

Compressed Air Dust Filters



Alpha Series dust removal filters are perfect for installation downstream of regenerative air and gas dryers to reduce the need for system maintenance.

1/4" to 3" threaded housings are manufactured in robust cast aluminium with a corrosion protective Walker E-Coat finish. Our advanced modular design ensures optimum flows, ease of installation and multiple close coupling.

Unique custom developed filter media

Our unique oleophobic borosilicate media ensures exceptional dirt holding, drainage and minimises pressure drop. This unique construction delivers reliable filtration with improved energy efficiency.

Colour coded, drop-fit elements in 5 grades

The unique drop-fit elements engage with the bowl, preventing vibration and improving stability in reverse flow applications. Colour coded elements facilitate easy grade identification.

Exceptional dust holding capacity



Applications include

- Chemical
- Dental
- Electronics
- Emissions Monitoring
- Food & Beverage
- Instrumentation
- Laboratories
- Laser Cutting
- Manufacturing
- Military
- Oil & Gas
- Paint Applications
- Pharmaceutical Manufacturing
- Railway



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2012





Technical Specification

filter model	pipe size	flow rate*		dimensions (mm)				weight Kg	element model
		Nm ³ /h	SCFM	A	B	C	D		
A018 (grade)	¼	13.6	8	50	18	152	60	0.3	E0304 (grade)
A019 (grade)	¼	25.5	15	50	18	152	60	0.3	E0305 (grade)
A028 (grade)	¼	42.5	25	70	65	231	70	0.6	E0406 (grade)
A038 (grade)	⅜	59.5	35	70	65	231	70	0.6	E0407 (grade)
A058 (grade)	½	85.0	50	70	65	272	70	0.7	E0413 (grade)
A059 (grade)	½	119	70	100	105	346	80	1.6	E0613 (grade)
A078 (grade)	¾	144	85	100	105	346	80	1.6	E0613 (grade)
A079 (grade)	¾	212	125	100	105	466	80	2.0	E0620 (grade)
A108 (grade)	1	229	135	100	105	466	80	2.0	E0620 (grade)
A109 (grade)	1	297	175	100	105	466	80	2.0	E0625 (grade)
A128 (grade)	1¼	476	280	122	112	530	80	2.8	E0730 (grade)
A158 (grade)	1½	545	320	122	112	530	80	2.8	E0730 (grade)
A159 (grade)	1½	680	400	146	122	552	100	4.2	E0830 (grade)
A208 (grade)	2	765	450	146	122	552	100	4.2	E0830 (grade)
A209 (grade)	2	1190	700	146	122	855	100	6.3	E0860 (grade)
A254 (grade)	2½	1445	850	210	137	665	100	8.5	E1140 (grade)
A340 (grade)	3	1530	900	210	137	665	100	8.5	E1140 (grade)
A360 (grade)	3	2125	1250	210	137	885	100	10.5	E1160 (grade)
A390 (grade)	3	2550	1500	210	137	1045	100	12.0	E1175 (grade)

* Rated flow at 7 barg, reference conditions 1 bar (a) 20°C

	RX25		RX5		RX1		RXA		RAC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum particle size class**	-		3		2		1		1	
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	25°C	77°F
Pressure loss - clean & dry	30 mbar	0.4 psi	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss - change element	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	at least every 6 months	
Maximum working pressure	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig
Element end cap colour	black		green		red		blue		black	

** to ISO 8573-1:2001 (E)

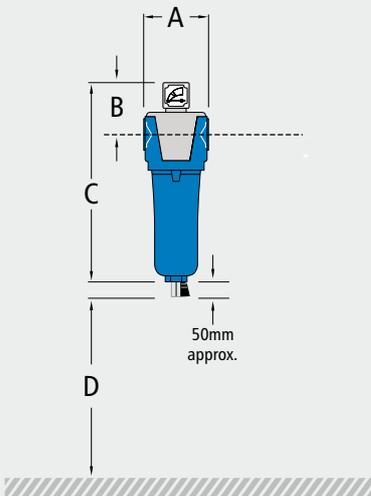
pressure correction factors

for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure

Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)
7 barg - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

technical notes

- Direction of air flow is outside to in through the filter element.
- Pop up indicators (65DPUG) are fitted to models A028 to A058 as standard. Differential pressure indicators (65DPiG) are fitted to models A059 to A390 as standard. AC grade filters do not include DP equipment.
- Threaded filters are fitted with float operated automatic drain valves. DVAS16C on models A018 to A058 and DVAS16 on models A059 to A390. Models A059 to A390 can be adapted to use ¼" drains with a reducer.
- 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).
- Threaded and duplex 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. A018WSN.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).
- Filters are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.



A018 (grade) to A390 (grade)