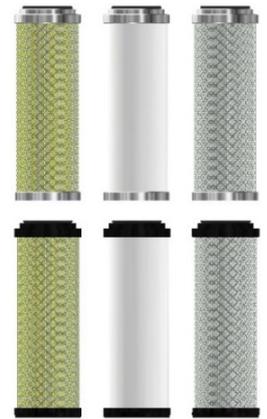




FILTER ELEMENT - EKOMAK

Alternative filter elements for EKOMAK

Series: P, U, H, S, C 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
P	6	/	/
U	3	/	/
H	2	/	2
S	1	/	1
C	1*	/	0/1

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

TECHNICAL SPECIFICATION

	P	U	H	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

	P	U	H	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 PA6 with 30% glass fibers or aluminium	Polyurethane PA6 with 30% glass fibers or aluminium	Polyurethane PA6 with 30% glass fibers or aluminium	Polyurethane PA6 with 30% glass fibers or aluminium	Polyurethane PA6 with 30% glass fibers or aluminium
Endcaps					
Sealing	NBR	NBR	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
EK 10	42	56	39	23	10
EK 15	51	59	57	34	15
EK 20	51	75	79	46	20
EK 30	51	144	118	69	30
EK 55	75	118	198	117	55
EK 95	75	218	342	201	95
EK 150	75	318	540	318	150
EK 220	75	508	799	470	220
EK 290	92	506	1049	617	290
EK 430	92	760	1569	923	430
EK 625	140	605	2250	1324	625
EK 775	140	755	2797	1646	775

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OEK 10 P/P). There is an option for **aluminum endcaps** (e.g. EK 10 PAI).

MAINTENANCE

P, U, H, 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

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
www.filter-online.com

Nordic Filtration
+45 72 25 10 00
info@nordicfiltration.com
nordicfiltration.com