WALKER FILTRATION

The ultimate filtration & drying technology

ALPHA SERIES FILTERS

DUPLEX FILTERS

PRO DRY DESICCANT DRYERS

CORRECTION FACTORS

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Pressure		for maximum flow rate, multiply model flow rate by the correction factor corresponding to the pressure												
Operating pressure barg (psig)		0.3 (4)	0.6 (9)	1 (14.5)	2 (29)	3 (44)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)
7 barg	Correction factor	0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

Operating pressure barg (psig)		4 (58)	6 (87)	8 (116)	10 (145)	12 (174)	14 (203)	16 (232)	18 (261)	20 (290)
20 barg	Correction factor	0.45	0.55	0.63	0.71	0.77	0.84	0.90	0.95	1.00

Operating pressure barg (psig)		4 (58)	6 (87)	8 (116)	10 (145)	15 (220)	20 (290)	30 (435)	40 (580)	50 (725)
50 barg	Correction factor	0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1.00

Operating pressure barg (psig)		20 (290)	30 (435)	40 (580)	50 (725)	60 (870)	70 (1015)	80 (1160)	90 (1300)	100 (1450)
100 barg	Correction factor	0.45	0.57	0.68	0.80	0.84	0.88	0.92	0.96	1.00

Operating pressure barg (psig)		50 (725)	100 (1450)	150 (2175)	200 (2900)	250 (3625)	300 (4350)	350 (5000)
350 barg	Correction factor	0.73	0.78	0.82	0.87	0.91	0.96	1.00

		for maximum flow rate, multiply model flow rate by the correction factor corresponding to the working vacuum								
Operating vacuum	mbar abs	atmospheric	900	800	700	600	500	400	300	200
	Torr	760	675	600	525	450	375	300	225	150
	psia	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9
Correction factor		1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.50	0.43

Dryers									
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	0.62	0.75	0.87	1.00	1.12	1.37	1.62	1.87	2.12

Operating temperature °C (°F)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)
Correction factor	0.62	0.75	0.87	1.00	1.12	1.37	1.62

Dewpoint °C (°F)	-40 (-40)	-70 (-94)
Correction factor	1.00	0.70

TECHNICAL NOTES

- Threaded and duplex filter housing are suitable for temperatures up to 120°C (248°F).
- Threaded and duplex filters are manufactured from cast aluminium alloy and are PED 97/23/EC compliant for group 2 gases and carry the CE mark where applicable.
- Flanged filters are fabricated from carbon steel and carry the CE mark where applicable.
- Threaded connections are RP (BSP parallel to ISO 7/1 or NPT to ANSI B2.1 if supplied within North America, with the following exceptions 50HP25 and 50HP37 are Rc (BSP Taper); 100HP24, 100Hp49, 350HP24 and 350HP26 are NPT. Flanged connections are complete with mating flanges to BS4504, PN16.
- For NPT connections, add the suffix NPT e.g. A018 XA - NPT.
- Flanged vessels are designed and manufactured in accordance with BS EN286 Part 1 and meet the Simple Pressure Vessels Directive.
- Cross port dimensions on flanged vessels are subject to a manufacturing tolerance of +/-3mm and a squareness tolerance of 1 degree.
- 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 and water separators are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.
- Dimensions 'D' in general arrangement drawings refers to bowl clearance required for element change.
- All ppm references are ppm by mass.

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Convert (multiplying factors)	Pressure									
from ↓ to →	psi (lbf/in2)	inH20	mmHg (Torr)	atmos	mbar	bar	Kgf/cm2 (Kp/cm2)	Pascal (N/m2)	kPa (kN/m2)	MPa MN/m2 (N/mm2)
psi (lbf/in2)	1	27.6799	51.7149	0.068046	68.9476	0.06895	0.070307	6894.76	6.89476	0.0068948
inH20	0.036127	1	1.86832	0.0024583	2.49089	0.00249	0.00254	249.089	0.24901	0.000249
mmHg (Torr)	0.019337	0.53524	1	0.0013158	1.33322	0.00133	0.0013591	133.322	0.1332	0.00133
atmos	14.6959	406.781	760	1	1013.25	1.01325	1.03323	101.325	101.325	0.101325
mbar	0.014504	0.401463	0.750062	0.0009869	1	0.001	0.0010197	100	0.1	0.0001
bar	14.504	401.463	750.062	0.9869	1000	1	1.0197	1000.000	100	0.1
Kgf (Kp/cm2)	14.2233	393.7	735.556	0.967841	980.665	0.980665	1	98066.5	98.0665	0.09806
Pascal (N/m2)	0.000145	0.004015	0.007501	0.0000099	0.01	0.00001	0.0000102	1	0.001	0.00001
kPa 1	0.14504	4.015	7.501	0.0099	10	0.01	0.0102	1000	1	0.001
MPa	145.4	4015	7501	9.9	10000	10	1.02	1,000,000	1000	1

Convert (multiplying factors)	Flow Rate						
from ↓ to →	litre/sec	dm3/sec	litre/mm	m3/sec	m3/min	Nm3/hr	SCFM
litre/sec	1	1	60	0.001	0.06	3.6	2.118882
dm3/sec	1	1	60	0.001	0.06	3.6	2.11882
litre/mm	0.016667	0.0166667	1	0.00001667	0.001	0.06	0.035315
m3/sec	1000	1000	60,000	1	60	3600	2118.88
m3/min	16.66667	16.6667	1000	0.0166667	1	60	35.315
Nm3/hr	0.277778	0.277778	16.6667	0.000278	0.0166667	1	0.588578
SCFM	0.471947	0.471947	28.31682	0.000472	0.0283168	1.699	1

Recommended air flow rate					
Nominal bore		at branch line velocity of 15 m/s		at branch line velocity of 15 m/s	
mm	inch	dm3/s (l/s)	SCFM	dm3/s (l/s)	SCFM
6	1/8	1	2	3	6
8	1/4	3	6	8	17
10	3/8	5	11	12	25
15	1/2	10	21	25	53
20	3/4	17	36	40	85
32	1 1/4	50	106	125	265
40	1 1/2	65	138	160	339
50	2	100	212	250	530
80	3	240	509	600	1272
100	4	410	869	-	-
125	5	610	1293	-	-
150	6	900	1908	-	-
200	8	1600	3392	-	-
250	10	250	5300	-	-
300	12	3600	7632	-	-

BS 4575 Maximum Recommended Air Flow Rates at 7 barg (100 psig)

This standard gives guidance and recommendations to designers, manufacturers and users for what are considered to be minimum essential features of the design and construction of fluid power systems and components. BS ISO 4414: 1998 (not equivalent) closely follows the recommendations of ISO 4414 and the table above is based on that standard.

Note: Walker Filtration provide these conversion charts as a guide only.

FILTER ELEMENT FEATURES

Double O-ring secures against contaminant by-pass

Perforated stainless steel cylinders provide strength, rigidity and corrosion resistance

Spiral wound, inner spring on larger size elements for extra strength

Deep bed filter media provides low operating differential pressure resulting in improved energy efficiency

Hydrophobic and oleophobic borosilicate customised glass fibre media for improved coalescing

Unique anti re-entrainment layer minimises pressure losses and improves liquid removal

Bespoke chemically treated outer drainage layer prevents oil carry over

New improved ultrasonic seam weld process provides greater strength

Air distribution duct gives uniform air flow for improved filtration and low operating differential pressure

Drop-fit, self locating element with no tie rods for ease of installation, servicing and maintenance

Corrosion resistant colour coded endcaps for easy and accurate filtration grade indication

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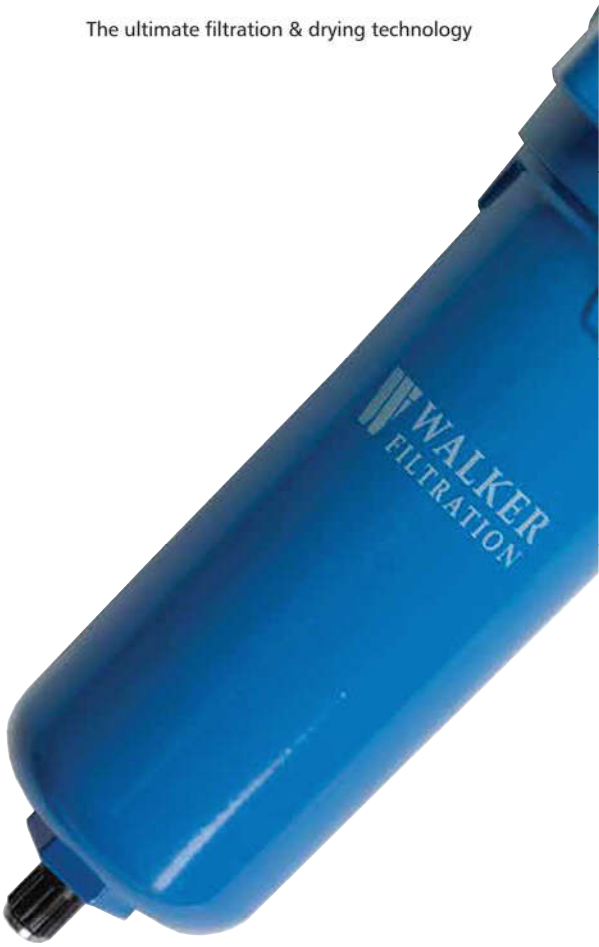

Lower annular location ring prevents element vibration, improves stability in reverse flow dust removal applications and improves drainage

Certificate of Conformity supplied with every filter element

Secure thread to bowl connection with full 3 turns to ensure safety

Unique seal configuration ensures security of the pressure envelope

Large reservoir to provide quiet zone for bulk oil collection

Automatic drain with manual override fitted as standard

Hexagon spanner locator for simple bowl removal

Minimal clearance required for filter change and no specialist tools

Suitable for both **mineral and synthetic oils**

FILTER HOUSING FEATURES

Extensive range - 1/4" to 3" (BSP & NPT) and flow capacities up to 2550 Nm^3/hr

Compact design allowing installation in confined spaces

Modular design enables easy and simple close coupling assembly

Aluminium pressure die cast housing gives enhanced strength and robustness

Advanced E-coat protection with a polyester coasting gives exceptional corrosion resistance

COMPRESSED AIR PURITY CLASSES ISO 8573-1

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PURITY CLASSIFICATION

CLASS: 1, 2, 1
- 1 — solid particles
- 2 — water
- 1 — oil

The ISO 8573 group of International Standards is used for the classification of compressed air. It also provides the test methods and analytical techniques for each type of contaminant.

The table below summaries the maximum contaminant levels specified in ISO 8573 Part 1 (2010) for the various compressed air quality classes.

Each compressed air classification can be achieved by installing a specific filter grade or a combination of filter grades, depending upon required performance.

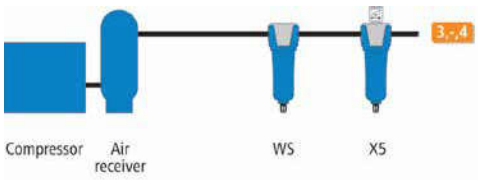
	Particles				Water		Oil
Purity Class	Maximum number of particles per cubic metre as a function of particle size, d [a]				Vapour	Liquid [a]	Total Oil [a]
	0.1µm < d ≤ 0.5µm	0.5µm < d ≤ 1.0µm	1.0µm < d ≤ 5.0µm Cp	Mass Concentration °C	Pressure Drewpoint Cw g/m3	Concentration Liquid Water mg/m3	Liquid, aerosol, vapour
0	As specified by the equipment user or supplier and more stringent than Class 1						
1	≤ 20 000	≤ 400	≤ 10	-	≤ -70	-	≤ 0.01
2	≤ 400 000	≤ 6 000	≤ 100	-	≤ -40	-	≤ 0.1
3	-	≤ 90 000	≤ 1 000	-	≤ -20	-	≤ 1
4	-	-	≤ 10 000	-	≤ +3	-	≤ 5
5	-	-	≤ 100 000	-	≤ +7	-	-
6	-	-	-	0 < Cp ≤ 5	≤ +10	-	-
7	-	-	-	5 < Cp ≤ 10	-	Cw ≤ 0.5	-
8	-	-	-	-	-	0.5 < Cw ≤ 5	-
9	-	-	-	-	-	5 < Cw ≤ 10	-
X	-	-	-	Cp ≤ 10	-	Cw ≤ 10	> 5

[a] At reference conditions, 100kPA (1bar(a)), 20°C, 0 Relative water vapour pressure (0% relative humidity)

Filter Grade	GRADE X25	GRADE X5	GRADE X1	GRADE XA	GRADE AC
Maximum particles size class to ISo 8573-1:2010	-	Class 3	Class 2	Class 1	Class 1
Maximum oil content class to ISo 8573-1:2010	-	Class 4	Class 2	Class 1	Class 1

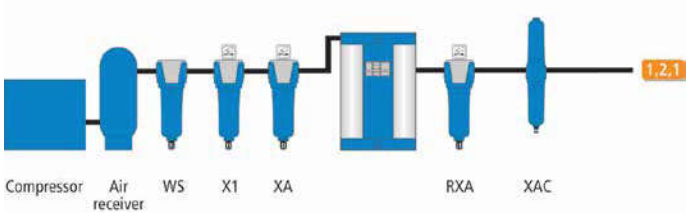
Medium Filtration

Bulk liquid and medium filtration especially designed for the removal of high concentrations of oil which contain burnt by-products such as lacquers



High Efficiency Filtration

High efficiency sub-micron filtration to provide oil/particulate free compressed air. This filter package offers protection to absorption dryer and provides the user with the best possible compressed air quality.



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Walker Filtration filters and dryers are designed to meet the needs of a wide range of industries. The range aims to address the compressed air purity requirements of almost any application. Product performance is tested and validated in accordance with the latest international standards. of which the main ones are outlined below.

ISO 8573 - COMPRESSED AIR PURITY STANDARD

ISO 8573 group of International Standards comprises of nine parts, which provide classifications for the main contaminants in compressed air, and the test methods and qualitative analysis used in the determination process.

- ISO 8573-1 Contaminants and Purity classes
- ISO 8573-2 Test Methods for Oil Aerosol Content
- ISO 8573-3 Test Methods for the Measurement of Humidity
- ISO 8573-4 Test Methods for the Solid Particle Content
- ISO 8573-5 Test Methods for Oil Vapour and Organic Solvent Content
- ISO 8573-6 Test Methods for Gaseous Contaminant Content
- ISO 8573-7 Test Methods for Viable Microbiological Contaminant Content
- ISO 8573-8 Test Methods for Solid Particle Content by Mass Concentration
- ISO 8573-9 Test Methods for Liquid Water Content

ISO 12500 - INTRODUCING A NEW SERIES OF INTERNATIONAL STANDARDS FOR COMPRESSED AIR FILTER TESTING

ISO 12500 is a new group of standards for compressed air filter testing and has been introduced to complement the existing ISO 8573 series.

- ISO 12500-1 Oil Aerosols
- ISO 12500-2 Oil Vapours
- ISO 12500-3 Particles
- ISO 12500-4 Water

OTHER APPLICABLE STANDARDS

- ISO 7183 Compressed-air dryers - Specifications and testing

This standard identifies the required test methods for measuring dryer performance parameters for different types of compressed air dryers which includes: pressure dewpoint, flow rate, pressure drop, compressed air loss, power consumption and noise emission methods.

COARSE FILTRATION X25

For heavy duty applications, alpha series grade X25 micron threaded filter range removes high concentrations of dirt and liquid from compressed air.

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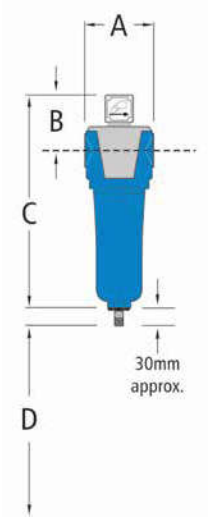
CODE	PORT BSP	FLOW RATE Nm³/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M08	ELEMENT MODEL	ELEMENT € M14
A028 X 5	1/4"	42.5	25	70	65	231	70	0.6	117.77	E0406 X25	40.11
A038 X25	3/8"	59.5	35	70	65	231	70	0.6	133.98	E0407 X25	46.08
A058 X25	1/2"	85.0	50	70	65	272	70	0.7	165.55	E0413 X25	56.32
A059 X25	1/2"	119	70	100	105	346	80	1.6	209.08	E0613 X25	74.00
A078 X25	3/4"	144	85	100	105	346	80	1.6	239.80	E0613 X25	74.00
A079 X25	3/4"	212	125	100	105	466	80	2.0	283.32	E0620 X25	81.07
A108 X25	1"	229	135	100	105	466	80	2.0	313.19	E0620 X25	81.07
A109 X25	1"	297	175	100	105	466	80	2.0	348.18	E0625 X25	98.14
A128 X25	1 1/4"	476	280	122	112	530	80	2.8	404.50	E0730 X25	116.06
A158 X25	1 1/2"	545	320	122	112	530	80	2.8	478.74	E0730 X25	116.06
A159 X25	1 1/2"	680	400	146	122	552	100	4.2	522.26	E0830 X25	133.98
A208 X25	2"	765	450	146	122	552	100	4.2	654.54	E0830 X25	133.98
A209 X25	2"	1190	700	146	122	855	100	6.3	805.58	E0860 X25	172.38
A254 X25	2 1/2"	1445	850	210	137	665	100	8.5	954.07	E1140 X25	211.64
A340 X25	3"	1530	900	210	137	665	100	8.5	1048.80	E1140 X25	211.64
A360 X25	3"	2125	1250	210	137	885	100	10.5	1218.62	E1160 X25	278.20
A390 X25	3"	2550	1500	210	137	1045	100	12.0	1436.23	E1175 X25	313.19



A018 X25 to A390 X25 | A391 X25 to A12824 X25

TECHNICAL NOTES

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPUG) are fitted to models A028X25 to A058 X25 as standard. Differential pressure indicators (65DPIG) are fitted to models A059 X25 to A390X25 as standard.
- Threaded filters are fitted with float operated automatic drain valves. DVAS16C on models A0818 X25 to A058 X25 and DVAS16 on models A059 X25 to A39 X25.

SPECIFICATION

Grade	X25	
Particle removal	25 micron	
Maximum oil carryover at 20°C (68°F)	10 mg/m³	8.2 ppm
Maximum temperature	up to 120°C	up to 248°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	black	

MEDIUM FILTRATION X5

The range of alpha series grade X5 micron coalescing filters are used for removing high concentrations of oil from compressed air.

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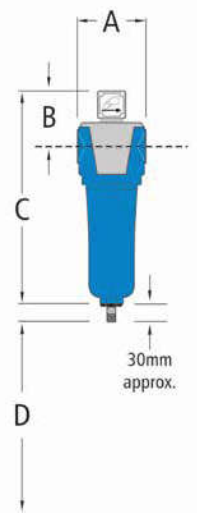
CODE	PORT BSP	FLOW RATE Nm³/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M08	ELEMENT MODEL	ELEMENT € M14
A028 X5	1/4"	42.5	25	70	65	231	70	0.6	**117.77**	E0406 X5	**40.11**
A038 X5	3/8"	59.5	35	70	65	231	70	0.6	**133.98**	E0407 X5	**46.08**
A058 X5	1/2"	85.0	50	70	65	272	70	0.7	**165.55**	E0413 X5	**56.32**
A059 X5	1/2"	119	70	100	105	346	80	1.6	**209.08**	E0613 X5	**63.15**
A078 X5	3/4"	144	85	100	105	346	80	1.6	**239.80**	E0613 X5	**63.15**
A079 X5	3/4"	212	125	100	105	466	80	2.0	**283.32**	E0620 X5	**81.07**
A108 X5	1"	229	135	100	105	466	80	2.0	**313.19**	E0620 X5	**81.07**
A109 X5	1"	297	175	100	105	466	80	2.0	**348.18**	E0625 X5	**98.14**
A128 X5	1 1/4"	476	280	122	112	530	80	2.8	**404.50**	E0730 X5	**98.14**
A158 X5	1 1/2"	545	320	122	112	530	80	2.8	**478.74**	E0730 X5	**116.06**
A159 X5	1 1/2"	680	400	146	122	552	100	4.2	**522.26**	E0830 X5	**133.98**
A208 X5	2"	765	450	146	122	552	100	4.2	**654.54**	E0830 X5	**133.98**
A209 X5	2"	1190	700	146	122	855	100	6.3	**805.58**	E0860 X5	**172.38**
A254 X5	2 1/2"	1445	850	210	137	665	100	8.5	**954.07**	E1140 X5	**211.64**
A340 X5	3"	1530	900	210	137	665	100	8.5	**1048.80**	E1140 X5	**211.64**
A360 X5	3"	2125	1250	210	137	885	100	10.5	**1218.62**	E1160 X5	**278.20**
A390 X5	3"	2550	1500	210	137	1045	100	12.0	**1436.23**	E1175 X5	**313.19**

TECHNICAL NOTES

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPUG) are fitted to models A028X5 to A058 X5 as standard. Differential pressure indicators (65DPIG) are fitted to models A059 X5 to A390 X5 as standard.
- Threaded filters are fitted with float operated automatic drain valves. DVAS16C on models A0818 X5 to A058 X5 and DVAS16 on models A059 X5 to A390 X5.



A018 X5 to A390 X5 | A391 X5 to A12824 X5

SPECIFICATION

Grade	X5	
Particle removal	5 micron	
Maximum oil carryover at 20°C (68°F)	5 mg/m³	4.1 ppm
Maximum temperature	up to 120°C	up to 248°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	green	

FINE FILTRATION X1

Alpha series grade X1 micron removes liquids, particles and coalesced oil aerosols down to 0.1 mg/m³.

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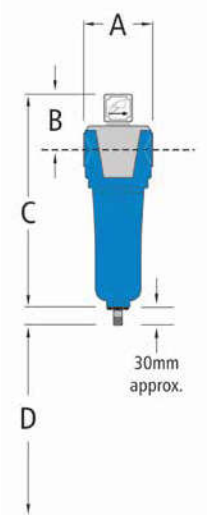
CODE	PORT BSP	FLOW RATE Nm³/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M08	ELEMENT MODEL	ELEMENT € M14
A028 X1	1/4"	42.5	25	70	65	231	70	0.6	117.77	E0406 X1	40.11
A038 X1	3/8"	59.5	35	70	65	231	70	0.6	133.98	E0407 X1	46.08
A058 X1	1/2"	85.0	50	70	65	272	70	0.7	165.55	E0413 X1	56.32
A059 X1	1/2"	119	70	100	105	346	80	1.6	209.08	E0613 X1	63.15
A078 X1	3/4"	144	85	100	105	346	80	1.6	239.80	E0613 X1	63.15
A079 X1	3/4"	212	125	100	105	466	80	2.0	283.32	E0620 X1	81.07
A108 X1	1"	229	135	100	105	466	80	2.0	313.19	E0620 X1	81.07
A109 X1	1"	297	175	100	105	466	80	2.0	348.18	E0625 X1	98.14
A128 X1	1 1/4"	476	280	122	112	530	80	2.8	404.50	E0730 X1	116.06
A158 X1	1 1/2"	545	320	122	112	530	80	2.8	478.74	E0730 X1	116.06
A159 X1	1 1/2"	680	400	146	122	552	100	4.2	522.26	E0830 X1	133.98
A208 X1	2"	765	450	146	122	552	100	4.2	654.54	E0830 X1	133.98
A209 X1	2"	1190	700	146	122	855	100	6.3	805.58	E0860 X1	172.38
A254 X1	2 1/2"	1445	850	210	137	665	100	8.5	954.07	E1140 X1	211.64
A340 X1	3"	1530	900	210	137	665	100	8.5	1048.80	E1140 X1	211.64
A360 X1	3"	2125	1250	210	137	885	100	10.5	1218.62	E1160 X1	278.20
A390 X1	3"	2550	1500	210	137	1045	100	12.0	1436.23	E1175 X1	313.19



A018 X1 to A390 X1 | A391 X1 to A12824 X1

TECHNICAL NOTES

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPUG) are fitted to models A028X1 to A058 X1 as standard. Differential pressure indicators (65DPIG) are fitted to models A059 X1 to A390X1 as standard.
- Threaded filters are fitted with float operated automatic drain valves. DVAS16C on models A0818 X1 to A058 X1 and DVAS16 on models A059 X1 to A39 X1.

SPECIFICATION

Grade	X1	
Particle removal	1 micron	
Maximum oil carryover at 20°C (68°F)	0.1 mg/m³	0.08 ppm
Maximum temperature	up to 120°C	up to 248°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	red	

HIGH EFFICIENCY FILTRATION XA

Alpha series 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 highest level of filtration.

WALKER FILTRATION
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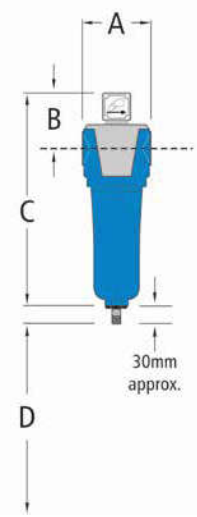
CODE	PORT BSP	FLOW RATE Nm3/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M08	ELEMENT MODEL	ELEMENT € M14
A028 XA	1/4"	42.5	25	70	65	231	70	0.6	**117.77**	E0406 XA	**40.11**
A038 XA	3/8"	59.5	35	70	65	231	70	0.6	**133.98**	E0407 XA	**46.08**
A058 XA	1/2"	85.0	50	70	65	272	70	0.7	**165.55**	E0413 XA	**56.32**
A059 XA	1/2"	119	70	100	105	346	80	1.6	**209.08**	E0613 XA	**63.15**
A078 XA	3/4"	144	85	100	105	346	80	1.6	**239.80**	E0613 XA	**63.15**
A079 XA	3/4"	212	125	100	105	466	80	2.0	**283.32**	E0620 XA	**81.07**
A108 XA	1"	229	135	100	105	466	80	2.0	**313.19**	E0620 XA	**81.07**
A109 XA	1"	297	175	100	105	466	80	2.0	**348.18**	E0625 XA	**98.14**
A128 XA	1 1/4"	476	280	122	112	530	80	2.8	**404.50**	E0730 XA	**116.06**
A158 XA	1 1/2"	545	320	122	112	530	80	2.8	**478.74**	E0730 XA	**116.06**
A159 XA	1 1/2"	680	400	146	122	552	100	4.2	**522.26**	E0830 XA	**133.98**
A208 XA	2"	765	450	146	122	552	100	4.2	**654.54**	E0830 XA	**133.98**
A209 XA	2"	1190	700	146	122	855	100	6.3	**805.58**	E0860 XA	**172.38**
A254 XA	2 1/2"	1445	850	210	137	665	100	8.5	**954.07**	E1140 XA	**211.64**
A340 XA	3"	1530	900	210	137	665	100	8.5	**1048.80**	E1140 XA	**211.64**
A360 XA	3"	2125	1250	210	137	885	100	10.5	**1218.62**	E1160 XA	**278.20**
A390 XA	3"	2550	1500	210	137	1045	100	12.0	**1436.23**	E1175 XA	**313.19**

TECHNICAL NOTES

- Direction of air flow is inside to out through the filter element.
- Pop up indicators (65DPUG) are fitted to models A028X5 to A058 XA as standard.
  Differential pressure indicators (65DPIG) are fitted to models A059 XA to A390 XA as standard.
- Threaded filters are fitted with float operated automatic drain valves. DVAS16C on models A0818 XA to A058 XA and DVAS16 on models A059 XA to A390 XA.



A018 XA to A390 XA | A391 XA to A12824 XA

SPECIFICATION

Grade	XA	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	5 mg/m3	4.1 ppm
Maximum temperature	up to 120°C	up to 248°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	blue	

ACTIVATED CARBON FILTRATION AC

Alpha series grade AC removes odours and tastes from the compressed air supply and provides futher oil removal including vapour down to 0.003 mg/m³.

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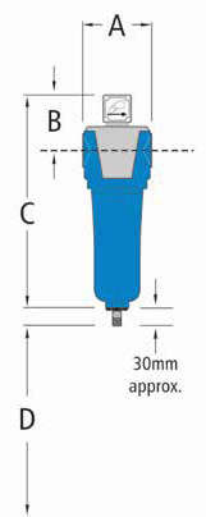
CODE	PORT BSP	FLOW RATE Nm³/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M08	ELEMENT MODEL	ELEMENT € M14
A028 AC	1/4"	42.5	25	70	65	231	70	0.6	117.77	E0406 AC	40.11
A038 AC	3/8"	59.5	35	70	65	231	70	0.6	133.98	E0407 AC	46.08
A058 AC	1/2"	85.0	50	70	65	272	70	0.7	165.55	E0413 AC	56.32
A059 AC	1/2"	119	70	100	105	346	80	1.6	209.08	E0613 AC	63.15
A078 AC	3/4"	144	85	100	105	346	80	1.6	239.80	E0613 AC	63.15
A079 AC	3/4"	212	125	100	105	466	80	2.0	283.32	E0620 AC	81.07
A108 AC	1"	229	135	100	105	466	80	2.0	313.19	E0620 AC	81.07
A109 AC	1"	297	175	100	105	466	80	2.0	348.18	E0625 AC	98.14
A128 AC	1 1/4"	476	280	122	112	530	80	2.8	404.50	E0730 AC	116.06
A158 AC	1 1/2"	545	320	122	112	530	80	2.8	478.74	E0730 AC	116.06
A159 AC	1 1/2"	680	400	146	122	552	100	4.2	522.26	E0830 AC	133.98
A208 AC	2"	765	450	146	122	552	100	4.2	654.54	E0830 AC	133.98
A209 AC	2"	1190	700	146	122	855	100	6.3	805.58	E0860 AC	172.38
A254 AC	2 1/2"	1445	850	210	137	665	100	8.5	954.07	E1140 AC	211.64
A340 AC	3"	1530	900	210	137	665	100	8.5	1048.80	E1140 AC	211.64
A360 AC	3"	2125	1250	210	137	885	100	10.5	1218.62	E1160 AC	278.20
A390 AC	3"	2550	1500	210	137	1045	100	12.0	1436.23	E1175 AC	313.19



A018 AC to A390 AC | A391 AC to A12824 AC

TECHNICAL NOTES

- Direction of air flow is inside to out through the filter element.
- Activated carbon filters do not include differential pressure equipment.
- Semi automatic drain valves SDV25 are fitted to models A018 AC to A390 AC. On models A391 AC to A8810 AC, 1/2" manual drain valves are fitted, 3/4" on models A10816 AC and A12824 AC.
- Models A059 AC to A390 AC can be adapted to use 1/4" drains with a reducer.
- Activated carbon filters must not operate in saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO_2)

SPECIFICATION

Grade	AC	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	0.003 mg/m³	0.003 ppm
Maximum temperature *	50°C	122°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	black	

* Recommended operated temperature 25°C, 77°F

MEDICAL STERILE FILTERS MS

Our range of alpha series medical sterile filters has been specifically designed for medical compressed air plants, as used in hospitals throughout the world. This range meets all requirements of the UK Health Technical Memorandum 02-01 guidance on medical gas pipeline systems.

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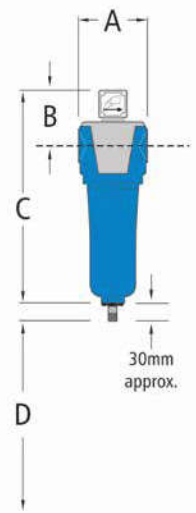
CODE	PORT BSP	FLOW RATE Nm³/h	FLOW RATE SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	COMPLETE FILTER € M20	ELEMENT MODEL	ELEMENT € M21
A028 MS	1/4"	42.5	25	70	65	231	70	0.8	**248.93**	E0407 SR	**146.52**
A038 MS	3/8"	59.5	35	70	65	231	70	0.8	**285.17**	E0407 SR	**146.52**
A058 MS	1/2"	85.0	50	70	65	272	70	0.9	**351.34**	E0413 SR	**162.28**
A059 MS	1/2"	119	70	100	105	346	80	2.0	**445.87**	E0613 SR	**214.27**
A078 MS	3/4"	144	85	100	105	346	80	2.0	**507.32**	E0613 SR	**214.27**
A109 MS	1"	297	175	100	105	466	80	2.4	**738.92**	E0625 SR	**263.11**
A128 MS	1 1/4"	476	280	122	112	530	80	3.3	**860.23**	E0730 SR	**327.71**
A158 MS	1 1/2"	545	320	122	112	530	80	3.3	**1017.79**	E0730 SR	**327.71**
A159 MS	1 1/2"	680	400	146	122	552	100	4.9	**1109.17**	E0830 SR	**381.28**
A208 MS	2"	765	450	146	122	552	100	4.9	**1208.42**	E0830 SR	**381.28**
A209 MS	2"	1190	700	146	122	855	100	7.0	**1709.44**	E0860 SR	**551.43**
A254 MS	2 1/2"	1445	850	210	137	665	100	9.6	**2024.54**	E1140 SR	**723.16**
A340 MS	3"	1530	900	210	137	665	100	9.6	**2227.79**	E1140 SR	**723.16**
A360 MS	3"	2125	1250	210	137	885	100	11.6	**2587.01**	E1160 SR	**841.33**
A390 MS	3 "	2550	1500	210	137	1045	100	13.1	**3050.21**	E1175 SR	**1050.87**

TECHNICAL NOTES

- Filter element endcaps are stainless steel.
- Direction of air flow is outside to in through the filter elements.
- Pop up indicators (65DPUG) are fitted to models A028 MS to A058 MS as standard. Differential pressure indicators (65DPIG) are fitted to models A059 MS to A390 MS as standard.
- Manual drain valves are fitted to all models. Models A059 MS to A390MS can be adapted to use 1/4" drains with a reducer.
- Medical sterile filter elements must not operate in water or oil saturated conditions.
- Maximum steam sterilising temperature refers to the filter element ONLY. Grade SR filter elements can be steam sterilised 100 times. Each element must be autoclaved before commencement of duty.
- Pre-filtration should be used in conjuction with 0.01 micron sterile filters.



A019 MS to A390 MS

SPECIFICATION

Grade	SR	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	5 mg/m³	4.1 ppm
Maximum temperature	up to 120°C	up to 248°F
Maximum working pressure	16 barg	232 psig
Element end cap colour	stainless steel	

* Recommended operated temperature 50°C, 122°F

2 STAGE DUPLEX FILTRATION XAC

The alpha series XAC duplex range of filters offers a space saving, economical filtration solution. Duplex filters combine and XA 0.01 micron coalescing filter element which reduces oil concentrations and an DAC, secondary activated carbon filter element which removes vapours, odours and tastes.

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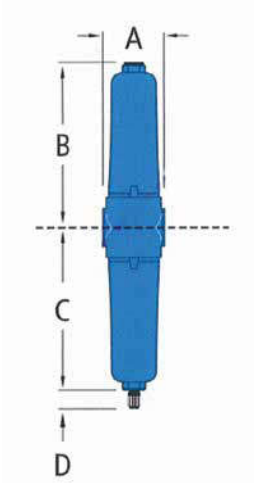
									COMPLETE FILTER	REPLACEMENT ELEMENTS			
CODE	PORT BSP	FLOW RATE Nm³/h	SCFM	DIMENSIONS mm A	B	C	D	WEIGHT kg	€ M08	XA ELEMENT	€ M14	DAC ELEMENT	€ M14
D028 XAC	1/4"	42.5	25	70	163	159	70	0.9	167.26	E0406 XA	46.08	E0406 DAC	46.08
D038 XAC	3/8"	59.5	35	70	163	159	70	0.9	203.96	E0407 XA	46.08	E0407 DAC	46.08
D058 XAC	1/2"	85.0	50	70	204	200	70	1.0	244.06	E0413 XA	56.32	E0413 DAC	56.32
D059 XAC	1/2"	119	70	100	240	236	80	2.3	331.11	E0613 XA	63.15	E0613 DAC	63.15
D078 XAC	3/4"	144	85	100	240	236	80	2.3	383.16	E0613 XA	63.15	E0613 DAC	63.15
D079 XAC	3/4"	212	125	100	360	356	80	3.1	443.75	E0620 XA	81.07	E0620 DAC	81.07
D108 XAC	1"	229	135	100	360	356	80	3.1	471.92	E0620 XA	81.07	E0620 DAC	81.07
D109 XAC	1"	297	175	100	360	356	80	3.2	631.50	E0625 XA	98.14	E0625 DAC	98.14



D028 XAC to D109 XAC

TECHNICAL NOTES

- Duplex filters offer 2 stage filtration within one filter unit. Each filtration package provides an XA grade element in the lower section for oil removal, while the AC grade element in the upper section is for odour removal.
- Direction of air flow is inside to out through XA grade and outside to in through AC grade filter element.
- DVAS16C drains are fitted to models D028 XAC to D058 XAC; DVAS16 drains are fitted to D059 XAC to D109 XAC.
- Models D059 XAC to D109 XAC can be adapted to use 1/4" 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 (CO_2).

SPECIFICATION

Grade	XA		AC	
Maximum particle size class to ISO 8573-1:2010	1		1	
Maximum oil content class to ISO 8573-1:2010	1		1	
Maximum temperature *	50°C	122°F	50°C	122°F
Maximum working pressure	16 barg	232 psig	16 barg	232 psig
Element end cap colour	blue XA (bottom element)		black activated carbon (top element)	

* Recommended operating temperature 25°C, 77°F.

COMPRESSED AIR DRYERS

Any form of moisture in a compressed air line has the potential to cause costly downtime, machine damage and product spoilage.

The highly efficient Pro Dry range is recommended as an integral part of a sophisticated compressed air system, which will provide significant cost benefits if correctly maintained.

This intelligent dryer has additional energy saving features, which link with a compressor control system and reduce air consumption during periods of low demand.

The compact size of the Pro Dry ensures that installation is simple and versatile. The units can be installed in small spaces in either a vertical or horizontal position.

WALKER FILTRATION
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CODE	PORT BSP	INLET FLOW RATE Nm³/h	SCFM	DIMENSIONS mm A	B	C	WEIGHT kg	FILTER MODEL	€ M22
PD004	3/8"	7	4	493	351	92	13	A038	**1204.61**
PD006	3/8"	10	6	552	351	92	14	A038	**1260.69**
PD008	3/8"	14	8	613	351	92	15	A038	**1380.39**
PD010	3/8"	17	10	682	351	92	17	A038	**1503.33**
PD015	3/8"	25	15	862	351	92	20	A038	**1623.04**
PD025	3/8"	42	25	1253	351	92	24	A038	**1870.00**
PD035	3/8"	59	35	1644	351	92	31	A038	**2233.43**
PD045	3/4"	76	45	837	520	264	54	A078	**3124.22**
PD055	3/4"	93	55	937	520	264	60	A078	**3305.39**
PD065	3/4"	110	65	1037	520	264	65	A078	**3713.04**
PD085	1"	144	85	1237	520	264	77	A108	**4488.43**
PD105	1"	178	105	1547	520	264	93	A108	**5094.51**
PD135	1 1/4"	229	135	1747	520	264	104	A128	**5863.43**
PD175	1 1/4"	297	175	2147	520	264	126	A128	**6594.61**
PD215	1 1/2"	365	215	1555	520	448	176	A158	**8140.00**
PD275	1 1/2"	467	275	1755	520	448	197	A158	**9394.22**
PD365	1 1/2"	620	365	2165	520	474	239	A159	**11115.39**

The Pro Dry range of desiccant dryers are designed to eliminate moisture problems in compressed air systems. When used in accordance with Walker Filtration coalescing filters; the Pro Dry reduces moisture levels to -40°C (-40°F) and -70°C (-94°F) pressure dewpoint.

TECHNICAL NOTES

- Pro Dry features easy removable desiccant cartridges with integral 1 micron dust filter.
- For additional security, Walker Filtration recommends fitting an RX1 dust filter to the outlet.
- All models are supplied together with an XA pre-filter.
- Additional filtration, including a water separator, is recommended for high loaded inlet conditions.
- Standard models operate at 7 barg; for other pressures, please specify at time of order.
- D215, PD275 and PD365 are duplex systems.

SPECIFICATION

Standard pressure dewpoint	-40°C (-40°F)
Optional pressure dewpoint	-70°C (-100°F)
Minimum working pressure	4 barg (58 psig)
Maximum working pressure	16 barg (232 psig)
Electronic control	12VDC to 24VDC or 100VAC to 240VAC
Minimum inlet temperature	1.5°C (35°F)
Maximum inlet temperature	50°C (122°F)
Minimum ambient temperature	5°C (41°F)

CONNECTING KIT

WALKER FILTRATION
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CODE	EQUIPMENT DESCRIPTION	TO FIT MODEL	€ M23
	connecting kits		
CNK018	connecting kit for joining 2 filter housings together (for every additional housing connection, 1 connection kit is required. For example, 3 connection kits are required to join 4 filter housings)	A018, A019	20.78
CNK028		A028, A038, A058	20.78
CNK059		A059, A078, A079, A108, A109	25.23
CNK128		A128, A158	25.23
CNK159		A159, A208, A209	28.20
CNK254		A254, A340, A360, A390	31.17
CNKD028		D028, D038, D058	28.20
CNKD059		D059, D078, D079, D108, D109	32.65

WALL MOUNTING BRACKET KIT

WALKER FILTRATION
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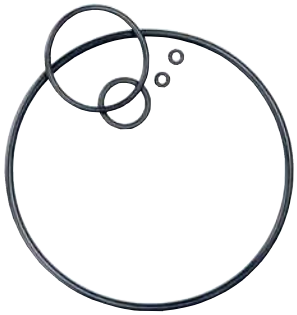
CODE	EQUIPMENT DESCRIPTION	TO FIT MODEL	€ M23
	connecting kits		
MBK018	wall mounting bracket, nuts and bolts	A018, A019	31.17
MBK028		A028, A038, A058	31.17
MBK059		A059, A078, A079, A108, A109	38.59
MBK128		A128, A158	38.59
MBK159		A159, A208, A209	41.56
MBK254		A254, A340, A360, A390	53.43
MBKD028		D028, D038, D058	32.65
MBKD059		D059, D078, D079, D108, D109	41.56

O-RING SEALING KIT



WALKER FILTRATION
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CODE	EQUIPMENT DESCRIPTION	TO FIT MODEL	€ M23
	connecting kits		
OSK018	o-ring sealing kit	A018, A019	16.33
OSK028		A028, A038, A058	16.33
OSK059		A059, A078, A079, A108, A109	16.33
OSK128		A128, A158	17.81
OSK159		A159, A208, A209	20.78
OSK254		A254, A340, A360, A390	81.63
OSKD028		D028, D038, D058	16.33
OSKD059		D059, D078, D079, D108, D109	17.81