

FILTER ELEMENT – OIR AC

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

We have designed OIR AC new filter elements for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air ⁽¹⁾.

OIR AC filter elements will fit into Ingersoll Rand 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⁾ OIR AC 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
GP/R	Class 3	-	-
HE/S	Class 1	-	Class 1
AC/A	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	GP/R ⁽⁶⁾	HE/S ⁽⁶⁾	AC/A ⁽⁶⁾
Operating temperature	1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
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 % (0,01µm)	/
Particle retention Rate ISO ⁽³⁾	99,8 %	99,9994 %	/
Residual oil Content ⁽⁴⁾	/	< 0,01mg/m 3	<0,005mg/m3
Capacity (ISO12500-2) ⁽⁵⁾	/	/	20 min

⁽³⁾ Tested according to ISO12500-3, 1bar(a), nominal flow,06050 GP/R, HE/S, MPPS-(0,3µm)

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

⁽⁵⁾ Tested according to ISO12500-2, 06050 AC/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

⁽⁶⁾ Cross reference Omega Air – Ingersoll Rand filtration grades R=GP/R=GP, S=HE/S=HE, A=AC/A=AC

FILTER CARTRIDGE NAMES

Filter cartridge names consist of cartridge size and filtration grade.

Example: “OIR 19 HE/S.

SIZES

SIZES	DIMENSIONS [mm]	FITS INTO FILTER HOUSING
OIR 19	Ø=51; h=75	IR (grade) 19
OIR 40	Ø=51; h=90	IR (grade) 40
OIR 64	Ø=51; h=114	IR (grade) 64
OIR 123	Ø=73; h=144	IR (grade) 123
OIR 216	Ø=73; h=237	IR (grade) 216
OIR 275	Ø=73; h=295	IR (grade) 275
OIR 350	Ø=87; h=305	IR (grade) 350
OIR 481	Ø=87; h=411	IR (grade) 481
OIR 563	Ø=87; h=477	IR (grade) 563
OIR 706	Ø=87; h=592	IR (grade) 706
OIR 850	Ø=104; h=596	IR (grade) 850
OIR 1100	Ø=104; h=714	IR (grade) 1100
OIR 1380	Ø=104; h=793	IR (grade) 1380

Ø=Diameter; h=Height

MATERIALS

	GP/R	HE/S	AC/A
Filter media	Borosilicate micro fibers		Glass fiber, borosilicate microfibres
Drainage media	Polyester based polyurethane		/
Adsorption media			Activated carbon granulate PES (Polyester)
Support (inner-outer)		Stainless steel 1.4301	
Bonding		Polyurethane	
Endcaps		PA6 with 30% glass fibers	
Sealing		NBR	

CORRECTION ACTORS

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 GP/R and HE/S at least once per year or when pressure drop reaches 350mbar. Replace filter element grade AC/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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