FT FILTER SERIES

SIZES RANGE 30 - 1500 SCFM

FEATURES:

- High efficient coalescing and bulk removal
- Aluminum filter housing with exterior powder coating and interior anodized surfaces
- Differentail pressure gauge allows for element performance and indicates when it needs changed (if installed)
- Six grades of elements available to ensure moisture free clean air
- The FT Series filter can be matched to any of our condensate drains including mechanical, timer, zero air loss and pneumatic drains

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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 are resistant to synthetic oils.

· Push on element with double o-ring seal allows for quick element replacement and air tight connection. Unique design allows for 4" bowl clearance.

· Six grades of filtration to cover all requirements for moisture free clean compressed air in respect of ISO 8573.1.

Filter Housing

· Aluminum filter bodies with external surfaces powder coated.

· 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.

· Air Lock Eliminator (ALE) allows for any style ½”npt drain to attach to the bottom of the filter bowl.

FT SERIES

SIX ELEMENT GRADES

ELEMENT MODEL	AIR QUALITY	APPLICATION EXAMPLE	ELEMENT COLOR
P - Grade 3 Micron	General Purpose, coalescing and bulk contaminate removal. Point of use filtration down to 3 micron.	Normally installed ahead of refrigerated air dryers. Ideal as a pre-filter for additional higher grade in-line filter used with vacuum pumps, pneumatic tools, molds and general plant air usage.	Green 
S – Grade 1 Micron	Pre-filter to refrigerated air dryers. Higher efficiency coalescing point of use. Capable of separating particles down to 1 mocron including liquid and oil with maximum carry over 0.1 ppm	Can be used as an outlet or inlet pre-filter for higher grade 1 micron filtration. Used to prevent deterioration of piping in compressed air systems. Vacuum pump exhaust, compressed air motors and as a post-filter for adsorption dryers.	Red 
X – Grade 0.01 Micron	High efficiency coalescing oil removal after refrigerated dryers, upstream of desiccant dryers. Maximum carryover 0.01 ppm	Used for the protection of control systems, pneumatic conveyors, paint equipment and as a pre-filter for adsorption dryers.	Yellow 
Z – Grade Activated Carbon	Oil vapors/odors/taste removal downstream of 0.01 micron filter. Maximum carryover 0.0003 ppm.	Used in the pharmaceutical industry, dental packages, photography shops and packaging systems.	Black 
M – Grade Molecular Sieve	Used as a point of use filter to dry compressed air.	Auto paint industry, labs, control systems, pneumatic valves and equipment	Brown 
C – Grade Cyclonic Moisture Separator	Bulk liquid removal	Used for removal of bulk liquid, installed up-stream of air compressors outlet or before refrigerated air dryers and adsorption dryers inlets. Can be used in any general application seeking bulk liquid removal.	Stainless Steel 

TECHNICAL SPECIFICATION

FT SERIES

MODEL	SCFM	CONNECTION	DIMENSIONS L x W	WEIGHT	REPLACEMENT ELEMENT
FT30	30	3/8″ NPT-F	7.40″ x 3.35″	1.70 lbs	T(*)30E
FT45	45	1/2″ NPT-F	7.40″ x 3.35″	1.70 lbs	T(*)45E
FT65	65	¾″ NPT-F	10″ x 3.35″	2.00 lbs	T(*)65E
FT125	125	1″ NPT-F	10.35″ x 5″	5.00 lbs	T(*)125E
FT200	200	1 1/2″ NPT-F	14.25″ x 5″	5.85 lbs	T(*)200E
FT300	300	1 1/2″ NPT-F	18.00″ x 5″	6.40 lbs	T(*)300E
FT450	450	1 1/2″ NPT-F	25.00″ x 5″	8.40 lbs	T(*)450E
FT600	600	2″ NPT-F	27.50″ x 6.30″	16.50 lbs	T(*)600E
FT900	900	2 1/2″ NPT-F	37″ x 6.30″	22.00 lbs	T(*)900E
FT1500	1500	3″ NPT-F	46″ x 10″	55.00 lbs	T(*)1500E

When selecting replacement element – Example T**(*)**30E, You will select your micron grade, in this case a 3 micron element is selected and would be model **TP30E**. Available Filter Elements: **P** = 3 micron / **S** = 1 micron / **X** = 0.01 micron / **Z** = Activated Carbon / **M** = Molecular Sieve / **C** = Cyclonic Moisture Separator

Standard rating conditions
Maximum inlet temperature is 200°F
Maximum operating pressure 235 psig

CORRECTION FACTORS

Inlet Air 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
Correction 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 by the correction factor corresponding to the actual inlet air pressure.
To reduce pressure drop by 50%, reduce the flow rate by a factor of 30%
Do not select filters by pipe size – Use maximum flow and minimum operating pressure.
Activated charcoal filters must not operate in oil saturated conditions and will not remove certain gases including carbon monoxide and carbon dioxide.

standard	standard	optional	optional	optional	optional	optional
						
ALE	ATD03	INTELLI-DRAIN	SGM	AOK20-B	BTC50-1	EMD12

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