WALKER FILTRATION

The ultimate filtration & drying technology

Vacuum Pump Exhaust Filters

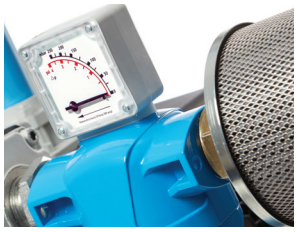
Models | A3031EF to A3303EF

Flow Rates 4 SCFM (7 Nm³/hr) to 288 SCFM (489 Nm³/hr)

Walker Filtration's New Alpha Simplex and Duplex Vacuum Pump Exhaust Filters are designed to remove oil mist from lubricated Vacuum Pumps – providing unrivalled filtration performance, reduced exhaust noise levels and an oil free working environment.

The New Alpha Vacuum Pump Exhaust Filters feature a comprehensive range with connection sizes ranging from $^{3}/_{8}$" to 3". High performing Simplex Filters deliver exceptional results in oil mist removal from vacuum pumps, while the two-stage Duplex Filter removes both oil mist and odor.

The New Alpha elements utilize custom engineered media technology to provide market leading performance, significantly reducing pressure loss and energy consumption for low operational costs and increased operating efficiencies.



Effective Oil Mist Removal
Preventing potentially harmful contaminants being exhausted into the atmosphere

Optimized Filtration Performance
New Alpha custom engineered media technology delivers a step change in performance

Duplex Filtration
Two-stage filtration within one filter unit

- **Exceptional Drainage** Manual drain fitted to all Vacuum Pump Protection Filters as standard
- **Market Leading Performance** Custom filter construction delivers optimum performance
- **Simplified Serviceability** New profiled bowl design and unique push fit elements ensure quick and reliable maintenance
- **Product Safety in Mind** Guaranteed safe housing closure with rotational safety stop
- **Corrosion Protection** Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating

For further information please visit www.walkerfiltration.com

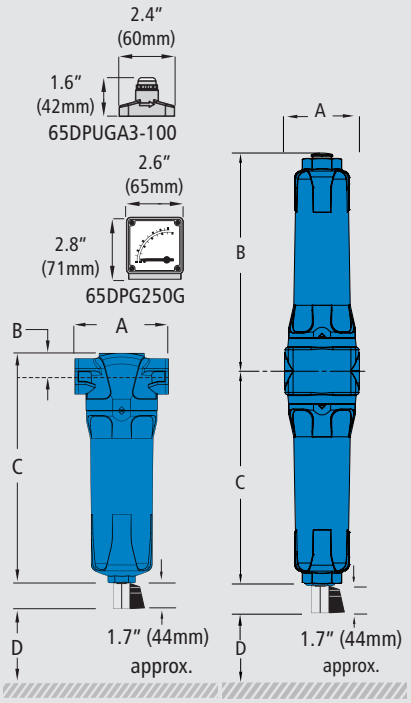
For further information please call: +1 814 836 2900

Technical Specification

Filter model	Pipe size inches	Exhaust flow rate* (vacuum displacement)		Dimensions inches (mm)				Weight		Element model
		SCFM	Nm³/hr	A	B	C	D	lbs	kg	
A3031EF	3/8	4	7	2.76 (70)	0.94 (24)	9.09 (231)	2.76 (70)	1.3	0.6	E30408EF
A3051EF	1/2	7	11	2.76 (70)	0.94 (24)	9.09 (231)	2.76 (70)	1.3	0.6	E30412EF
A3052EF	1/2	12	20	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612EF
A3071EF	3/4	15	25	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612EF
A3101EF	1	17	29	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612EF
A3072EF	3/4	21	35	5.00 (127)	1.26 (32)	14.61 (371)	3.15 (80)	4.4	2.0	E30621EF
A3102EF	1	29	50	5.00 (127)	1.26 (32)	14.61 (371)	3.15 (80)	4.4	2.0	E30621EF
A3122EF	1 1/4	44	75	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831EF
A3151EF	1 1/2	59	100	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831EF
A3201EF	2	68	115	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831EF
A3202EF	2	106	180	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	12.1	5.5	E30850EF
A3251EF	2 1/2	118	200	8.66 (220)	2.76 (70)	28.98 (736)	3.94 (100)	23.1	10.5	E31140EF
A3301EF	3	138	234	8.66 (220)	2.76 (70)	28.98 (736)	3.94 (100)	23.1	10.5	E31140EF
A3302EF	3	212	360	8.66 (220)	2.76 (70)	33.74 (857)	3.94 (100)	25.4	11.5	E31160EF
A3303EF	3	288	489	8.66 (220)	2.76 (70)	39.57 (1005)	3.94 (100)	27.6	12.5	E31175EF

Filter model	Pipe size inches	Exhaust flow rate* (vacuum displacement)		Dimensions inches (mm)				Weight		Element model Exhaust Filter	Element model Activated Carbon	No. of Elements
		SCFM	Nm³/hr	A	B	C	D	lbs	kg			
D3038EFC	3/8	4	7	2.76 (70)	7.83 (199)	8.03 (204)	2.76 (70)	2.2	1.0	E30408DEF / E30408DAC		1/1
D3058EFC	1/2	7	11	2.76 (70)	7.83 (199)	8.03 (204)	2.76 (70)	2.4	1.1	E30412DEF / E30412DAC		1/1
D3059EFC	1/2	12	20	3.94 (100)	9.29 (236)	9.45 (240)	3.15 (80)	5.1	2.3	E30613DEF / E30613DAC		1/1
D3078EFC	3/4	15	25	3.94 (100)	9.29 (236)	9.45 (240)	3.15 (80)	5.1	2.3	E30613DEF / E30613DAC		1/1
D3079EFC	3/4	21	35	3.94 (100)	14.02 (356)	14.17 (360)	3.15 (80)	6.8	3.1	E30625DEF / E30625DAC		1/1
D3109EFC	1	29	50	3.94 (100)	14.02 (356)	14.17 (360)	3.15 (80)	7.1	3.2	E30625DEF / E30625DAC		1/1

*Rated flow at atmospheric pressure, 14.50 psig (1 bar) (a) 68ºF (20ºC)



Grade	EF		DAC	
Particle removal	0.1 micron		0.1 micron	
Maximum oil carryover at 68°F (20°C)	1 ppm	1 mg/m³	0.003 ppm	0.003 mg/m³
Pressure loss - clean & dry	0.36 psi	25 mbar	0.44 psi	30 mbar
Pressure loss - saturated	1 psi	70 mbar	1.1 psi	75 mbar
Pressure loss - element change	12 mths	8000 hrs	at least every 6 months	
Maximum temperature	248°F	120°F	122°F **	50°C **
Maximum working pressure	300 psig	20.7 barg	300 psig	20.7 barg
Element end cap color	Black		Black	

**Maximum recommended operating temperature 77ºF (25ºC)

Technical notes

1. Duplex filters provide a DEF grade element in the lower section for oil removal and a DAC grade element in the upper section for odor removal. Direction of air flow is inside to out through EF grade and outside to in through AC grade filter element.
2. Pop up indicators (65DPUGA3-100) are fitted to models A3031 to A3051. Differential pressure gauges (65DPG250G) are fitted to models A3052 to A3303 as standard.
3. Manual drain valves (MDV25 on models A3031EF to A3051EF, D3038EFC to D3109EFC and MDVE25 on models A3052EF to A3303EF) are fitted as standard.
4. Drain flasks are available for liquid collection, for use at atmospheric pressure or vacuum only - see price guide.
5. New Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
6. 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_2).
7. 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.
8. 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.

CRN

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bcas BRITISH COMPRESSED AIR SOCIETY LIMITED

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Walker Filtration Inc, 4748 Pacific Avenue, Erie, PA 16506, USA
tel: +1 814 836 2900 fax: +1 814 836 7921 **email:** usa@walkerfiltration.com **web:** www.walkerfiltration.com

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