FILTER ELEMENT - ODHE

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

ODHE filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[1].
ODHE filter elements are designed to fit into Parker - Domnick Hunter Oil-x Evolution filter housings.

APPLICATIONS [2]

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

[1]For any other technical gas please contact us or your local dealer
[2]ODHE filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
AR/R	Class 3	-	Class 3
AO/M	Class 2	-	Class 2
AA/S	Class 1	-	Class 1
ACS/A	-	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	AR/R[6]	AO/M[6]	AA/S[6]	ACS/A[6]	AC/A
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)	20 mbar/ 0,290 psi	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi	
Differential pressure (wet)	40 mbar/ 0,580 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	N/A	
Particle retention (nominal)	99,9999% (1 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	N/A	
Particle retention rate ISO[3]	99,8 %	99,98 %	99,9994 %	N/A	
Residual oil content[4]	< 0,5mg/m³	< 0,1mg/m³	< 0,01mg/m³	< 0,005mg/m³	
Capacity (ISO12500-2)[5]	N/A	N/A	N/A	20 min	

[3]Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 AR/R, AO/M, AA/S, MPPS-(0,3μm)
[4]Tested according to ISO12500-1, 06050 AR/R, AO/M, AA/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³
[5]Tested according to ISO12500-2, 06050 ACS/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[6]Cross reference Omega Air – Domnick Hunter filtration grades: R=AR/R=AR, M=AO/M=AO, S=AA/S=AA, A=ACS/A=ACS, A=AC/A=AC

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SIZES

FILTER ELEMENT SIZE	DIMENSIONS [mm]	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
ODHE 005 _ _/_	Ø=37; h=43	22	13	005
ODHE 010 _ _/_	Ø=37; h=70	36	21	010
ODHE 015 _ _/_	Ø=48; h=91	72	42	015
ODHE 020 _ _/_	Ø=48; h=111	108	64	020
ODHE 025 _ _/_	Ø=68; h=131	216	127	025
ODHE 030 _ _/_	Ø=68; h=220	396	233	030
ODHE 035 _ _/_	Ø=90; h=268	576	339	035
ODHE 040 _ _/_	Ø=90; h=305	792	466	040
ODHE 045 _ _/_	Ø=90; h=358	1188	699	045
ODHE 050 _ _/_	Ø=108; h=458	1548	911	050
ODHE 055 _ _/_	Ø=108; h=648	2232	1314	055
ODHE 060 _ _/_	Ø=86; h=635	3600	2119	060
ODHE 150 _ _/_	Ø=114; h=415	1548	911	150
ODHE 200 _ _/_	Ø=114; h=635	2232	1314	200
ODHE 010 AC/A AL	Ø=36,5; h=105	36	21	010
ODHE 015 AC/A AL	Ø=46; h=130	72	42	015
ODHE 020 AC/A AL	Ø=46; h=130	108	64	020
ODHE 025 AC/A AL	Ø=70; h=136,5	216	127	025
ODHE 025E AC/A AL	Ø=70; h=136,5	216	127	025
ODHE 030 AC/A AL	Ø=70; h=210	396	233	030

ø=Diameter; h=Height

MATERIALS

	AR/R	AO/M	AA/S	ACS/A	AC/A
Filter media	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers	Glass fibre, borosilicate microfibers	Glass fibre, borosilicate microfibers
Drainage media	Polyurethane	Polyurethane	Polyurethane	/	/
Adsorption media	/	/	/	Activated carbon granulate PES (Polyester)	Activated carbon granulate PES (Polyester)
Support (inner-outer)	Stainless steel 1.4301				
Bonding	Polyurethane				
Endcaps	PA6 with 30% glass fibers				Aluminium
Sealing	NBR				

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

MAINTENANCE

Replace filter element grade AR/R, AO/M, AA/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade ACS/A at least every 6 months

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

BUREAU VERITAS	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285	

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