

F² performance validated compressed air & gas filtration



flow capacity: 1410 - 10230 scfm (2390 - 17380 Nm³/hr)

nano F² compressed air & gas filtration

Clean and oil-free compressed air is easily achieved with the new range of F² performance validated compressed air and gas filters. These high capacity flanged filters are fabricated from high quality carbon steel and are primed externally for optimum corrosion resistance. The nano F² filters provide improved filtration performance for high flow industrial applications.

- reliable & efficient liquid & particulate removal with low pressure drop
- 1.0 & .01 micron particulate and coalescing filters for dust, oil & aerosol removal
- AC activated carbon adsorption filter for vapor removal performance to .003 ppm
- specialized elements for high temperature applications
- nine models in two flow configurations from 1700 to 10000 scfm at 100 psig
- ANSI flanged connections ranging from 4" to 10" diameter
- built in accordance with ASME VIII with a U-Stamp and CRN number*

reliability is built in... backed by a 1 year element warranty and a 10 year housing warranty!

design. performance. validation.

performance standards

the nano F² filters are designed to meet or exceed compressed air purity requirements throughout the industry

designed to exceed the ISO 8573-1 standards for compressed air purity & the ISO 12500 Series International standard for compressed air filter testing

the nano F² filters carry CRN (Canadian Registration Numbers) for approved use in every province of Canada*

independent validation

filtration performance is validated & tested by independent laboratories in accordance with international filtration & safety standards

manufactured in ISO 9001 approved facilities

independently validated to ISO 12500 - see our validation brochure for full details and a copy of the test report at www.n-psi.com



^{*} CRN is standard on all Z-flow filters & optional on all T-flow filters

element features

element o-ring seal

prevents contaminant bypass for consistent performance

stainless steel cylinders

provides strength and corrosion resistance for optimum reliability

deep bed filter media

low differential pressure, improved energy efficiency and long life

hydrophobic & oleophobic media

borosilicate microfibers repel liquids improving performance

anti re-entrainment layer

optimizes liquid drainage and minimizes differential pressure

outer drainage layer

compatible with synthetic lubricants and prevents oil carry over

housing features

extensive range of flows & sizes

4" to 10" ANSI flanged connections and capacities up to 10,230 scfm

primed externally

top quality finish & coating for exceptional corrosion resistance

custom finish & coating options

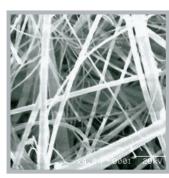
including 3-part epoxy or powder coating for harsh environments

chemical compatible design

for use with all oil flooded or oil-free compressors

high pressure & stainless steel options

designs available to fit every application



deep bed of borosilicate microfibers



blasted, primed & painted housings



sizing & specifications

filter model	inlet & outlet	nominal Flow ⁽¹⁾		dimensions inches					approx. weight	replacement element		
	flange	scfm	Nm³/h	Α	В	С	D	Е	lbs	qty	part no.	
NFZ Series - Z Flor	w											
NFZ 2500 (grade)	4"	2500	4248	21.0	10.8	12.4	54.7	30.0	340	3	E 0853 (grade	
NFZ 3000 (grade)	4"	3000	5097	21.0	10.8	12.4	54.7	30.0	340	4	E 0853 (grade)	
NFZ 3500 (grade)	6"	3500	5947	21.0	10.8	13.9	58.7	30.0	370	4	E 0853 (grade)	
NFZ 4000 (grade)	6"	4000	6796	23.0	12.8	16.8	61.4	30.0	410	5	E 0853 (grade)	
NFZ 5000 (grade)	6"	5000	8495	24.3	14.0	17.4	62.0	30.0	460	6	E 0853 (grade)	
NFZ 6000 (grade)	6"	6000	10194	24.3	14.0	17.4	62.0	30.0	460	7	E 0853 (grade)	
NFZ 7500 (grade)	8"	7500	12743	28.3	18.0	19.9	69.4	30.0	560	9	E 0853 (grade)	
NFZ 8500 (grade)	8"	8500	14442	28.3	18.0	19.9	69.4	30.0	560	10	E 0853 (grade)	
NFZ 10000 (grade)	10"	10000	16990	28.3	18.0	17.8	70.1	30.0	640	12	E 0853 (grade	
NFT Series - T Flor	w											
NFT 1700 (grade)	4"	1700	2888	21.0	10.8	11.5	49.0	30.0	330	2	E 0853 (grade)	
NFT 2500 (grade)	4"	2500	4248	21.0	10.8	8.8	49.0	30.0	330	3	E 0853 (grade)	
NFT 3500 (grade)	6"	3500	5947	23.0	12.8	12.8	55.4	30.0	360	4	E 0853 (grade)	
NFT 4000 (grade)	6"	4000	6796	23.0	12.8	12.9	55.4	30.0	360	5	E 0853 (grade)	
NFT 5000 (grade)	6"	5000	8495	24.3	14.0	13.4	53.7	30.0	410	6	E 0853 (grade)	
NFT 7000 (grade)	8"	7000	11893	28.3	18.0	15.8	57.4	30.0	500	8	E 0853 (grade)	
NFT 8500 (grade)	8"	8500	14442	28.3	18.0	15.8	63.3	30.0	500	10	E 0853 (grade	
NFT 10000 (grade)	10"	10000	16990	28.3	18.0	14.1	55.4	30.0	625	12	E 0853 (grade	

element performance	M1	M1 HT	M01	AC
maximum particle size (ISO Class) (2)	2	2	1	1
maximum oil content (ISO Class) (2)	2	2	1	1
particle removal (microns)	1	1	0.01	-
max oil carry over at 68°F (ppm or mg/m³)	0.1	0.1	0.01	0.003
recommended operating temp range	35 to 212°F	35 to 450 °F	35 to 212°F	35 to 77°F
design operating temperature range	35 to 248°F	35 to 450 °F	35 to 248°F	35 to 122°F

specifications	NFZ	NFT		
design operating pressure range	0 - 150 psig	0 - 150 psig		
condensate drain(s) (included)	automatic float	automatic float		
ASME VIII & U stamp	standard	standard		
Canadian registration number	standard	CF		

pressure correction factors						
operating pressure (psig)	60	70	85	100	115	145
correction factor	0.76	0.84	0.92	1.00	1.07	1.19

(1) at 100 psig. For all other pressures, refer to the pressure correction factor table above (2) per ISO 8573.1:2001 (E)

- install with air flow from inside to outside for coalescing filtration and from outside to inside for dry particulate filtration
- differential pressure indicators and external float drains are fitted to all models (except with AC grade elements)
- all filter housings are primed externally to prevent corrosion as standard
- all filter housings can be internally powder coated as option
- higher pressures, other materials of construction and custom specifications available on request







T style

