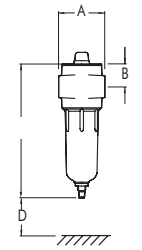
COMPRESSED AIR DRYER DUST FILTERS

Walker Filtration offer dust removal filters for installation downstream of regenerative compressed air and gas dryers. These filters are standard practice for ensuring total protection of manufacturing plant and equipment from dust carried over from the desiccant dryer beds. All regenerative dryers shed dust depending upon the grade of desiccant used and it's length of service, dust filtration is therefore essential to reduce maintenance requirements. The range includes both Threaded and Flanged filters with flow rates from 35 Nm^3/hr (20 scfm) up to 25,500 Nm^3/h (15,000 scfm). Manufactured in accordance with both European and North American standards, threaded filters feature the Walker E-Coat™ (model A20 to A308) and are then polyester powder coated. Flanged models (A391 to A12824) are polyester powder coated inside and out. A separate leaflet covers high temperature dust filters for use with heat regenerative dryers.

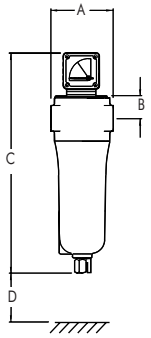
WALKER FILTRATION

TECHNICAL DATA

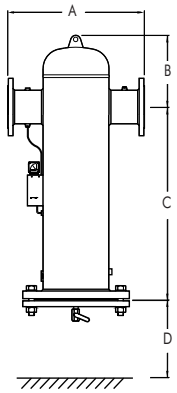
COMPRESSED AIR DRYER DUST FILTERS



Models A20 to A30



Models A55 to A308



Models A391 to A12824

FILTER MODEL	PIPE SIZE	FLOW RATE Nm³/h	FLOW RATE SCFM	ELEMENT MODEL	NUMBER OF ELEMENTS	DIMENSIONS mm A	B	C	D	WEIGHT Kg	lb	DIMENSIONS inch A	B	C	D	FILTER MODEL
A20 (grade)	1/4	35	20	E361 (grade)	1	72	35	210	75	0.65	1.43	3	1 1/2	8	3	A20 (grade)
A30 (grade)	3/8	56	33	E371 (grade)	1	72	35	210	75	0.65	1.43	3	1 1/2	8	3	A30 (grade)
A55 (grade)	1/2	112	66	E511 (grade)	1	88	32	315	100	1.3	2.87	3 1/2	1 1/4	13	4	A55 (grade)
A76 (grade)	3/4	216	127	E711 (grade)	1	125	39	365	100	2.7	5.95	5	1 1/2	15	4	A76 (grade)
A105 (grade)	1	250	147	E811 (grade)	1	125	39	365	100	2.7	5.95	5	1 1/2	15	4	A105 (grade)
A106 (grade)	1	300	176	E731 (grade)	1	125	39	515	150	3.5	7.72	5	1 1/2	21	6	A106 (grade)
A126 (grade)	1 1/4	540	318	E821 (grade)	1	125	39	515	150	3.5	7.72	5	1 1/2	21	6	A126 (grade)
A153 (grade)	1 1/2	725	427	E831 (grade)	1	135	50	545	150	4.4	9.70	5 1/2	2	22	6	A153 (grade)
A203 (grade)	2	800	470	E831 (grade)	1	135	50	545	150	4.4	9.70	5 1/2	2	22	6	A203 (grade)
A205 (grade)	2	1150	675	E851 (grade)	1	135	50	745	150	5.0	11.0	5 1/2	2	30	6	A205 (grade)
A250 (grade)	2 1/2	1620	954	E1251 (grade)	1	200	68	805	200	11.5	25.4	8	2 3/4	32	8	A250 (grade)
A305 (grade)	3	1620	954	E1251 (grade)	1	200	68	805	200	11.5	25.4	8	2 3/4	32	8	A305 (grade)
A306 (grade)	3	2210	1301	E1261 (grade)	1	200	68	925	200	15.5	34.2	8	2 3/4	37	8	A306 (grade)
A308 (grade)	3	2600	1531	E1281 (grade)	1	230	65	1050	300	19	41.9	9	2 1/2	42	12	A308 (grade)
A391 (grade)	DN80	2160	1270	E139 (grade)	1	450	300	940	700	58	128	17 3/4	12	37	28	A391 (grade)
A483 (grade)	DN100	3100	1824	E88 (grade)	3	520	300	960	700	74	163	20 1/2	12	38	28	A483 (grade)
A484 (grade)	DN100	4250	2500	E88 (grade)	4	520	300	960	700	74	163	20 1/2	12	38	28	A484 (grade)
A686 (grade)	DN150	6500	3824	E88 (grade)	6	680	400	1000	700	165	364	26 3/4	16	39 1/2	28	A686 (grade)
A688 (grade)	DN150	8720	5130	E88 (grade)	8	780	400	1030	700	208	459	30 3/4	16	40 1/2	28	A688 (grade)
A8810 (grade)	DN200	11000	6470	E88 (grade)	10	780	440	1060	700	260	573	30 3/4	18	41 3/4	28	A8810 (grade)
A10816 (grade)	DN250	17000	10000	E88 (grade)	16	900	530	1100	700	450	992	35 1/2	21	43 1/2	28	A10816 (grade)
A12824 (grade)	DN300	25500	15000	E88 (grade)	24	900	600	1100	700	1200	2646	35 1/2	24	43 1/2	28	A12824 (grade)

SPECIFICATION	GRADE RX25		GRADE RX5		GRADE RX1		GRADE RXA		GRADE RAC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Max. oil carryover at 20°C (68°F)	-		-		-		-		0.003 mg/m³	0.003 ppm
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 six 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 code	black		green		red		blue		black	

NOTES

1. Threaded dust filters are manufactured from aluminium and are PED 97/23/EC compliant. Flanged dust filters are fabricated from carbon steel.
2. Threaded filters are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied to North America. Flanged filters are to BS 4504 PN16, DIN2633 or ANSI 150 #RF if supplied to North America.
3. Filter element end caps are colour coded for models A20 to A308, black for A391 to A12824. Direction of air flow, out to in through filter element.
4. Grade RAC activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.
5. Grade MFC activated carbon towers for larger applications are available to order. Please refer to activated carbon tower leaflet.
6. Grade RAC elements must be changed periodically to suit application but at least every 6 months.
7. Pop up indicators are supplied with models A20 and A30. Differential pressure indicators are fitted to models A55 to A308, part number 55DPIW. A391 to A12824 part number 65DPIW.
8. Manual drain valves, model MDV25 are fitted to models A20 (grade) to A308 (grade). Mounting brackets are available for models A20 (grade) to A300 (grade), see accessory product leaflet.
9. All aluminium dust filters feature the Walker E-Coat™ and are then coated with blue polyester powder paint finish to eliminate corrosion.
10. Flanged dust filters are designed and manufactured in accordance with BS EN286 or ASME VIII and U Stamped for the USA, CRN approved for use within Canada.
11. 1/2" manual drain valves are fitted to A391 (grade) to A8810 (grade), 3/4" fitted to A10816 (grade) and A12824 (grade) as standard. An additional 1/2" side entry drain port is included on models A391 (grade) to A8810 (grade), 3/4" to A10816 (grade) and A12824 (grade).
12. All flanged dust filter bodies are coated inside and out with blue polyester powder paint finish to eliminate corrosion. Dust filters are silicone free.

CORRECTION FACTOR

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.

Operating pressure	barg	0.3	0.6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi	4	9	14.5	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor		0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51

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