



M~PLUS PureAir Series

The art of nano compressed air filtration

M~PLUS



Compressed Air Filters

the art of nano technology

Nowadays, compressed air is necessary in the industrial production process. In fact, an amount of intake air only 1 Nm³ may contain more than a hundred million of dust particles which can extremely damage your machines and equipments. Moreover, these very tiny substances can pass easily through your compressor's intake filters while it can hardly be noticed.

In addition, those particles including water or oil vapor generated during the compression process are another key factor which leads to the damage or corrosion of machines and appliances. This means more expensive cost of production process and machinery maintenance has to be paid.

Therefore, it is important to select the proper quality air filters which suit your equipments to assure of the sufficient air delivery and appropriate filtration degree in order to increase or improve the performance of the whole mechanical system.



Features of our product:

- Extended current route to decrease pressure drop
- High grade aluminum-silicon and carbon-steel cartridge
- Water and corrosion resistant surface covered with epoxy resin
- Combined inlet and outlet with screw threads and air flow indicator on the cartridge for easy installation and control
- Various compact designs to fit different pipe sizes
- Update pressure indicator for timely warning of the need to replace the components
- Level indicator to monitor the critical level of downstream pollution prevention
- Reliable automatic drainage

Furthermore, we adopted an advanced technology of surface treatment used in the production process of our filter housings, both internal and external components, which can assure of extended usage period. Therefore, we offer a **10-year guarantee** from the date of installation. Pictures below show the differentiation between our product and the other's without similar quality treatment.



Do surface treatment OK No surface treatment NG



ISO - 8573 Part 1 Compressed Air Quality Class : 2001					
Class	Solid Particulate Per m ³			Water Pressure Dewpoint °C	Oil mg/m ³
	0.1 - 0.5 μm	0.5 - 1 μm	1 - 5 μm		
1	100	1	0	-70	0.01
2	100,000	1,000	10	-40	0.1
3	-	10,000	500	-20	1
4	-	-	1,000	3	5
5	-	-	20,000	7	-
6	-	-	-	10	-

ISO 8573.1 is a group of international standard for compressed air quality

P 5 micron

Class 3 ISO 8573.1

Prefilter suitable for the removal of solid particles down to 5 micron including liquids, emulsions and oil particles.



S 1 micron

Class 2 ISO 8573.1

Interception type filters suitable for solid and oil particles up to 1 micron. Maximum contents of residual oil 0.1 mg/m³.



X 0.01 micron

Class 1 ISO 8573.1

Oil removing filter capable to separate residual oil and extremely small particles up to 0.01 micron. Maximum contents of residual oil 0.01 mg/m³. Air passing through this filter is practically 99.99% oil free. When placed after a dryer. It is an excellent prefilter for the Z series.



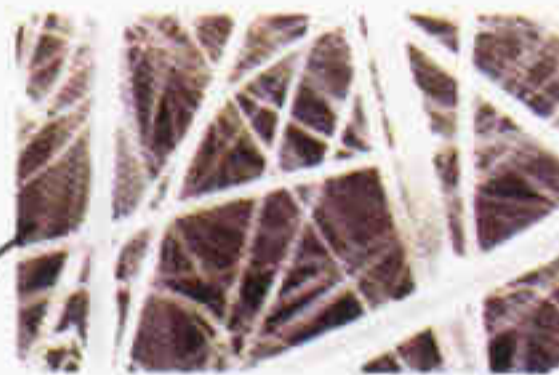
Z Activated Carbon

Class 1 ISO 8573.1

Activated carbon filter for the elimination of oil vapours and odours, the activated carbon filter through the absorption process attracts all odours and vapours left after desoiling and keep them on the surface of the activated carbon grain molecules. Maximum contents of residual oil 0.003 mg/m³.



The nano filter element



Graded density nanofiber filter media

Graded density further improves filter life and overall performance by trapping larger particles in the pre-filtration layer of the filter media

Deep Bed Multi Wrap Technology is used to form the media pack. This offers low differential pressure, extremely high oil removal efficiencies and proven continuous performance with long service life

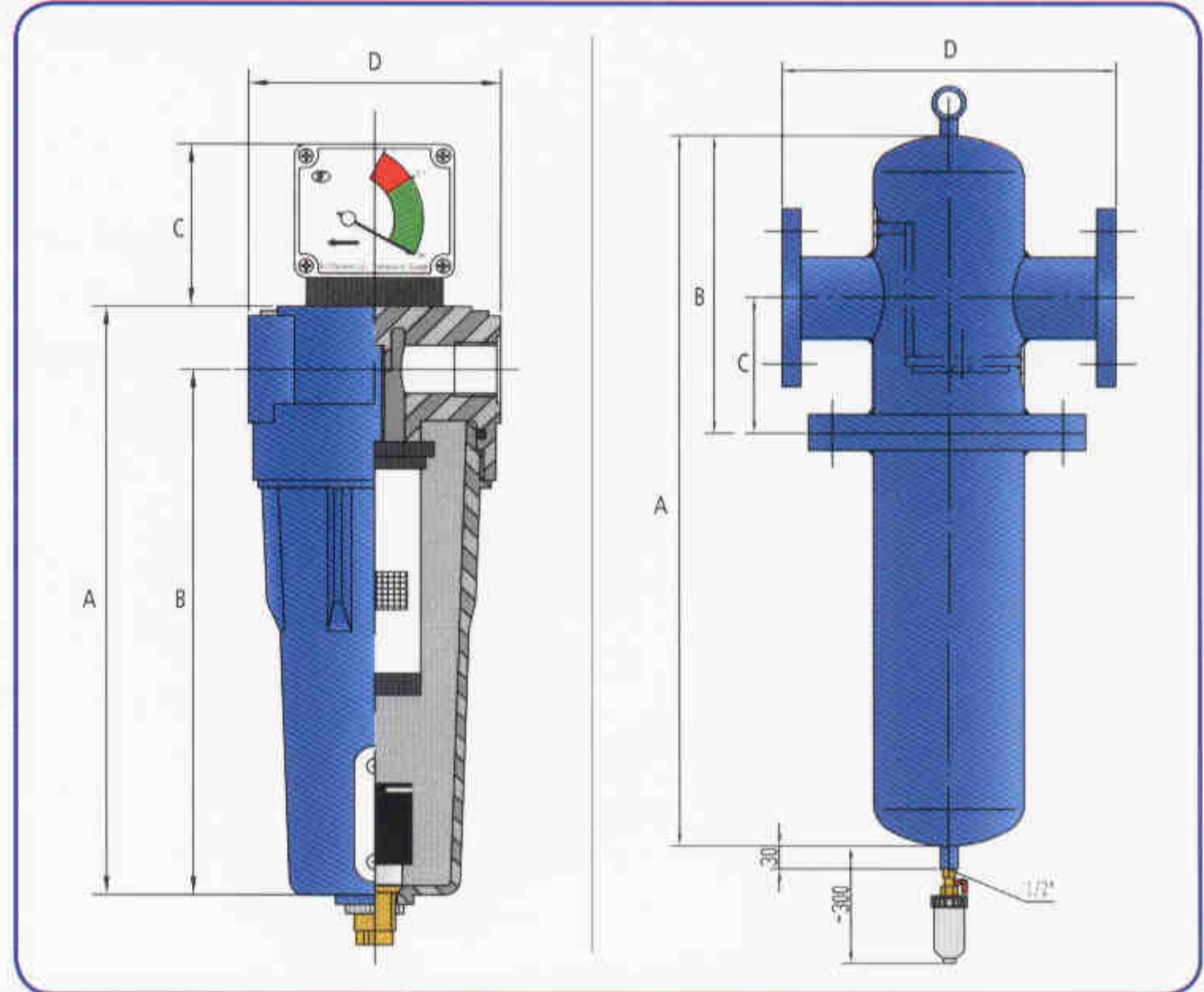
Polyester Fiber Drainage Sleeve, Has now become industry standard. This polyester material collects coalesced oil from the media pack and allows it to gravitate down to the quiet zone of the filter bowl thus preventing and oil carryover. Unlike reticulated foams which can seriously degrade causing downstream contamination, this material has a high tensile strength and withstands all the demands of compressed air filtration.

- Ensured optimal performance
- Air quality meeting the international standards
- Extended performance guarantee for a further 6 months
- Lower operational cost
- Maintained protection downstream equipment & process



Technical Data

Accessories



FILTER	FLOW - RATE			DIMENSIONS (mm)				CONN. BSP	PRESS. (bar max)	WEIGHT (+Kg)	ELEMENT (No x Model)
	(l/min)	(m ³ /h)	(SCFM)	A	B	C	D				
MP 0020	1700	102	60	243	217	67	104	1/2"	16	1.2	1 x P0020*
MP 0040	3500	210	124	313	287	67	104	1"	16	1.5	1 x P0040*
MP 0070	7100	426	251	385	424	67	138	1 1/2"	16	3	1 x P0070*
MP 0110	10600	636	374	585	624	67	138	1 1/2"	16	3.6	1 x P0110*
MP 0140	13800	828	487	685	639	67	148	2"	16	9.5	1 x P0140*
MP 0180	17500	1050	618	825	779	67	148	2"	16	11.8	1 x P0180*
MP 0220	22100	1326	780	850	800	67	150	2 1/2"	16	12	1 x P0220*
MP 0260	26000	1560	918	1000	950	67	150	2 1/2"	16	13.6	1 x P0260*
MP 0330F	32500	1950	1148	940	350	180	300	DN 65	12	51.5	1 x P0330*
MP 0460F	45800	2748	1617	1118	355	180	336	DN 80	12	86	1 x P0460*
MP 0540F	54000	3240	1906	1150	380	180	500	DN 100	12	119	3 x P0540*
MP 0900F	90000	5400	3177	1250	480	220	600	DN 125	12	148	5 x P0540*
MP 1300F	126000	7560	4450	1350	560	230	630	DN 150	12	204	7 x P0540*
MP 2000F	197000	11820	6958	1400	580	250	780	DN 150	12	317	11 x P0540*

Note: *is grade of filter element

psi	29	43	57	71	85	100	114	128	142	156	171	185	199	213	228
bar	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
factor	0.36	0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

Distributor