FILTER ELEMENT – OZA process

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OZA process filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[(1)].
OZA filter elements are designed to fit into Parker - Zander 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)] OZA 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
V/P	Class 6	-	-
ZP/R	Class 3	-	-
XP/S	Class 1	-	Class 1
A/A	-	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	V/P	ZP/R	XP/S	A/A	D/PIW (20 µm)	D/PIW (1 µm)
Operating temperature [(7)]	1,5 – 80 °C (35 – 176 °F)	1,5 – 120 °C (35 – 248 °F)		1,5 – 45 °C (35 – 113 °F)	0 – 150 °C (32 – 302 °F)	0 – 150 °C (32 – 302 °F)
Operating pressure		0 – 16 barg (0 – 232 psi)			0 - 50 barg (0 -725 psi)	0 - 50 barg (0 -725 psi)
Differential pressure (dry)	10 mbar (0,145 psi)	20 mbar (0,290 psi)	80 mbar (1,160 psi)	60 mbar (0,870 psi)	20 mbar (0,290 psi)	60 mbar (0,870 psi)
Differential pressure (wet)	20 mbar (0,290 psi)	40 mbar (0,580 psi)	190 mbar (2,756 psi)	N/A	N/A	N/A
Particle retention (nominal)	99,99 % (3 µm)	99,9999 % (1 µm)	99,9999 % (0,01 µm)	N/A	N/A	N/A
Particle retention ISO[(3)]	95 %	99,8 %	99,9994 %	N/A		N/A
Residual oil content [(4)]	N/A	< 0,5 mg/m³	< 0,01 mg/m³	< 0,005 mg/m³	N/A	N/A
Capacity (ISO12500-2) [(5)]	N/A	N/A	N/A	20 min	N/A	N/A
Solid particle size purification (µm)	N/A	N/A	N/A	N/A	20	1

[(3)] Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 V/P, MPPS-(5μm); 06050 ZP/R, XP/S, MPPS-(0,3μm)
[(4)] Tested according to ISO12500-1, 06050 XP/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³
[(5)] Tested according to ISO12500-2, 06050 A/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[(6)] Cross reference Omega Air – Zander filtration grades: P=V/P=V, R=ZP/R=ZP, S=XP/S=XP, A=A/A=A, D/PIW=D (1µm or 20µm)
[(7)]For operating temperatures below 0°C please contact us or your local dealer

Omega Air d.o.o. Ljubljana
Cesta Dolomitskega odreda 10
1000 Ljubljana, Slovenia

Tel: +386 (01) 200 68 00
Fax: +386 (01) 200 68 50

e-mail: info@omega-air.si
www.omega-air.si

SIZES

	DIMENSIONS [mm]
OZA 09T _/_	Ø=62; h=69
OZA 13T _/_	Ø=62; h=127
OZA 14T _/_	Ø=86; h=253
OZA 18T _/_	Ø=86; h=500
OZA 19T _/_	Ø=86; h=759

ø=Diameter; h=Height

MATERIALS

	V/P	ZP/R	XP/S	S/A	D/PIW
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Glass fibre, borosilicate microfibers	Sintered INOX 1.4404
Support media	Polyester	/	/	/	/
Drainage media	/	Polyurethane	Polyurethane	/	/
Adsorption media	/	/	/	Activated carbon granulate PES (Polyester)	/
Support (inner-outer)	Stainless steel 1.4301				
Bonding	Epoxy				Welded design
Endcaps	Stainless steel 1.4301				
Sealing	Viton				

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 V/P, ZP/R, XP/S at least once per year or when pressure drop reaches 350mbar.
Replace filter element grade A/A at least every 6 months.

D/PIW filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depend on application. If necessary, replace filter element with new one.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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Omega Air d.o.o. Ljubljana
Cesta Dolomitskega odreda 10
1000 Ljubljana, Slovenia

Tel: +386 (01) 200 68 00
Fax: +386 (01) 200 68 50

e-mail: info@omega-air.si
www.omega-air.si