ZEKS COMPRESSED AIR SOLUTIONS®

ZFC™

Compressed Air Filters

22-1,600 SCFM

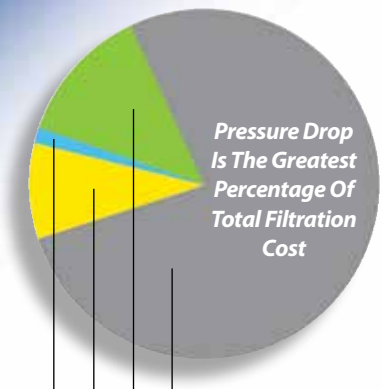
- Protect Pneumatic Processes, Tools and Equipment
- ISO 8573-1:2010 Air Quality
- Maintenance-Friendly

ZFC™

Compressed Air Filters

Engineered For Superior Performance

ZFC™ Filters reduce contamination in compressed air to protect critical processes and pneumatic equipment.



78% *Cost Due To Pressure Drop*

13% *Cost To Replace Element*

8% *Cost To Purchase Filter*

1% *Cost To Install Filter*

ZFC™ Compressed Air Filters include features that address air quality, enhance the operating efficiency of compressed air systems and minimize cost-of-ownership.

Versatility - Choose from four filter element grades to meet the unique challenges of each application. Elements have been developed for specific removal of bulk liquid, aerosols, course and fine dust particles, as well as for carbon finishing.

Long Element Life - The superior construction of ZFC™ filter elements enables them to consistently deliver clean, high quality air while maintaining integrity throughout the life of the element.

Low Pressure Drop - High pressure drop causes air compressors to work harder, adding more to compressed air system operating cost. ZFC™ filter housings and deep-pleated elements are designed to minimize turbulence, resulting in very high efficiency filtration with minimal pressure drop.

No-Touch Element Replacement - The filter bowl is designed to properly align the element with the filter head during changeout. With ZFC™ filters, it's not necessary to handle spent elements resulting in cleaner and faster filter maintenance. The vertical space required when separating the head and bowl during element changeout is minimal, enabling ZFC™ filters to be installed where others won't fit.

ZFC™ No-Touch Element

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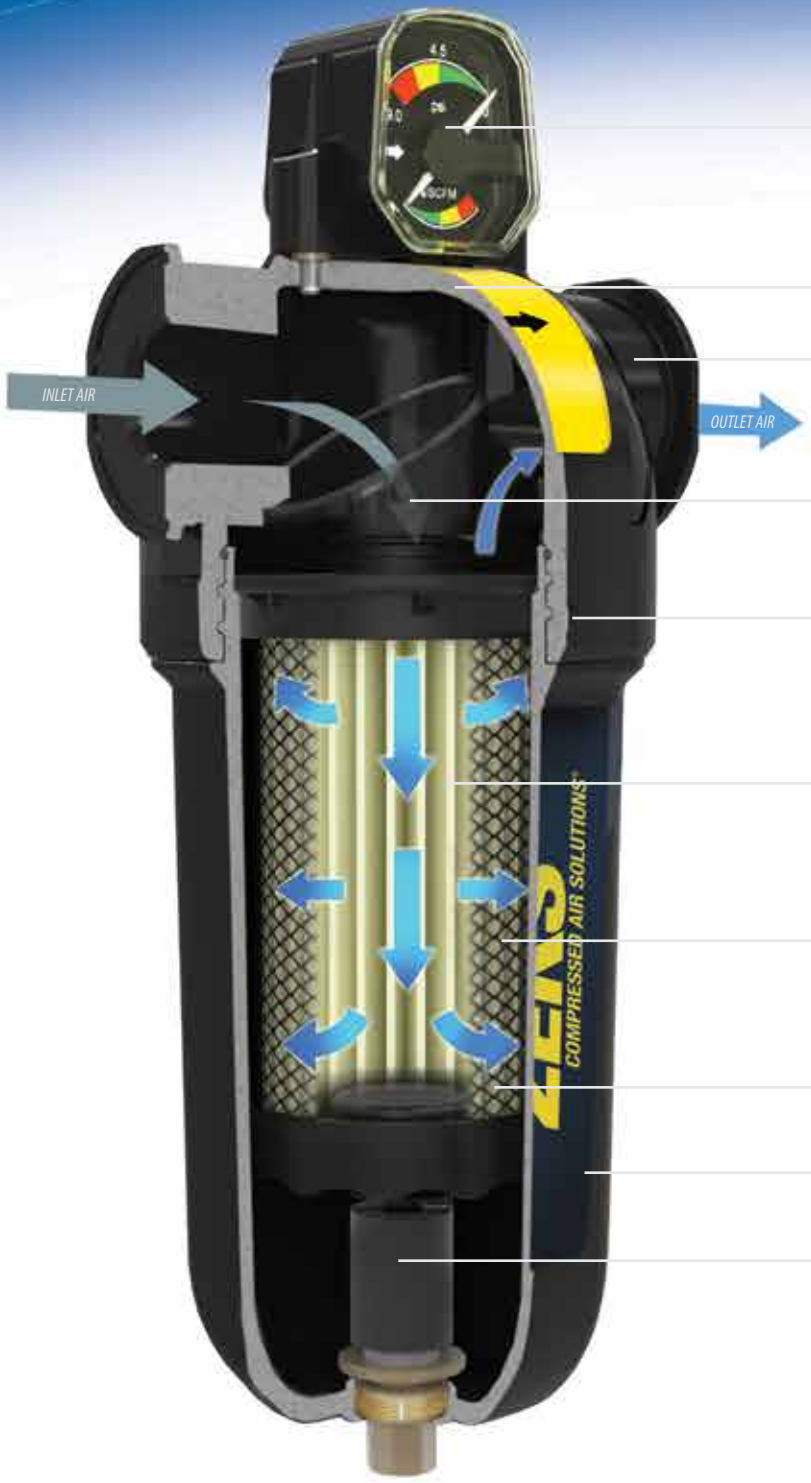


Differential pressure drop and operating efficiency are displayed on patented dual-scale gauge.

Precision die cast aluminum body is suitable for 176°F and 250 psig MAWP applications.

Internal and external surfaces have proprietary coating that protects against corrosion in harsh environments.

Patented insert has smooth bore to direct air flow into the filter element with minimum turbulence and pressure loss.

Visual alignment marks ensure correct assembly of bowl and head to maximize safety.

Deep-pleated filter media reduces air flow velocity to maximize filtration efficiency and minimize pressure loss.

Filter element has stainless steel mesh for structural integrity with minimal flow restriction. Elements will tolerate high differential pressure without failure.

High efficiency drainage layer improves liquid drainage properties and enhances chemical compatibility.

Bowl design enables no-touch filter element replacement.

Brass float drain is industrial-grade, discharging condensate and oil that accumulates at the bottom of the filter more reliably than competitive drains.

ZFC™ - A Complete Compressed Air Filtration Solution.

ZFC™ Element Grade Selection and Filter Application

***Grade P** - Particulate/Bulk Liquid Filtration*
Use for removal of dust particles down to 1 micron and coalescing of liquid; .6 psi Δp dry.

***Grade G** - General Purpose Filtration*
Use for removal of dust particles down to 0.1 micron and coalescing of water and oil for a maximum remaining aerosol content of 0.03 ppm @ 70°F; .6 psi Δp dry; 1.2 psi Δp saturated.

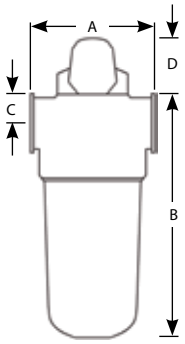
***Grade H** - High Efficiency Filtration*
Use for removal of particles down to .01 micron and coalescing of water and oil for a maximum remaining aerosol content of 0.008 ppm @ 70°F; .8 psi Δp dry; 1.5 psi Δp saturated. It's recommended that Grade H filtration be preceded with Grade G filtration.

***Grade A** - Activated Carbon Finishing*
Use for oil vapor and hydrocarbon odor removal. Results in a maximum remaining oil content of 0.003 ppm @ 70°F; 1 psi Δp initial; 1 psi Δp final. Must be preceded with Grade H filtration.

Grade A Elements must be replaced every 3 months or every 2,000 hours, whichever is first. As a convenience, a Time Strip that can be adhered to the filter housing comes with Grade A elements, providing visual indication of the remaining service life of the element.

Technical Specifications

MODEL*	FLOW CAPACITY SCFM	IN/OUT CONNECTION SIZE	DRAIN CONNECTION SIZE	DIMENSIONS A	B	C	D	WEIGHT LBS.	MAX. OPERATING PRESSURE	ELEMENT GRADES
ZFC22	22	1/2″ NPT	1/4″ NPT	2.99″	6.81″	.63″	2.09″	1.2	250 psig	P, G, H, A
ZFC45	45	3/4″ NPT	1/4″ NPT	3.86″	8.98″	.87″	2.09″	2.4	250 psig	P, G, H, A
ZFC65	65	3/4″ NPT	1/4″ NPT	3.86″	8.98″	.87″	2.09″	2.4	250 psig	P, G, H, A
ZFC88	88	1″ NPT	1/4″ NPT	5.08″	10.51″	1.26″	2.09″	4.5	250 psig	P, G, H, A
ZFC110	110	1″ NPT	1/4″ NPT	5.08″	10.51″	1.26″	2.09″	4.5	250 psig	P, G, H, A
ZFC135	135	1″ NPT	1/4″ NPT	5.08″	10.51″	1.26″	2.09″	4.5	250 psig	P, G, H, A
ZFC235	235	1 1/2″ NPT	1/4″ NPT	5.08″	14.06″	1.26″	2.09″	5.2	250 psig	P, G, H, A
ZFC290	290	1 1/2″ NPT	1/4″ NPT	5.08″	14.06″	1.26″	2.09″	5.2	250 psig	P, G, H, A
ZFC350	350	2″ NPT	1/4″ NPT	6.69″	18.35″	1.50″	2.09″	11.5	250 psig	P, G, H, A
ZFC470	470	2″ NPT	1/4″ NPT	6.69″	18.35″	1.50″	2.09″	11.5	250 psig	P, G, H, A
ZFC600	600	2″ NPT	1/4″ NPT	6.69″	18.35″	1.50″	2.09″	11.6	250 psig	P, G, H, A
ZFC710	710	3″ NPT	1/4″ NPT	8.07″	21.42″	2.17″	2.09″	20.5	250 psig	P, G, H, A
ZFC920	920	3″ NPT	1/4″ NPT	8.07″	25.35″	2.17″	2.09″	23.6	250 psig	P, G, H, A
ZFC1080	1,080	3″ NPT	1/4″ NPT	8.07″	25.35″	2.17″	2.09″	23.6	250 psig	P, G, H, A
ZFC1350	1,350	3″ NPT	1/4″ NPT	8.07″	34.49″	2.17″	2.09″	30.2	250 psig	P, G, H, A
ZFC1600	1,600	3″ NPT	1/4″ NPT	8.07″	34.49″	2.17″	2.09″	30.2	250 psig	P, G, H, A



* Add Filter Element grade P, G, H or A when ordering.
Flow Capacity rating conditions (Standard): 100 psig pressure; 100°F Inlet Air temperature; 100°F Ambient Air temperature
Maximum Recommended Operating Temperature: Grade P, G, H - 176°F
Maximum Recommended Operating Temperature: Grade A - 86°F
Minimum Recommended Operating Temperature: Grade P, G, H, A - 35°F

Correction Factors For Operation At Non-Standard Pressure

To calculate the flow capacity of any ZFC™ model operating at non-standard pressure, multiply the Flow Capacity of the filter shown in the table above by the Correction Factor that corresponds to the closest non-standard pressure shown in the table below.

For example, model ZFC110 (110 scfm capacity) installed in an air system operating at 160 psig requires a Correction Factor of 1.25 to accurately calculate flow capacity at the higher pressure.

110 (scfm) **x 1.25** (Correction Factor) = **137.5 scfm** (Corrected Flow Capacity @ 160 psig)

Non-Standard Pressure:	15 psig	29 psig	44 psig	73 psig	100 psig	131 psig	160 psig	189 psig	218 psig	232 psig	250 psig
Correction Factor:	0.38	0.53	0.65	0.85	1.00	1.13	1.25	1.36	1.46	1.51	1.56

ZEKS ZFC™ Compressed Air Filters are not designed, intended or approved for breathing air applications.

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