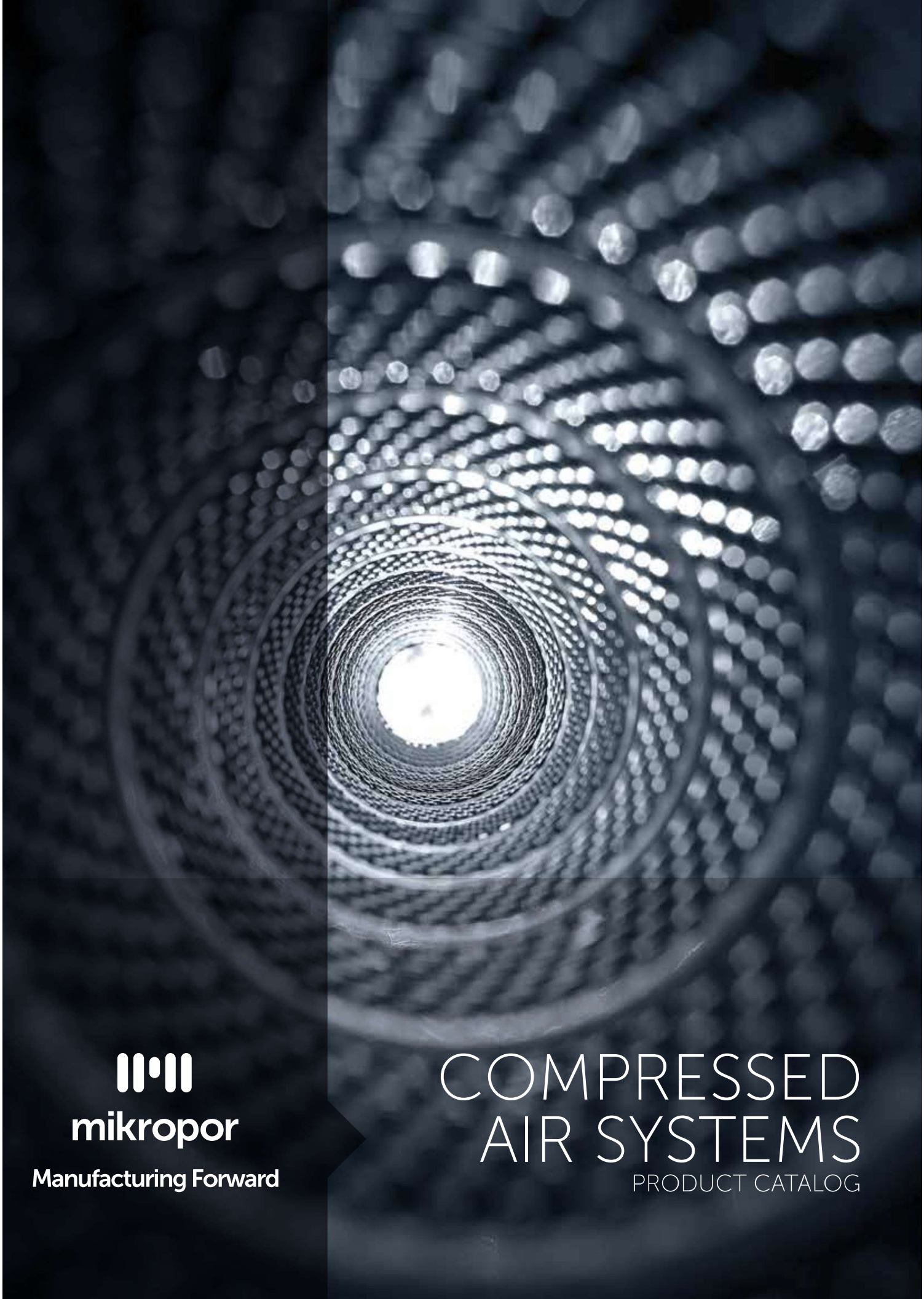


mikropor

Manufacturing Forward

COMPRESSED AIR SYSTEMS

PRODUCT CATALOG


mikropor

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 systems for a variety of industries.

As the company continues to create its own technology and shapes the industry with its innovative approach, Mikropor's "Best in Class" products and solutions are appreciated by customers in more than 140 countries.

The company's sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to its people. The philosophy of producing the future from today has been adapted in all processes that make up the company; from production to human resources management, from research and development to logistics systems.

Mikropor's motto, "Manufacturing Forward" predicates that the company strives to carry the same philosophy into the future with its environmentally friendly manufacturing principles that contribute to a cleaner and healthier planet.

02

FILTRATION AND SEPARATION

FILTRATION AND SEPARATION

AIR FILTERS

Air Filters for Air Compressors

Mikropor Air Filters are the first line of defence for any air compressor and have a significant impact on the service life of the compressor, lubricant, air/oil separators and oil filters.

Mikropor offers the highest efficiency air intake filters in the market, outperforming the competition and delivering more value to customers.

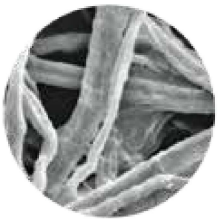
Micro-Glass and Mini-Pleat System in Air Filters

Our Micro-Glass Mini-Pleated Air Filters reach a 99.99% efficiency faster than cellulose air filters and provide better protection by allowing fewer contaminants to pass through the media.

Mikropor Nano Media holds up to five times more contaminants than conventional cellulose air filters, making them ideal for extended maintenance periods.

Equal
Space System

Micro-Glass Fiber
at x500
Magnification



Cellulose Fiber
at x500
Magnification

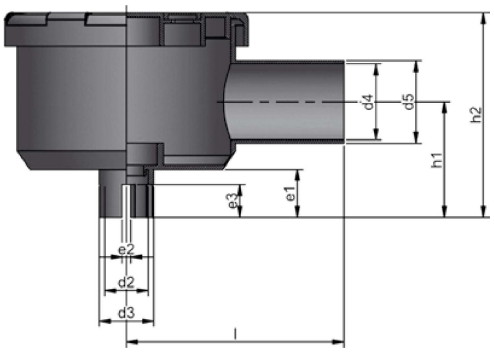
Mikropor Micro-Glass fibers are very fine nano scale fibers and are eighty times smaller in diameter than cellulose fiber. This results in extremely high initial efficiency and protects the air compressor better than any filter available in the market. The Mikropor Mini-Pleat system guarantees equal space between each filter pleat and maintains "V" pleated geometry throughout the service life of the filter. As a result, 100% of the surface area performs equally and delivers the expected protection, while minimizing pressure drops.

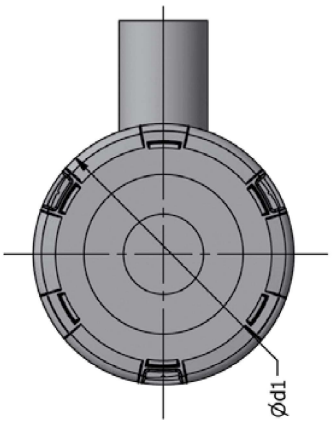
AIR INTAKE FILTERS MIKROLINE SERIES

Mikropor's air intake elements are designed for the removal of dust or particulate in the air intake systems of compressors, machines, pumps, blowers, etc. Based on the density of the dust load, Mikropor offers two series with different sizes and capacities: Mikroline and Makroline.

Applications

Mikroline Air Intake Filters are well suited for applications with low dust loads such as power generators, piston compressors, as well as air cleaner ventilation of gear units and the filtration of liquid tanks.





General Working Conditions

Type	Overall Design	Volumetric Flow Range (m^3/min)	Continuous Operating Temperature	Short Time Maximum Operating Temperature
Mikroline Air Intake Filters	Highly Reliable Plastic Air Cleaner Housing with High Quality Element	1 m^3/min to 4 m^3/min	-30°C to +100°C	+120°C

Dimensions

Model	d1	d2	d3	d4	d5	e1	e2	e3	e4	h1	h2	l	Nominal Flow Rate (m^3/min)	Compressor Connection Type
MIFH-0120	112	20	25	35	38	22	4	15	-	53	94	100	1	Internal Tightened
MIFH-0130	112	30	35	35	38	22	4	15	-	53	94	100	1	Internal Tightened
MIFH-0140	112	40	45	35	38	22	4	15	-	53	94	100	1	Internal Tightened
MIFH-0240	140	40	45	35	38	22	4	15	-	67	114	120	2	Internal Tightened
MIFH-0252	140	52	57	35	38	22	16.25	15	8.125	67	114	120	2	Internal Tightened
MIFH-0260	140	60	65	35	38	22	4	15	-	67	114	120	2	Internal Tightened
MIFH-0271	140	71	76	35	38	22	4	15	-	67	114	120	2	Internal Tightened
MIFH-0452	181	52	57	58	60	22	16.25	15	8.125	102	164	154.5	4	Internal Tightened
MIFH-0460	181	60	65	58	60	22	4	15	-	102	164	154.5	4	Internal Tightened
MIFH-0471	181	71	76	58	60	22	4	15	-	102	164	154.5	4	Internal Tightened

Note: Measure unit is mm

AIR INTAKE FILTERS MAKROLINE SERIES

Design

Mikropor Makroline Air Intake Filters are designed to provide maximum performance for customers with extremely high dust capacity and low pressure drop air intake filter demands. Makroline filters are also suitable for use in higher temperature environments.

Applications

Mikropor Makroline Air Intake Filters are designed for medium and heavy dust load conditions for applications such as Air Compressors, Construction Machines, Agricultural Machines, Harvesting Machines, etc.

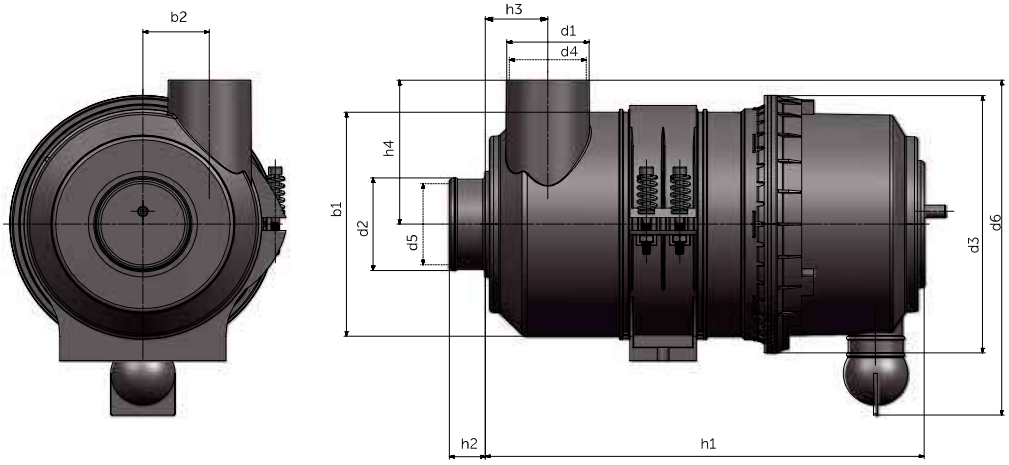
Easy and various mounting possibilities

Advantages

The advantages of Makroline Air Intake Filters are:

- Operational reliability,
- Long service life thanks to its highly efficient and reliable filter elements,
- Low pressure drop,
- Impact resistant corrosion free housing polypropylene,
- Excellent price/performance ratio.

Mikropor Makroline Air Intake Filters' user friendly and flexible bracket system provides the ability for easy installation. The brackets can be turned in various positions, providing numerous fitting possibilities. Mikropor's versatile production offers these brackets in different sizes.



General Working Conditions for Makroline Air Intake Filters

Type	Overall Design	Volumetric Flow Range (m^3/min)	Continuous Operating Temperature	Short Time Maximum Operating Temperature
Makroline Air Intake Filters	Highly Reliable Plastic Air Cleaner Housing with High Quality Element Center Tube in Housing Radial Seal	3 m^3/min to 28 m^3/min	-30°C to +80°C	+100°C

Technical Specifications

Model	b1	b2	d1	d2	d3	d4	d5	d6	h1	h2	h3	h4	Nominal Flow Rate (m^3/min)	Compressor Connection Type
MAFH-02030	164	48	55	30	185	52	23	245	263	27	43	103	1-3	External Clamped
MAFH-02040	164	48	55	40	185	52	33	245	263	27	43	103	1-3	External Clamped
MAFH-02050	164	48	55	50	185	52	43	245	263	27	43	103	1-3	External Clamped
MAFH-05040	179	50	62	40	200	58	34	260	330	27	47	112	2-5	External Clamped
MAFH-05050	179	50	62	50	200	58	44	260	330	27	47	112	2-5	External Clamped
MAFH-05060	179	50	62	60	200	58	54	260	330	27	47	112	2-5	External Clamped
MAFH-05070	179	50	62	70	200	58	63	260	330	27	47	112	2-5	External Clamped
MAFH-0350	142	45	52	50	160	49	47	209	292	26	56	94	3-4	External Clamped
MAFH-0360	142	45	52	60	160	49	57	209	292	26	56	94	3-4	External Clamped
MAFH-09070	230	67	82	70	251	78	63	320	388	27	55	145	4-9	External Clamped
MAFH-09090	230	67	82	90	251	78	83	320	263	27	43	103	4-9	External Clamped
MAFH-09100	230	67	82	100	251	78	93	320	263	27	43	103	4-9	External Clamped
MAFH-0870	200	53	94	70	226	89	64	293	263	27	43	103	8-10	External Clamped
MAFH-08100	200	53	94	100	226	89	94	293	330	27	47	112	8-10	External Clamped
MAFH-1270	200	53	94	70	227	89	64	293	330	27	47	112	12-14	External Clamped
MAFH-12100	200	53	94	100	227	89	94	293	330	27	47	112	12-14	External Clamped
MAFH-17100	297	86.5	110	100	323	104	93	399.5	330	27	47	112	17	External Clamped
MAFH-17110	297	86.5	110	110	323	104	103	399.5	292	26	56	94	17	External Clamped
MAFH-17130	297	86.5	110	130	323	104	123	399.5	292	26	56	94	17	External Clamped
MAFH-18100	322	90	132	100	352	127	95	432	413	34	79	212	18	External Clamped
MAFH-18110	322	90	132	110	352	127	105	432	413	34	79	212	18	External Clamped
MAFH-18130	322	90	132	130	352	127	125	432	413	34	79	212	18	External Clamped
MAFH-18150	322	90	132	150	352	127	145	432	413	34	79	212	20	External Clamped
MAFH-20100	322	90	132	100	352	127	95	432	443	34	79	212	20	External Clamped
MAFH-20110	322	90	132	110	352	127	105	432	443	34	79	212	20	External Clamped
MAFH-20130	322	90	132	130	352	127	125	432	443	34	79	212	22	External Clamped
MAFH-22100	322	90	132	100	352	127	95	432	473	34	79	212	22	External Clamped
MAFH-22110	322	90	132	110	352	127	105	432	473	34	79	212	22	External Clamped
MAFH-22130	322	90	132	130	352	127	125	432	473	34	79	212	24	External Clamped
MAFH-24100	322	90	132	100	352	127	95	432	503	34	79	212	24	External Clamped
MAFH-24110	322	90	132	110	352	127	105	432	503	34	79	212	24	External Clamped
MAFH-24130	322	90	132	130	352	127	125	432	503	34	79	212	26	External Clamped
MAFH-26100	322	90	132	100	352	127	95	432	533	34	79	212	26	External Clamped
MAFH-26110	322	90	132	110	352	127	105	432	533	34	79	212	26	External Clamped
MAFH-26130	322	90	132	130	352	127	125	432	533	34	79	212	28	External Clamped
MAFH-28100	322	90	132	100	352	127	95	432	563	34	79	212	28	External Clamped
MAFH-28100	322	90	132	110	352	127	105	432	563	34	79	212	28	External Clamped
MAFH-28130	322	90	132	130	352	127	125	432	563	34	79	212	28	External Clamped

AIR/OIL SEPARATORS

Why Mikropor Separators?

With over 3000 Air/Oil Separator designs for compressors, Mikropor offers multiple options for the full range of air flow and performance requirements.

Mikropor Air/Oil Separators

Conventional, pleated, depth construction, spin-on and state-of-the-art "sep-n-sep" design separators allow Mikropor to cover the air/oil separation needs of the entire compressor applications.

Dimensions

Air Flow Rates of Mikropor Air/Oil Separators (m^3/min @ 7 bar working pressure)

Air/Oil Separator Overall Height (mm)

Air/Oil Separator Body Diameter (mm)		150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
110	Conventional	1	2	2															
	3S	3	5	5															
	Sep-n-Sep®																		
135	Conventional	2	2	3	3	4	5												
	3S	4	5	6	8	8	9												
	Sep-n-Sep®																		
150	Conventional	2	2.5	3	4	5	5	6	7										
	3S	4	5	7	8	10	11	12	13										
	Sep-n-Sep®																		
170	Conventional	2	3	4	5	5	6	7	8	9	9								
	3S	4	6	8	10	11.5	13	14	16	17	19								
	Sep-n-Sep®																		
200	Conventional		3	5	5	7	7	8	9	10	11	12							
	3S		7	9	11	13	15	17	19	21	23	25							
	Sep-n-Sep®																		
220	Conventional			5	6	7	8	9	11	12	13	14	15	16					
	3S			10	13	15	17	19	22	23	26	28	30	33					
	Sep-n-Sep®																		
270	Conventional			7	8	9	10	12	13	15	16	17	19	20	22	23	24		
	3S			14	15	18	21	24	27	29	32	35	38	41	44	47	49		
	Sep-n-Sep®			21	23	27	31	36	40	44	48	52	56	61	66	70	73		
300	Conventional			8	9	10	12	13	15	17	18	20	21	23	24	26	28	29	31
	3S			15	18	21	24	27	30	34	37	40	43	46	49	53	57		
	Sep-n-Sep®			24	28	32	37	41	46	53	57	62	66	71	76	82	88		
350	Conventional				10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
	3S				20	24	28	32	36	40	44	48	52	56	60				
	Sep-n-Sep®				32	38	44	50	56	63	69	75	81	88	94				
375	Conventional				11	13	15	17	19	21	23	25	27	29	32	33	35	37	39
	3S				22	26	30	34	38	42	46	50	54	58					
	Sep-n-Sep®				34	40	47	54	60	66	72	79	85	91					
400	Conventional					15	17	19	21	23	25	27	29	32	34	36	38	40	42
	3S					30	34	37	42	46	51	55	59						
	Sep-n-Sep®					47	52	59	67	73	81	88	94						
470	Conventional						20	22	25	27	30	33	35	37	41	43	45	48	51
	3S						40	45	50	55									
	Sep-n-Sep®						63	71	79	87									
500	Conventional							24	27	30	33	36	39	42	45	48	51	54	56
	3S							50	55	60									
	Sep-n-Sep®							82	91	100									

AIR/OIL SEPARATORS

Conwrap Separators

Mikropor "Conwrap" Separators are standard wrapped style separators. These separators are designed for outside to inside flow and can be used with all oil injection Rotary Vane and Rotary Screw Compressors. Conwrap separators operate between 1 to 60 m^3/min flow rate at 7 bar with 1 to 3 mg/m^3 oil carry over.

CONWRAP

"3S" Depth Construction Air/Oil Separators

The revolutionary Mikropor "3S" Separator is designed to fit the smaller separator housings without sacrificing operating performance. The "3S" separator has double to tripled capacity when compared to a conventional separator with the same dimensions. The "3S" separator has 1/2 - 1/3 of the volume of a conventional separator functioning in the same operating conditions. This increased capacity is achieved with specially designed progressive type, deep bed, coalescing media using an increased number of wraps.

Pleated Air/Oil Separators

Pleated separators increase the media surface area to reach higher capacities while maintaining the dimensions. Mikropor manufactures dozens of pleated separator designs.

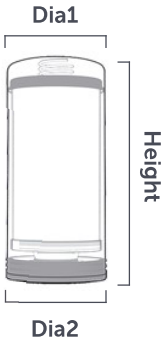
3S - SEPARATORS

PLEATED

Zero Spin-On Type Air/Oil Separators

Mikropor Spin-On Type Air/Oil Separators are manufactured as exchangeable elements. Because Spin-Ons do not require a compressor housing, they permit uncomplicated and quick replacement without dismantling the compressor. Spin-On Type Air/Oil Separators are available for 0,5 to 7 m^3/min flow rates operating at 7 bar.

Model	Maximum Flow Rate (m^3/min @ 7 bar)	Dia 1 (mm)	Dia 2 (mm)	Height (mm)
Zero 10	0,5	Ø79	Ø80	84
Zero 20	1	Ø79	Ø83	137
Zero 30	2	Ø97	Ø100	214
Zero 40	1.5	Ø97	Ø100	175
Zero 50	4	Ø110	Ø111	261
Zero 60	3	Ø138	Ø141	192
Zero 70	6	Ø138	Ø141	314
Zero 80	7	Ø138	Ø141	349



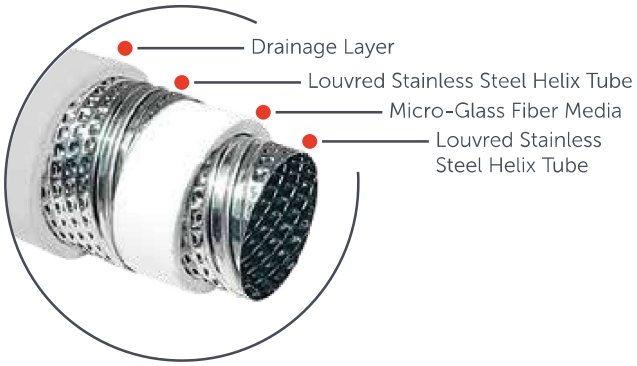
AIR FILTER ELEMENTS

Micro-Glass Fiber

High efficiency Micro-Glass nanofiber media (80 times finer than Cellulose Fiber) delivers higher targeted efficiencies, longer service life, wide chemical and synthetic lubricant compatibility even at extreme working temperatures.

Element 4 Levels

Mikropor offers four layers of Superior Protection-from 1 micron to 0.01 micron. Durable element construction and an efficient drain layer ensure continued performance with optimal element change periods.



Helix Tubes for Strength

Mikropor Compressed Air Filters have louvered stainless steel helix tubes providing increased strength and protection against severe pressure drops while improving performance by forcing air to pass diagonally through the element.

Synthetic Compatibility and Durable Epoxy

Mikropor Compressed Air Filters are compatible with all synthetic lubricants in the industry. Durable Epoxy securely bonds the robust end caps to the filter tubes and will not be affected by the synthetic lubricant in compressed air.

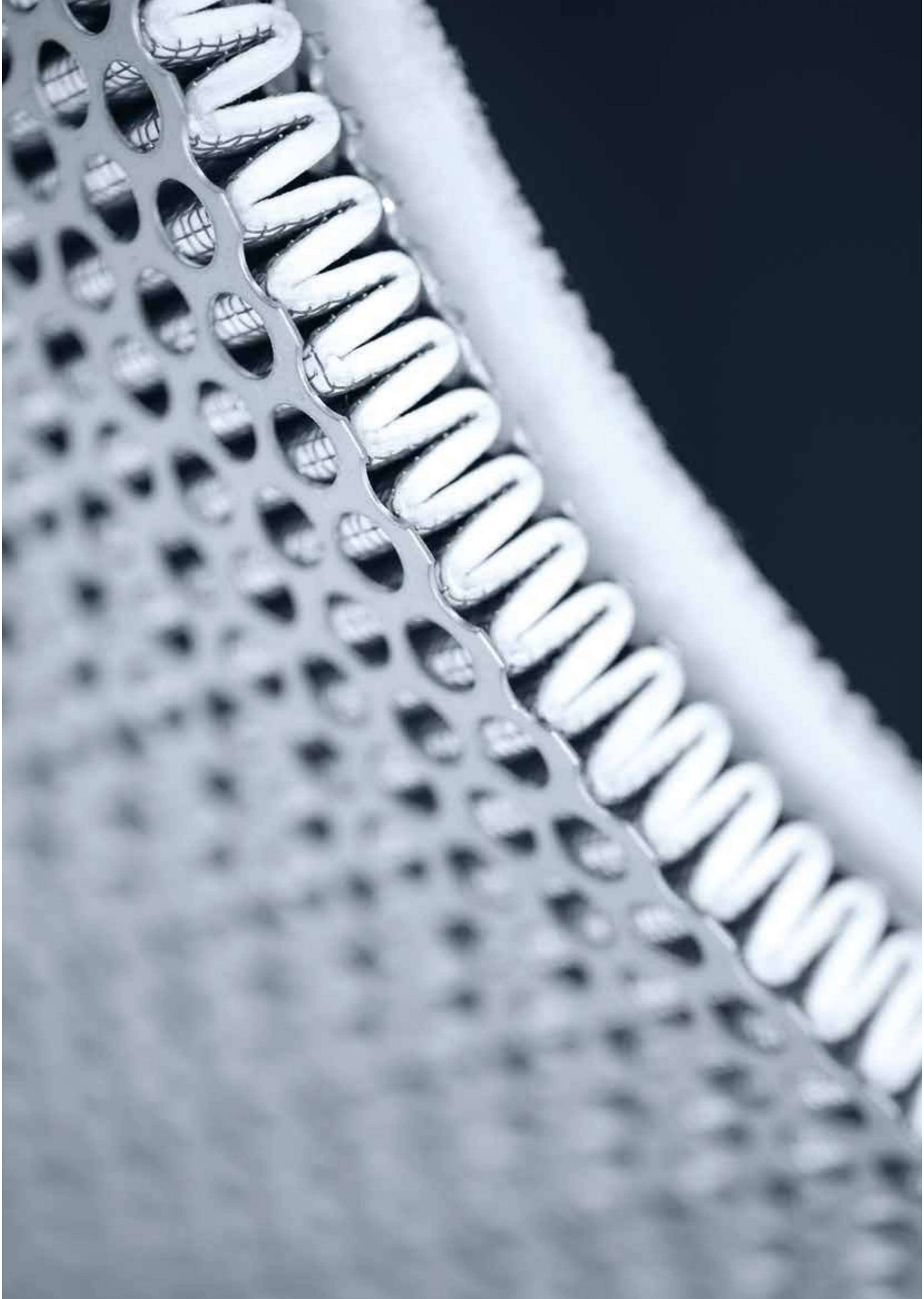
Test

With over 30 years of experience Mikropor manufactures the best performing replacement elements in the industry. Through rigorous testing and validation processes Mikropor assures that the replacement elements perform equal to or better than the original elements. Replacement elements have been designed and tested in ourstate-of-the-art test laboratories.

Mikropor labs are capable of making the following tests;

- Differential pressure at given flow rates
- Particle efficiency tests
- Oil aerosols measurements
- Pressure dew point

All tests are conducted as per the relevant ISO 12500 test standards.



REPLACEMENT ELEMENTS

- ALMIG
- ATLAS COPCO
- BEA
- COMPAIR
- DELTECH
- DOMNICK HUNTER
- DOMNICK HUNTER (Evolution Range)
- FAI FILTER
- HANKISON
- HIROSS
- KAESER
- MTA
- OMI
- ULTRA FILTER
- WALKER
- ZANDER

WATER SEPARATORS

Mikropor water separators have been designed for the removal of bulk liquid water and particulate from compressed air and gases. Unique centrifugal action removes contaminants at low-pressure drop for maximum energy saving.

Mikropor water separators are available from 1/4"-3" pipe sizes and for flows up to 2200 m^3/h (1294 cfm).

Note: While highly efficient, condensate separators will not remove 100% of the oil from the air stream. Additional coalescing and particulate filters downstream may be required to remove the fine traces of oil, water and particles.

Note: Automatic drain valves are fitted as standard. All separator bodies are coated with electrostatic powder paint finish both inside and out.

Correction Factor

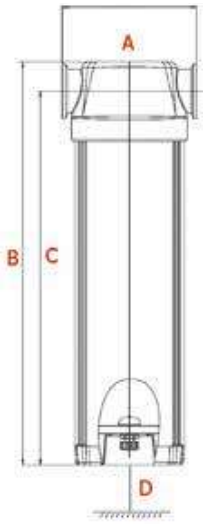
For maximum flow rate, multiply model flow rate show in the above table by the correction factor corresponding to the working pressure.

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	247	1.57

Technical Specifications

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

Model	Connection Size	Flow Rate		Housing Dimensions (mm)			
		(m^3/h)	(cfm)	A	B	C	D
G25WS	1/4"	25	14	103	257.5	236	160
G100WS	1/2"	100	58	103	257.5	236	210
G200WS	3/4"	200	117	123	304	277	285
G300WS	1"	300	176	123	304	277	380
G600WS	1 1/2"	600	353	123	320	285	470
G1200WS	2"	1200	706	160	484	443	560
G2200WS	3"	2200	1294	193	546	490	610



Max. Recommended Operating Temperature	Min. Recommended Operating Temperature	Typical Pressure Loss at Rated Flow	Max. Working Pressure
80°C	1.5°C	50 mbar	16 bar

FLANGED COMPRESSED WATER SEPARATORS

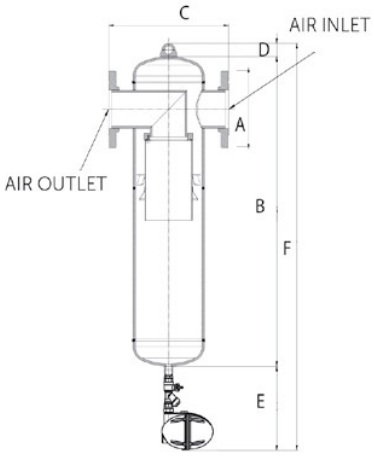
Mikropor flanged water separators have been designed for the removal of bulk liquid water and particulate from compressed air and gases. Unique centrifugal action removes contaminants at low-pressure drop for maximum energy savings. Mikropor flanged water separators are available from DN80-DN200 flange sizes and flows up to 14000 m^3/h (8236 cfm) **(For larger sizes please contact our sales team).**

Note: While highly efficient, condensate separators will not remove all of the oil from the air stream. Additional coalescing and particulate filters downstream may be required to remove the fine traces of oil, water and particles.

Correction Factor

For maximum flow rates, 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
14	200	1.38



Max. Recommended Operating Temperature	Min. Recommended Operating Temperature	Typical Pressure Loss at Rated Flow	Max. Working Pressure
80°C	1.5°C	50 mbar	14 bar

Technical Specifications

Model	Connection Size	Flow Rate		Housing Dimensions (mm)					
		(m^3/h)	(cfm)	A	B	C	D	E	F
F-2500WS	DN80	2500	1407.5	200	934	450	75	280	1289
F-3200WS	DN100	3200	1882.3	220	964	450	75	280	1319
F-4300WS	DN100	4300	2529.4	220	982	530	75	280	1283
F-6500WS	DN150	6500	3823.5	285	1092	580	75	280	1447
F-8500WS	DN150	8500	5000	285	1091	650	75	280	1446
F-11000WS	DN200	11000	6470.5	340	1168	750	75	280	1523
F-14000WS	DN200	14000	8235.2	340	1201	800	75	280	1556

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)

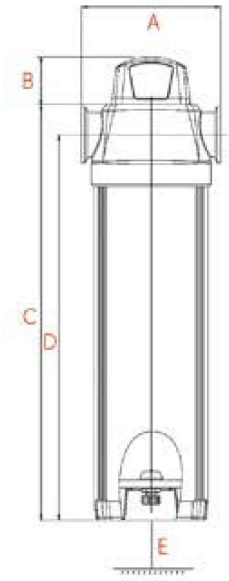
Y Coalescing Filter / Oil Removal
(Filter/Element air flow direction is inside to outside)

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



G SERIES COMPRESSED AIR FILTERS

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.

GO SERIES
COMPRESSED AIR FILTERS

New additional 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 efficiency ratings, removing contaminants as small as 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 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- PVC impregnated foam favors water/oil drainage.

GO SERIES
COMPRESSED AIR FILTERS

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 (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

Zero Clearance

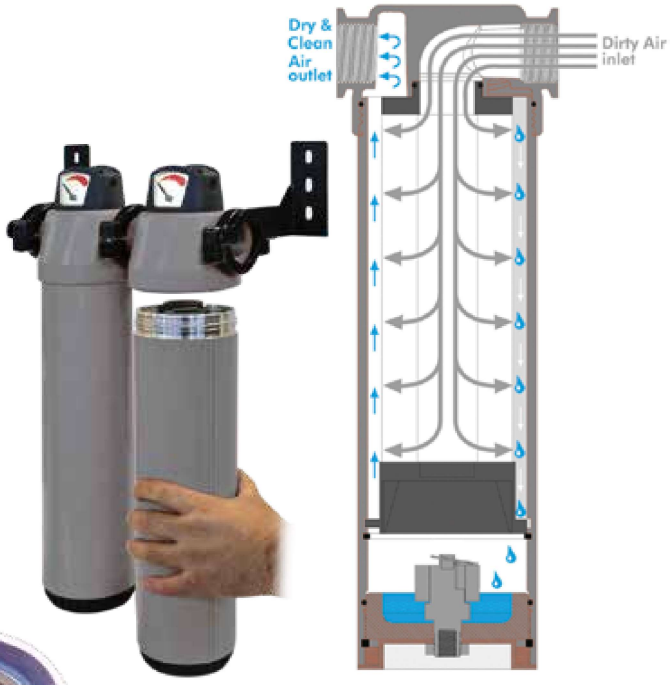
A major innovation for servicing the zero clearance design gives a quicker, easier, simpler filter change, with no need for any specialist tools.

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

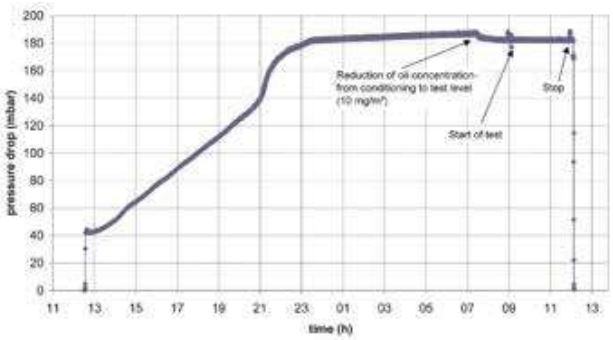
Without Anodising



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



GO SERIES COMPRESSED AIR FILTERS

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
GO20	-	1/4"	-	20	12	20	MO20	75	45	193	175	7
GO40	-	3/8"	-	40	24	20	MO40	75	45	193	175	7
GO25	1/4"	3/8"	1/2"	25	15	20	MO25	102	45	214.5	192.5	7
GO50	1/4"	3/8"	1/2"	50	30	20	MO50	102	45	214.5	192.5	7
GO100	3/8"	1/2"	-	100	58	20	MO100	102	45	252.5	230.5	7
GO150	1/2"	3/4"	1"	150	88	20	MO150	123	45	297.5	270.5	8
GO200	3/4"	1"	-	200	117	20	MO200	123	45	361.5	334.5	8
GO250	3/4"	1"	-	250	147	20	MO250	123	45	401.5	374.5	8
GO300	1"	1 1/4"	1 1/2"	300	176	20	MO300	123	45	458	422.5	8
GO500	1 1/4"	1 1/2"	-	500	294	20	MO500	123	45	488	452.5	8
GO600	1 1/4"	1 1/2"	-	600	353	20	MO600	123	45	533	497.5	9
GO851	1 1/4"	1 1/2"	2"	851	500	20	MO851	160	45	622.5	581	9
GO1210	2"	-	-	1210	712	20	MO1210	160	45	692.5	651	9
GO1520	2"	2 1/2"	3"	1520	930	20	MO1520	194	45	725.5	669	10
GO1820	2 1/2"	3"	-	1820	1140	20	MO1820	194	45	865	808	10
GO2220	3"	-	-	2220	1380	20	MO2220	194	45	919.5	863	11
GO2700	3"	-	-	2700	1541	20	MO2700	194	45	1063.5	1007	11

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

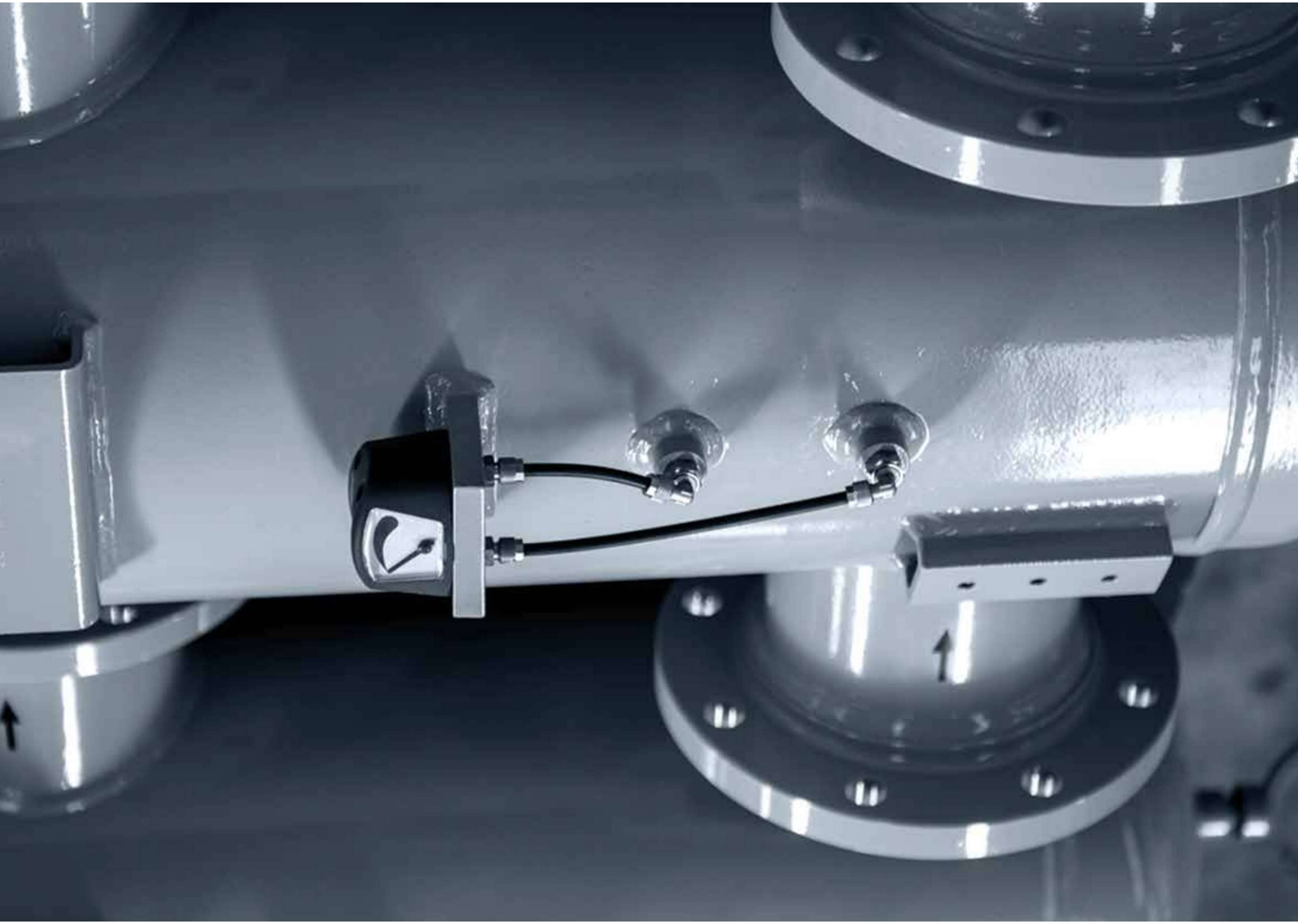
Drain Type
Electro-Adjustable
External Float Type
Zero-Loss Drain
Manual

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 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 250 m^3/h capacity and X represents the general purpose element.



FLANGED COMPRESSED AIR FILTERS

Features

- Elements are assembled with a tie rod system
- Two external float drains for maximum drainage
- Unique design for pre-separation zone
- Strong welded design
- CE and ASME tanks available
- Design for easy element change from top flange

External Float Drain

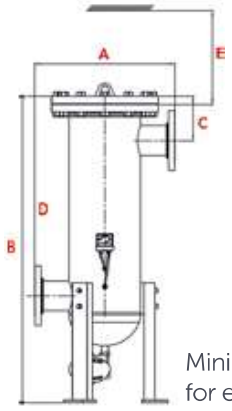
Mikropor external drain is designed to remove liquid condensation from collection points in a Compressed Air System.

Durable epoxy powder-coat finish and corrosion resistant internal anodised coating for longer service life.

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
14	200	1.38



Minimum clearance for element change

Minimum clearance for element change

High Performance Elements Inside




FLANGED COMPRESSED AIR FILTERS

Technical Specifications

Model	Drain Port Size	Inlet/Outlet Port Size	Flow Rate		Max. Working Pressure (bar)	Element Model	Number of Elements	Housing Dimensions (mm)				
			(m^3/h)	(cfm)				A	B	C	D	E
F2500	1/2"	DN80	2500	1470	14	M1200	2	450	1287	277	747	650
F3200	1/2"	DN100	3200	1880	14	M1200	3	450	1317	277	767	650
F4300	1/2"	DN100	4300	2530	14	M1200	4	530	1344	279	769	650
F6500	1/2"	DN150	6500	3825	14	M1200	6	580	1425	331	796	650
F8500	1/2"	DN150	8500	5000	14	M1200	8	650	1439	333	798	650
F11000	1/2"	DN200	11000	6470	14	M1200	10	750	1504	365	825	650
F14000	1/2"	DN200	14000	8235	14	M1200	14	800	1545	383	833	650
F17000	1/2"	DN250	17000	10000	14	M1200	16	850	1583	417	862	650
F21000	1/2"	DN300	21000	12350	14	M1200	17	850	1680	447	887	650
F25500	1/2"	DN350	25500	15000	14	M1200	23	850	1778	487	917	650
F30000	1/2"	DN350	30000	17650	14	M1200	28	850	1778	487	917	650

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

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

Notes

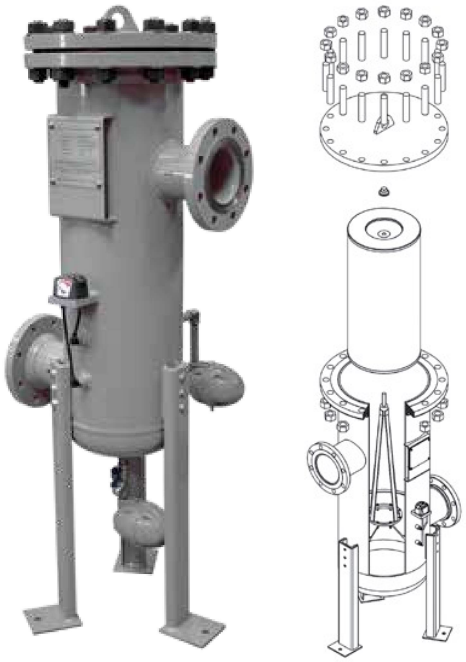
1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
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) Other standards for flanged connections are available.
7) Direction of air flow is inside to out, through filter element.

Ordering

The complete filter model number contains the size and grade, Example - pipe size NW100 oil removal filter with model filter F3200MY replacement filter element model M1200Y.

MIST ELIMINATOR COMPRESSED AIR FILTERS

- Ultra low pressure drop reduces energy costs
- Positive gasket seals eliminate media bypass
- Filter change out differential 170 mbar (2.5 psi)
- True Air/Oil Separator
- Long service life



Applications Include

- Capturing oil fog, mist, or smoke from exhaust and pressure unloading vents on oil flooded compressors, vacuum pumps and blowers
- Any application requiring Low Delta P coalescing of large air volumes
- Vacuum Freeze Drying
- Vacuum Out-Gasing and Vacuum Coating
- Food Processing
- Nailers/Staplers
- Industrial Vacuum Processes
- Cement & Paper Processing Design

Design

Mist Eliminators are designed to meet the demand for:

- Efficient removal of oil-mist carryover from piston or oil flooded rotary compressors
- Long service life
- Strength to withstand strenuous operating conditions
- Protection from oil slugs or compressor Air/Oil separator failure

Features

- Very low pressure drop
- Large oil catching efficiency
- Easy field cleaning
- Positive sealing O-rings
- Temperature (continuous) 4°C (40°F) min. 80°C (176°F) max.
- Auto Float Drain is standard
- Multiple drain style options available
- Pressure rating of 14 bar (200 psi)
- Removal of particles down to 0.01 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.01 ppm
- Increased surface area in a given volume allows low velocity separation of ultra fine oil mist
- Elements are grounded to canister, minimizing static electricity problems

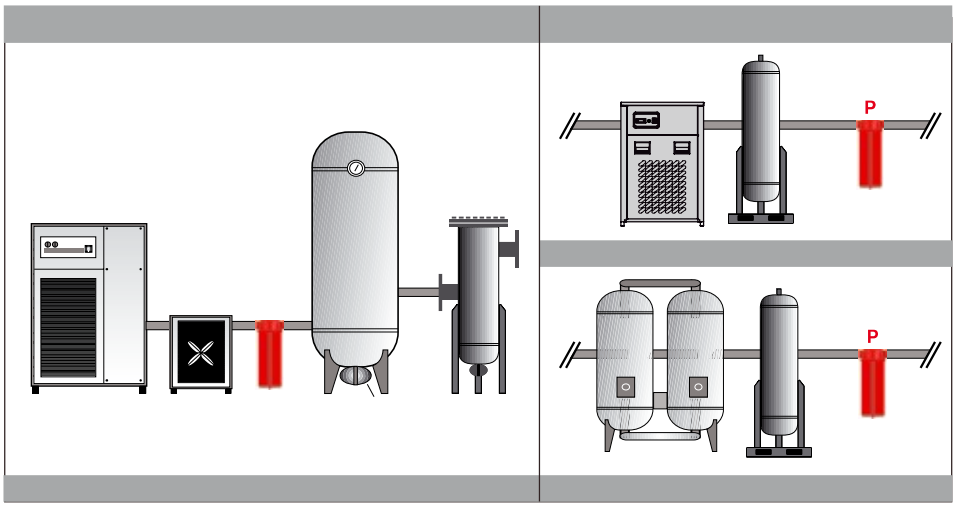
MIST ELIMINATOR COMPRESSED AIR FILTERS

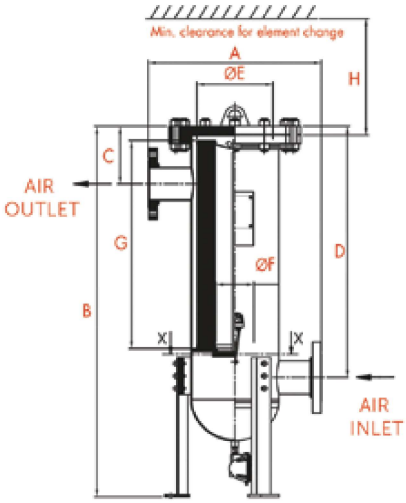
Correction Factor

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
14	200	1.38

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





Technical Specifications

Model	Drain Port Size	Inlet/Outlet Port Size	Flow Rate		Max. Working Pressure (bar)	Housing Dimensions (mm)							
			(m^3/h)	(cfm)		A	B	C	D	Ø E	Ø F	G	H
ELM-150	1/2"	DN50	255	150	14	500	1003	209	459	203	103	305	330
ELM-300	1/2"	DN50	510	300	14	500	1105	209	559	203	103	407	435
ELM-600	1/2"	DN50	1020	600	14	500	1461	209	916	203	103	762	790
ELM-800	1/2"	DN80	1360	800	14	500	1655	279	1084	203	103	915	950
ELM-1200	1/2"	DN80	2040	1200	14	500	1520	281	931	254	103	762	790
ELM-1600	1/2"	DN80	2720	1600	14	500	1671	281	1086	254	103	915	950
ELM-2100	1/2"	DN100	3570	2100	14	500	1575	335	953	300	129	762	790
ELM-2750	1/2"	DN100	4675	2750	14	500	1726	335	1100	300	129	915	950
ELM-4200	1/2"	DN150	7140	4200	14	500	1670	393	983	365	181	762	790
ELM-6000	1/2"	DN150	10200	6000	14	500	1925	393	1238	365	181	950	1045
ELM-8000	1/2"	DN200	13600	8000	14	500	2020	417	1277	386	233	1016	1045
ELM-10000	1/2"	DN250	17000	10000	14	500	2118	417	1307	407	337	1016	1045
ELM-12000	1/2"	DN300	20400	12000	14	500	2688	497	1847	437	337	1524	1550

HIGH PRESSURE COMPRESSED AIR FILTERS

High Pressure & High Performance

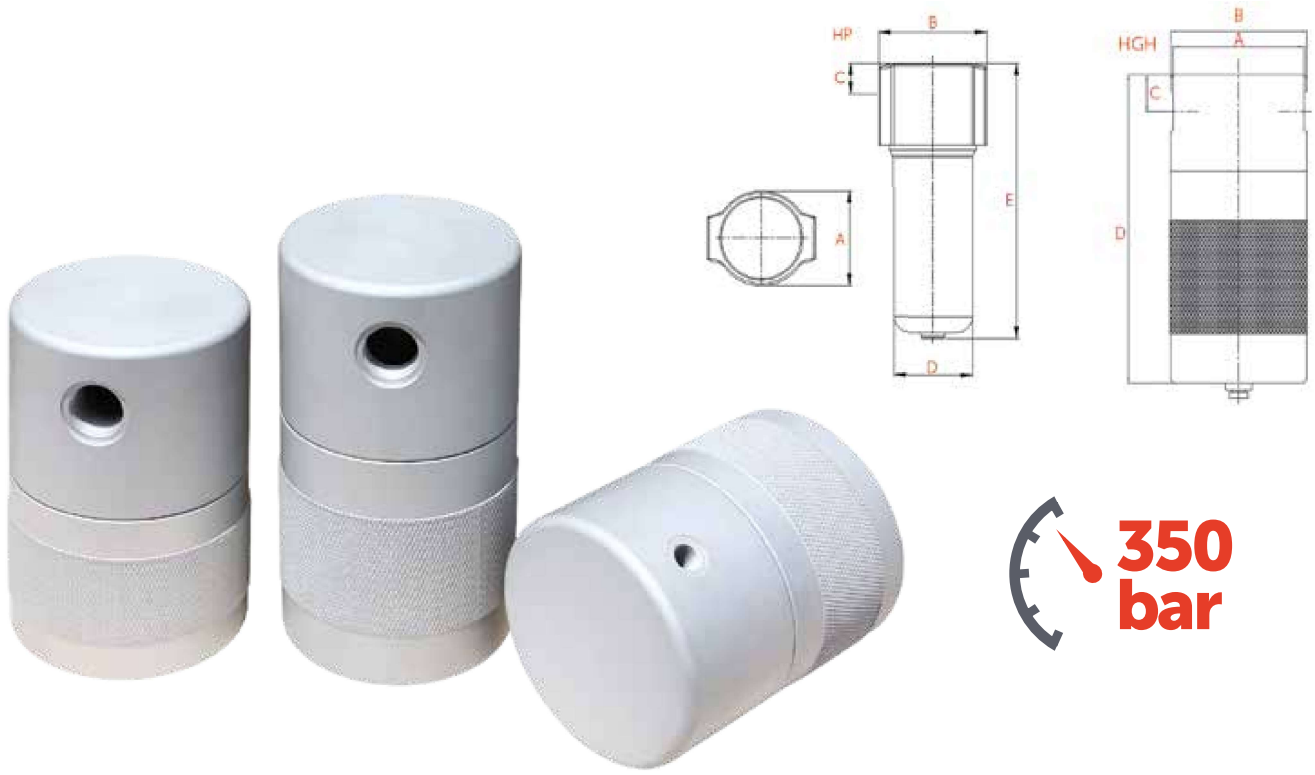
50 bar

Features

Mikropor manufactures a line of High Performance Compressed Air Filters, Moisture Separators in two different ranges;
50 bar range made of Aluminium. No welding, strong and reliable design.
350 bar range made of Steel. No welding and designed for reliability at very high pressure applications.

Anodised Aluminium Design with High Performance

Mikropor High Pressure Range Compressed Air Filters are NO-weld design. These Filters are built with ample wall thickness and as a result are extremely robust. In-house high pressure test facilities assure the performance. All inner and outer surfaces of 50 bar Aluminium design Filters are Anodised, where 350 bar Carbon Steel design Filters are epoxy electro powder coated.



350 bar

HIGH PRESSURE COMPRESSED AIR FILTERS

Technical Specifications

Model	Drain Port Size	Flow Rate at 50 bar		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
		(m^3/h)	(cfm)			A	B	C	D	E
HP100	1/4"	71	42	50	M25	106	119	30	88	201
HP300	1/2"	212	125	50	M50	106	119	30	88	201
HP600	3/4"	425	250	50	M100	106	119	30	88	201
HP850	1"	595	350	50	M150	123	140	39.5	103	357
HP1200	1"	850	500	50	M200	123	140	39.5	103	357
HP1600	1 1/2"	1600	940	50	M250	123	140	39.5	103	357
HP2500	2"	2500	1470	50	M2500	159	179	56	133	380
HP3000	2 1/2"	3000	1765	50	M3000	159	179	56	133	380

Model	Drain Port Size	Flow Rate at 350 bar		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)			
		(m^3/h)	(cfm)			A	B	C	D
HGH100	1/4"	102	60	350	M25	113.4	115.4	25.75	155
HGH300	1/2"	298	175	350	M50	113.4	115.4	25.75	158.5
HGH600	3/4"	595	350	350	M100	109.4	115.4	32.25	207
HGH850	1"	850	500	350	M150	133	138	37.35	250
HGH1200	1"	1190	700	350	M200	133	138	37.35	314
HGH1600	1 1/2"	2240	1317	350	M250	128	138	44.4	368
HGH2500	2"	3500	2058	350	M2500	145	158	51.5	393
HGH3000	2 1/2"	4200	2470	350	M3000	160	178	57.6	386

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

Drain Type
HP - Manual Brass Drain
HGH - Manual Brass Drain

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) Other standards for flanged connections are available.
7) Direction of air flow is inside to out, through filter element.

Ordering

The complete filter model number contains the size and grade, Example - 1/4" general purpose filter model HP100MX with replacement filter element model M100X.

mikropor

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