



## Cylindrical Finedust Filter Type GR0



### Features:

- For use in gas turbine air filtration systems with backpulse cleaning
- 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 GR0 cylindrical filter cartridges are designed especially for the high demands in gas turbine air filtration systems. With the paper that we use, we can give you very safe protection for your turbine. Through the outstanding durability and the high efficiency of the filter media, we decrease the risk of dust entering through media failure or through high penetrations values.

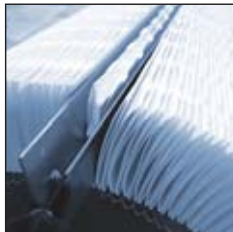


- High quality paper made of cellulose & synthetic components
- Filter is pulse cleanable
- Long lifetime through media with high tensile strength
- Lowest initial pressure drop
- Zinc coated end caps with glued sealing
- Expanded zinc coated screen with high open surface
- High quality standard due to Quality Assurance System
- 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 cylindrical gasket and the lower one with an attached sealing disk. 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

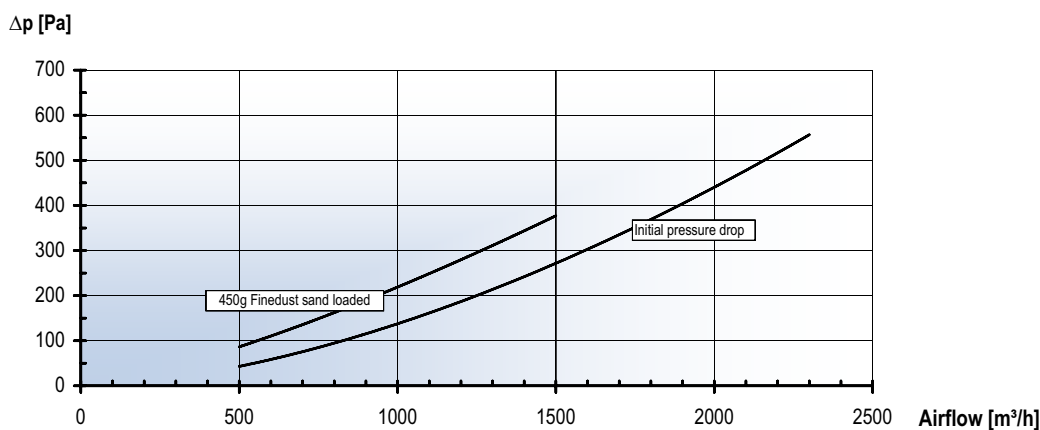


## Technical Data

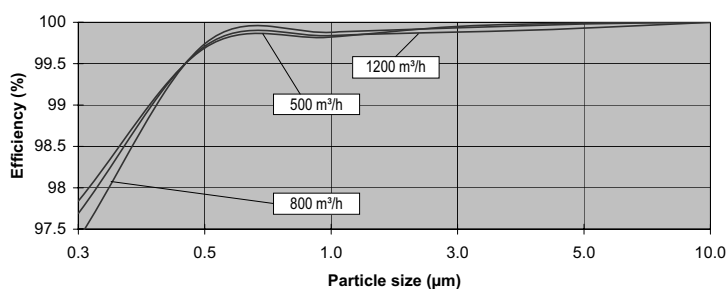
Filter data	GR0-9466-0032	
Pleating height	mm	48.5
Pleats		320
Filter media active surface / cartridge	m <sup>2</sup>	> 20
Initial pressure drop @ rated airflow	Pa	134
Rated airflow	m <sup>3</sup> /h	1000
Recommended final pressure drop	Pa	600
Flammability classification to DIN 53438		K1/F1
Max. relative humidity	%	100
Max. continuous temperature	°C	80



## Pressure Drop



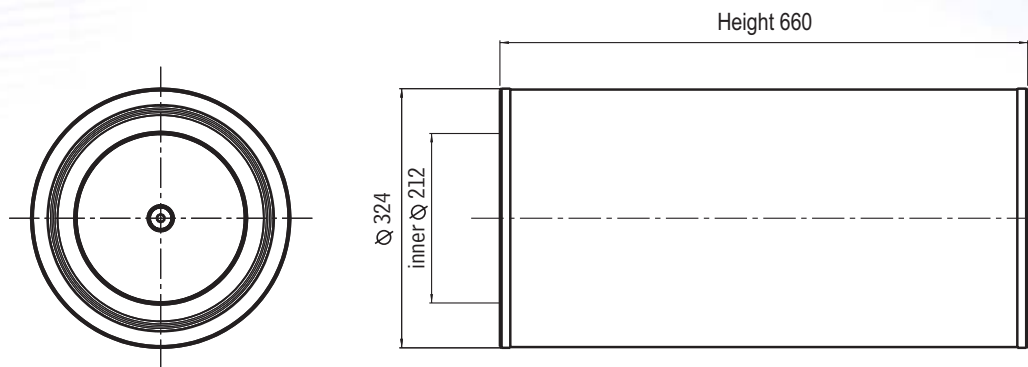
## Efficiencies



Particle size	Efficiency with 450g finedust sand loaded			
	Airflow per filter	500 m <sup>3</sup> /h	800 m <sup>3</sup> /h	1200 m <sup>3</sup> /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	324	mm
Inner diameter	212	mm
Height (without gasket)	660	mm
Weight	6	kg

### Order Numbers

Order no.: GR0 - **A** **B** - **C** **D** **E**

Example: GR0 - **94** **66** - **0** **0** **32**

Paper	A	Height	B	Free	C	Free	D	Diameter	E
Syntetic/ Cellulose blend	94	660 mm	66	Free	0	Free	0	Outer Diameter 324 / 212 mm	32
								351 / 240 mm	35

Specifications are subject to change without prior notice