

FILTER ELEMENT – OALM

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

We have designed OALM new filter elements for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air⁽¹⁾. OALM filter elements will fit into Almig 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⁾OALM 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
AFP/P	Class 6	-	-
AFM/M	Class 2	-	Class 2
AFS/S	Class 1	-	Class 1
AFC/A	-	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	AFP/P ⁽⁶⁾	AFM/M ⁽⁶⁾	AFS/S ⁽⁶⁾	AFC/A ⁽⁶⁾
Operating temperature		1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	10 mbar 0,290 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 %	99,998 %	N/A
Residual oil content ⁽⁴⁾	N/A	< 0,1mg/m	< 0,01mg/m ³	<0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾		N/A		20 min

⁽³⁾Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 AFP/P, MPPS-(5,1µm) ; 06050 AFM/M,AFS/S, MPPS-(0,3µm)

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

⁽⁵⁾Tested according to ISO12500-2, 06050 AFC/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

⁽⁶⁾Cross reference Omega Air – ALMIG filtration grades: P=AFP/P=AFP, M=AFM/M=AFM, S)AFS/S=AFS, A=AFC/A=AFC

FILTER CARTRIDGE NAMES

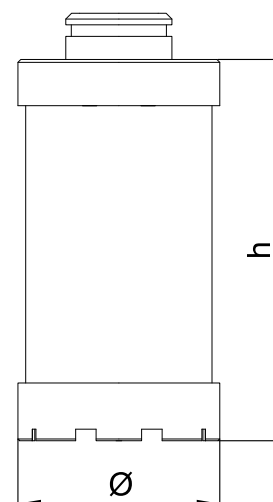
Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size instead of dash.

E.g. OALM 432 AFP/P

SIZES

SIZES	DIMENSIONS [mm]	FLOW CAPACITY	
		[Nm ³ /h]	[scfm]
OALM 30 _ _ / _	Ø=40; h=43	22,7	13,3
OALM 60 _ _ / _	Ø=48; h=64	44,0	25,9
OALM 108 _ _ / _	Ø=48; h=108	83,5	49,2
OALM 180 _ _ / _	Ø=48; h=146	117,6	69,2
OALM 204 _ _ / _	Ø=60; h=114	112,0	65,9
OALM 300 _ _ / _	Ø=60; h=144	146,3	86,1
OALM 432 _ _ / _	Ø=60; h=185	197,7	116,4
OALM 570 _ _ / _	Ø=60; h=224	242,3	142,6
OALM 750 _ _ / _	Ø=82; h=210	315,2	185,5
OALM 990 _ _ / _	Ø=82; h=312	477,6	281,1
OALM 1140 _ _ / _	Ø=82; h=398	614,4	361,7
OALM 1320 _ _ / _	Ø=82; h=482	748,2	440,4
OALM 1680 _ _ / _	Ø=121; h=484	1019,4	600,0
OALM 2100 _ _ / _	Ø=121; h=636	1363,7	802,7
OALM 2640 _ _ / _	Ø=121; h=760	1689,1	994,1

Ø=Diameter; h=Height



MATERIALS

	AFP/P	AFM/M	AFS/S	AFC/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers		Glass fiber, borosilicate microfibrils
Drainage media	Polyester	Polyester based 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 AFP/P, AFM/M and AFS/S at least once per year or when pressure drop reaches 350mbar, replace filter element grade AFC/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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