



# FILTER ELEMENT – Atlas Copco +

Alternative filter elements for Atlas Copco

Series: DD(+), PD(+), UD+, QD(+)



## DESCRIPTION

These 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	2	/	2
PD & UD	1	/	1
QD/A	1*	/	0/1

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

## TECHNICAL SPECIFICATION

	DD	PD & UD	QD
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 <sup>(3)</sup>	99,98 %	99,9994 %	/
Residual oil content <sup>(4)</sup>	< 0,1mg/m <sup>3</sup>	< 0,01mg/m <sup>3</sup>	< 0,005mg/m <sup>3</sup>
Flow Direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE
Capacity (ISO12500-2) <sup>(5)</sup>	/	/	20 min

<sup>(3)</sup>Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 M, S, MPPS-(0,3µm)

<sup>(4)</sup>Tested according to ISO12500-1, 06050 M, S Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>

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

## 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<sub>OP</sub>

### 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 <sub>OP</sub>	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



## MATERIALS

	DD	PD & UD	QD
Filter media	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	Polyester needle felt	Polyester needle felt	/
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 or aluminium	PA6 with 30% glass fibers or aluminium	PA6 with 30% glass fibers or aluminium
Sealing	NBR	NBR	NBR

## SIZES

Model* (DD/M, PD/S, QD/A)	Model* (UD/S)	Diameter [mm]	Height [mm]	Flow Capacity [Nm <sup>3</sup> /h]	Flow Capacity [scfm]	Fits into filter housing for
AC +10	AC +9	46	55,5	36 (32,4)	21 (19)	10+ (UD 9+)
AC +20	AC +15	46	90,5	72 (54)	42 (32)	20+ (UD 15+)
AC +35	AC +25	46	146	126 (90)	74 (53)	35+ (UD 25+)
AC +50	AC +45	61	155	180 (162)	106 (95)	50+ (UD 45+)
AC +70	AC +60	61	195	252 (216)	148 (127)	70+ (UD 60+)
	AC +100	86	222	(360)	(212)	(UD 100+)
AC +130	AC +140	86	288	468 (504)	275 (297)	130+ (UD 140+)
AC +170	AC +180	86	323	612 (648)	360 (381)	170+ (UD 180+)
AC +210	AC +220	86	367,5	756 (792)	445 (466)	210+ (UD 220+)
AC +310	AC +310	101,5	420	1116 (1116)	657 (657)	310+ (UD 310+)
AC +425	AC +425	120	509	1530 (1530)	901 (901)	425+ (UD 425+)
AC +550	AC +550	120	679	1980 (1980)	1165 (1165)	550+ (UD 550+)
AC +550F***	AC +550F***	120	683	1980 (1980)	1102 (1165)	550F+ (UD 550+F)

\*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. AC +10 DD). \*\*

Values in the brackets refer to grade UD

\*\*\*Sizes AC +550F have aluminium endcaps, others have plastic ones

## MAINTENANCE

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

QD - Replace filter element at least every 6 months



## Strength

- We export to almost 100 countries.
- We have more than 2000 global customers.
- We can provide a total filtration solution.

- Filter-Online & Nordic Filtration offers a wide selection of filtration products for Domestic and Industrial Application.

- You can buy our products on our websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our websites:

[www.filter-online.com](http://www.filter-online.com) for Domestic Products

[nordicfiltration.com](http://nordicfiltration.com) for Industrial Products

We distribute many of our products from our stock in Denmark. Some products are shipped from remote stock.



Filter-Online & Nordic Filtration ApS  
Glasvænget 6  
5492 Vissenbjerg  
Denmark

**Filter-Online**  
+45 70 40 42 22  
[info@filter-online.com](mailto:info@filter-online.com)  
[www.filter-online.com](http://www.filter-online.com)

**Nordic Filtration**  
+45 72 25 10 00  
[info@nordicfiltration.com](mailto:info@nordicfiltration.com)  
[nordicfiltration.com](http://nordicfiltration.com)