

FILTER ELEMENT - OWA

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OWA 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 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 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-(0,3 µm)

⁽⁴⁾ Tested according to ISO12500-1, 06050 X1/M, XA/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³

⁽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

SIZES

END CAPS	DIMENSIONS [mm]	FLOW CAPACITY		FITS INTO FILTER HOUSING
		[Nm ³ /h]	[scfm]	
OWA E361 _/_	Ø=43; h=73	35	20	A20
OWA E371 _/_	Ø=43; h=73	56	33	A30
OWA E381 _/_	Ø=38; h=117	25; 50	15; 30	D20/D30
OWA E511 _/_	Ø=54,5; h=113	112	66	A55
OWA E711 _/_	Ø=72; h=150	216	127	A76
OWA E811 _/_	Ø=83; h=149	250	147	A105
OWA E731 _/_	Ø=72; h=300	300	176	A106
OWA E821 _/_	Ø=83; h=300	540	318	A126
OWA E831 _/_	Ø=83; h=301	725; 800	427; 470	A153/A203
OWA E851 _/_	Ø=83; h=500	1150	675	A205
OWA E1251 _/_	Ø=130; h=497	1620	954	A250/A305
OWA E1261 _/_	Ø=130; h=615	2210	1301	A306
OWA E1281 _/_	Ø=130; h=763	2600	1531	A308

Ø=Diameter; h=Height

MATERIALS

	X5/P	X1/M	XA/S	AC/A
Filter media	Acrylic fibres, cellulose	Borosilicate micro fibres		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	Aluminium			
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.

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