



Alloy High Pressure Filters

Models | 50HP25 to A50HP201

Flow Rates 160 Nm³/hr (94 SCFM) to 3200 Nm³/hr (1882 SCFM)

Walker Filtration's range of 50 barg (725 psig) Alloy High Pressure Filters offer excellent filtration performance for an exceptional value.

Available in five filtration grades ranging from 25 to 0.01 micron and activated carbon, our high-pressure elements are custom engineered to eliminate contaminants from your airstream for clean compressed air. Due to the wide range of specifications of high-pressure systems, the series accommodates a variety of flow rates.

Properly sized filters reduce energy usage, extend element lifetimes, and minimise pressure drops. Together, these features allow highly pressurised air to flow efficiently in a variety of applications, including manufacturing and military applications as well as food and beverage, oil and gas, and chemical production systems.



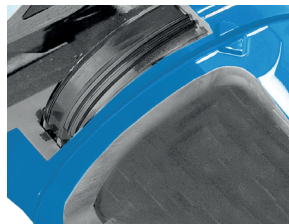
Comprehensive Range

Connections from 1/4" to 2" and capacities up to 3200 Nm³/hr (1882 SCFM) to fit most applications



O-ring Sealing

Double O-ring element seal eliminates risk of contaminant bypass for added security



Corrosion Resistant

Internal and external electrocoat painting followed by a tough, polyester power coating on the exterior

- **Corrosion Resistant** Aluminium housings provide a significant cost reduction in comparison to stainless steel housings, without compromising on performance
- **Robust Construction** To ensure safe operation at elevated pressures, each filter is hydrostatically tested prior to dispatch
- **Guaranteed Performance** Filtration performance is third-party validated to ISO 12500 standards
- **Quality Control** All products are UKCA and CE marked and include a serial number for complete traceability

For further information please visit www.walkerfiltration.com



For further information please call: **+44 (0) 191 417 7816**

Technical Specification

Filter model	Pipe size inches	Inlet flow rate		Dimensions mm (inches)				Weight		Element model
		Nm ³ /hr	SCFM	A	B	C	D	kg	lbs	
50 barg (725 psig) maximum working pressure										
50HP25 (grade)	¼	160	94	63 (2.48)	15 (0.59)	150 (5.91)	50 (1.97)	0.6	1.3	HP1535 (grade)
50HP37 (grade)	⅜	250	147	63 (2.48)	15 (0.59)	190 (7.48)	50 (1.97)	0.6	1.4	HP1550 (grade)
A50HP50 (grade)	½	450	265	110 (4.33)	47 (1.85)	280 (11.02)	80 (3.15)	3.4	7.5	HP2040 (grade)
A50HP75 (grade)	¾	550	324	110 (4.33)	47 (1.85)	280 (11.02)	80 (3.15)	3.4	7.5	HP2540 (grade)
A50HP101 (grade)	1	835	492	110 (4.33)	47 (1.85)	365 (14.37)	80 (3.15)	4.1	9.0	HP2080 (grade)
A50HP150 (grade)	1½	1250	736	146 (5.75)	59 (2.32)	498 (19.61)	100 (3.94)	8.9	19.6	HP2580 (grade)
A50HP151 (grade)	1½	1725	1015	146 (5.75)	59 (2.32)	498 (19.61)	100 (3.94)	9.1	20.1	HP2512 (grade)
A50HP200 (grade)	2	1925	1132	146 (5.75)	59 (2.32)	498 (19.61)	100 (3.94)	9.1	20.1	HP2512 (grade)
A50HP201 (grade)	2	3200	1882	146 (5.75)	59 (2.32)	700 (27.56)	100 (3.94)	11.4	25.1	HP2520 (grade)

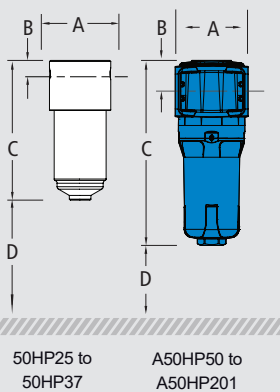
*Rated flow at 7 barg (100 psig), reference conditions at 1 bar (a) (14.5 psi (a)) 20°C (68°F)

Grade (Coalescing filter element)	X25		X5		X1		XA		AC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	10 mg/m ³	10 ppm	5 mg/m ³	5 ppm	0.1 mg/m ³	0.1 ppm	0.01 mg/m ³	0.01 ppm	0.003 mg/m ³	0.003 ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C	122°F
Maximum working pressure	50 barg (725 psig)									
Element end cap colour	Black									

Grade (Particulate filter element)	RX25		RX5		RX1		RXA		RAC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	-	-	-	-	-	-	-	-	0.003 mg/m ³	0.003 ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C	122°F
Maximum working pressure	50 barg (725 psig)									
Element end cap colour	Black									

*Recommended operating temperature 25°C (77°F)

Pressure correction factors		For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
50 barg (725 psig)	Operating pressure barg (psig)	7 (101)	10 (147)	15 (221)	20 (294)	25 (368)	30 (435)	35 (507)	40 (580)	45 (652)	50 (725)
	Correction factor	0.16	0.22	0.31	0.41	0.51	0.61	0.71	0.80	0.90	1.0



Technical Notes

- Direction of air flow through the coalescing filter element is in to out and direction of air is reversed for flow through the particulate filter elements.
- Threaded connections are Rp (BSPP) as standard. Rc (BSPT) to ISO 7-1 and NPT to ANSI/ASME B1.20.1 are also available.
- Filters are supplied with a ¼" drain plug.
- Mounting brackets are available.
- 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).
- Alloy high pressure filters and filter elements are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.



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