

FT FILTER SERIES

FT COMPRESSED AIR FILTERS



THE EXPERTISE YOU WANT, THE SUPPORT YOU NEED, THE VALUE YOU DEMAND

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that's the Pilot Air Value Guarantee*.

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COMPRESSED AIR IS A VALUABLE SOURCE OF POWER. IT IS SAFE, FLEXIBLE AND USED IN ALL AREAS OF INDUSTRY. LIKE ANY OTHER ENERGY SOURCE IT BENEFITS FROM BEING CLEAN AND FREE FROM IMPURITIES.

POLLUTANTS OFTEN SEEN IN COMPRESSED AIR ARE:

- Lubricating oil carry over from air compressors;
- Atmosphere corrosive gases inhaled by the air compressor;
- Aerosols and vapours;
- Solid particles and rust from air main and receivers;
- Solid particles drawn in by the air compressor.

Often the effect of high temperatures and pressures will concentrate these contaminants, forming acidic condensate. This condensate will cause corrosion and problems for pneumatic equipment and quality problems in applications like spray painting.

Also, the oil carried from the air compressor is not usually suitable for lubricating downstream equipment and must be removed.

CONCEPTS AND TECHNICAL INNOVATIONS

- Easy to read differential pressure gauge or indicator to monitor the filter element performance (if installed).
- Protected filter head and bowl threads to allow easy bowl removal for element replacement.
- The large cross section of flow channels ensures reduced pressure drop.
- Pressure relief device to allow safe removal of the filter bowl.
- Hexagonal filter bowl clamp ring for ease of bowl removal
- Aluminium filter bodies are anodised inside and outside to prevent corrosion. External surfaces are powder coated.
- Modular facility for simple series connection of multiple filter or wall mounting.



Filter Grade	Air quality	Application example
3 MICRON Series P (Red)	Filter capable to separate emulsion and particles down to 5 micron.	Normally installed on the inlet of dryers. Ideal as pre-filter for on-line filters (series S – X – Z), and for vacuum pumps, pneumatic blowing plants.
1 MICRON Series S (Yellow)	Filter capable to separate particles down to 1 micron, liquid and oil included. Maximum contents of residual oil 0,1 mg/m ³ .	Normally used on outlet of dryers as (X) grade pre-filter. Used to prevent the deterioration of the pipes of compressed air plants, for surface treatment, on vacuum pump exhaust, on compressed air motors, and as pre-filter for absorption dryers.
0,01 MICRON Series X (Green)	Oil removing filter capable of separating residual oil and extremely small particles down to 0,01 micron. Maximum contents of residual oil 0,01 mg/m ³ . It produces air technically free from oil.	Used for the protection of control system, pneumatics haulage, painting system and as post-filter for absorption dryers.
ACTIVATED CARBON Series Z (Black)	Activated carbon filter for the elimination of oil vapours and odour. When installed, after a (X) grade filter, it lowers the maximum contents of residual oil to 0,005 mg/m ³ .	Used in the pharmaceutical industry, for dental applications, in photographic workshops, packaging and galvanic treatments.

FILTER ELEMENT

- Large surface area and in-depth bed filtration for high efficiency and low pressure drop.
- Double (inner and outer) polyester needle felt sock suitable for high temperatures (120°C) and resistant to synthetic oils.
- Push on element with double o-ring for speedy element replacement and air tight connection.
- Four grades of filtration to cover all requirements for clean compressed air in respect of ISO 8573.1.
- Silicone free manufacturing.
- Colour coded. No mistakes when replacing elements.



TECHNICAL FEATURES

Data refer to the following condition: Inlet air temperature of 35°C, inlet air pressure 7 barg.

Max. working condition: Ambient temperature 60°C, inlet air temperature 120°C and inlet air pressure 16 barg.

Model	Flow Rate		Connections BSP-F	Cartridge Model	Dimensions mm				Weight kg
	L/sec	SCFM			A	B	C	D	
FT* 008	14.1	30	G 3/8"	T* 008	85	187	60	22	0.77
FT* 012	19.8	42	G 1/2"	T* 012	85	187	60	22	0.77
FT* 018	30.6	65	G 3/4"	T* 018	85	256	80	22	0.88
FT* 030	54.7	116	G 1"	T* 030	125	263	100	32	2.2
FT* 055	91.5	194	G 1"	T* 055	125	362	120	32	2.6
FT* 080	134.9	286	G 1.1/2"	T* 080	125	452	140	32	2.9
FT* 120	208.1	441	G 1.1/2"	T* 120	125	643	160	32	3.7
FT* 160	279.8	593	G 2"	T* 160	160	695	520	45	7.4
FT* 250	433.2	918	G 2.1/2"	T* 250	160	935	770	45	10
FT* 400	699.8	1.483	G 3"	T* 400	250	1.170	780	60	25

* Filtration Grade P = 3 microns S = 1 micron X = 0.01 microns Z = activated carbon



CLI 02
"Pop-up" indicator (OPTIONAL)



DIG 04
Differential gauge (OPTIONAL)

Automatic drain standard on FTP, FTS and FTX filters.
Optional on FTZ filters.

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES

Inlet Air Pressure Barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	0.25	0.38	0.50	0.65	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

- Technical data conforms to +/- 5%. Pilot Air reserves the right to modification without notice for design and technical improvements.
- Warranty: 1 year on all components.
- For over 30 years Pilot Air Compressors has been meeting the needs of industry. Ask us about your requirements.

(* Available during Pilot Air business hours of operation.)



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Industrial and specialist air compressors, compressed air treatment products, compressed air distribution and piping systems.