

# FILTER ELEMENT – Compair Gen 4

Alternative filter elements for Compair

Series: CF Series



## 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
B	3	/	/
C	1	/	1
D	1*	/	0/1

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

\* Valid if "XS" filter cartridge is installed upstream

## TECHNICAL SPECIFICATION

	B	C	D
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)	20 mbar/ 0,290 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	40 mbar/ 0,580 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,9999% (1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO <sup>(3)</sup>	99,8 %	99,9994 %	/
Residual oil content <sup>(4)</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 R, S, MPPS-(0,3µm)

<sup>(4)</sup>Tested according to ISO12500-1, 06050 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

<sup>(6)</sup>Cross reference Omega Air – Compair filtration grades: XR=B/XR, XS=C/XS, A=D/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<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

	B	C	D
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*	Diameter [mm]	Height [mm]	Flow Capacity [Nm <sup>3</sup> /h]	Flow Capacity [scfm]	Fits into filter housing
0005	36,5	67	32	19	CF0005
0010	50,5	81	61	36	CF0010
0018	50,5	118	108	64	CF0018
0036	72	161	216	127	CF0036
0048	72	260	288	170	CF0048
0132	86	330	792	466	CF0132
0198	86	609	1188	699	CF0198
0258	114	416	1548	911	CF0258
0372	114	609,5	2232	1314	CF0372

\*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OCO 0005 B/XR). There is an option for **aluminum endcaps** (e.g. OCO 0005 B/XR Al).

## MAINTENANCE

B/XR, C/XS - Replace filter element at least once per year or when pressure drop reaches 350mbar

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