FILTER ELEMENT – OALU old

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OALU old filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air [1].

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] OALU 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
MBP/P	Class 6	-	-
MBM/M	Class 2	-	Class 2
MBS/S	Class 1	-	Class 1
MBA/A	-	-	Class 0/1

Validated according to ISO12500-1, ISO12500-2 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	MBP/P [6]	MBM/M [6]	MBS/S [6]	MBA/A [6]
Operating temperature		1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
Operating pressure		0-16 barg / 0 -232 psi		
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 %	99,998 %	N/A
Residual oil content [4]	N/A	< 0,1mg/m^3	< 0,01mg/m^3	< 0,005mg/m3
Capacity (ISO12500-2) [5]	N/A	N/A	N/A	20 min

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

FILTER CARTRIDGE NAMES

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

E.g. OALU 60 MBS/S

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SIZES

END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]
OALU 60	Ø=51; h=60	60	35
OALU 80	Ø=51; h=70	78	46
OALU 120	Ø=51; h=140	120	71
OALU 200	Ø=75; h=125	198	117
OALU 340	Ø=75; h=225	335	197
OALU 510	Ø=75; h=325	510	300
OALU 800	Ø=75; h=505	780	459
OALU 1000	Ø=90; h=510	996	586
OALU 1500	Ø=90; h=760	1500	883
OALU 2400	Ø=140; h=750	2400	1413

ø=Diameter; h=Height

MATERIALS

	MBP/P	MBM/M	MBS/S	MBA/A
Filter media	Acrylic fibres, cellulose	Borosilicate micro fibres		Glass fibre, borosilicate microfibres
Adsorption media		/		Activated carbon granulate PES (Polyester)
Drainage media	/	Polyester based polyurethane		/
Protection media	Polyester fleece			
Support (inner-outer)	Stainless steel 1.4301			
Bonding	Polyurethane			
Endcaps	PA6 with 30% glass fibres			
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 MBP/P, MBM/M and MBS/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade MBA/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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