

Walker 105 SCFM 1" Coalescing Filter • 0.3 ppm • 1 micron

SKU: A30105X

Price: 7679.80



Description

Introducing the Alpha, Walker Filtration's latest range of market leading compressed air and gas filters. With enhanced housing features and a step change in element performance, the Alpha delivers a high quality filtration solution you can trust.

Offered in a range of 18 models with connection sizes ranging from 1/8" to 3", the Alpha Series has been tested to provide a saturated differential pressure of <1.8 psi (125 mbar) across X1 and XA grades—proving to be our most advanced filter to date.

With class leading performance and exceptional results in oil aerosol and particle retention, Alpha Compressed Air Filters deliver significantly reduced pressure loss and optimum filtration efficiencies—to ensure continually low operational costs.

Technical Specifications

Filter Model	Pipe Size inches	Inlet Flow Rate*		Dimensions inches (mm)				Weight	
		SCFM	Nm ³ /hr	A	B	C	D	lb	kg
A30105	1	105	178	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7

*Rated flow at 100 psi (7 bar), reference conditions at 14.5 psi (a) (1 bar (a)) 35°F (20°C)

Grade	X5	X1	XA	AC
Particle removal	5 micron	1 micron	0.01 micron	0.01 micron
Maximum particle size class**	4	3	1	1
Maximum oil content**	4	3	1	1

Maximum oil carryover at 68°F (20°C)	5 ppm	5 mg/m ³	0.3 ppm	0.3 mg/m ³	0.01 ppm	0.01 mg/m ³	0.003 ppm	0.003 mg/m ³
Pressure loss - clean & dry	0.6 psi	40 mbar	0.8 psi	55 mbar	1.2 psi	85 mbar	1.7 psi	115 mbar
Pressure loss - saturated	1.1 psi	75 mbar	1.8 psi	125 mbar	1.8 psi	125 mbar	N/A	N/A
Pressure loss - element change	12 months	8000 hours	8000 hours	12 months	8000 hours	12 months	at least every 6 months	
Maximum temperature - automatic drain	176°F	80°C	176°F	80°C	176°F	80°C	122°F***	50°C***
Maximum working pressure - automatic drain	232 psi	16 bar	232 psi	16 bar	232 psi	16 bar	232 psi	16 bar
Maximum temperature - manual drain	248°F	120°C	248°F	120°C	248°F	120°C	122°F***	50°C***
Maximum working pressure - manual drain	300 psi	20.7 bar	300 psi	20.7 bar	300 psi	20.7 bar	300 psi	20.7 bar
Element cap color	Green		Red		Blue		Black	

** to ISO 8573-1: 2010

*** Maximum 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									
	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (14)	232 (16)	300 (20.7)
Operating pressure psi (bar)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (14)	232 (16)	300 (20.7)
100 psi - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

Technical Notes

1. Direction of air flow is inside to out through the filter element.
2. Pop up indicators (65DPUG3) are fitted to models A30025 to A30050 as standard. Differential pressure indicators (65DPIG) are fitted to models A30070 to A31500 as standard. Activated Carbon (AC) grade filters do not include DP equipment. Volt free contact options are available upon request - see price guide.
3. Coalescing Filters are fitted as standard with normally open float operated automatic drain valves, ADVS16 on models A30006 to A30050 and ADVSE16 on models A30070 to A31500, and manual drain valves on Activated Carbon Filters. Standard filters can operate at 232 psig (16 barg) at 176°F (80°C). Normally closed operated automatic drain valves (ADVS16C) are available for low range flow applications (2.5 SCFM, 4.2 Nm³/hr or lower). 300 psi (20.7 bar) range at 248°F (120°C) available when supplied with a manual drain valve (MDV25 on models A30006 to A30050 and MDVE25 on models A30070 to A31500).
4. 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).
5. Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.
6. Standard 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.
7. Filters are suitable for use with mineral and synthetic oils plus, oil-free compressed air applications.

Walker Filtration Distributor

Nuvair offers parts and equipment manufactured by Walker Filtration. Some products may not be available for online purchase and others may have extended lead times. To confirm compatibility with your existing equipment or to ensure the product meets your needs, please [contact the Nuvair Sales Team](#) for ordering assistance by email or phone.