

The ultimate filtration & drying technology

Compressed Air Coalescing Filters

Models | A3011 to A3303 Flow Rates 6 SCFM (10 Nm³/hr) to 1500 SCFM (2550 Nm³/hr)

Introducing the New 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 New 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 New 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, the New Alpha delivers significantly reduced pressure loss and optimum filtration efficiencies - to ensure continually low operational costs.





NEW Modular Filter Low cost connecting kits and new filter head design enables easy close coupling assembly NEW Filtration Technology New Alpha deep pleated media technology delivers a step change in performance



NEW Externally Accessible Drain Eliminates the need to access the e inside of the filter housing when servicing the drain

- Flow-Optimized Design Advanced filter head design for optimized flow performance
- Flexible Installation Modular design and accessible fixings enable simple close coupling assembly
- Market Leading Performance Custom engineered filtration media delivers optimum performance in line with air quality standard ISO 8573-1: 2010
- Simplified Serviceability New externally accessible drain, profiled bowl design and unique push fit elements ensure quick and reliable maintenance
- Corrosion Protection Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating
- Color Coded Element End Caps Easy and accurate grade identification
- Product Safety in Mind Guaranteed safe housing closure with rotational safety stop

For further information please visit www.walkerfiltration.com

Market leading differential pressure of <1.8 psi across X1 and XA grades



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Technical Specification

Filter model	Pipe size	Inlet flow rate*		Dimensions inches (mm)					ight	Elson el model	
	inches	SCFM	Nm³/hr	А	В	С	D	lbs	Kg	Element model	
A3011 (grade)	1/8	6	10	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	E30306 (grade)	
A3021 (grade)	1/4	15	25	1.97 (50)	0.67 (17)	6.18 (157)	2.36 (60)	0.6	0.3	E30306 (grade)	
A3022 (grade)	1/4	25	42	2.76 (70)	0.94 (24)	9.09 (231)	2.76 (70)	1.3	0.6	E30408 (grade)	
A3031 (grade)	3/8	32	54	2.76 (70)	0.94 (24)	9.09 (231)	2.76 (70)	1.3	0.6	E30408 (grade)	
A3051 (grade)	1/2	50	85	2.76 (70)	0.94 (24)	9.09 (231)	2.76 (70)	1.3	0.6	E30412 (grade)	
A3052 (grade)	1/2	70	119	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612 (grade)	
A3071 (grade)	3/4	85	144	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612 (grade)	
A3101 (grade)	1	105	178	5.00 (127)	1.26 (32)	11.22 (285)	3.15 (80)	3.7	1.7	E30612 (grade)	
A3072 (grade)	3/4	125	212	5.00 (127)	1.26 (32)	14.60 (371)	3.15 (80)	4.4	2.0	E30621 (grade)	
A3102 (grade)	1	175	297	5.00 (127)	1.26 (32)	14.60 (371)	3.15 (80)	4.4	2.0	E30621 (grade)	
A3122 (grade)	11/4	280	476	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831 (grade)	
A3151 (grade)	11/2	400	680	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831 (grade)	
A3201 (grade)	2	450	765	6.69 (170)	2.08 (53)	20.00 (508)	3.94 (100)	10.8	4.9	E30831 (grade)	
A3202 (grade)	2	700	1189	6.69 (170)	2.08 (53)	27.87 (708)	3.94 (100)	12.1	5.5	E30850 (grade)	
A3251 (grade)	21/2	850	1444	8.66 (220)	2.75 (70)	28.97 (736)	3.94 (100)	23.1	10.5	E31140 (grade)	
A3301 (grade)	3	900	1529	8.66 (220)	2.75 (70)	28.97 (736)	3.94 (100)	23.1	10.5	E31140 (grade)	
A3302 (grade)	3	1250	2125	8.66 (220)	2.75 (70)	33.74 (857)	3.94 (100)	25.4	11.5	E31160 (grade)	
A3303 (grade)	3	1500	2550	8.66 (220)	2.75 (70)	39.56 (1005)	3.94 (100)	27.6	12.5	E31175 (grade)	
*Rated flow at 100 psig (7 barg), reference conditions at 14.5 psi (a) (1 bar (a)) 68°F										: 14.5 psi (a) (1 bar (a)) 68°F (:	

Grade		Х5		X1		ХА			AC			
Particle removal		5 micro	n	1 micron		0.	0.01 micron			0.01 micron		
Maximum particle size class**		4		3	3		1			1		
Maximum oil content**		4		3	3		1			1		
Maximum oil carryover at 68°F (20°C)		om 5	5 mg/m³	0.3 ppm	0.3 mg/m	³ 0.01pp	m 0.01 r	ng/m³ (0.003 ppm	0.003 mg/ m ³		
Pressure loss - clean & dry	0.6	psi 4	40 mbar	0.8 psi	55 mbar	1.2 ps	i 85 n	nbar	1.7 psi	115 mbar		
Pressure loss - saturated	1.1	1.1 psi 75 m		1.8 psi	125 mbar	1.8 ps	psi 125 mbar		N/A	N/A		
Pressure loss - element change	12 m	12 mths 8000 hrs		12 mths 8000 hrs		12 mth	2 mths 8000 hrs		at least every 6 mths			
Maximum temperature - automatic drai	n 176	176°F 80°C		176°F	80°C	176°F	80°C		122°F***	50°C***		
Maximum working pressure - automatic drain		232 psig 16 barg		232 psig	16 barg	232 ps	ig 16 barg		232 psig	16 barg		
Maximum temperature - manual drain	248	248°F 120		248°F 120°C		248°F	248°F 120°C		122°F*** 50°C*			
Maximum working pressure - manual drain		osig 2	0.7 barg	300 psig	20.7 barg	300 ps	ig 20.7	barg	300 psig	20.7 barg		
Element end cap color		Green		Red			Blue		Black			
		to	ISO 8573-	1:2010 '	*Maximu	m recomm	ended ope	erating 1	temperatur	e 77°F (25°C)		
Pressure correction factors	For maxim	um flow ra	te, multiply I	nodel flow rate	e by the corre	ction factor c	orrespondin	g to the m	ninimum opei	ating pressure		
Operating pressure psig (barg)	58 (4)	72 (5)	87 (6)	100 (7)	115 (8)	145 (10)	174 (12)	203 (1	4) 232 (1	6) 290 (20)		
100 psig - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.60		

Technical notes

- Direction of air flow is inside to out through the filter element. 1.
- Pop up indicators (65DPUG3) are fitted to models A3022 to A3051 as standard. Differential pressure indicators (65DPIG) are fitted to models A3052 to A3303 2. 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 A3011 to A3051 and ADVSE16 on models A3052 to A3303, 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 psig (20.7 barg) range at 248°F (120°C) is available when supplied with a manual drain valve (MDV25 on models A3011 to A3051 and MDVE25 on models A3052 to A3303).
- Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon 4. monoxide (CO) and carbon dioxide (CO₂).
- 5. New Alpha Filters are manufactured from cast aluminum alloy and are PED 2014/68/EU compliant for group 2 gases.

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- 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. 6.
- Filters are suitable for use with mineral and synthetic oils plus, oil-free compressed air applications. 7.



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E OUEEN'S AWARD FOR ENTERPRISE INNOVATION 2016

1.7" 2.8" (42mm) (71mm) 65DPUG3 65DPIG C C 1.1" (28mm) approx. D 1.6" (42mm) D approx. A3011 - A3051 A3052 - A3303

