

T Series Compressed Air Filters

Industrial compressed air systems need to operate with clean and dry air to prevent damage to pneumatic plant, equipment and processes. The air discharged from a compressor contains excessive levels of particulate matter, oil and water that must be treated before the air can be used.

Atmospheric air typically contains more than 100 million pollutant particles per cubic metre, mainly consisting of dust, hydrocarbons, viruses and bacteria. And when compressed in a pneumatic system this concentration increases to about 1,000 million particles per cubic metre. If not removed, these contaminants mix together to form a damaging abrasive sludge.

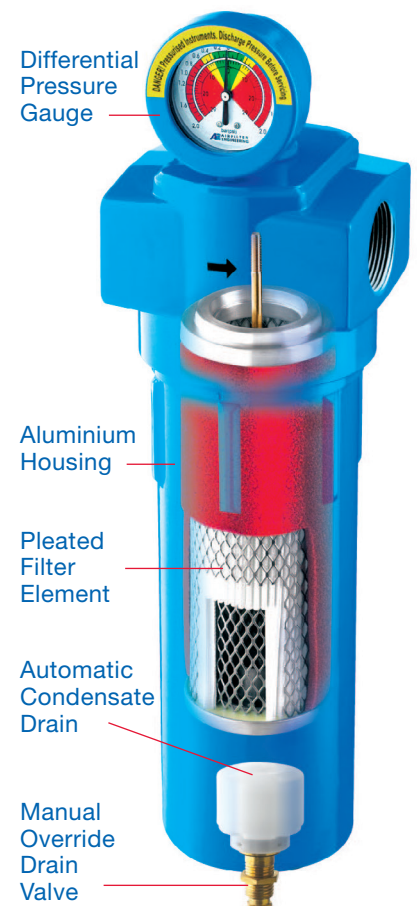
A compressor's suction air filter is designed only for protection of its internal components and not for the downstream pneumatic system. The compressor itself will also contribute wear particles and oil pollutants into the discharge air stream.

It is therefore essential that almost every industrial compressed air system should be fitted with one or more filters and also a dryer downstream from the compressor in order to obtain the necessary air quality for the particular application.

Fusheng offers a premium selection of compressed air filters that are engineered to provide clean and technically oil-free air. They are available for purchase separately to upgrade an existing compressed air system or can be included as part of an entire compressed air system package.

Features and Benefits

- Pleated filter element gives a larger effective filtration area, increased dirt holding capacity and higher air flow capacity.
- High efficiency filter element and housing design minimizes the operating pressure drop and energy consumption.
- Differential pressure gauge allows at-a-glance monitoring of the filter element's condition.
- Robust aluminium filter housing ensures a long, rust free service life and enables quick filter element replacement.
- Float-type drain valve automatically and reliably discharges accumulated oil and water.
- Replacement filter elements and spare parts are readily available for lifetime in-service support.
- 2-year warranty against faulty materials and workmanship.



Filter Grades

Select from four different filter grades to achieve the necessary compressed air quality for the specific application.

Grade P: A coarse particulate type filter for removal of larger particles and droplets. It should be installed downstream from a reciprocating air compressor and prior to any dryer.

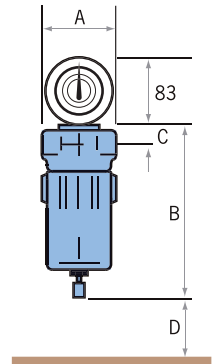
Grade U: A coalescing type filter for removal of finer particles and mists. If used in conjunction with a reciprocating compressor then this filter should be installed downstream from a Grade P filter and a dryer. Or it can be installed directly downstream from a screw compressor without the need for a coarse pre-filter.

Grade H: An ultrafine coalescing type filter for removal of the smallest particles and mists. It should be installed downstream from a Grade U filter and a dryer as the final stage of filtration in most industrial compressed air systems.

Grade C: An activated carbon adsorption type filter for removal of oil vapour, odour and taste. It should be installed downstream from a dryer and Grade H filter for use in the most stringent compressed air quality applications such as the food, beverage and medical industries.

Filter Grade	Filter Type	Filtration (micron)	Oil Removal (mg/m ³) *	Nominal Initial Pressure Drop (bar)
P	Particulate	3	-	0.03
U	Coalescing	1	0.1	0.05
H	Coalescing	0.01	0.01	0.09
C	Adsorption	-	0.003	0.10

* At 20°C



Specifications

Filter Model	Inlet & Outlet Ports (BSP)	Flowrate Capacity @ 7 bar (102 psi)		Weight (kg)	Dimensions (mm)				Replacement Filter Element Kit
		(m ³ /min)	(cfm)		A	B	C	D	
T5	1/2"	0.66	23	1.3	87	192	24	60	AET5
T10	1/2"	1.32	47	1.4	87	233	24	90	AET10
T15	3/4"	1.98	70	1.7	87	304	24	90	AET15
T20	1"	3.30	116	4.0	130	326	43	135	AET20
T40	1-1/2"	5.70	201	4.5	130	421	43	235	AET40
T60	1-1/2"	9.00	318	5.0	130	523	43	335	AET60
T75	1-1/2"	13.32	470	7.1	130	733	43	525	AET75
T125	2"	17.46	616	9.3	162	826	55	520	AET125
T175	2-1/2"	26.16	923	11.4	162	1,077	55	770	AET175
T250	3"	37.50	1,324	26.6	252	1,050	79	610	AET250
T300	3"	46.62	1,645	28.1	252	1,200	79	760	AET300

- Maximum operating pressure: 16 bar (232 psi)
- Operating temperature range: 1° to 60°C
- Maximum differential pressure for filter replacement: 0.6 bar (9 psi)
- Refer to the separate Technical Guide for capacity correction factors.

- Drain valve outlet connection: 1/8" BSPF or 6 mm push tube (user selectable)
- Add filter grade suffix when ordering, e.g. T10U, AET10U, etc.
- Optional mounting brackets available for models T5 - T75.

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