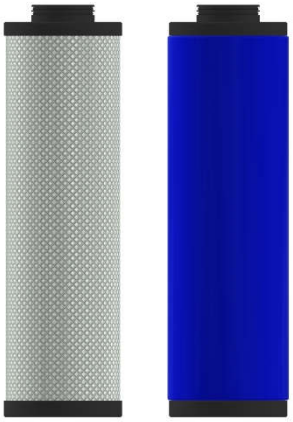
FILTER ELEMENT – OAC +



Alternative filter elements for Atlas Copco
Series: DD(+), PD(+), UD+, QD(+)

DESCRIPTION

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

FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

Filtration grade	Solid particles class	Water class	Oil class
DD/M	2	/	2
PD/S & UD/S	1	/	1
QD/A	1*	/	0/1

Validated according to ISO12500-1, ISO12500-2 and ISO12500-3
* Valid if "S" filter cartridge is installed upstream

TECHNICAL SPECIFICATION

	DD/M[6]	PD/S & UD/S[6]	QD/A[6]
Operating temperature	1,5 - 65 °C/ 35 - 149 °F	1,5 - 65 °C/ 35 - 149 °F	1,5 - 45 °C/ 35 - 113 °F
Operating pressure	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi
Differential pressure (dry)	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO[3]	99,98 %	99,9994 %	/
Residual oil content[4]	< 0,1mg/m^3	< 0,01mg/m^3	< 0,005mg/m^3
Flow Direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE
Capacity (ISO12500-2)[5]	/	/	20 min

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

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

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MATERIALS

	DD/M	PD/S & UD/S	QD/A
Filter media	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	Polyester based polyurethane	Polyester based polyurethane	/
Adsorption media	/	/	Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers
Sealing	NBR	NBR	NBR

SIZES

Model* (DD/M, PD/S, QD/A)	Model* (UD/S)	Diameter [mm]	Height [mm]	Flow Capacity [Nm^3/h]	Flow Capacity [scfm]	Fits into filter housing for
OAC +10	OAC +9	46	55,5	36 (32,4)	21 (19)	10 (UD 9+)
OAC +20	OAC +15	46	90,5	72 (54)	42 (32)	20 (UD 15+)
OAC +35	OAC +25	46	146	126 (90)	74 (53)	35 (UD 25+)
OAC +50	OAC +45	61	155	180 (162)	106 (95)	50 (UD 45+)
OAC +70	OAC +60	61	195	252 (216)	148 (127)	70 (UD 60+)
	OAC +100	86	222	(360)	(212)	(UD 100+)
OAC +130	OAC +140	86	288	468 (504)	275 (297)	130 (UD 140+)
OAC +170	OAC +180	86	323	612 (648)	360 (381)	170 (UD 180+)
OAC +210	OAC +220	86	367,5	756 (792)	445 (466)	210 (UD 220+)
OAC +310	OAC +310	101,5	420	1116 (1116)	657 (657)	310 (UD 310+)
OAC +425	OAC +425	120	509	1530 (1530)	901 (901)	425 (UD 425+)
OAC +550	OAC +550	120	679	1980 (1980)	1165 (1165)	550 (UD 550+)

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OAC +10 DD/M).
** Values in the brackets refer to grade UD/S

MAINTENANCE

DD/M, PD/S, UD/S - Replace filter element at least once per year or when pressure drop reaches 350mbar

QD/A - Replace filter element at least every 6 months

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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