



GO SERIES COMPRESSED AIR FILTERS

Manufacturing Forward





Mikropor began its journey in 1987 with a passion to create "Tomorrow's Technology" and has become one of the leading manufacturers of atmospheric air filtration solutions and compressed air treatment systems for a variety of industries.

By closely following the latest developments in technology, Mikropor's "Best in Class" products and solutions are appreciated by customers in more than 100 countries.

The company's sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to technology. Mikropor is an environmentally conscious company that values people, while developing products that extend the needs and expectations of customers.

With this mission, Mikropor continues to become one of the most recognized brands in the world by expanding its global penetration in the field of technological filtration and contributes to a healthier planet.

www.mikropor.com

GO SERIES COMPRESSED AIR FILTERS

Mikropor GO Series Compressed Air Filters are designed for easy element replacement for "zero clearance" ability.

Features

The air filters have four efficiency ratings, removing contaminants as small as 0.01 micron at up to 20 barg (290 psig) - 1/4" to 3" NPT/BSP pipe sizes. A protected auto float drain is standard for optimal and reliable removal of liquid contaminants.

These air filters have zero-porosity aluminium and durable epoxy powder-coat finish, along with a corrosion resistant internal coating for a long service life.

Filter combinations are configured to meet specific application requirements. Filters comply with PED and perform as per related ISO 8573 standards.

These filters may be equipped with differential pressure gauges for easy maintenance and energy efficiency. Mikropor compressed air filters are always recommended with this system.

Element Features

Mikropor offers superior protection - from 1 micron to 0.01 micron. Durable element construction and efficient drain layer ensures continued performance with optimal element change intervals. Elements are also easy to replace with the head clips.

Mikropor Elements Have Been Designed for Easy Handling

1. Deep pleating also enables a lower pressure drop.
2. Supreme collapse resistance due to usage of fluted stainless tube, providing strength against pressure drops while improving the performance by passing air diagonally through the element.
3. Synthetic drop layer favors water/oil drainage.



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Head Clamping

Head Clamping provides serial connection of filters without any extra piping.

Drainage Ribs

Drainage Ribs favors the humidity flow.

Correction Factor

For maximum flow rate, multiply model flow rate show in the above table by the correction factor corresponding to the working pressure.

Operating Pressure (barg)	psig	Correction Factor
1	14	0.50
3	44	0.71
5	72	0.87
7	100	1.00
9	130	1.12
11	160	1.22
13	188	1.32
15	218	1.44
16	232	1.50
18	260	1.57
20	290	1.63

Zero Clearance

A major innovation for servicing the zero clearance design gives a quicker, easier, simpler filter change, with no need for any specialist tools.

Anodising

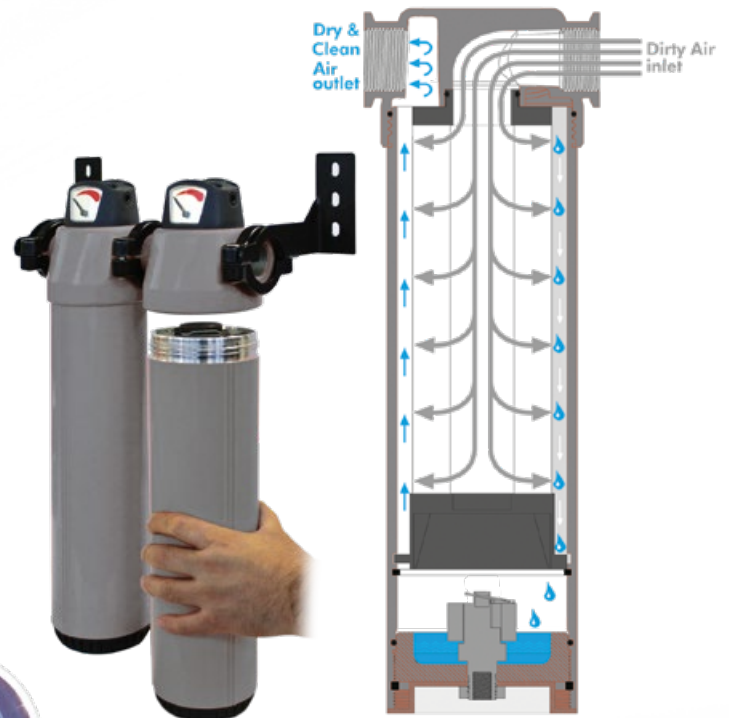
Anodising provides supreme corrosion resistance. Anodised surface treatment is proven to be better than other surface treatment methods such as Alocrome coating. Contact Mikropor to get Comparison Test results between competitor filters with Alocrome coating and Mikropor Filters with Anodising treatment.



With Anodising



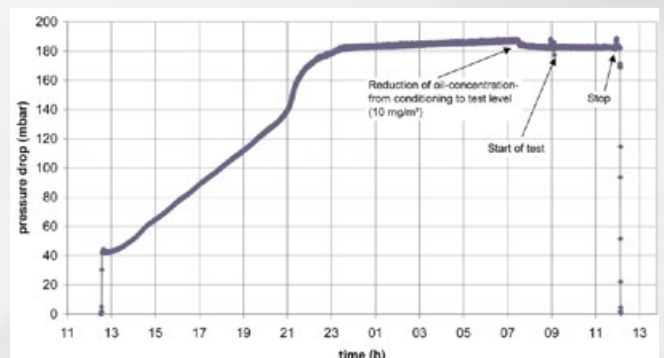
Without Anodising



Independent Test Report as Per ISO 12500-1

Filter element:	M50Y		
Element	002		
Standard parameters and measuring results			
Measuring parameters	unit	standard	Test
Calendar date of test			28./29.09.10
Inlet temperature	°C	20 ± 5	18,5 ± 0,5
Inlet pressure	bar (e)	7	7
Ambient temperature	°C	20 ± 5	17,5 ± 0,5
Inlet dew point	°C	≤ 10 °C	0 - 4
Main flow through the test filter	m³/h		50
Partial flow	m³/h		5,1
Time of conditioning	h		20,38
Measuring time	h		2,75
Inlet oil concentration at conditioning	mg/m³		23 ± 1
Inlet oil concentration at test	mg/m³	10 ± 10%	10 ± 1
Residual oil concentration	mg/m³		0,01
Pressure drop filter element	mbar		183
Remarks	mouth of probe oil-free		
Test carried out by			
Signature			

Mikropor M50Y-2 at 50 m³/h ANR - 7 bar(e)
28.-29.09.10



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Technical Specifications

Model	Connection Size			Flow Rate		Max. Working Pressure (barg)	Element Model	Housing Dimensions (mm)			
				(m³/h)	(cfm)			A	B	C	D
GO20	-	1/4"	-	20	12	20	MO20	75	45	193	175
GO25	-	3/8"	-	25	15	20	MO40	75	45	193	175
GO40	1/4"	3/8"	1/2"	40	24	20	MO25	102	45	215	193
GO50	1/4"	3/8"	1/2"	50	30	20	MO50	102	45	215	193
GO100	3/8"	1/2"	-	100	58	20	MO100	102	45	253	231
GO150	1/2"	3/4"	1"	150	88	20	MO150	123	45	298	271
GO200	3/4"	1"	-	200	117	20	MO200	123	45	362	335
GO250	3/4"	1"	-	250	147	20	MO250	123	45	402	375
GO300	1"	1 1/4"	1 1/2"	300	176	20	MO300	123	45	458	423
GO500	1 1/4"	1 1/2"	-	500	294	20	MO500	123	45	488	453
GO600	1 1/4"	1 1/2"	-	600	353	20	MO600	123	45	533	498
GO851	1 1/4"	1 1/2"	2"	851	500	20	MO851	160	45	623	581
GO1210	2"	-	-	1210	712	20	MO1210	160	45	693	651
GO1520	2"	2 1/2"	3"	1520	930	20	MO1520	194	45	726	669
GO1820	2 1/2"	3"	-	1820	1140	20	MO1820	194	45	865	808
GO2220	3"	-	-	2220	1380	20	MO2220	194	45	920	863
GO2700	3"	-	-	2700	1541	20	MO2700	194	45	1064	1007

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon	Indicator Type
Grade	P	X	Y	A	Differential Pressure Gauge with Manual Reset
Particle Removal (Micron)	5	1	0.01	0.01	Drain Type
Max. Oil Carryover at 21°C (mg/m³)	5	0.1	0.01	0.003	
Max. Working Temperature (°C)	80	80	80	50°C*	Electro-Adjustable
Initial Pressure Loss (mbar)	40	80	100	80	External Float Type
Pressure Loss for Element Change (mbar)	700	700	700	700	Zero-Loss Drain
Element Color Code	White	White	White	Metal SS	Manual

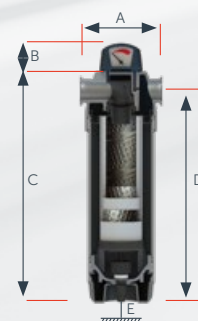
*For 0.003 mg/m³ quality oil in the air, the inlet temperature should be 25°C

Notes

- 1) Grade A must not operate in oil saturated conditions.
- 2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
- 3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
- 4) Flow rates are based on a 7 barg operating pressure, for flows at other pressures use correction factor given above.
- 5) All filters are suitable for use with mineral and synthetic oils.
- 6) Gauge type pressure indicators are fitted to models GO25 to GO2700 as standard.
- 7) All filters are in conformity with the Pressure Equipment Directive (97/23/EC).
- 8) Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction as per ISO 7183 standard.

Ordering

The complete filter model number contains the size and grade, example - "1" general purpose filter model GO250MX with replacement filter element model MO250X. "250" Represent 250 m³/h capacity and "X" represents the general purpose element.



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