

Compressed Air Particulate Filters

2020 Models | A30006 to A31500

2017 Models | A3011 to A3303

Flow Rates 6 SCFM (10 Nm³/hr) to 1500 SCFM (2550 Nm³/hr)

Advancements in filtration technology, improved low differential pressure and a step change in performance ensures the Alpha Particulate (Dust) Filters are the ideal solution for installation downstream of regenerative compressed air and gas dryers.

With exceptional results in particle retention of up to 99.999%, and significantly reduced pressure loss, Alpha Particulate Filters ensure total protection of manufacturing equipment from dust carryover.

Available in a range of connection sizes from 1/8" to 3", Alpha Particulate Filters have a maximum temperature of 120°C (248°F) and increased operating pressure of 20.7 barg (300 psig).

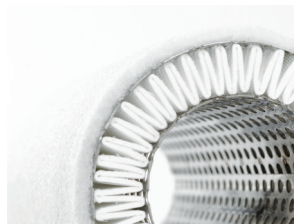


**Up to 99.999%
particle retention
when tested in
accordance with
ISO 12500-3**



Modular Filter

Low cost connecting kits and new filter head design enables easy close coupling assembly



Filtration Technology

Alpha deep pleated media technology delivers a step change in performance



Product Safety in Mind

Lock indication arrows ensure effective sealing

- **Flow-Optimised Design** Advanced filter head design for optimised 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** Profiled bowl design and push fit elements ensure quick and reliable maintenance
- **Corrosion Protection** Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating
- **Colour Coded Element End Caps** Easy and accurate grade identification



Technical Specification

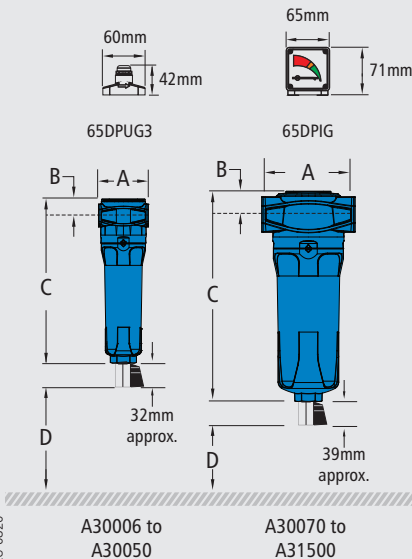
2017 Filter model	2020 Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight Kg	Element model
			Nm ³ /hr	SCFM	A	B	C	D		
A3011	A30006 (grade)	1/8	10	6	50	17	157	60	0.3	E30306 (grade)
A3021	A30015 (grade)	1/4	25	15	50	17	157	60	0.3	E30306 (grade)
A3022	A30025 (grade)	1/4	42	25	70	23	231	70	0.6	E30408 (grade)
A3031	A30032 (grade)	3/8	54	32	70	23	231	70	0.6	E30408 (grade)
A3051	A30050 (grade)	1/2	85	50	70	23	231	70	0.6	E30412 (grade)
A3052	A30070 (grade)	1/2	119	70	127	32	285	80	1.7	E30612 (grade)
A3071	A30085 (grade)	3/4	144	85	127	32	285	80	1.7	E30612 (grade)
A3101	A30105 (grade)	1	178	105	127	32	285	80	1.7	E30612 (grade)
A3072	A30125 (grade)	3/4	212	125	127	32	370	80	2.0	E30621 (grade)
A3102	A30175 (grade)	1	297	175	127	32	370	80	2.0	E30621 (grade)
A3122	A30280 (grade)	1 1/4	476	280	140	41	476	85	3.0	E30731 (grade)
N/A	A30320 (grade)	1 1/2	544	320	140	41	476	85	3.0	E30731 (grade)
A3151	A30400 (grade)	1 1/2	680	400	170	53	508	100	4.9	E30831 (grade)
A3201	A30450 (grade)	2	765	450	170	53	508	100	4.9	E30831 (grade)
A3202	A30700 (grade)	2	1189	700	170	53	708	100	5.5	E30850 (grade)
A3251	A30850 (grade)	2 1/2	1444	850	220	70	736	100	10.5	E31140 (grade)
A3301	A30900 (grade)	3	1529	900	220	70	736	100	10.5	E31140 (grade)
A3302	A31250 (grade)	3	2125	1250	220	70	857	100	11.5	E31160 (grade)
A3303	A31500 (grade)	3	2550	1500	220	70	1005	100	12.5	E31175 (grade)

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

Grade	RX25		RX5		RX1		RXA		RAC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum particle size class**	-		4		3		1		1	
Maximum oil carryover at 20°C (68°F)	-		-		-		-		0.003 mg/m ³	
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 - element change	12 mths	8000 hrs	12 mths	8000 hrs	12 mths	8000 hrs	12 mths	8000 hrs	at least every 6 mths	
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	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg	300 psig	20.7 barg	300 psig
Element end cap colour	Black		Green		Red		Blue		Black	

** to ISO 8573-1: 2010 *** Maximum 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									
	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	1.07	1.19	1.31	1.41	1.51	1.73



Technical Notes

- Direction of air flow is outside to in through the filter element.
- 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.
- Manual drain valves (MDV25 on models A30006 to A30050 and MDVE25 on models A30070 to A31500), are fitted as standard.
- 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).
- Alpha Filters are manufactured from cast aluminium alloy and are PED 2014/68/EU compliant for group 2 gases.
- Threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available.
- For NPT threads, add the suffix N, e.g., A30070NRXA, and for Rc threads add the suffix C, e.g. A30070CRXA.
- Filters are suitable for use with mineral and synthetic oils plus oil-free compressed air applications.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months.

