



# Silicone Free Coalescing Filters

Models | SF0006 to SF1500

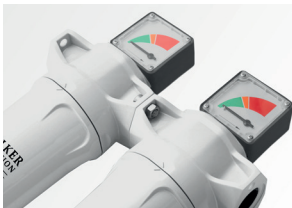
Flow Rates 6 SCFM (10 Nm<sup>3</sup>/hr) to 1500 SCFM (2550 Nm<sup>3</sup>/hr)

**Our Silicone Free Filters provide exceptional air quality for applications where silicone-free air is required to protect your end products.**

The Walker Filtration Silicone Free Range provides the market leading Alpha compressed air and gas filters manufactured and tested in a controlled environment that ensures silicone is not present on the components used nor introduced into the production process.

Designed with flow optimization in mind, the Silicone Free Coalescing Filter Series features an advanced filter head design which, when combined with the Alpha filter element, significantly improves the air flow, increases the energy efficiency, and enhances the overall performance of your compressed air system.

Differential pressure of  
<1.8 psi across X1 and  
XA grades



#### Modular Filter

Low cost connecting kits and new filter head design enables easy close coupling assembly



#### Silicone-Free Manufacturing

Manufactured in a controlled environment to ensure silicone is not present or introduced during the production process



#### Filtration Technology

Alpha deep pleated media technology delivers a step change in performance

- **Market Leading Performance** Custom engineered filtration media delivers optimum performance in line with air quality standard ISO 8573-1: 2010
- **Improved Operational Efficiencies** Deliver improved production and operational efficiencies in your industrial paint plant with market leading silicone-free filtration technology
- **Simplified Serviceability** Externally accessible drain, profiled bowl design and unique push fit elements ensure quick and reliable maintenance
- **Flow-Optimized Design** Advanced filter head design for optimized flow performance
- **Flexible Installation** Modular design and accessible fixings enable simple close coupling assembly
- **Corrosion Protection** Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating
- **Product Safety in Mind** Guaranteed safe housing closure with rotational safety stop



# Technical Specification

Filter model	Pipe size inches	Inlet flow rate*		Dimensions inches (mm)				Weight lbs	Weight kg	Element model
		SCFM	Nm/hr	A	B	C	D			
SF0006 (grade)	1/8	6	10	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	ESF0306
SF0015 (grade)	1/4	15	25	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	ESF0306
SF0025 (grade)	1/4	25	42	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0408
SF0032 (grade)	3/8	32	54	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0408
SF0050 (grade)	1/2	50	85	2.76 (70)	0.91 (23)	9.09 (231)	2.76 (70)	1.3	0.6	ESF0412
SF0070 (grade)	1/2	70	119	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0085 (grade)	3/4	85	144	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0105 (grade)	1	105	178	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	ESF0612
SF0125 (grade)	3/4	125	212	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0	ESF0621
SF0175 (grade)	1	175	297	5.00 (127)	1.26 (32)	14.57 (370)	3.15 (80)	4.4	2.0	ESF0621
SF0280 (grade)	1 1/4	280	476	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0	ESF0731
SF0320 (grade)	1 1/2	320	544	5.51 (140)	1.61 (41)	18.74 (476)	3.35 (85)	6.6	3.0	ESF0731
SF0400 (grade)	1 1/2	400	680	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	ESF0831
SF0450 (grade)	2	450	765	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	ESF0831
SF0700 (grade)	2	700	1189	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	12.1	5.5	ESF0850
SF0850 (grade)	2 1/2	850	1444	8.66 (220)	2.75 (70)	28.98 (736)	3.94 (100)	23.1	10.5	ESF1140
SF0900 (grade)	3	900	1529	8.66 (220)	2.75 (70)	28.98 (736)	3.94 (100)	23.1	10.5	ESF1140
SF1250 (grade)	3	1250	2125	8.66 (220)	2.75 (70)	33.74 (857)	3.94 (100)	25.4	11.5	ESF1160
SF1500 (grade)	3	1500	2550	8.66 (220)	2.75 (70)	39.57 (1005)	3.94 (100)	27.6	12.5	ESF1175

\*Rated flow at 100 psig (7 barg), reference conditions at 14.7 psi(a) (1.014 bar(a)), 68°F (20°C)

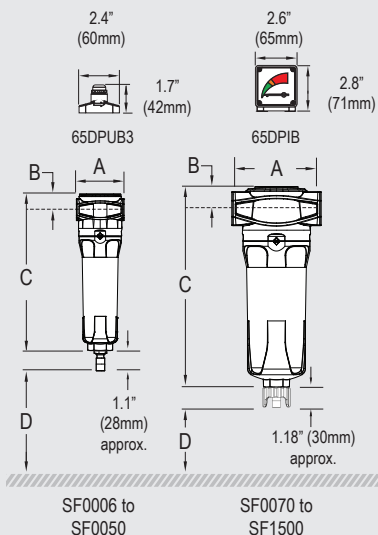
Grade	X5		X1		XA		AC	
Particle removal	5 micron		1 micron		0.01 micron		0.01 micron	
Maximum particle size class**	4		3		1		1	
Maximum oil content***	4		3		1		1	
Maximum oil carryover at 68°F (20°C)	5 ppm	5 mg/m³	0.3 ppm	0.3 mg/m³	0.01 ppm	0.01 mg/m³	0.003 ppm	0.003 mg/m³
Pressure loss - clean & dry	0.6 psi	40 mbar	0.8 psi	55 mbar	1.2 psi	85 mbar	1.7 psi	155 mbar
Pressure loss - saturated	1.1 psi	75 mbar	1.8 psi	125 mbar	1.8 psi	125 mbar	N/A	N/A
Pressure loss - element change	12 mths	8000 hrs	12 mths	8000 hrs	12 mths	8000 hrs	at least every 6 months	
Maximum temperature - Automatic Drain	176°F	80°C	176°F	80°C	176°F	80°C	122°F***	50°C***
Max working pressure - Automatic Drain	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg
Maximum temperature - Manual Drain	248°F	120°C	248°F	120°C	248°F	120°C	122°F***	50°C***
Max working pressure - Manual Drain	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg
Element end cap color	Black							

\*\* to ISO 8573-1:2010 \*\*\* Maximum recommended operating temperature 77°F (25°C)

Pressure correction factors	For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure psig (barg)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (14)	232 (16)	300 (20.7)
100 psig correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

## Technical Notes

- Direction of air flow is inside to out through the filter element.
- Pop Up Indicators (65DPUB3) are fitted to models SF0025 to SF0050 as standard. Differential Pressure Indicators (65DPIB) are fitted to models SF0070 to SF1500 as standard. Activated Carbon (AC) grade filters do not include DP equipment. Volt free contact options are available upon request.
- Coalescing Filters are fitted as standard with normally open float operated Automatic Drain Valves, SFADV16 on models SF0006 to SF0050 and SFADVSE16B on models SF0070 to SF1500. Standard filters can operate at 232 psig (16 barg) at 176°F (80°C). Normally closed Automatic Drain Valves (SFADVS16C) are available for low flow applications. 300 psig (20.7 barg) range at 248°F (120°C) available when supplied with a Manual Drain Valve (SFMDV25 / SFMDVE25B).
- Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).
- Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
- Standard threaded connections are NPT to ANSI/ASME B1.20.1. RP (BSP Parallel) to ISO 7-1 and RC (BSP Taper) to ISO 7-1 are also available upon request.
- Filters are suitable for use with mineral and synthetic oils plus oil-free compressed air applications.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated Carbon Filter elements should be changed at least every 6 months.
- These filters are manufactured and tested in a controlled environment to ensure that traces of silicone or paint wetting impairment substances (PWIS) are not present on the components used, or unintentionally introduced during the production process. While the product itself does not contain significant traces of such substances, they are not designed to remove pre-existing silicone contaminants from the air stream.



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