

Vacuum Pump Protection



The vacuum pump protection filter range covers the most popular size of vacuum pumps and is suitable for both rough vacuum and high vacuum applications.

Optimised modular housing design ensures high performance and ease of installation. Manufactured in cast aluminium alloy with Walker E-Coat protection for a robust and corrosion resistant product.

Unique media delivers exceptional filtration

Oleophobic borosilicate media and a custom engineered anti re-entrainment layer guarantees exceptional dirt holding and drainage capabilities. Unique material construction minimises pressure drop delivering reliable filtration with improved energy efficiency.

High efficiency elements prevent liquid contamination and damage to rotating parts in the vacuum pump.

Unique self centralising, drop-fit, anti-vibration, colour coded elements

Our advanced element end cap design improves stability, prevents vibration and assists with drainage by engaging within the bowl. They are also colour coded for easy grade identification. Independent testing and validation guarantees peace of mind.

www.walkerfiltration.com



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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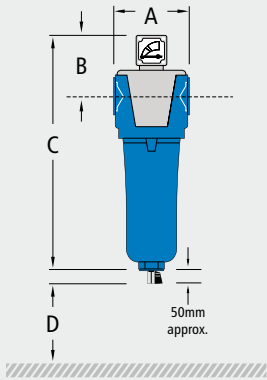
WALKER
FILTRATION



Technical Specification

filter model	pipe size	exhaust flow rate (vacuum displacement)		dimensions (mm)				weight Kg	element model
		Nm ³ /h	SCFM	A	B	C	D		
A038 (grade)	3/8	7	4.1	70	65	231	70	0.6	E0407 (grade)
A058 (grade)	1/2	11	6.5	70	65	272	70	0.7	E0413 (grade)
A059 (grade)	1/2	20	11.8	100	105	346	80	1.6	E0613 (grade)
A078 (grade)	3/4	25	14.7	100	105	346	80	1.6	E0613 (grade)
A079 (grade)	3/4	35	20.6	100	105	466	80	2.0	E0620 (grade)
A108 (grade)	1	40	23.5	100	105	466	80	2.0	E0620 (grade)
A109 (grade)	1	50	29.4	100	105	466	80	2.0	E0625 (grade)
A128 (grade)	1 1/4	75	44.1	122	112	530	80	2.8	E0730 (grade)
A158 (grade)	1 1/2	85	50.0	122	112	530	80	2.8	E0730 (grade)
A159 (grade)	1 1/2	100	59.0	146	122	552	100	4.2	E0830 (grade)
A208 (grade)	2	115	67.5	146	122	552	100	4.2	E0830 (grade)
A209 (grade)	2	180	106	146	122	855	100	6.3	E0860 (grade)
A254 (grade)	2 1/2	200	118	210	137	665	100	8.5	E1140 (grade)
A340 (grade)	3	235	138	210	137	665	100	8.5	E1140 (grade)
A360 (grade)	3	360	212	210	137	885	100	10.5	E1160 (grade)
A390 (grade)	3	490	288	210	137	1045	100	12.0	E1175 (grade)

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



A038 (grade) to A390 (grade)

	VLR		VX1	
Particle removal	5 micron		1 micron	
Maximum oil carryover at 20°C (68°F)	1 mg/m ³		1 mg/m ³	
Maximum temperature	120°C	248°F	120°C	248°F
Pressure loss - clean & dry	20 mbar	0.3 psi	40 mbar	0.6 psi
Pressure loss - change element	100 mbar	1.5 psi	100 mbar	1.5 psi
Maximum working pressure	16 barg	232 psig	16 barg	232 psig
Maximum working vacuum	full vacuum		full vacuum	
Element end cap colour	green		red	

technical notes

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPUGA-100) are fitted to models A038 to A058. Differential pressure gauges (65DPG250G) are fitted to models A059 to A390 as standard.
- Manual drain valves are fitted to all models. Models A059 to A390 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.
- Threaded 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. A018VLRN.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first).

vacuum correction factors

for maximum flow rate, multiply model flow rate by the correction factor corresponding to the working vacuum

Operating vacuum	mbar abs	atmospheric	900	800	700	600	500	400	300	200
			Torr	760	675	600	525	450	375	300
	InchHg	29.9	26.6	23.6	20.7	17.7	14.8	11.8	8.9	5.9
	psia	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9
Correction factor		1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.50	0.43