



FILTER ELEMENT – Chaumeca CRB

Alternative filter elements for Chaumeca

Series: FD

DESCRIPTION

Chaumeca CRB 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
D	6	/	/
F	3	/	/
N	2	/	2
S	1	/	1
C	1*	/	0/1

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

TECHNICAL SPECIFICATION

	D	F	N	S	C
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	20 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	40 mbar/ 0,580 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	95 %	99,8 %	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				
Capacity (ISO12500-2) ⁽⁵⁾	/	/	/	/	20 min

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

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

⁽⁵⁾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_{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



MATERIALS

	D	F	N	S	C
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece				
Drainage media	/	Polyester needle felt	Polyester needle felt	Polyester needle felt	/
Adsorption media	/	/	/	/	Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301				
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Sealing	NBR	NBR	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
CRB 10	45	60	45	28	FD 8
CRB 20	45	150	80	50	FD 12
			110	69	FD 15
CRB 30	59	150	220	137	FD 20
CRB 40	59	250	330	206	FD 25
CRB 50	71,5	250	500	312	FD 32
CRB 60	71,5	350	680	424	FD 40
CRB 70	81,5	373	1040	648	FD 50
CRB 80	81,5	473	1230	766	FD 65
CRB 90	120	344	1500	935	FD 80 (1x)
			2400	1495	FD 100 (2x)
			4800	2991	FD 125 (4x)
			7800	4860	FD 150 (6x)
			12000	7477	FD 200 (10x)

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. CRB 10 D AI).

MAINTENANCE

D, F, N, S - Replace filter element at least once per year or when pressure drop reaches 350mbar

C - 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 for Domestic Products

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



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