

### GO Series Compressed Air Filters

New addition to our G series, Mikropor "GO" series compressed air filters are designed for easy element replacement for "zero clearance" ability.

#### Features

The air filters have four (4) ranges of efficiencies, removing contaminants as small as 0.01 micron at up to 290 psi (20 barg) - 1/4" to 3" NPT/BSP pipe sizes. A protected auto float drain (2mm orifice) is standard for optimal and reliable removal of liquid contaminants.

These air filters have zero-porosity aluminum 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.

Filter 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 after optimal element change. Elements are also easy to replace with the head clips.



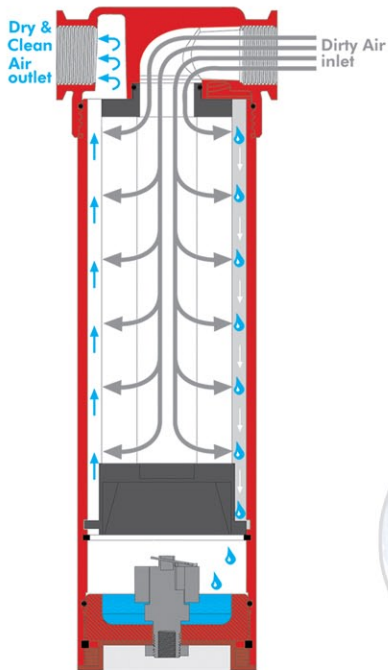
**TO REMOVE THE ELEMENT  
TWIST CLOCKWISE**



**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 provides strength against pressure drops while improving the performance by passing air diagonally through the element.
- 3- PVC impregnated foam favours Water / Oil drainage

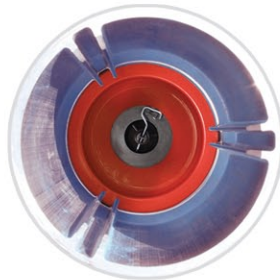


## Head Clamping

Head Clamping provides serial connection of filters without any extra piping

## Drainage Ribs

Drainage Ribs favours the humidity flow.



## Zero Clearance

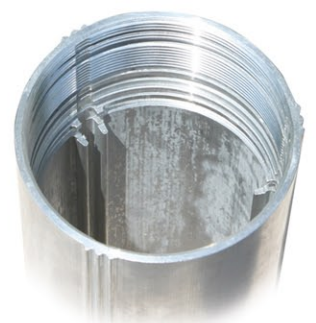
A major innovation for end user is the zero clearance design. Provides for an easier bowl removal without using tool.

## 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

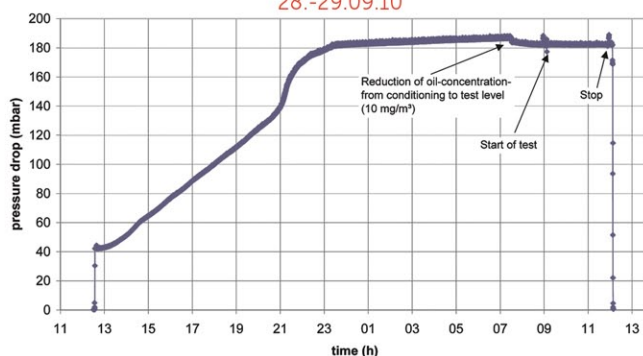


Without Anodising

## Independent test report as per ISO12500 - 1

Filterelement:	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 50m³/h ANR - 7 bar(e)  
28.-29.09.10





## Technical Specifications

Model	Connection Size			Flow Rate		Max. working pressure (barg)	Element Model	Housing Dimensions (mm)				
				(m³/h)	(scfm)			A	B	C	D	E
GO20	-	1/4"	-	20	12	20	MO20	75	45	193	175	100
GO40	-	3/8"	-	40	24	20	MO40	75	45	193	175	100
GO25	1/4"	3/8"	1/2"	25	15	20	MO25	102	45	214,5	192,5	125
GO50	1/4"	3/8"	1/2"	50	30	20	MO50	102	45	214,5	192,5	125
GO100	3/8"	1/2"	-	100	58	20	MO100	102	45	252,5	230,5	165
GO150	1/2"	3/4"	1"	150	88	20	MO150	123	45	297,5	270,5	205
GO200	3/4"	1"	-	200	117	20	MO200	123	45	361,5	334,5	265
GO250	3/4"	1"	-	250	147	20	MO250	123	45	401,5	374,5	315
GO300	1"	1 1/4"	1 1/2"	300	176	20	MO300	123	45	458	422,5	365
GO500	1 1/4"	1 1/2"	-	500	294	20	MO500	123	45	488	452,5	395
GO600	1 1/4"	1 1/2"	-	600	353	20	MO600	123	45	533	497,5	440
GO851	1 1/4"	1 1/2"	2"	851	500	20	MO851	160	45	622,5	581	495
GO1210	2"	-	-	1210	712	20	MO1210	160	45	692,5	651	565
GO1520	2"	2 1/2"	3"	1520	930	20	MO1520	194	45	725,5	669	445
GO1820	2 1/2"	3"	-	1820	1140	20	MO1820	194	45	865	808	565
GO2220	3"	-	-	2220	1380	20	MO2220	194	45	919,5	863	615
GO2700	3"	-	-	2700	1541	20	MO2700	194	45	1063,5	1007	695

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	<b>P</b>	<b>X</b>	<b>Y</b>	<b>A</b>
Particle Removal (Micron)	5	1	0,01	0,01
Max. Oil carryover at 21°C (mg/m³)	5	0,5	0,01	0,003
Max. working temperature (°C)	80	80	80	25
Initial pressure loss (mbar)	40	80	100	80
Pressure loss for element change (mbar)	700	700	700	700
Element colour code	WHITE	WHITE	WHITE	METAL SS

### INDICATOR TYPE

Gauge with or without electrical contact

### DRAIN TYPE

Electro - adjustable

External float type

Zero-loss Drain

Manual

## Correction Factor

Operating Pressure (barg)	1	3	5	7	9	11	13	15	16	18	20
PSIG	15	44	73	100	131	160	189	218	232	261	290
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,50	1,57	1,63

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

### 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 bar 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)

**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 250m³/h capacity and x represents the general purpose element.

