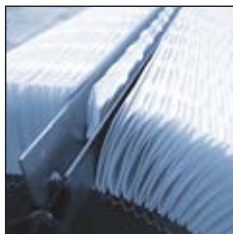


- For use with GR0 as filter pair
- High quality paper made of cellulose & synthetic components
- Filter is pulse cleanable
- Long lifetime through media with high tensile strength
- Lowest initial pressure drop
- Zinc coated end caps with glued sealing
- Expanded zinc coated screen with high open surface
- High quality standard due to Quality Assurance System according to ISO 9001:2000
- Highly economical through high final pressure drop
- For use in gas turbine air filtration with back pulse



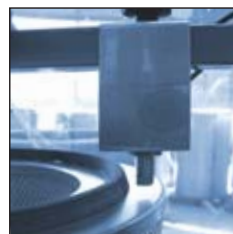
Design

The filter has two zinc coated steel end caps on both sides. The upper one with a glued plastic ring to hold the following filter in position and the lower one with a glued cylindrical gasket for tight connection to housing. The reinforced pleated filter media FA8267 is potted together with the expanded zinc coated steel screens into the caps with polyurethane. The embossed pleating spacers on top of each pleat and the hot melt fixation on the inside ensures the uniform shape of the filter media through the filter lifetime. This construction gives a highly active filter surface with a high dust holding capacity and a low pressure drop.



Testing

Each filter is tested on size and also visually tested for tightness and complementation. In our laboratory we check the tensile strength of unpleated and pleated media using the dumb-bell shape of each roll. Furthermore, the design of those cartridges is approved through many kinds of examinations such as the dust holding/pressure drop test and also the rust and extreme condition tests.



Applicable Standards:

- High quality standard due Quality Assurance System
- ISO 9001:2000

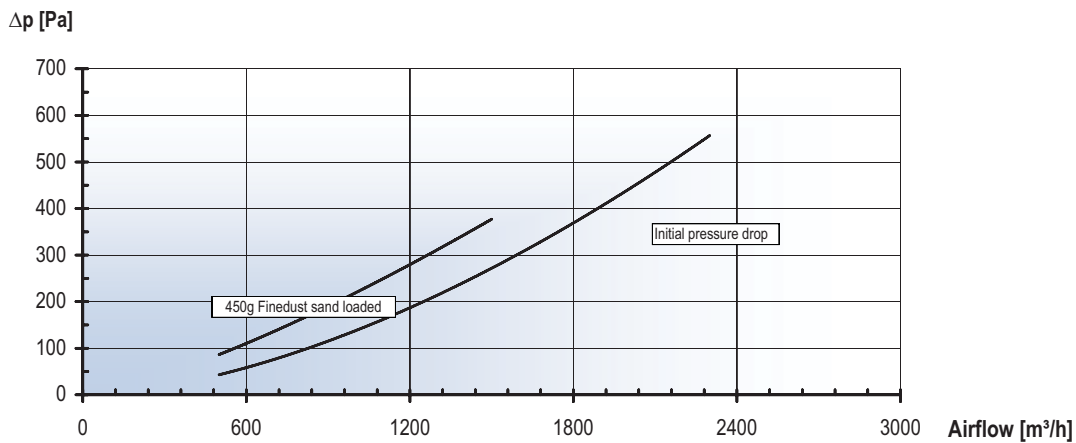


Technical Data

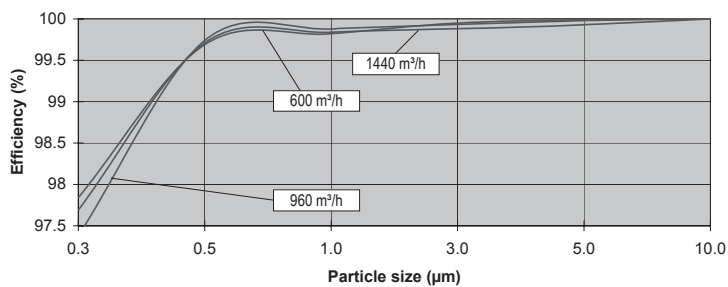
Filter data		GRV-9466-4432
Pleating height	mm	48.5
Pleats		390
Filter media active surface / cartridge	m ²	> 24
Initial pressure drop @ rated airflow	Pa	130
Rated airflow	m ³ /h	1200
Recommended final pressure drop	Pa	600
Flammability classification to DIN 53438		K1/F1
Max. relative humidity	%	100
Max. continuous temperature	°C	80



Pressure Drop



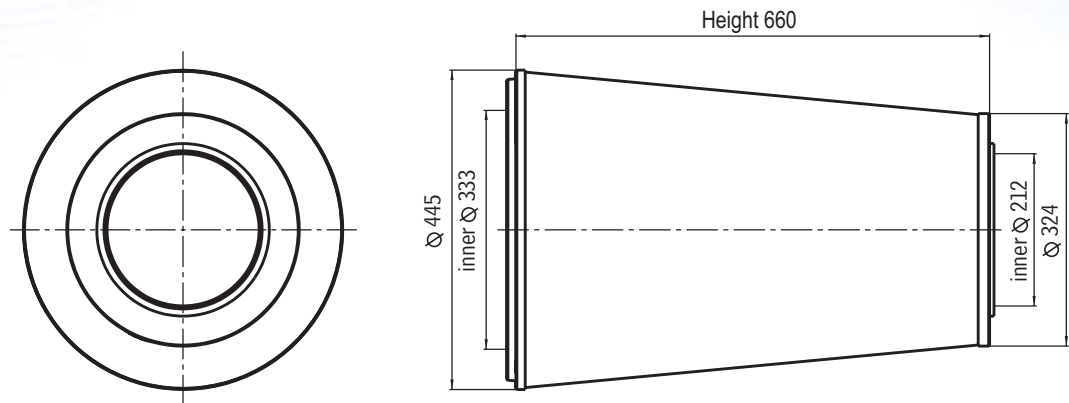
Efficiencies



Particle size	Efficiency with 450g finedust sand loaded			
	Airflow per filter	600 m ³ /h	960 m ³ /h	1440 m ³ /h
0.3 μm		97.69 %	97.38 %	97.84 %
0.5 μm		99.71 %	99.74 %	99.69 %
1.0 μm		99.84 %	99.88 %	99.82 %
3.0 μm		99.88 %	99.93 %	99.95 %
5.0 μm		99.93 %	99.98 %	99.99 %
10.0 μm		100 %	100 %	100 %



Dimensional Drawing



Filter Sizes

Filter size		
Outer diameter	445 / 324	mm
Inner diameter	333 / 212	mm
Height (without gasket)	660	mm
Weight	8	kg

Order Numbers

Order no.: GRV - **A** **B** - **C** **D**

Example: GRV - **94** **66** - **44** **32**

Filter Media	A	Height	B	Diameter lower cup	C	Diameter upper cup	D
Synthetic/ Cellulose blend	94	660 mm	66	Outer Diameter 445 mm	44	Outer Diameter 324 mm	32
Full Synthetic	95						

