FILTER ELEMENT – OWA Alfa

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OWA Alfa filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air [1]. OWA Alfa filter elements are designed to fit into Walker filter housings.

APPLICATIONS [2]

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

[1] For any other technical gas please contact us or your local dealer
[2] OWA Alfa filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
X5/P	Class 3	-	-
X1/M	Class 2	-	Class 2
XA/S	Class 1	-	Class 1
AC/A	Class 1	-	Class 1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	X5/P [6]	X1/M [6]	XA/S [6]	AC/A [6]
Operating temperature		1,5 - 65 °C/ 35 - 149 °F		1,5 - 45°C/ 35 - 113 °F
Differential pressure (dry)	10 mbar/ 0,145 psi	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	20 mbar/ 0,290 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	N/A
Particle retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	N/A
Particle retention rate ISO [3]	95 %	99,98 %	99,9994 %	N/A
Residual oil content [4]	N/A	< 0,1mg/m^3	< 0,01mg/m^3	< 0,005mg/m^3
Capacity (ISO12500-2) [5]	N/A	N/A	N/A	20 min

[3] Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 X5/P, MPPS-(5 μm); 06050 X1/M, XA/S, MPPS-(0,3μm)
[4] Tested according to ISO12500-1, 06050 X1/M, XA/S Oil aerosol viscosity 32mm^2/s, inlet concentration 10mg/m^3
[5] Tested according to ISO12500-2, 06050 XA/A tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[6] Cross reference Omega Air – Walker filtration grades: P= X5/P=X5, M=X1/M=X1, S=XA/S=XA, A=AC/A=AC

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SIZES

PLASTIC END CAPS	DIMENSIONS [mm]
OWA AE0304 _/_	Ø=28; h=49
OWA AE0305 _/_	Ø=28; h=59,5
OWA AE0406 _/_	Ø=37; h=72
OWA AE0407 _/_	Ø=37; h=79,5
OWA AE0413 _/_	Ø=37; h=120
OWA AE0613 _/_	Ø=57; h=139
OWA AE0620 _/_	Ø=57; h=210
OWA AE0625 _/_	Ø=57; h=259
OWA AE0730 _/_	Ø=72; h=306
OWA AE0830 _/_	Ø=83; h=309
OWA AE0860 _/_	Ø=83; h=612,5
OWA AE1140 _/_	Ø=115; h=392
OWA AE1160 _/_	Ø=115; h=612
OWA AE1175 _/_	Ø=115; h=769

ø=Diameter; h=Height

MATERIALS

	X5/P	X1/M	XA/S	AC/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers		Glass fibre, borosilicate microfibers
Protection media	Polyester			
Drainage media	/	Polyurethane		/
Adsorption media	/	/		Activated carbon granulate PES (Polyester)
Support (inner-outer)	Stainless steel 1.4301			
Bonding	Polyurethane			
Endcaps	PA6 with 30% glass fibers			
Sealing	NBR			

CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s). CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C_{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

Replace filter element grade X5/P, X1/M and XA/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade AC/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

BUREAU VERITAS	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285	

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