

FILTRO A TASCHE
DONALDSON SPOTAIR SA-F40

unit type	Ricambio	Elementi filtranti per Unità filtrante	Scheda tecnica media filtrante	Scheda tecnica elemento filtrante	Certificato ISO
SA-F40HF RAL 5019	BAG DURALIFE Oleophobic AS	4	FM_DuraLife_Antistatic_Oleo_Hydrophobic_4210955GB	RE_B_Dalamatic_Style_D_DOCAM0832501	ISO_CERTIFICATE_DURALIFE
SA-F40VF RAL 5019	BAG DURALIFE Oleophobic AS	4	FM_DuraLife_Antistatic_Oleo_Hydrophobic_4210955GB	RE_B_Dalamatic_Style_D_DOCAM0832501	ISO_CERTIFICATE_DURALIFE



DATA SHEET

Filter media

Dura-Life® Oleophobic Hydrophobic Anti-Static

Dura-Life® Oleophobic Hydrophobic Anti-Static

Appearance	Grey
Use	Filter bags
Composition	Mixture of polyester fibres, bicomponent polyester and epitropic conductive fibres
Area weight	320 g/m ²
Thickness	1.6 mm
Air Permeability (Frazier)	700 m ³ /m ² /h at 125 Pa
Dimensional stability at 177 °C (%)	<3.0%
Surface finish	None
Additional treatments	Heat set Oleo/hydrophobic oil and water repellent finish
Surface electrical resistance (DIN 54345)	Less than 10 ⁸ Ω
IFA/BIA certificate (DIN 660335-2-69)	N/A
Temperature (dry heat)	
Continuous	135 °C
Peaks	150 °C
Chemical resistance	
Hydrolysis	Poor
Acids	Good
Alkalis	Good
Oxidising agents	Very good
Organic solvents	Very good
Abrasion resistance	Very good
Supports combustion	Yes
Application field	Whenever the dust has an oil or moisture content, the oleo/hydrophobic treatment improves cake release and prevents premature blinding of the media and is also beneficial when handling moisture sensitive dusts. The antistatic conductive fibre content prevents the build up of dangerous static charges, which could initiate an explosion inside the filter casing.

Order online

shop.Donaldson.com

Contact us

Donaldson.com

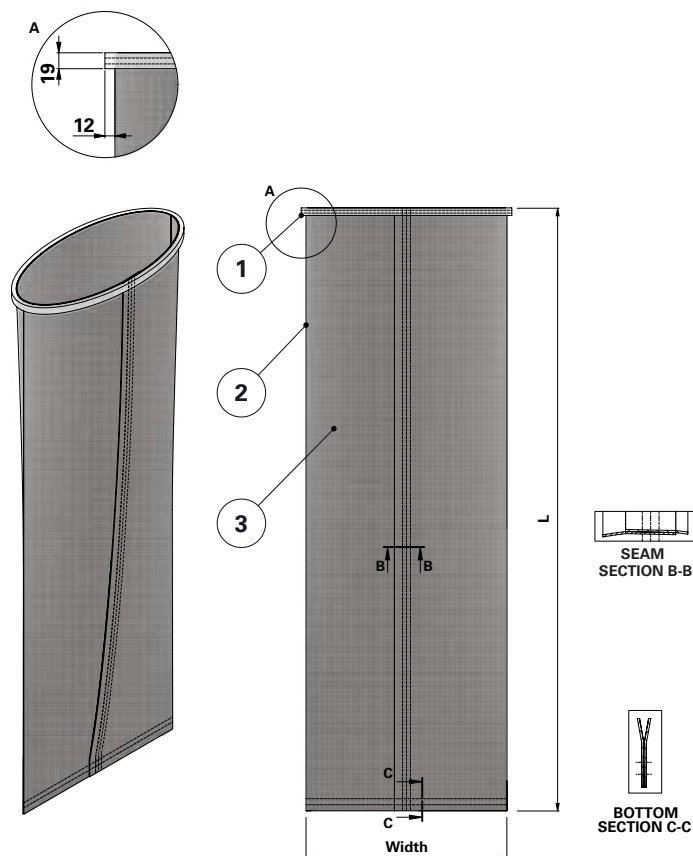
Publication 4210955GB • Rev. 11 • 1118

Donaldson reserves the right to change or discontinue any model or specification at any time and without notice. Freedom from patent restrictions must not be assumed.



DATA SHEET

Replacement Elements Bags – Dalamatric Style



Dalamatric Style

0.7 m, 1.0m, 1.25 m, 1.50 m, 1.75 m, 2.0 m Dalamatric Bag with felt ring top, flat sewn bottom

For Dalamatric Insertable (DLMV), Dalamatric Cased (DLMC) and other brands of baghouse collectors

Item Description

- | | |
|---|----------------|
| 1 | Felt ring |
| 2 | Label (inside) |
| 3 | Filter bag |

Dimensions [mm]

Width	495
L	700
	1000
	1250
	1500
	1750
	2000

Order online

shop.Donaldson.com

Contact us

Donaldson.com

Publication DOCAM0832501 • Rev. 00 • 1018

Donaldson reserves the right to change or discontinue any model or specification at any time and without notice. Freedom from patent restrictions must not be assumed.



ISO 16890-2:2016(E) CERTIFICATE

Bag Filter

Duralife

Filter type: Bag Filter

Filter media: Duralife

Date test: 11/3/2020

Test report number: 172-2

ISO Classification: ePM₁₀ 70%



Contact us

Donaldson.com

Rev. 01 • 0620

Donaldson reserves the right to change or discontinue any model or specification at any time and without notice. Freedom from patent restrictions must not be assumed.



LMS TECHNOLOGIES, INC.
6423 Cecilia Circle
Bloomington, MN 55439
Tel.: (952) 918-9060, Fax: (952) 918-9061

Report #: 172-2

ISO 16890-2:2016(E) Test Report

Sheet #: 1

Test Requested By:	<u>Donaldson</u>
Test Date:	<u>03/11/2020</u>
Manufacturer:	<u>Donaldson</u>
PN-Identification:	<u>1A31392316-440</u>
Filter Type:	<u>Bag Filter</u>
Filter Name::	<u>Dalomatic bag Duralife</u>
Net Effective Filtering Area:	<u></u>
Media Color:	<u>White</u>
Filter Size:	<u>13" x 28"</u>
Filter Description:	<u>White Bag Filter</u>
Filter/Media Electrostatic Charge:	<u>No</u>
Device Condition:	<u>Clean / Initial Testing</u>
How Filter Obtained:	<u>Provided by Donaldson</u>



Test Description

Test Airflow Rate:	<u>0.047 m³/s / 100 cfm</u>	<i>e</i> PM ₁ Efficiency	<u>27%</u>
Temp & Humidity:	<u>22°C / 45%RH</u>	<i>e</i> PM _{2.5} Efficiency	<u>38%</u>
Particle Analysis:	<u>Met One 3400</u>	<i>e</i> PM ₁₀ Efficiency	<u>73%</u>
Coincidence Value:	<u>20M particles/m³</u>	<i>e</i> PM _{1,min} Efficiency	<u>27%</u>
Test Aerosol:	<u>KCl & DEHS, Neutralized</u>	<i>e</i> PM _{2.5,min} Efficiency	<u>38%</u>
LMS#:	<u>6116</u>	ISO Filter Class Rating	<u>ISO <i>e</i> PM10 70%</u>
Test Engineer :	<u>Emile Tadros/Pat Best/Jose Tizcareno/Kevin Kwong/Kia Kiantaj</u>		
Approved By:	<u>K. C. Kwok, Ph.D.</u>		

Note: The results of this test relate only to the test device in the condition stated herein. The performance results cannot by themselves be quantitatively applied to predict filtration performance in all "real-life" environments.

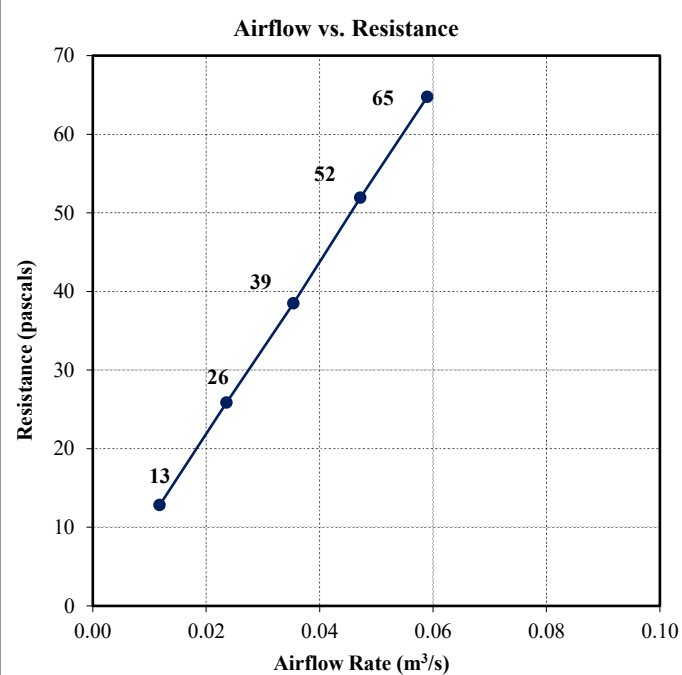
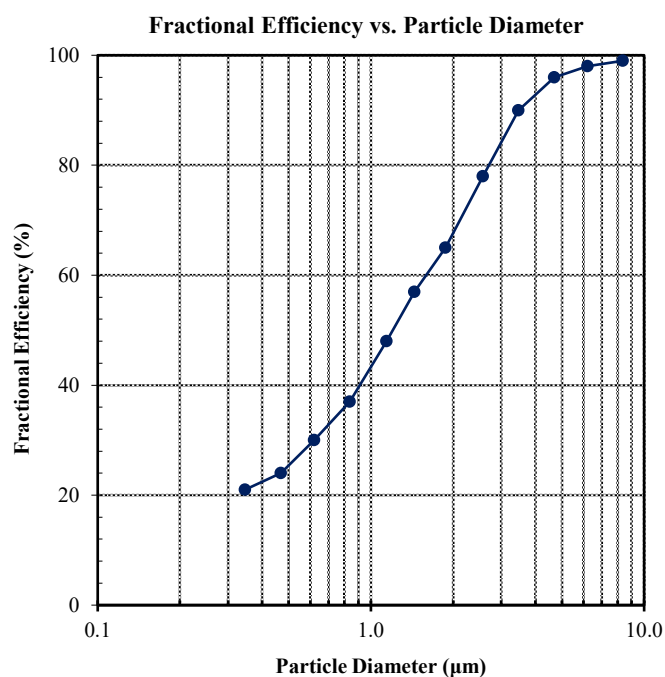


LMS TECHNOLOGIES, INC.
6423 Cecilia Circle
Bloomington, MN 55439
Tel.: (952) 918-9060, Fax: (952) 918-9061

Report #: 172-2	ISO 16890-2:2016(E) Test Report	Sheet #: 2
Test Date: 03/11/2020	Filter Mfr: Donaldson	Filter ID: 1A31392316-440

Size Range (μm)	Fractional Efficiency (%)	Upstream Conc. (particles/ m^3)
0.30-0.40	21	4405018
0.40-0.55	24	1850244
0.55-0.70	30	993439
0.70-1.00	37	1304032
1.00-1.30	48	812521
1.30-1.60	57	240352
1.60-2.20	65	462199
2.20-3.00	78	442105
3.00-4.00	90	295796
4.00-5.50	96	70488
5.50-7.00	98	54455
7.00-10.0	99	41636

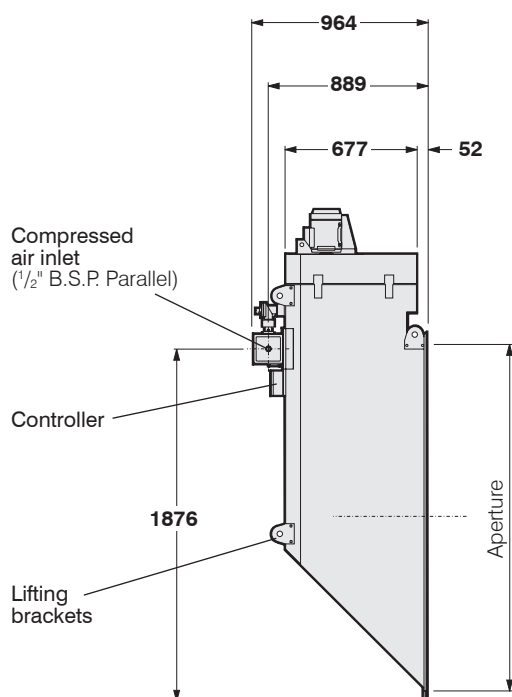
% of Rated Flow	Airflow Rate (m^3/s)	Resistance (Pa)
25%	0.012	13
50%	0.024	26
75%	0.035	39
100%	0.047	52
125%	0.059	65



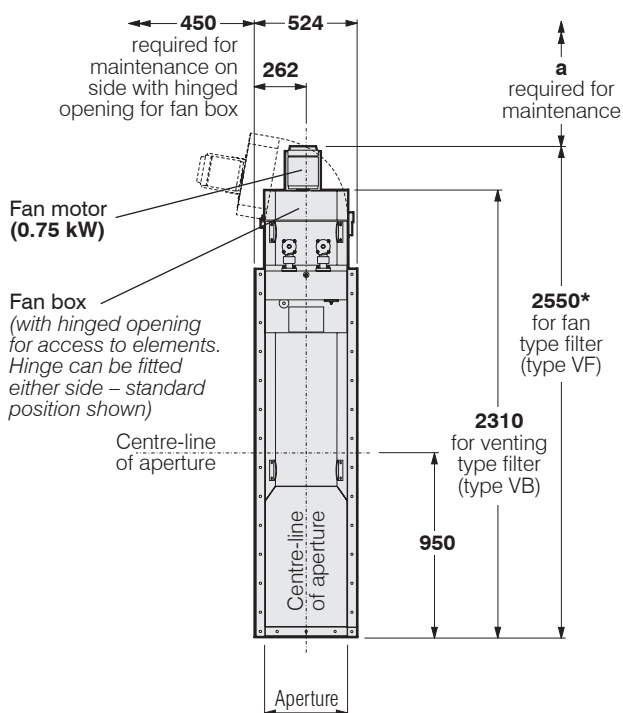
Note: The results of this test relate only to the test device in the condition stated herein. The performance results cannot by themselves be quantitatively applied to predict filtration performance in all "real-life" environments.

Spotair Dust Filters

Series SA-F and SA-C



SIDE ELEVATION



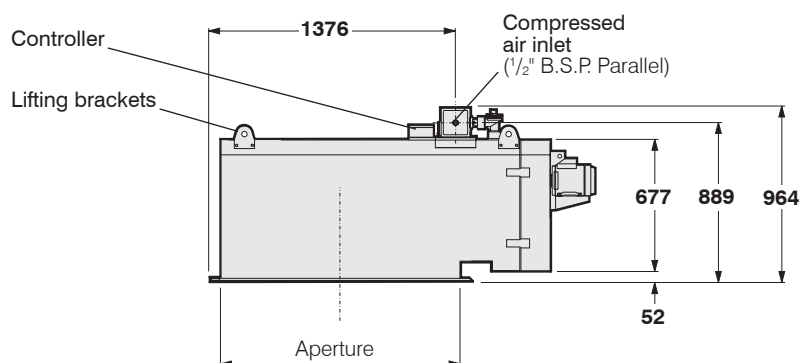
FRONT ELEVATION

Spotair filter for vertical mounting

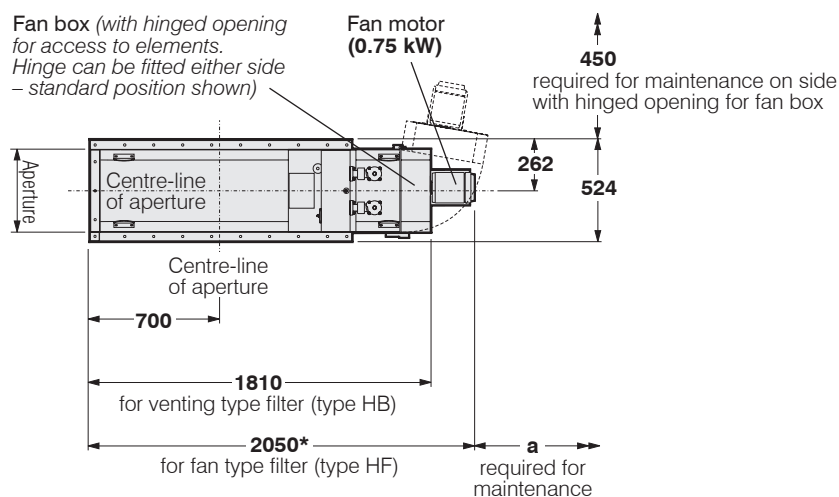
*This dimension is approximate and is dependent on make of motor

SPECIFICATIONS

Filter type	Filtration area	No. of elements	DIMENSION a	Approx. net weight
Fabric media:				
SA-F20VF	2.0 m²	2	760 mm	180 kg
SA-F20VB				159 kg
SA-F40VF	4.0 m²	4	760 mm	199 kg
SA-F40VB				178 kg
Spun-bonded polyester media:				
SA-C100VF	10.0 m²	2	625 mm	173 kg
SA-C100VB				152 kg

Spotair Dust Filters – Series SA-F and SA-C


SIDE ELEVATION



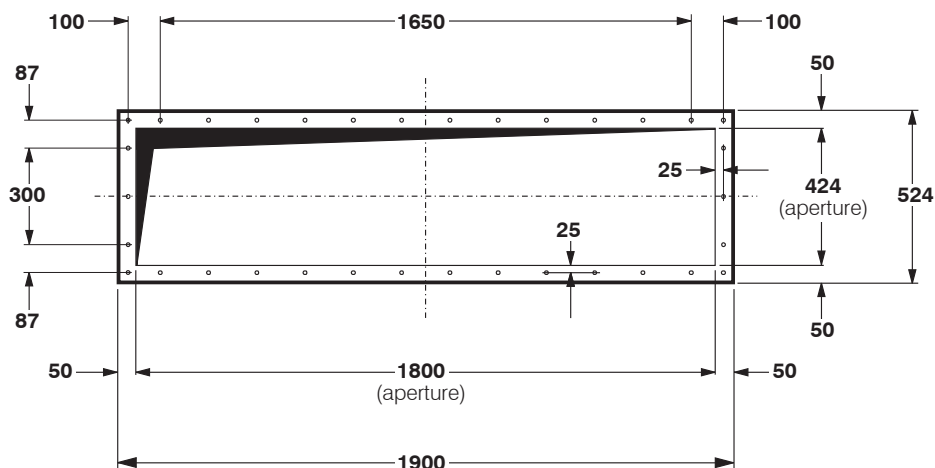
PLAN ELEVATION

Spotair filter for horizontal mounting

*This dimension is approximate and is dependent on make of motor

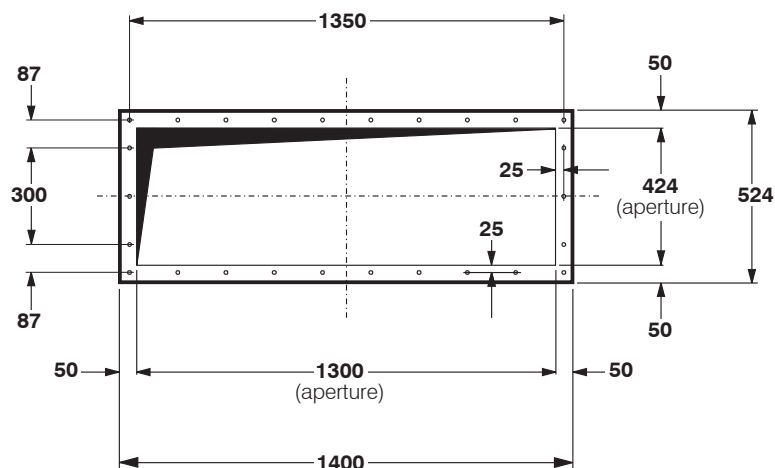
SPECIFICATIONS

Filter type	Filtration area	No. of elements	DIMENSION a	Approx. net weight
Fabric media:				
SA-F20HF	2.0 m ²	2	760 mm	174 kg
SA-F20HB				153 kg
SA-F25HF	2.5 m ²	2	1010 mm	176 kg
SA-F25HB				155 kg
SA-F40HF	4.0 m ²	4	760 mm	193 kg
SA-F40HB				172 kg
SA-F50HF	5.0 m ²	4	1010 mm	196 kg
SA-F50HB				175 kg
Spun-bonded polyester media:				
SA-C100HF	10.0 m ²	2	625 mm	167 kg
SA-C100HB				146 kg



Aperture and mounting flange details for vertical mounting filters

All holes $\varnothing 12$ mm for M10 bolts. Pitch centres: 150 mm, except where shown.



Aperture and mounting flange details for horizontal mounting filters

All holes $\varnothing 12$ mm for M10 bolts. Pitch centres: 150 mm, except where shown.

COMPRESSED AIR REQUIREMENTS

Filter type	Working compressed air pressure ^a		Atmospheric air volume—F.A.D. ^b at 25 s intervals ^c		Pulse duration
SA-F20 and SA-F25	3.8 bar	55 psig	2.6 m ³ /h	1.5 cfm	200 ms
SA-F40 and SA-F50	3.8 bar	55 psig	3.1 m ³ /h	1.8 cfm	200 ms
SA-C100	3.8 bar	55 psig	2.5 m ³ /h	1.4 cfm	200 ms

^aNormal operating pressure. ^bRecommended atmospheric air volume of clean, dry compressed air.

^cRecommended initial settings; these may be varied with experience.
For connection details please refer to Donaldson.

Spotair Dust Filters – Series SA-F and SA-C

DESIGN LIMITS (standard equipment)

Temperature range: -10° to +60°C

Pressure range: -200 mm W.G. to +200 mm W.G.

Dimension tolerances: ±5 mm on main dimensions ±2 mm on detail dimensions

ELECTRICAL REQUIREMENTS

Controller: 2-way controller

Voltage input: AC version: 105-120V, 200-240V ±10% DC version: 24V

Fan motor (if fitted): To suit local voltage

NOISE LEVELS

Machinery noise levels are an important consideration in the design and selection of new equipment. Several EC Directives and National Laws/Regulations adopting these directives make reference to airborne noise emissions. Actions that employers are required to comply with if employees are subjected to a daily personal noise exposure level of 80 dB(A) or more are also specified.

Spotair filters have an average reading of 78 dB(A).

All readings were taken in normal industrial areas, i.e. semi-reverberant surroundings, with local equipment silent, at 1.0 metre radius from the equipment housing and at motor shaft height, using a precision sound level meter and octave filter.

Noise levels of installed equipment may vary due to site conditions.