



Drop Safe Filters DS-F5 and DS-F6-600



Application

Filtrair Drop Safe (DS) rigid filters serve as very efficient pre or final filters in air intake systems of combustion engines, in any environmental condition (including offshore, marine) and in any climate (including tropical). They efficiently remove airborne particulate matter but also snow, mist and fog, acting as a filter and a coalescer in one. DS rigid filters are specially designed for the elimination and drainage of free water and airborne salt crystals. Where subsequent final filters are placed, they protect them not only from dust but also from salt and water, thus significantly prolonging their life and increasing their operational safety.

Filter Media

Filtrair manufactures its own thermally bonded synthetic media for the DS rigid pocket filters. The depth-loading media is of progressive structure for high dust holding capacity and contains an added hydrophobic treatment and tackifier throughout the medium depth to repel water and retain captured particles.

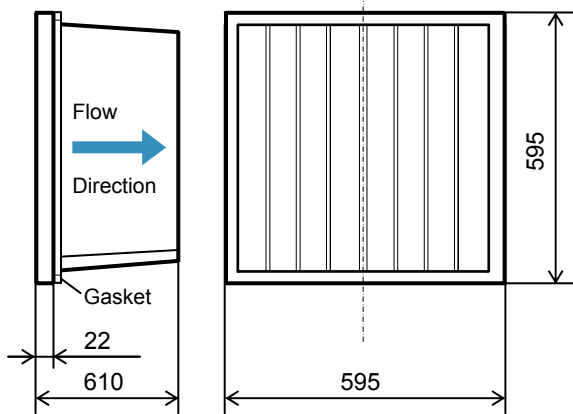
Features

- ◆ Unique - combined coalescer and particle filter in one
- ◆ Also for extreme environments: high moisture and water mist content, high velocity, offshore, marine, ...
- ◆ Patented sealed boot pocket design - coalesces water inside the pockets and drains it out upstream of filter
- ◆ Self supporting, leak-free welded pockets - stay rigid when wet and in turbulent air - eliminating shedding
- ◆ Aerodynamic wedge-shape, tubular pocket spacers - minimum flow resistance and maximum dust holding
- ◆ Pockets water tight integrated in injection moulded, impact-proof PU header - burst strength of ≥ 6000 Pa
- ◆ Unique, proprietary, progressive Filtrair filter media with special hydrophobic treatment
- ◆ Filtrair DS filters may be disposed of by incineration
- ◆ Filter range independently tested
- ◆ Available in filter classes G4, F5 and F6 per EN 779

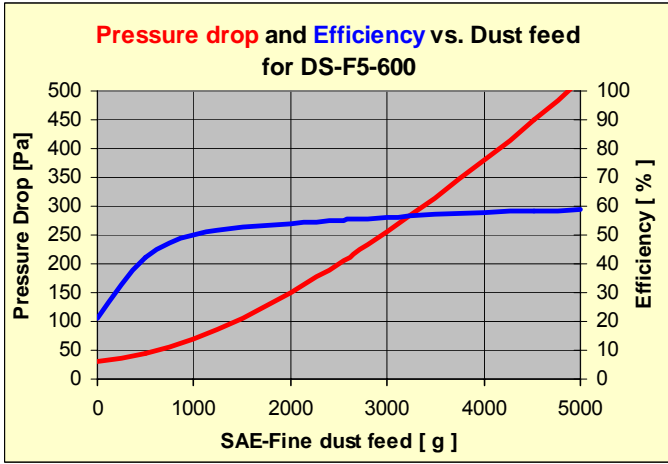
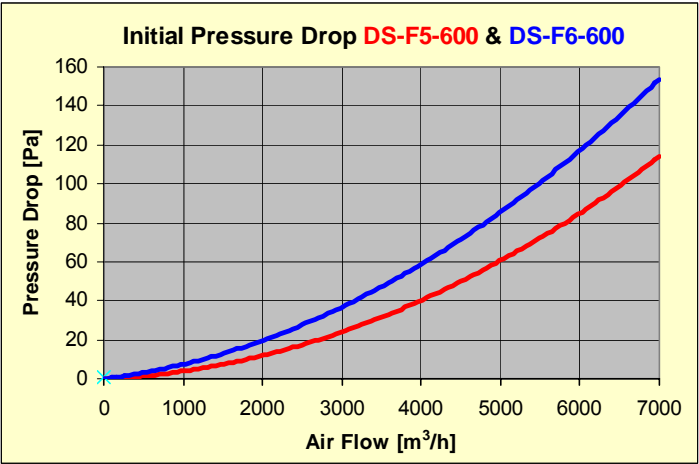
Filtrair Drop Safe Rigid Pocket Filters – Technical Specifications

Drop Safe filter type	Unit	DS-F5-600	DS-F6-600
Rated air flow, 1/1 size	m ³ /h	4250	4250
Initial pressure drop at 4250 m ³ /h	Pa	45	65
Initial pressure drop at 3400 m ³ /h	Pa	30	45
Recommended final pressure drop	Pa	350	350
Filter class (EN 779:2002)	–	F 5	F 6
Average arrestance (EN 779)	%	97	99
Average efficiency (EN 779)	%	51	62
Active filter medium area	m ²	5.6	5.6
Burst pressure (new, dry & wet cond.)	Pa	> 6000	> 6000
AC- / SAE-Fine DHC* up to 450 Pa	g	4520	2650
ASHRAE DHC at 3400 m ³ /h (EN779)	g	1810	1200
Weight	kg	3.5	3.9

Filter dimensions (mm)

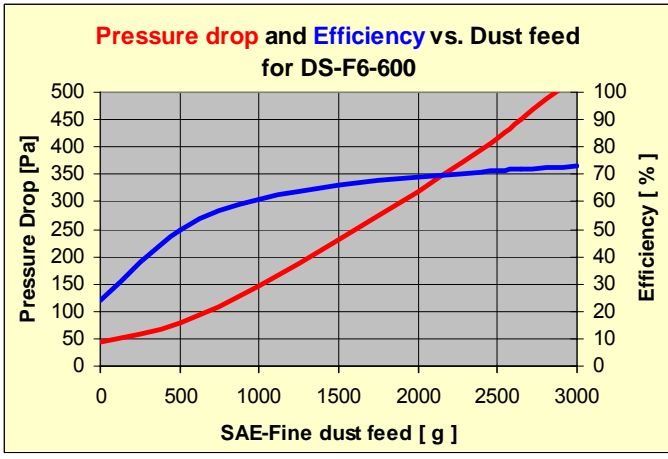


*) Dust Holding Capacity at 3400 m³/h for test dust "A2-fine" as ISO12'103-1



Application limits and remarks

- ◆ Maximum continuous operating temperature: ≤ 70°C
- ◆ Flammability classification: UL900 class 2, DIN53438-K1/F1
- ◆ Gasket (5 mm) on downstream side (standard) or on request on upstream or on both sides
- ◆ Also available: DS-G4-300, filter class G4 as per EN779
DS-G4-600, filter class G4 as per EN779



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