

# IN LINE FILTERS / REPLACEMENT FILTER ELEMENTS

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In Line filters protect your equipment from dust, dirt, oil and water. Dust will wear down your equipment and it can make pneumatic control valves get stuck. Especially when the dirt and dust is combined with oil (which is often the case with compressors).

Filsan's In Line air filters have a lower pressure-drop than low-quality ones. This will save you energy. Every pressure drop in your system (from filters, dryers, long piping etc.) will require you to put your compressor on a higher setpoint, which will cost you extra electricity. Over time, dust will accumulate in your filters. All this dust will cause an extra obstacle for the compressed air. This means the pressure drop over your filter will become higher over time.

Low-quality air filters will clog up quicker than Filsan's In Line filters. This means that you'll have to buy new filters more often. But it also means that the pressure drop over your filter will become higher, quicker, with low-cost air filters.



You can buy the filter elements separately from the housing, so you can change them to get high performance. When shopping for In Line Filters, keep in mind that quality is important. Filsan In Line filters will produce cleaner air, which means fewer problems with your equipment.

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## FILTER TYPES

### Particulate Filters

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Particulate compressed air filters are used to remove dust and particles from the air.



### Coalescing Filters

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Coalescing filters are used to capture oil and/or moisture that is suspended in the compressed air in very tiny droplets.

# Activated Carbon Filters





Activated carbon filters will remove odors and vapors. They are used in factories where food is produced or for breathing-air for example.

FILSAN replacement filter elements which are the productions of wide research and special design, can be utilized in many areas of industry for different applications. These type of filter elements are installed in compressor dryers as filter units made of one or more filters in succession.

In the first and the second stages of filtration solid and liquid particules of 1 to 5 microns are retended successively at very low pressure losses.

The third stage elements are for high pressures and filters the particules of down to 0.01 micron. Another variety of these filter elements is the ones contain active carbon. By this way, it removes odor and oil vapor particles down to 0,003 ppm. These highly efficient elements are designed to be used in applications of medical and food precessing. Upon request of compressed air manufacturers, special designs or enhanced types of filter elements may also be manufactured.

## FILSAN In Line Filters (Compressed Air Filters) Technical Data

		FILSAN Number	Description
3 mic.		FE... / P	Pleated Paper Green Foam
1 mic.		FE... / X	Wrapped Paper Blue Foam
0,01 mic.		FE... / Y	Wrapped Paper Red Foam
0,003 mg/m3		FE... / AC	Activated Carbon Without Foam

<b>P</b> = 3 mic.	Input Filter	<b>Y</b> = 0,01 mic.	Output Filter
<b>X</b> = 1 mic.	Input Filter	<b>AC</b> = 0,003 mg/m3	Active Carbon

## Element Specifications



GRADE	P	X	Y	AC
COLOR	GREEN	BLUE	RED	METAL
Particle Removal (micron)	5	1	0,01	0,01
Max Oil Carryover at 70° F (ppm)	5	0,5	0,01	0,003
Max Working Temperature (°F)	176	176	176	77
Inlet Pressure Loss (psi)	0,5	1	1,4	1
Pressure Loss for Element Change (psi)	10	10	10	10