

Reverse Pocket Filter

Product Overview

- ① Reliable water droplet separator
- ② Installation in front of existing pre-filter without additional frame

Customer Benefits

- Substantial reduction of water and salt particles in air intake systems.
- Using reverse pocket filter helps to avoid rapid pressure drop increase and to reduce fouling on gas turbine blades.

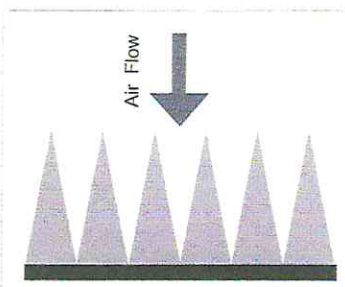


Product Features

- Low resistance filter media.
- Synthetic organic fibers with fracture resistance and progressive media structure.
- The reverse media concept with progressively structured filter media offers superior dust holding capacity and long service life.
- Filter material has excellent moisture resistance and can maintain reliable filtration performance in humid environment.
- The outer frame is made of halogen free plastic and contains no metal elements.
- Filter and support frame are fully incinerable.
- High operational safety due to leak-proof welded pockets.
- The very stable support frame allows safe operation even with high air volumes and/or high dust concentration.
- The design concept allows to install the reverse pocket filter directly in front of the existing pre-filter system without the necessity to install a mounting frame.
- Fire retardant: DIN 53438 F1.

Application

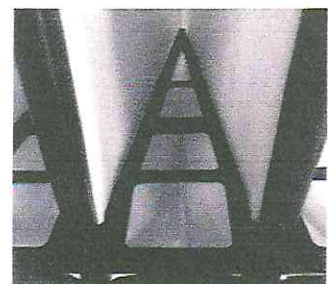
- Reverse pocket filter offers proven operational safety for air supply systems of gas turbine and turbo compressors. Thanks to low differential pressure drop development over the lifetime and high dust holding capacity reverse pocket filter has a long service life and low energy consumption. The filter construction has an excellent stability even under the impact of turbo pumping pressure.
- Reverse pocket filter is suitable for the use in spray paint exhaust air systems, recirculation air filtration, VOC waste gas treatment, industrial processes (electronics, medicine, food and beverage, metal processing, paper, chemical, etc.), general machine room and production workshop, etc. and everywhere limited space does not allow the installation of a separated filter wall.



Reverse flow



Plastic frame



Plastic inner support frame

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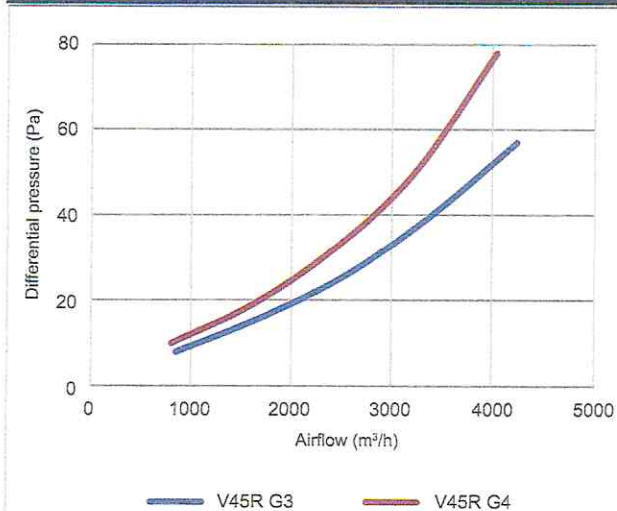
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Reverse Pocket Filter

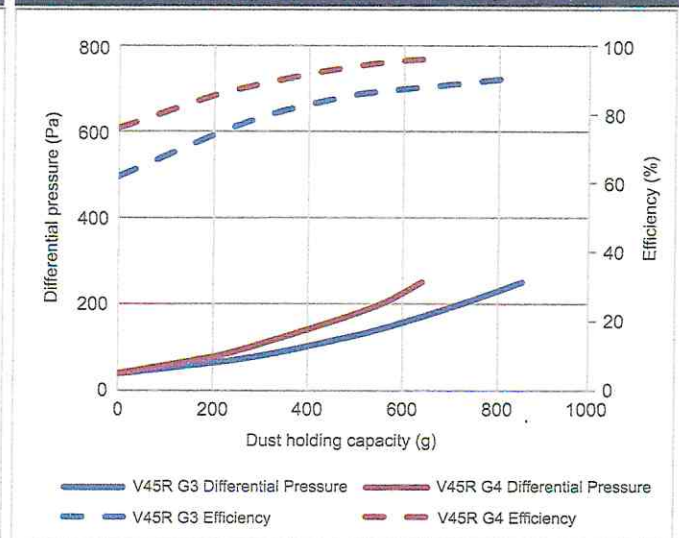
Technical Data

Parameter	Unit	V45R G3	V45R G4	V45R M5
EN779 2012	-	G3	G4	M5
ASHRAE52.2 2017	-	MERV 5	MERV 7	MERV 8
ISO 16890	-	ePM Coarse	ePM Coarse	ePM10 50%
Dimension	mm	592 x 592 x 330		
No. of pockets	-	6		
Airflow	m ³ /h	3400	3400	3400
Initial pressure	Pa	40	48	67
Recommended final pressure	Pa	250	250	450
Average arrestance	%	87	92	95
Dust holding capacity	g	850	640	478
Surface area	m ²	2.5	2.5	2.5

Airflow and differential pressure curve



Dust holding capacity and differential pressure curve
Dust holding capacity and efficiency curve



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