



# FILTER ELEMENT - HANKISON

## Alternative filter elements for Hankison

### Series: HF 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
E6	6	/	/
E7	3	/	/
E5	2	/	2
E3	1	/	1
E1	1*	/	0/1

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

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

### TECHNICAL SPECIFICATION

	E6	E7	E5	E3	E1
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 <sup>(3)</sup>	95 %	99,8 %	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				
Capacity (ISO12500-2) <sup>(5)</sup>	/	/	/	/	20 min

<sup>(3)</sup>Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 P, MPPS-(5µm) ; 06050 R, 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

	E6	E7	E5	E3	E1
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 <sup>3</sup> /h]	Flow Capacity [scfm]	Fits into filter housing
HK 12	60	50	35	20	12
HK 16	60	91	60	35	16
HK 20	60	152	105	61	20
HK 24	60,5	168	170	100	24
HK 28	60,5	276	290	170	28
HK 32	68	337	425	250	32
HK 36	68	450	640	376	36
HK 40	82,5	518	825	485	40
HK 44	82,5	665	1060	623	44
HK 48	82,5	820	1325	779	48
HK 52-PV	82,5	674	1110	653	52
			2125	1251	56
			3185	1875	60
			4250	2501	64
			5310	3125	68
			8490	4997	72
			11670	6869	76
14850	8740	80			
HK 54	82,5	527	1700	1000	54

\*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OHK 12 E9/P AI).

## MAINTENANCE

E6, E7, E5, E3 - Replace filter element at least once per year or when pressure drop reaches 350mbar

E1 - 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

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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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