Clean and oil-free compressed air is easily achieved with the new range of F1 performance validated compressed air and gas filtration. nano F1 filters provide:

- Improved filtration for your compressor room or point of use application
- Reliable and efficient liquid and particulate removal with low pressure drop
- Space saving design – no tee allows easy bowl removal
- Five element grades from 25 to 0.01 micron
- Twenty-two models from 8 to 1500 scfm at 100 psig
- A comprehensive range of accessories for every application

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


Optimized design
Optimized performance is assured through extensive Computer Aided Design technology, finite element analysis, computational fluid dynamics, 1000 hour neutral salt spray test and corrosion resistance to ISO 10277:2006

Burst pressure tested to a 5:1 safety factor

Nano F1 filters are 100% tested for pressure integrity

Independent validation
Filtration performance in validated & tested by independent laboratories in accordance with international filtration & safety standards manufactured in ISO 9001 approved facilities

Validated by ISO 13500:2006 & ISO 12500:2006 ensures international standard for compressed air filter testing

Nano F1 filters carry the CE mark, a guarantee of approved use in compliance of CE/CE.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow (scfm)</th>
<th>Pressure (psig)</th>
<th>Temperature (°F)</th>
<th>Flow (L/min)</th>
<th>Pressure (kPa)</th>
<th>Temperature (°C)</th>
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Flow capacity: 8 - 1500 scfm (13 - 2550 Nm/h)

Filter testing is conducted to ISO 12972-1 standards for compressed air by ISO 12500 ensures international standard for compressed air filter testing

Independent validation
Filtration performance in validated & tested by independent laboratories in accordance with international filtration & safety standards manufactured in ISO 9001 approved facilities

Validated by ISO 13500:2006 & ISO 12500:2006 ensures international standard for compressed air filter testing

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ISO 13500:2006 & ISO 12500:2006 ensures international standard for compressed air filter testing

Nano F1 filters carry the CE mark, a guarantee of approved use in compliance of CE/CE.
Double element o-ring prevents contaminant bypass
Stainless steel cylinders provide strength, rigidity & corrosion resistance
Upright wound inner coil provides extra length on larger elements
Deep-bed filter media provides low differential pressure resulting in improved energy efficiency & long element life
Hydrophobic & oleophobic borosilicate glass microfiber media ensures small oil & water particles for improved coalescing performance
Anti-re-entrainment layer optimizes pressure drop & minimizes differential pressure
Outer drainage layer compatible with synthetic lubricants & prevents oil carry over
Ultrasonic swaged weldment ensures element strength & integrity
Air distribution duct provides uniform air flow, resulting in increased filtration & flow dynamics
Drop-in, self locating elements no tie rod or special tools required, eliminates change out & reduces access requirements for field installation
Corrosion resistant endcaps color coded to provide easy & accurate filtration grade identification
Lower annular location ring prevents element vibration, improves stability in reverse flow [backwash] applications & improves drainage

Filter element features

Filter housing features

Optimized filtration

Every 10 psig of pressure drop represents a 5% increase in compressor energy costs. It is vital to observe a scheduled maintenance program which includes the replacement of filter elements.

We recommend that filter elements are replaced at least every 12 months (6 months for activated carbon). All filters and elements are supplied with an element change out label which adheres to the filter housing and shows when the next change out is required. As a guide, it is advisable to change the filter elements at least every 12 months.

Energy Efficiency

Having a well designed compressed air system with suitable air treatment and filtration is important, but so is monitoring and maintaining that system. Over the ten-year life of an air compressor the cost of energy to run the system far outweighs the capital investment of having it. Maintenance costs account for only 7% of the total costs yet this is a crucial activity for maximizing the energy efficiency of any compressed air system.

Prevented exposure to oil, vapor and particulate matter can, over time, cause the filter elements to become clogged. This can increase the pressure drop compromising not only performance but also resulting in an increase in energy cost.

www.n-psi.com
nano F\textsuperscript{1} compressed air & gas filtration

Clean and oil-free compressed air is easily achieved with the new range of \textit{F\textsuperscript{1}} performance validated compressed air and gas filters. \textit{F\textsuperscript{1}} filters provide:

- Improved filtration for your compressor room or point of use application
- Reliable and efficient liquid and particulate removal with low pressure drop
- Space saving design - no tie rod allows easy bowl removal
- Five element grades from 25 to 0.01 micron
- Quantity two models from B to 1500 with 12.00 cfm
- A comprehensive range of accessories for every application

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

optimized design

- No. \textit{F\textsuperscript{1}} filters are manufactured in a completely computer aided design environment using state-of-the-art CAD software. The design process is in-house and independent of outside sources.

performance standards

- The \textit{F\textsuperscript{1}} filters are manufactured to the highest quality standards and are manufactured in ISO 9001:2008 certified quality environments throughout the industry.

independent validation

- Independent validation of the \textit{F\textsuperscript{1}} filters is afforded through the use of independent test laboratories. The performance of the filters is independently validated by the use of comprehensive testing facilities and an independent laboratory.

design, performance, validation.

<table>
<thead>
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<th>inlet &amp; outlet</th>
<th>rated airflow ((\text{cfm}))</th>
<th>dimensions (\text{(inches)})</th>
<th>approximate weight (\text{(lbs)})</th>
<th>replacement element</th>
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Leading edge technology and hundreds of years of experience – nano purification solutions, your world-class manufacturer & state of the art compressed air and gas solutions to industry. Our commitment to nano is to work alongside our customers and provide unique solutions with the highest quality products to solve your specific challenges.

A wealth of experience and leading edge products are only part of the equation. nano recognize that world-class products to solve your specific challenges.

With state-of-the-art compressed air and gas solutions to industry. Leading edge technology and hundreds of years of experience and provide unique solutions with the highest quality products to solve your specific challenges.

Experience: Customer Service: nano

Clean and dry compressed air is essential in many industries. Inefficient or dirty compressed air can lead to reduced efficiency levels and lower energy costs. These improvements mean reduced pressure loss, increased efficiency levels and lower energy costs.

Advances in filter media provide enhanced filtration performance. These requirements often result in increased system pressure loss reduced energy efficiency and lower energy costs.

New technologies and leadeds are applied to our existing product lines to improve our value proposition as well as our energy efficiency. The performance validated compressed air & gas filtration system includes a variety of filter mounting accessories. It is vital to observe a scheduled maintenance program which includes the replacement of filter elements. The nano filter range has been independently validated to guarantee the highest levels of air quality making the F1 your premier filtration solution.

F1 compressed air & gas filters – in detail

**Filter element features**

- Double element o-ring prevents contamination bypass
- Stainless steel cylinders provide strength, rigidity & corrosion resistance
- Upright wound inner coil provides extra length on larger elements
- Deep bed filter media provides low differential pressure resulting in improved energy efficiency & long element life
- Hydrophobic & oleophobic borosilicate glass microfilter media for improved coalescing performance
- Anti re-entrainment layer optimizes drop-in & minimum differential pressure
- Outer drainage layer compatible with synthetic lubricants & prevents oil carry over
- Ultrasonic weld inner coil enhances element strength & integrity
- Air distribution duct provides uniform air flow, resulting in improved pressure loss & improved filtration & flow dynamics
- Drop-fit, self locating elements no tie rod simplifies element change out & reduces access requirements for future expansion
- Corrosion resistant endcaps color coded to provide easy & accurate filtration grade identification
- Lower annular location ring prevents element vibration, improves stability in reverse air flow (backwash) & reduces energy costs
- A wealth of experience and leadeds are applied to our existing product lines to improve our value proposition as well as our energy efficiency.

**Filter housing features**

- Extensive range parts from 1/4” to 3” in both NPT & BSP & flow capacities up to 1500 scfm
- Compact design allows installation in confined spaces
- Modular design enables easy & compact installation of multiple filters
- Aluminum die cast housing provides exceptional corrosion resistance
- Powder coated exterior provides a tough & abrasion resistant surface, suitable for demanding environments
- Secure bowl connection three full turns ensure head is safely connected to bowl
- High titer rubber seals provide enhanced resistance in challenging environments & applications
- Large condensate reservoir provides extra capacity for bulk oil collection
- Automatic drain standard includes internal overload protection & testing & depressurization
- Hexagon spanner locator for simple bowl removal
- No tie rod for minimum maintenance access
- Chemically compatible design to ensure no contamination of oil-free compressors

**Clean & dry**

Clean and dry compressed air is essential in many industries. Inefficient or dirty compressed air can lead to reduced efficiency levels and lower energy costs.

Advances in filter media provide enhanced filtration performance. These requirements often result in increased system pressure loss reduced energy efficiency and lower energy costs.

Having a well designed compressed air system with suitable air treatment and filtration is important, but so is monitoring and maintaining that system. Over the ten-year life of an air compressor the cost of energy to run the system far outweighs the capital investment, of having it. Maintenance costs account for only 7% of the total costs yet this is a crucial activity for maximising the energy efficiency of any compressed air system.

Repeated exposure to oil, vapor and particulate matter can, over time, cause the filter elements to become clogged. This creates an increase in pressure drop compromising not only performance but also resulting in an increase in energy cost.

**Optimized filtration**

Every 10 psig of pressure drop represents a 5% decrease in compressor energy costs. It is vital to observe a scheduled maintenance program which includes the replacement of filter elements. The nano filter range has been independently validated to guarantee the highest levels of air quality making the F1 your premier filtration solution.

**Energy efficiency**

Advances in filter media provide enhanced filtration performance. These requirements often result in increased system pressure loss reduced energy efficiency and lower energy costs.

Having a well designed compressed air system with suitable air treatment and filtration is important, but so is monitoring and maintaining that system. Over the ten-year life of an air compressor the cost of energy to run the system far outweighs the capital investment, of having it. Maintenance costs account for only 7% of the total costs yet this is a crucial activity for maximising the energy efficiency of any compressed air system.

Repeated exposure to oil, vapor and particulate matter can, over time, cause the filter elements to become clogged. This creates an increase in pressure drop compromising not only performance but also resulting in an increase in energy cost.

**Cost savings**

- Maintenance costs account for only 7% of the total costs yet this is a crucial activity for maximising the energy efficiency of any compressed air system.
- Every 10 psig of pressure drop represents a 5% decrease in compressor energy costs.
- It is vital to observe a scheduled maintenance program which includes the replacement of filter elements.

www.n-psi.com
**F1**

**performance validated compressed air & gas filtration**

flow capacity: 8 - 1500 scfm (13 - 2550 Nm³/hr)

Leading-edge technology and hundreds of years of experience... nano recognize that world-class products are only part of the equation. nano-purification solutions, your world-class manufacturer of state-of-the-art compressed air and gas solutions to industry. Our commitment at nano is to work alongside our customers and provide unique solutions with the highest quality and reliability for your specific challenges.

A wealth of experience and leading edge products are only part of the equation. nano recognize that world-class products to solve your specific challenges. Our commitment at nano is to work alongside our customers and provide unique solutions with the highest quality and reliability for your specific challenges.

**clean & dry**

Clean and dry compressed air is essential in every efficient and profitable manufacturing and process operation worldwide, nano’s vast experience includes food, beverage, chemical, laboratory, medical and natural gas applications. nano understand your needs and has created the nano range of high-performance, energy-saving compressed air and gas purification products to provide clean and dry compressed air and gases at an affordable price with unparalleled reliability.

**optimized filtration**

Advanced filter media provide enhanced filtration performance. These requirements reduce air pressure loss, increased efficiency levels and lower energy costs. Clean and dry compressed air is essential in every efficient and profitable manufacturing and process operation worldwide. nano-purification solutions, your world-class manufacturer of state-of-the-art compressed air and gas solutions to industry. Our commitment at nano is to work alongside our customers and provide unique solutions with the highest quality and reliability for your specific challenges.

**energy efficiency**

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**F1 compressed air & gas filters – in detail**

**filter element features**

- double element o-ring prevents contaminated bypass
- stainless steel cylinders provide strength, safety & corrosion resistance
- spiral wound inner coil provides excellent flow on larger elements
- deep bed filter media provides low differential pressure resulting in improved energy efficiency & long element life
- hydrophobic & oleophobic borosilicate glass microfiber material provides exceptional corrosion resistance
- anti-reentrainment layer optimizes efficiency & minimizes differential pressure
- outer drainage layer provides enhanced resistance & prevents oil carry over
- ultrasonic swirl welded elements ensure element strength & integrity
- air distribution duct provides uniform air flow, resulting in minimal differential pressure & improved filtration & flow dynamics
- drop-in, self locating elements are easy to replace and feature extensive change out life and reduces access requirements for future expansion
- corrosion resistant endcaps color coded to provide easy & accurate filtration grade identification
- lower annular location ring prevents element vibration, improves stability in reverse air flow (dust removal) applications & improves drainage

**filter housing features**

- compact design allows installation in confined spaces
- modular design enables easy & compact installation of multiple filters
- aluminum die cast housing provides exceptional corrosion resistance
- e-coat™ internal coating provides exceptional corrosion resistance & prevents oil carry over
- powder coated exterior provides a tough and abrasion resistant finish for improved corrosion performance
- secure bowl connection three full turns ensure head is safety connected to bowl
- high ribble rubber seals provide enhanced resistance in challenging environments & applications
- large condensate reservoir provides low differential pressure & prevents contaminant bypass
- automatic drain standard provides easy oil analysis & filter testing & depressurization
- hexagon spanner locator for simple bowl removal
- no tie rod for minimum maintenance access
- chemically compatible design for cooling oil lines or oil-less compressors

**system performance**

Every 10 psig of pressure drop represents a 5% increase in compressor energy costs. It is vital to observe a scheduled maintenance program which includes the replacement of filter elements. We recommend that filter elements are replaced at least every 12 months (6 months for activated carbon). All filters and elements are supplied with an element exchange label which adheres to the filter housing and shows when the next change should take place.

**www.n-psi.com**

www.n-psi.com
Clean and oil-free compressed air is easily achieved with the new range of F nano F models from 8 to 1500 scfm at 100 psig. The five element grades from 25 to 0.01 micron provide reliable and efficient liquid and particulate removal with low pressure drop. A comprehensive range of accessories for every application is available.

**Design, Performance, Validation.**

**Optimized Design**
- Computer Aided Design (CAD) analysis
- Fluid Dynamics

**Performance Standards**
- The F nano F filters are manufactured to a complete range of contaminants removal points designed to meet or exceed compressed air purity requirements throughout the industry.
- Conforms to ISO 8573-1, ISO 12500 standards
- NF ISO 8573-1:2001 (E)

**Independent Validation**
- Laboratory testing to the NF ISO 8573-1, ISO 12500 standards
- NF ISO 8573-1:2001 (E)

**Specifications**
- See www.n-psi.com for full details and a copy of the data sheet.

Use in every province of Canada and the United States.

**Reliability is Built In...**
- Backed by a 1 year element warranty
- A 10 year housing warranty!

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**Filter Details**

**Filter Model**
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