

**Top-Load
 Design**



A Complete Filtration Solution

- *Low Pressure Drop Performance*
- *Interchangeable Elements In Five Grades*
- *Practical Top-Load Design*
- *Tricolor Differential Pressure Gauge*
- *ASME-Coded Housings: Section VIII, Division 1*

ZFF™ Flanged Filters

For Large Scale Compressed Air Systems
 1,800 - 13,200 SCFM

ZFF™ Flanged Filters remove harmful moisture and contaminants in large scale compressed air systems to protect production processes and tools and guard against process failure and product spoilage.

Multi-element design and simple flow path result in efficient, high volume filtration with low pressure drop. Replaceable filter elements are available in five grades allowing users to meet their unique filtration requirements. If at any time a different air quality is needed, simply select one of the other filter element grades. To provide long service life without failure, ZFF™ elements are constructed to include:

- **Stainless Steel Support Core** - will withstand high differential pressures
- **Deep-Pleated Filter Media** - maximizes filtration efficiency in each element grade
- **Specialized Drainage Layer** - optimized liquid drainage properties



ZFF™ filter housings meet ASME Section VIII, Division 1 requirements. The top-load design enables filter element replacement without removal of the bottom of the housing. This feature facilitates changing of the elements and minimizes the clearance requirement below the housing.

Filter maintenance is enhanced through monitoring of pressure drop as indicated on a differential pressure gauge that includes both color and numeric scales.



See reverse side for Technical Specifications.

ZFF™ Flanged Filters

ZFF™ filter elements are available in five grades making it possible to configure ZFF™ Flanged Filters for nearly all compressed air applications. Elements provide long service life with high efficiency and are chosen based on specific application requirements:

GRADE P - Particulate/Bulk Liquid Filtration

Air Purity: 5 microns; 5 ppm oil carryover; .5 psi Δp clean & dry; 1 psi Δp saturated; 6 psi Δp recommended replacement
For removal of small particles and dirt, and for liquid coalescing. Also used where high concentrations of airborne dirt are present in the ambient air.

GRADE G - General Purpose Filtration

Air Purity: 1 micron; .1 ppm oil carryover; 1 psi Δp clean & dry; 2 psi Δp saturated; 6 psi Δp recommended replacement
Coalescing/particulate filter used to protect pneumatic tools and actuators from dirt, oil, and dust.
Element of choice for heatless desiccant dryer afterfilter.

GRADE H - High Efficiency Filtration

Air Purity: .01 micron; .01 ppm oil carryover; 1.5 psi Δp clean & dry; 3 psi Δp saturated; 6 psi Δp recommended replacement
Used for fine coalescing and when removal of very small particles is required.

GRADE A - Activated Carbon Finishing

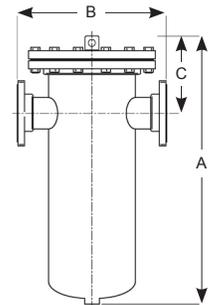
Air Purity: .01 micron; .003 ppm oil carryover; 1 psi Δp clean & dry; NA psi Δp saturated; NA psi Δp recommended replacement
For removal of vapors and odors. NOTE: A .01 micron, high efficiency (Grade H) filter must be installed upstream of the Grade A filter.
Grade A elements must be replaced at 6 months or 4,000 hours, whichever occurs first.

HI-TEMP - High Temperature Filtration

Air Purity: 1 micron; .1 ppm oil carryover; 1 psi Δp clean & dry; 2 psi Δp saturated; 6 psi Δp recommended replacement
For general purpose coalescing/particulate filtration where compressed air temperature exceeds 250°F.
Used for heated desiccant dryer afterfilter.

Technical Specifications

MODEL	FLOW CAPACITY SCFM	IN/OUT CONNECTION SIZE	ELEMENT		DRAIN PORT	DIMENSIONS			FILTER WEIGHT LBS.	
			STANDARD	HI-TEMP		A	B	C		
ZFF1800	1,800	4" FLG	EF600*	EFHT600G	3	1/2"	40.00"	19.00"	11.62"	335
ZFF2400	2,400	4" FLG	EF600*	EFHT600G	4	1/2"	40.00"	19.00"	11.62"	335
ZFF3000	3,000	4" FLG	EF600*	EFHT600G	5	1/2"	39.68"	22.00"	11.93"	350
ZFF3600	3,600	6" FLG	EF600*	EFHT600G	6	1/2"	42.75"	27.50"	13.50"	525
ZFF4200	4,200	6" FLG	EF600*	EFHT600G	7	1/2"	42.75"	27.50"	13.50"	550
ZFF4800	4,800	6" FLG	EF600*	EFHT600G	8	1/2"	42.75"	27.50"	13.50"	550
ZFF6000	6,000	6" FLG	EF600*	EFHT600G	10	1/2"	42.75"	27.50"	13.50"	600
ZFF9000	9,000	8" FLG	EF600*	EFHT600G	15	1/2"	44.12"	30.00"	14.12"	1,135
ZFF13200	13,200	8" FLG	EF600*	EFHT600G	22	1/2"	47.87"	39.00"	15.94"	Consult Factory



Where * is replaced by one of the element grade designations: P, G, H, A. Element grade must be included when ordering filter.

Flow Capacity rating conditions (Standard): 100 psig pressure; 100°F Inlet Air temperature; Clean & dry pressure drop rating

Maximum Operating Temperature: GRADE: P, G, H, A = 250°F; GRADE: HI-TEMP = 450°F

Maximum Working Pressure: GRADE: P, G, H, A, HI-TEMP = 150 psig

Correction Factors

Use this table to calculate ZFF™ flow capacity in compressed air systems operating at non-standard pressures. To calculate maximum capacity, multiply Flow Capacity for models shown in the table above by the Correction Factor that corresponds to the actual working pressure. Factors apply to all element grades: P, G, H, A, HI-TEMP.

WORKING PRESSURE (psig)	10	20	30	40	50	60	70	80	90	100	110	125	150
CORRECTION FACTOR	.32	.45	.55	.64	.71	.78	.84	.90	.95	1.00	1.05	1.12	1.22

(Standard)

ZEKS offers a range of electronic and no air-loss drains for ZFF™ filters. Contact your ZEKs Distributor for complete information.



ZEKS

COMPRESSED AIR SOLUTIONS®

ZEKS ZFF™ Flanged Filters are not designed, intended or approved for breathing air applications.

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