



MS series

Superfine compressed air filters



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In today's modern production equipments, the use of compressed air is so important to manufacturing processes. Irrespective of whether the compressed air comes into direct contact with the product or is used to automate a process, provide motive power, or even to generate other gases on-site, a clean, dry, Reliable compressed air supply is essential to maintain cost effective production.

Typically there are different conta-minations from the below sources and even more in critical applications that need to be removed or reduces to acceptable levels. Such as: Atmospheric dirt, Water vapour, Oil vapour, Micro-organisms.

Die-cast filter housing

M-PLUS filter housing adopts aluminium alloy die-cast, have tight struction and long time use. The internal and external of housing undergo cleaning, degreasing, anodic oxidation treatment before painting. Increasing anti-corrosion and durability.

Guaranteed for 10 years life under normal recommended use. The high quality traceable pressurised components ensure peace of mind and trouble free use.

The comparison of anti-corrosion treatment



Rapid corrosion of untreated aluminium.



No corrosion with treatment



Applications include

- Chemical
- Dental
- Electronics
- Emissions Monitoring
- Food & Beverage
- Instrumentation
- Laboratories
- Laser Cutting
- Manufacturing
- Military
- Oil & Gas
- Paint Applications
- Pharmaceutical Manufacturing
- Pneumatic Conveying
- Railway

Accessories benefits



Differential pressure indicator (SPI01) is fitted as standard on filters MS020 (½").



Differential pressure gauge (SPG01) is fitted as standard on filters MS040 (¾") and larger.



Pressure relief hole gives an audible warning if any attempt is made to remove filter bowl whilst under pressure.



Maintenance simple and quick.



Automatic drain (SD01) valve is fitted as standard on filters MS020 (½") to MS070 (1½").



Automatic float drain (HAD20B) is fitted as standard on filters MS120 (2") and larger.



Manual drain (SD02) valve is fitted as standard on filter MS040 (¾") and larger for rapid depressurisation and aut drain function check.



Sight glass (SG01) gives a visual check of liquid collection and drain function.

Filter element

Performance guarantee

All M-PLUS Superfine compressed air filters carry guaranteed for one year under normal recommended use.

The filter elements should be changed every year (8,000 hours) or earlier if the indicator/gauge changes to red.

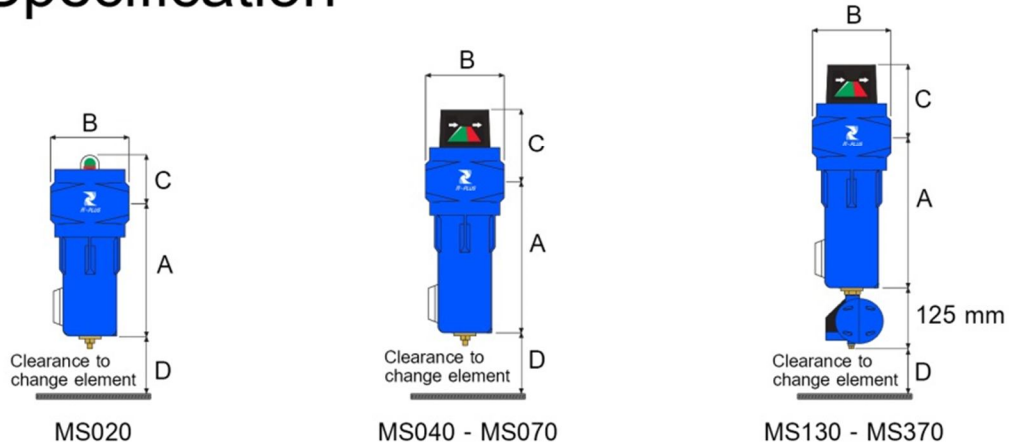
Activated carbon filter elements (grade Z) should be changed every 6 months or 1000 hours (whichever comes first).



Performance	Filter Grade	P		S		X		Z	
	Particle removal	5 micron		1 micron		0.01 micron		-	
	Maximum particle size class**	3		2		1		-	
	Maximum oil content	4		2		1		1	
	Maximum oil carry over at 20°C	5 mg/m ³		0.1 mg/m ³		0.01 mg/m ³		0.003 mg/m ³	
	Pressure loss: clean and dry	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
	Pressure loss: saturated	75 mbar	1.1 psi	150 mbar	2.2 psi	300 mbar	4.4 psi	-	-
	Pressure loss: element change	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	6 months	1000 hours
	Maximum working pressure	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig

**to ISO8573-1:2001 (E)

Technical Specification



Filter Model	Pipe Connection	Flow - Rate			Dimensions (mm)				Weight (Kg)	Filter Element (Model x No.)
		NL/min	Nm ³ /h	scfm	A	B	C	D		
MS020 (grade)	G ½"	2,000	120	71	194	89	60	130	1.1	SE020 (grade) x 1
MS040 (grade)	G ¾"	3,600	216	127	251	120	100	172	2.4	SE040 (grade) x 1
MS050 (grade)	G 1"	4,800	288	170	351	120	100	272	2.9	SE050 (grade) x 1
MS070 (grade)	G 1½"	8,700	522	307	351	120	100	272	2.9	SE070 (grade) x 1
MS130 (grade)	G 2"	13,800	828	487	441	162	109	320	9.1	SE130 (grade) x 1
MS200 (grade)	G 2"	20,800	1,248	735	770	162	109	625	12.9	SE200 (grade) x 1
MS260 (grade)	G 3"	27,000	1,620	954	509	200	123	400	11.9	SE260 (grade) x 1
MS370 (grade)	G 3"	38,000	2,280	1,342	786	200	123	625	20.9	SE370 (grade) x 1

Pressure correction factors	for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	
Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	
7 barg - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	

Standard Accessories

Accessories (Model)	Differential Pressure Indicator (SPI01)	Differential Pressure Gauge (SPG01)	Automatic Drain (SD01)	Automatic Float Drain (HAD20B)	Manual Drain (SD02)	Sight Glass (SG01)
MS020 (G ½")	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
MS040 (G ¾")		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS050 (G 1")		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS070 (G 1½")		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS130 (G 2")		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS200 (G 2")		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS260 (G 3")		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MS370 (G 3")		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Manufacture of filter element of air compressor system and vacuum system for industry and hospital