G SERIES
COMPRESSED AIR FILTERS

Mikropor Compressed Air Filters have been designed to meet all requirements of the compressed air filtration world. These air filters provide more comfortable usage for end users with an increased endurance, higher efficiency at lower pressure drop and more port size options.

Filtration

Due to our usage of deep pleating technique, the filtration area is significantly increased remarkably, which leads to a better filtration and higher dirt holding capacity. Mikropor Compressed Air Filters have been designed to remove air borne contamination in compressed air stream, delivering energy efficient operation and reliable performance.

Features

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

These air filters have a 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.

Types of Compressed Air Filters

P Pre-Filter / Particulate Filter
(Filter/Element air flow direction is outside to inside)

X General Purpose Filter / Water Removal
(Filter/Element air flow direction is inside to outside)

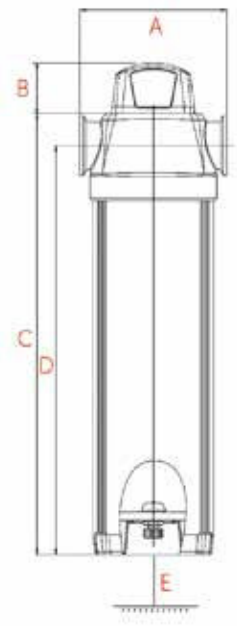
Y Coalescing Filter / Oil Removal
(Filter/Element air flow direction is inside to outside)

A Activated Carbon Filter / Odor Removal
(Filter/Element air flow direction is outside to inside)

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 (bar)	PSI	Correction Factor
1	15	0.5
3	44	0.71
5	73	0.87
7	100	1
9	131	1.12
11	160	1.22
13	189	1.32
15	218	1.44
16	232	1.50
18	261	1.57
20	290	1.63



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Technical Specifications

Model	Connection Size			Flow Rate		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
				(m^3/h)	(cfm)			A	B	C	D	E
G20	-	1/4"	-	20	12	20	M20	75	45	193	175	100
G40	-	3/8"	-	40	24	20	M40	75	45	193	175	100
G25	1/4"	3/8"	1/2"	25	15	20	M25	102	45	219.5	197.5	125
G50	1/4"	3/8"	1/2"	50	30	20	M50	102	45	219.5	197.5	125
G100	3/8"	1/2"	-	100	58	20	M100	102	45	257.5	235.5	165
G150	1/2"	3/4"	1"	150	88	20	M150	123	45	302.5	275.5	205
G200	3/4"	1"	-	200	117	20	M200	123	45	366.5	339.5	265
G250	3/4"	1"	-	250	147	20	M250	123	45	406.5	379.5	315
G300	1"	1 1/4"	1 1/2"	300	176	20	M300	123	45	463	427.5	365
G500	1 1/4"	1 1/2"	-	500	294	20	M500	123	45	493	457.5	395
G600	1 1/4"	1 1/2"	-	600	353	20	M600	123	45	538	502.5	440
G851	1 1/4"	1 1/2"	2"	851	500	20	M851	160	45	625.5	583.8	495
G1210	2"	-	-	1210	712	20	M1210	160	45	695.5	653.8	565
G1520	2"	2 1/2"	3"	1520	930	20	M1520	194	45	730	672	445
G1820	2 1/2"	3"	-	1820	1140	20	M1820	194	45	870	813	565
G2220	3"	-	-	2220	1380	20	M2220	194	45	924	867	615
G2620	3"	-	-	2620	1541	20	M2620	194	45	1068	1011	695

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	**P**	**X**	**Y**	**A**
Particle Removal (Micron)	5	1	0.01	0.01
Max. Oil Carryover at 21°C (mg/m^3)	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 Color Mode	White	White	White	Metal SS

Indicator Type
Gauge with or without electrical contact

Drain Type
Electro - Adjustable
External Float Type
Zero-loss Drain
Manual

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 G20 to G2620 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 G250MX with replacement filter element model M250X. 250 Represent 250 m^3/h capacity and X represents the general purpose element.