

Vacuum Pump Exhaust



The Alpha Series range of vacuum pump exhaust filters is designed for oil mist removal from oil lubricated vacuum pumps.

A comprehensive range of simplex and duplex filters, with connections from 3/8" to 3" and flows up to 490 Nm³/h (288 SCFM). The advanced modular design enables multiple close coupling and ease of installation whilst the cast aluminium alloy construction is coated in Walker E-Coat for total corrosion resistance.

Custom engineered media for optimised performance

High performance coalescing filters remove oil mist from those vacuum pumps without internal oil separators. The duplex 2 stage filter also removes oil mist and odour.

Energy efficient ensuring low operating costs

Unique drop-fit element end cap design prevents vibration, improves stability and drainage. Our custom material construction minimises pressure drop delivering reliable filtration with improved energy efficiency.

We also offer Odasorb filters which are installed directly onto the pump designed to remove oil odours from rotary vane vacuums with internal oil separation. See separate datasheet.



Applications include

- Chemical
- Dental
- Electronics
- Emissions Monitoring
- Food & Beverage
- Fume Extraction
- Laboratories
- Manufacturing
- Medical
- Military
- Packaging
- Paint Applications
- Pharmaceutical Manufacturing
- Pneumatic Conveying
- Printing & Paper



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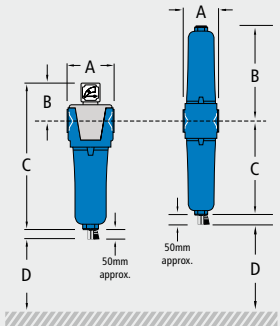




Technical Specification

filter model	pipe size	exhaust flow rate (vacuum displacement)		dimensions (mm)				weight Kg	element model	no. of elements
		Nm ³ /h	SCFM	A	B	C	D			
A038 EF	3/8	7	4.1	70	65	231	70	0.6	E0407 EF	1
A058 EF	1/2	11	6.5	70	65	272	70	0.7	E0413 EF	1
A059 EF	1/2	20	11.8	100	105	346	80	1.6	E0613 EF	1
A078 EF	3/4	25	14.7	100	105	346	80	1.6	E0613 EF	1
A079 EF	3/4	35	20.6	100	105	466	80	2.0	E0620 EF	1
A108 EF	1	40	23.5	100	105	466	80	2.0	E0620 EF	1
A109 EF	1	50	29.4	100	105	466	80	2.0	E0625 EF	1
A128 EF	1 1/4	75	44.1	122	112	530	80	2.8	E0730 EF	1
A158 EF	1 1/2	85	50.0	122	112	530	80	2.8	E0730 EF	1
A159 EF	1 1/2	100	59.0	146	122	552	100	4.2	E0830 EF	1
A208 EF	2	115	67.5	146	122	552	100	4.2	E0830 EF	1
A209 EF	2	180	106	146	122	855	100	6.3	E0860 EF	1
A254 EF	2 1/2	200	118	210	137	665	100	8.5	E1140 EF	1
A340 EF	3	235	138	210	137	665	100	8.5	E1140 EF	1
A360 EF	3	360	212	210	137	885	100	10.5	E1160 EF	1
A390 EF	3	490	288	210	137	1045	100	12.0	E1175 EF	1
D038 EFC	3/8	7	4.1	70	163	159	70	0.9	E0407 EF / E0407 DAC	1/1
D058 EFC	1/2	11	6.5	70	204	200	70	1.0	E0413 EF / E0413 DAC	1/1
D059 EFC	1/2	20	11.8	100	240	236	80	2.3	E0613 EF / E0613 DAC	1/1
D078 EFC	3/4	25	14.7	100	240	236	80	2.3	E0613 EF / E0613 DAC	1/1
D079 EFC	3/4	35	20.6	100	360	356	80	3.1	E0620 EF / E0625 DAC	1/1
D108 EFC	1	40	23.5	100	360	356	80	3.1	E0620 EF / E0625 DAC	1/1
D109 EFC	1	50	29.4	100	360	356	80	3.2	E0625 EF / E0625 DAC	1/1

Flow rate at atmospheric pressure, 1 bar (a) and 20°C



A038 EF to A390 EF | D038 EFC to D109 EFC

	EF		DAC	
Particle removal	0.1 micron		0.1 micron	
Maximum oil carryover at 20°C (68°F)	1 mg/m ³		0.003 mg/m ³	
Maximum temperature	120°C	248°F	50°C*	122°F*
Pressure loss - clean & dry	25 mbar	0.36 psi	30 mbar	0.44 psi
Pressure loss - saturated	70 mbar	1 psi	75 mbar	1.1 psi
Pressure loss - change element	150 mbar	2.2 psi	to suit application, at least every 6 months	
Maximum working pressure	16 barg	232 psig	16 barg	232 psig
Element end cap colour	black		black	

technical notes

- Duplex filters offer 2 stage filtration within one filter unit. Each filtration package provides an EF grade element in the lower section for oil removal, while the AC grade element in the upper section is for odour removal.
- Direction of air flow is inside to out through EF grade and outside to in through AC grade filter element.
- Differential pressure (DP) equipment fitted as standard (excluding AC grade filters): 65DPUGA-100 pop-up indicators to models A038 to A058, 65DPG250G gauges to models A059 to A390.
- Manual drain valves are fitted to all models. Models A059/D059 to A109/D109 can be adapted to use 1/4" drains with a reducer.
- Drain flasks are available for liquid collection, for use at atmospheric pressure or vacuum only.
- 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 (CO₂).
- Threaded and duplex filters are manufactured from cast aluminium alloy and are PED 97/23/EC compliant for group 2 gases.
- Threaded connections are Rp (BSP parallel) to ISO 7/1 or NPT to ANSI B2.1 if supplied within North America.
- For NPT connections, add the suffix N e.g. A038EFN.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).
- * Recommended operating temperature 25°C, 77°F.