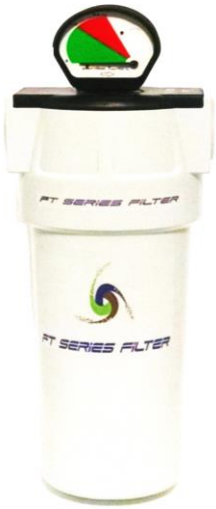
NORTHEAST PNEUMATICS

FT SERIES FILTERS



Coalescing Filters

30 – 1500 SCFM

Why Filter Compressed Air?

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:

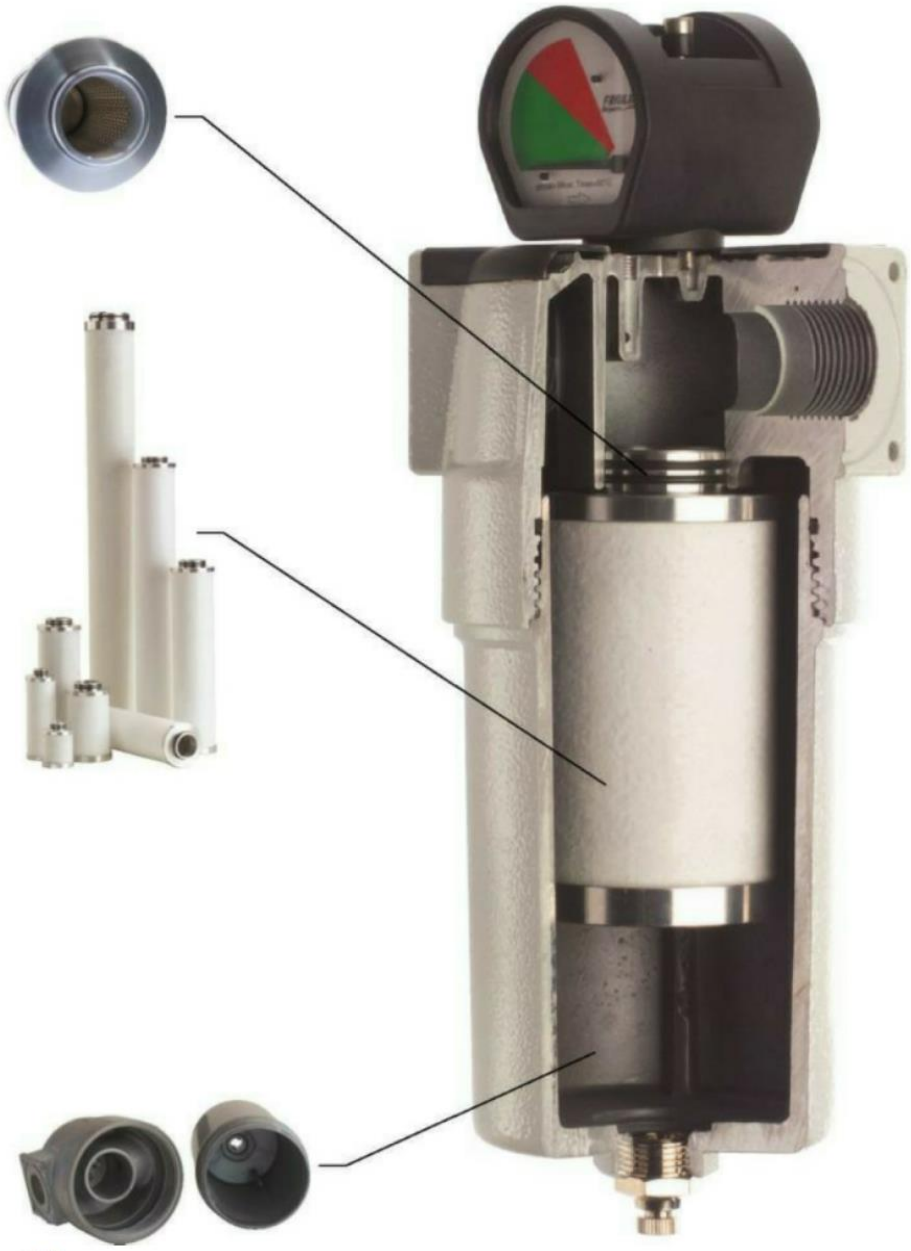
· Lubricating oil carry over from air compressors.
· Atmospheric corrosive gases inhaled by the air compressor.
· Aerosols and vapors.
· Solid particles and rust from receiver and system piping.
· Solid particles drawn in from ambient air into the air compressor.

Often the effects of high temperatures and pressures will concentrate these contaminants, forming acidic condensate. This condensate will cause corrosion and problems for equipment and quality problems for example, paint spraying. The oil carried over from the air compressor is not usually suitable for lubricating downstream equipment and must be removed.

FT SERIES FILTERS

Filter Element

- Large surface area and in-depth bed filtration for high efficiency and low pressure drop.
- Inner and outer plastic supports with needle felt wicking sock suitable for high temperatures and resistant to synthetic oils.
- Push on element with double o-ring for quick element replacement and air tight connection. Unique design allows for 4" bowl clearance.
- Four grades of filtration to cover all requirements for clean compressed air in respect of ISO 8573.1.



Filter Housing

- Aluminum filter bodies with external surfaces powder coated.
- Air lock eliminator device to allow safe removal of the filter bowl.
- Hexagonal filter bowl clamp ring for ease of bowl removal.
- Easy to read differential pressure gauge 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.

FOUR FILTRATION GRADES

Filter Grade	Air Quality	Application Example	Identification Color
5 Micron Grade P	General purpose, coalescing and bulk contaminant removal; Point of use filtration down to 5 micron.	Normally installed ahead of the refrigerated air dryer. Ideal as a pre-filter for additional higher-grade in-line filter used with vacuum pumps, pneumatic tools, molds and general plant air usage.	
1 Micron Grade S	Prefiltration to refrigerated dryer; higher efficiency, coalescing point of use. Capable of separating particles down to 1 micron, liquid and oil included. Maximum carryover 0.1ppm.	Can be used as an outlet, or inlet pre-filter for higher-grade 0.01-micron filter. Used to prevent deterioration of piping in compressed air systems, vacuum pump exhaust, compressed air motors, and as a post-filter for absorption dryers.	
0.01 Micron Grade X	High efficiency coalescing oil removal after refrigerated dryer; upstream of desiccant dryers. Maximum carryover 0.01ppm.	Used for the protection of control systems, pneumatic conveyance, paint equipment and as a pre-filter for absorption dryer.	
Activated Carbon Grade Z	Oil vapors/odor/taste removal downstream of 0.01-micron filter. Maximum carryover 0.003ppm.	Used in the pharmaceutical industry, dental packages, photography shops and packaging systems.	

CORRECTION FACTORS

Inlet Pressure (bar)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet air pressure (psig)	15	30	45	60	75	90	100	115	130	145	160	175	190	200	215	230
Factor	0.25	0.40	0.50	0.65	0.75	0.90	1.00	1.10	1.20	1.35	1.50	1.60	1.75	1.80	1.90	2.00

For maximum flow rate, multiply model flow rate (refer to Technical Features found on page 4, column two) by the correction factor corresponding to the actual inlet air pressure. To reduce pressure drop by 50%, reduce flow rate by a factor of 30%.

DO NOT SELECT FILTERS BY PIPE SIZE-USE MAXIMUM FLOW AND MINIMUM OPERATING PRESSURE
MAXIMUM OPERATING PRESSURE IS 235 PSIG, MAXIMUM OPERATING TEMPERATURE IS 200°F

ACTIVATED CHARCOAL FILTERS MUST NOT OPERATE IN OIL SATURATED CONDITIONS. WILL NOT REMOVE CERTAIN TYPES OF GASES INCLUDING CARBON MONOXIDE AND CARBON DIOXIDE.

TECHNICAL FEATURES

Model	Flow-Rate (1)[scfm] (2)	Inlet/Outlet Connection (3)	Dimensions [in] (4) A	B	Weight [lbs]	Replacement Element (1)
FT30 (*)	30	3/8" NPT	3.35	7.40	1.70	**T (*) 30**
FT45 (*)	45	1/2" NPT	3.35	7.40	1.70	**T (*) 45**
FT65 (*)	65	3/4" NPT	3.35	10.00	2.00	**T (*) 65**
FT125 (*)	125	1" NPT	5.00	10.35	5.00	**T (*) 125**
FT200 (*)	200	1" NPT	5.00	14.25	5.85	**T (*) 200**
FT300 (*)	300	1 1/2" NPT	5.00	18.00	6.40	**T (*) 300**
FT450 (*)	450	1 1/2" NPT	5.00	25.00	8.40	**T (*) 400**
FT600 (*)	600	2" NPT	6.30	27.50	16.50	**T (*) 600**
FT900 (*)	900	2 1/2" NPT	6.30	37.00	22.00	**T (*) 900**
FT1500 (*)	1500	3" NPT	10.00	46.00	55.00	**T (*) 1500**

***= filtration grade** **P**=5 microns (GREEN) **S**=1 microns (RED) **X**=0.01 microns (YELLOW) **Z**=activated carbon (BLACK)

(1) Select element grade from order configuration chart. **(2)** Flow capacity is for 100 psig. **(3)** Drain connection is internal float drain or 1/2" NPT with air lock eliminator. **(4)** Dimensions in inches with optional differential pressure gauge. Deduct 2.6" for pop-up indicator.

Manufacture reserves the right to modify design and specifications without notice.

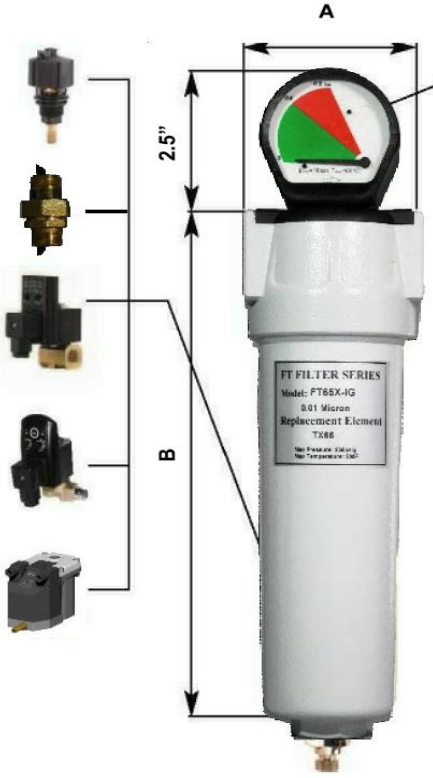
ATD 03
Internal Float Drain
(STANDARD FT30-300)

ALE
1/2" NPT Male Adapter with Air Lock Eliminator
(STANDARD FT450-1500)
(OPTIONAL FT30-300)

EAD Series
Electric Timed Standard Drain
(OPTIONAL)
[Ordered Separately]

Optimum Series
Electric Timed Deluxe Drain
(OPTIONAL)
[Ordered Separately]

Smart Guard Series
Zero Air-Loss Drain
(OPTIONAL)
[Ordered Separately]



DIG 04
Differential Gauge
Standard on models
FT65 -through- FT1500
(OPTIONAL) on models
FT30 & FT45

DIG 06
Differential Gauge
w/Alarm Led
(OPTIONAL)

DIG 08
Differential Gauge
Heavy Duty
Industrial Grade
(OPTIONAL)

ORDERING INFORMATION

FT □ □ □ □ □ □ □

Flow (scfm)
- 30
- 45
- 65
- 125
- 200
- 300
- 450
- 600
- 900
- 1500

Element Grade
- **P** = 5 micron
- **S** = 1 micron
- **X** = 0.01 micron
- **Z** = Activated Carbon

† Drain Connection
- **I** = Internal Drain (FT65 through 300 only)
- **L** = 1/2" Male Adapter w/Air Loss Eliminator

†Drain connection option I or L included in price.

Gauge Option
- **B** = Blank No DP Gauge
- **G** = DP Gauge
- **R** = DP Gauge with Alarm LED
- **H** = Heavy Duty DP Gauge

Contact your local distributor for purchase

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