



# Alloy High Pressure Filters

Models | 50HP25N to A50HP201N

Flow Rates 94 SCFM (160 Nm<sup>3</sup>/hr) to 1882 SCFM (3200 Nm<sup>3</sup>/hr)

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

Available in four filtration grades ranging from 5 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 minimize pressure drops. Together, these features allow highly pressurized 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 1882 SCFM (3200 Nm<sup>3</sup>/hr) 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 electrophoretic painting followed by a tough, polyester power coating on the exterior

- **Corrosion Resistant** Aluminum 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 call: **+1 814 836 2900**

# Technical Specification

Filter model	Pipe size inches	Inlet flow rate		Dimensions inches (mm)				Weight		Element model
		SCFM	Nm <sup>3</sup> /hr	A	B	C	D	lbs	kg	
<b>725 psig (50 barg) maximum working pressure</b>										
50HP25N (grade)	¼	94	160	2.48 (63)	0.59 (15)	5.91 (150)	1.97 (50)	1.3	0.6	HP1535 (grade)
50HP37N (grade)	⅜	147	250	2.48 (63)	0.59 (15)	7.48 (190)	1.97 (50)	1.4	0.6	HP1550 (grade)
A50HP50N (grade)	½	265	450	4.33 (110)	1.85 (47)	11.02 (280)	3.15 (80)	7.5	3.4	HP2040 (grade)
A50HP75N (grade)	¾	324	550	4.33 (110)	1.85 (47)	11.02 (280)	3.15 (80)	7.5	3.4	HP2540 (grade)
A50HP101N (grade)	1	492	835	4.33 (110)	1.85 (47)	14.37 (365)	3.15 (80)	9.0	4.1	HP2080 (grade)
A50HP150N (grade)	1½	736	1250	5.75 (146)	2.32 (59)	19.61 (498)	3.94 (100)	19.6	8.9	HP2580 (grade)
A50HP151N (grade)	1½	1015	1725	5.75 (146)	2.32 (59)	19.61 (498)	3.94 (100)	20.1	9.1	HP2512 (grade)
A50HP200N (grade)	2	1132	1925	5.75 (146)	2.32 (59)	19.61 (498)	3.94 (100)	20.1	9.1	HP2512 (grade)
A50HP201N (grade)	2	1882	3200	5.75 (146)	2.32 (59)	27.56 (700)	3.94 (100)	25.1	11.4	HP2520 (grade)

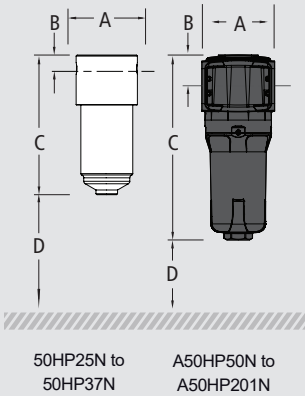
\*Rated flow at 100 psig (7 barg), reference conditions at 14.5 psi (a) (1 bar (a)) 68°F (20°C)

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

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

\*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									
725 psig (50 barg)	Operating pressure psig (barg)	101 (7)	147 (10)	221 (15)	294 (20)	368 (25)	435 (30)	507 (35)	580 (40)	652 (45)	725 (50)
	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 filter element; X5-AC is in to out. RX5 - RXA to flow in reverse.
- Threaded connections are NPT to ANSI/ASME B1.20.1.
- Filters are supplied with a drain plug (¼" NPT).
- Mounting brackets are available.
- ¼" NPT DP ports are supplied as standard on models A50HP50N-A50HP201N.

