COMPRESSED AIR AND GAS FILTERS

WALKER FILTRATION

Lealet F-10-01-UK

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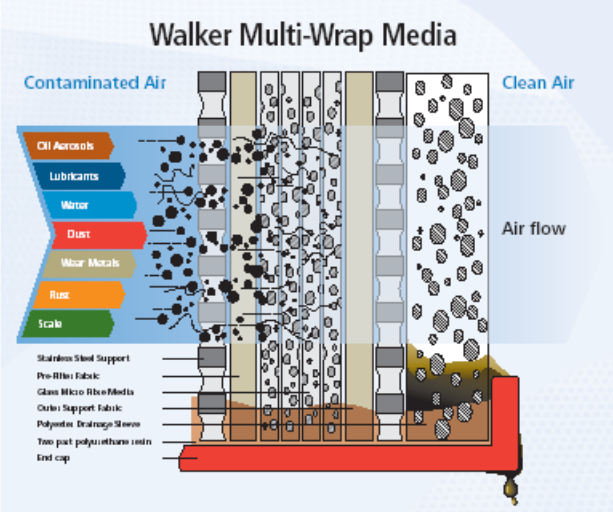
A – Range Filters

Walker Filtration design and manufacture a comprensive range of threaded coalescing filters for the compressed air and gas industry. Suitable for almost every industrial environment the filter range satisfies the increasing demands of today's markets.
The range of filters offers 14 models with connections from ¼" to 3", with flow capacities up to 1531 scfm (2600 Nm^3/h). Incorporating the Walker designed 'push fit' filter element allows the user to reduce the maintenance time whilst locating the filter in the most confined spaces.

All threaded compressed air filters and water separators comply with the Pressure Equipment Directive PED 97/23/EC (flanged filters are exempt).
All threaded, duplex and flanged filters plus all filter elements are suitable for use with mineral and synthetic oils plus oil free compressed air applications. All threaded, duplex and flanged filter housing are suitable for temperatures up to 120°C (248°F).



Threaded Filters

- Flow rates up to 1531 scfm (2600 Nm^3/h) for pressures up to 16 barg (232 psig)
- Threaded connections are BSP parallel to ISO 7/1
- Threaded filters are manufactured from aluminium and further the Walker *e-coat*™ and are further coated with a blue polyester powder paint to eliminate corrosion.
- Differential pressure indicators are fitted as standard to models A20 and A30.
- Differential pressure gauges are fitted as stabdard to models A55 to A308.
- Appropriate drain valves are fitted as Standard.

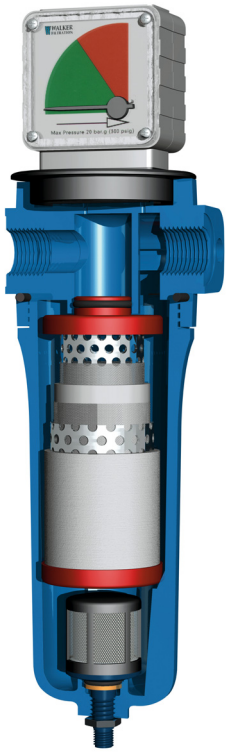
Duplex Filters

- Duplex filters combine a 2 stage filtration in a single unit for pressure up to 16 barg (232psig)
- Flow rates up to 45 scfm (75 Nm^3/h)
- Threaded connections are BSP parallel to ISO 7/1.
- Duplex filters are manufactured from aluminium and feature the Walker *e-coat*™ and are further coated with blue polyester powder paint to eliminate corrosion.
- Appropriate drain valves are fitted as standard.
- All elements area 'push fit' design

Filter Elements

- Push fit design for fast, trouble free servicing. Eliminates the need for tie rods.
- Colour coded endcaps indicate filtration grade.
- Polyester needle felt drainage layer allows large drops to coalesce and gravitate to the bottom of the filter bowl. Suitable for aggressive environments at temperatures up to 120°C.
- Perforated stainless steel inner core protects high efficiency media from rust.
- Built in depth pre-filtration increases element life.
- High efficiency microglass media coalesces finest oil mist.

Flanged filter



Threaded Filter

Filter grade X1 micron removes, liquids, particles and coalesced oil aerosols down to 0.1 mg/m^3

SPECIFICATION	GRADE X1	
Maximum particle size class to ISO 8573-1-2001 (E)	2	
Maximum oil content class to ISO 8573-1-2001 (E)	2	
Particle removal	1 micron	
Maximum all carryover at 20°C (68°F)	0,1 mg/m^3	0.08 ppm
Maximum temperature	120°C	248°F
Pressure loss-clean & dry	75 mbar	1.1 psi
Pressure loss-oil saturated	150 mbar	2.2 psi
Pressure loss-change element	400 mbar	6 psi
Maximum working pressure	16 garg	232 psi
Element end cap colour code	RED	

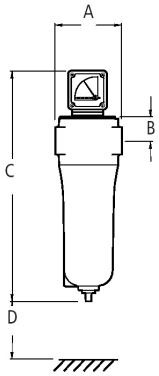
FILTER MODEL	PIPE SIZE	FLOW RATE Nm/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	CARTRIDGES	WEIGHT kg	lb
A20 X1	¼	35	20	72	35	210	75	E 361-X1	0,65	1.43
A30 X1	⅜	56	33	72	35	210	75	E 371-X1	0,65	1.43
A55 X1	½	112	66	88	32	315	100	E 511-X1	1,3	2.87
A76 X1	¾	216	127	125	39	365	100	E 711-X1	2,7	5.95
A105 X1	1	250	147	125	39	365	100	E 811-X1	2,7	5.95
A106 X1	1	300	176	125	39	515	150	E 731-X1	3,5	7.72
A126 X1	1 ¼	540	318	125	39	515	150	E 821-X1	3,5	7.72
A153 X1	1 ½	725	427	135	50	545	150	E 831-X1	4,4	9.70
A203 X1	2	800	470	135	50	545	150	E 831-X1	4,4	9.70
A205 X1	2	1150	675	135	50	745	150	E 851-X1	5,0	11.0
A250 X1	2 ½	1620	954	200	68	805	200	E 1251-X1	11,5	25.4
A305 X1	3	1620	954	200	68	805	200	E 1251-X1	11,5	25.4
A306 X1	3	2210	1301	200	68	925	200	E 1261-X1	15,5	34.2
A308 X1	3	2600	1531	230	65	1050	300	E 1281-X1	19	41.9

Cartridges

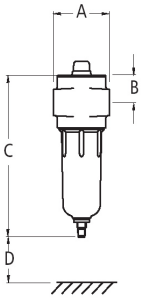
Differential pressure indicator

Pop up indicator

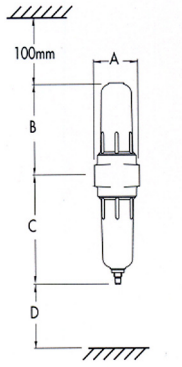
FILTER MODEL	FLANGE SIZE	FLOW RATE Nm/H	FLOW RATE SCFM	DIMENSIONS mm C	A	B	CARTRIDGES	No Elements	WEIGHT kg
MA 16	DN 40	720	12.000	620	235	75	D 220-X1	1	35
MA 17	DN 50	1.188	19.800	940	235	85	D 330-X1	1	45
MA 18	DN 80	2.232	37.200	1.050	340	105	D 620-X1	1	60
MA 20	DN 100	3.600	60.00	1.130	400	180	D 330-X1	3	90
MA 21	DN 100	4.680	78.000	1.340	460	215	D 330-X1	4	110
MA 22	DN 150	7.020	117.000	1.470	500	280	D 330-X1	6	130
MA 23	DN 150	9.360	153.000	1.470	660	285	D 330-X1	8	180
MA 24	DN 200	11.700	195.000	1.590	660	360	D 330-X1	10	200
MA 25	DN 200	14.040	234.000	1.630	760	380	D 330-X1	12	-
MA 26	DN 200	18.720	312.000	1.630	760	380	D 330-X1	16	-



Modells A55 X1 to A308 X1



Modells A20 X1 to A30 X1



Modells D20 XAC to D45 XAC

HIGH EFFICIENCY FILTRATION XA

Grade XA filtration removes liquids, sub micron particles and oil aerosols down to 0.01 mg/m^3. It is most often used at point of use applications to provide the purest compressed air.

SPECIFICATION	GRADE XA	
Maximum particle size class to ISO 8573-1-2001 (E)	1	
Maximum oil content class to ISO 8573-1-2001 (E)	1	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	0.01 mg/m^3	0.01 ppm
Maximum temperature	120°C	248°F
Pressure loss-clean & dry	100 mbar	1.5 psi
Pressure loss-oil saturated	300 mbar	4.4 psi
Pressure loss-change element	400 mbar	6 psi
Maximum working pressure	16 barg	232 psig
Element end cap colour code	BLUE	

FILTER MODEL	PIPE SIZE	FLOW Nm/h	RATE SCFM	DIMENSIONS mm A	B	C	D	CARTRIDGE	WEIGHT kg	lb
A20 XA	¼	35	20	72	35	210	75	E 361-XA	0.65	1.43
A30 XA	⅜	56	33	72	35	210	75	E 371-XA	0.65	1.43
A55 XA	½	112	66	88	32	315	100	E 511-XA	1.3	2.87
A76 XA	¾	216	127	125	39	365	100	E 711-XA	2.7	5.95
A105 XA	1	250	147	125	39	365	100	E 811-XA	2.7	5.95
A106 XA	1	300	176	125	39	515	150	E 731-XA	3.5	7.72
A126 XA	1 ¼	540	318	125	39	515	150	E 821-XA	3.5	7.72
A153 XA	1 ½	725	427	135	50	545	150	E 831-XA	4.4	9.70
A203 XA	2	800	470	135	50	545	150	E 831-XA	4.4	9.70
A205 XA	2	1150	675	135	50	745	150	E 851-XA	5.0	11.0
A250 XA	2 ½	1620	954	200	68	805	200	E 1251-XA	11.5	25.4
A305 XA	3	1620	954	200	68	805	200	E 1251-XA	11.5	25.4
A306 XA	3	2210	1301	200	68	925	200	E 1261-XA	15.5	34.2
A308 XA	3	2600	1531	230	65	1050	300	E 1281-XA	19	41.9

FILTER MODEL	FLANGE SIZE	FLOW RATE Nm/h	SCFM	DIMENSIONS mm C	A	B	CARTRIDGE	No ELEM.	WEIGHT Kg
MAA16	DN 40	720	12.000	620	235	75	D 220-XA	1	35
MAA17	DN 50	1.188	19.800	940	235	85	D 330-XA	1	45
MAA18	DN 80	2.232	37.200	1.050	340	105	D 620-XA	1	60
MAA20	DN 100	3.600	60.00	1.130	400	180	D 330-XA	3	90
MAA21	DN 100	4.680	78.000	1.340	460	215	D 330XA	4	110
MAA22	DN 150	7.020	117.000	1.470	500	280	D 330-XA	6	130
MAA23	DN 150	9.360	153.000	1.470	660	285	D 330-XA	8	180
MAA24	DN 200	11.700	195.000	1.590	660	360	D 330-XA	10	200
MAA25	DN 200	14.040	234.000	1.630	760	380	D 330-XA	12	-
MAA26	DN 200	18.720	312.000	1.630	760	380	D 330-XA	16	-

ACTIVATE CARBON AC

Grade AC removes odours and tastes from the compressed air supply and provides further oil removal down to 0.003 mg/m^3.

SPECIFICATION	GRADE AC	
Maximum particle size class to ISO 8573-1-2001 (E)	1	
Maximum oil content class to ISO 8573-1-2001 (E)	1	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	0.003mg/m^3	0.003ppm
Maximum temperature	25°C	77°F
Pressure loss-clean & dry	75 mbar	1.1 psi
Pressure loss-oil saturated	NA	
Pressure loss-change element	NA	
Maximum working pressure	16 barg	232 psig
Element end cap colour code	BLACK	

FILTER MODEL	PIPE SIZE	FLOW Nm/h	RATE SCFM	DIMENSIONS mm A	B	C	D	CARTRIDGE	WEIGT kg	lb
D20 XAC	¼	25	15	72	150	173	75	E361XA/E381AC	0.85	1.9
D30 XAC	⅜	50	30	72	150	173	75	E371XA/E381AC	0.85	1.9
D45 XAC	½	75	45	90	200	225	100	E51-XA/E02AC	1.25	2.75
A76 AC	¾	216	127	125	39	365	100	E 711-AC	2.7	5.95
A105AC	1	250	147	125	39	365	100	E 811-AC	2.7	5.95
A106 AC	1	300	176	125	39	515	150	E 731-AC	3.5	7.72
A126 AC	1 ¼	540	318	125	39	515	150	E 821-AC	3.5	7.72
A153 AC	1 ½	725	427	135	50	545	150	E 831-AC	4.4	9.70
A203 AC	2	800	470	135	50	545	150	E 831-AC	4.4	9.70
A205 AC	2	1150	675	135	50	745	150	E 851-AC	5.0	11.0
A250 AC	2 ½	1620	954	200	68	805	200	E 1251-AC	11.5	25.4
A305 AC	3	1620	954	200	68	805	200	E 1251-AC	11.5	25.4
A306 AC	3	2210	1301	200	68	925	200	E 1261-AC	15.5	34.2
A308 AC	3	2600	1531	230	65	1050	300	E 1281-AC	19	41.9

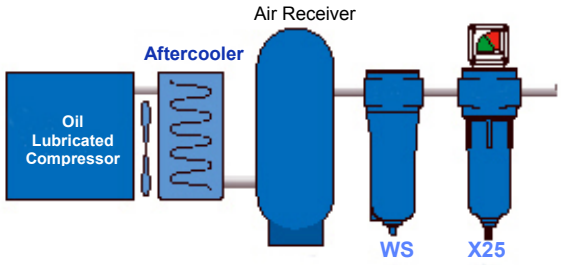
FILTER MODEL	FLANGE SIZE	FLOW RATE Nm/h	SCFM	DIMENSIONS mm C	A	B	CARTRIDGE	No ELEM.	WEIGHT Kg
MAC16	DN 40	720	12.000	620	235	75	D220-ACS	1	35
MAC17	DN 50	1.188	19.800	940	235	85	D330-ACS	1	45
MAC18	DN 80	2.232	37.200	1.050	340	105	D620-ACS	1	60
MAC20	DN 100	3.600	60.00	1.130	400	180	D330-ACS	3	90
MAC21	DN 100	4.680	78.000	1.340	460	215	D330-ACS	4	110
MAC22	DN 150	7.020	117.000	1.470	500	280	D330-ACS	6	130
MAC23	DN 150	9.360	153.000	1.470	660	285	D330-ACS	8	180
MAC24	DN 200	11.700	195.000	1.590	660	360	D330-ACS	10	200
MAC25	DN 200	14.040	234.000	1.630	760	380	D330-ACS	12	-
MAC26	DN 200	18.720	312.000	1.630	760	380	D330-ACS	16	-

Correction factor

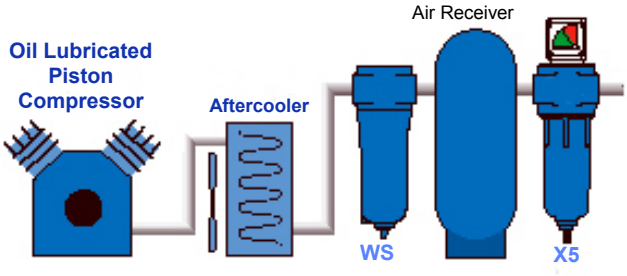
For maximum flow rate, multiply model flow rate by the correction factor corresponding to the working pressure.

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	0.75	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51

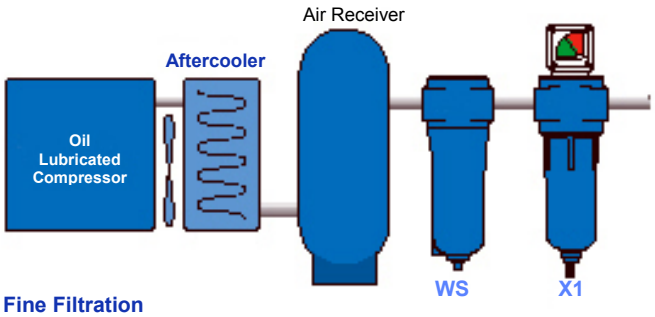
Compressed Air Classes



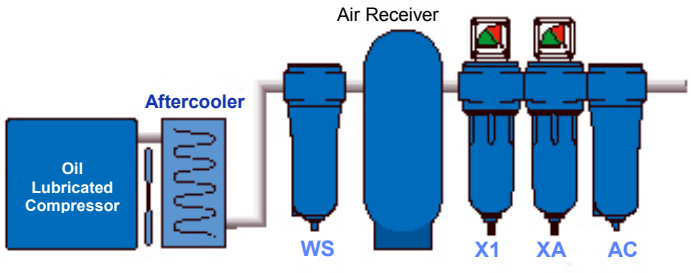
Coarse Filtration
Air Quality to ISO 8573-1:2001 (E) Class: 4, -,-
Bulk liquid and coarse filtration for non-critical air applications.



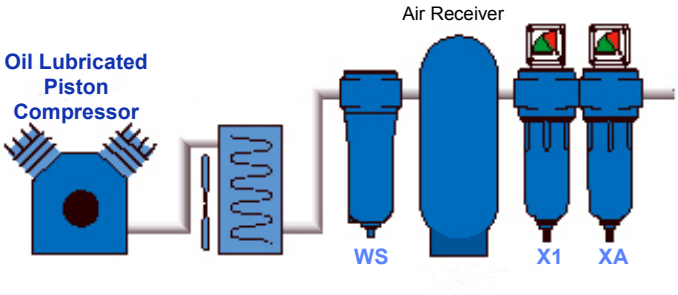
Medium Filtration
Air Quality to ISO 8573-1:2001 (E), Class: 3, -, 4
Bulk liquid and medium filtration especially designed for the removal of high concentration of oil which contain burnt by-products such as lacquers.



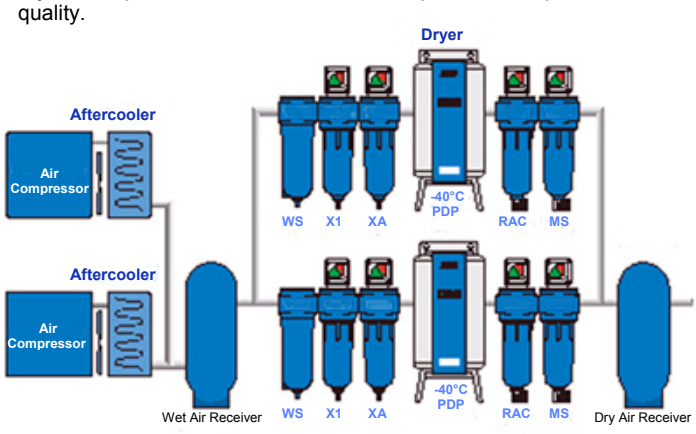
Fine Filtration
Air Quality to ISO 8573-1:2001 (E), Class: 2, - ,3
Fine filtration package for general protection of compressed air installations. Recommended for the protection of compressed air dryers, valves, cylinders and air tools.



Oil & Odour Free Compressed Air
Air Quality to ISO 8573-1:2001 (E), Class: 1, - ,1
High efficiency sub-micron filtration to ensure oil, particulate and odour free compressed air for use in critical applications such as pharmaceutical, instrumentation, food and beverage manufacturing.



High Efficiency Filtration
Air Quality to ISO 8573-1:2001 (E), Class: 1, - ,1
High efficiency sub-micron filtration to provide oil/particulate free compressed air. This filter package offers protection to adsorption dryers and provides the user with the best possible compressed air quality.



Medical Sterile Compressed Air
Air Quality to ISO 8573-1:2001 (E), Classe 1, 2, 1
Medical sterile compressed air package as specified within HTM 2022

Compressed Air Duplex Filters Grade AC