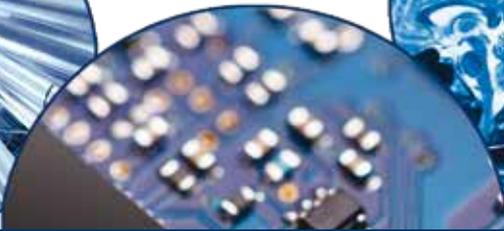
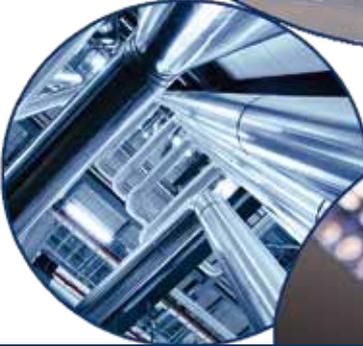


nano



meet & exceed
ISO compressed air quality standards

OUR PRODUCTS



industrial filters

- centrifugal water separators
- performance validated filters
- duplex filters
- medical sterile filters
- vacuum pump protection filters
- medical vacuum filters
- high capacity flanged filters
- high temperature dust filters
- mid pressure aluminum filters
- high pressure stainless steel filters
- mist eliminators



process filters

- stainless steel industrial filters
- sterile air depth filters
- sterile air membrane filters
- culinary steam filters



compressed air dryers

- heatless modular desiccant dryers
- pneumatic heatless modular desiccant dryers
- high pressure compact desiccant dryers
- high pressure twin tower desiccant dryers
- heatless twin tower desiccant dryers
- externally heated twin tower desiccant dryers
- blower purge twin tower desiccant dryers
- rental twin tower desiccant dryers
- cycling refrigerated dryers
- direct expansion refrigerated dryers
- high temperature cycling refrigerated dryers
- high temperature direct expansion refrigerated dryers
- variable speed refrigerated dryers
- membrane dryers



process chillers

- ferrous and non-ferrous chillers
- high efficiency "free-cooling" chillers



CO₂ removal dryers

nitrogen generators

- nitrogen generators (up to 98% purity)
- ultra-high purity nitrogen generators (up to 99.999% purity)
- membrane nitrogen generators
- nitrogen generators for wine industry

breathing air purifiers

- breathing air purifiers (portable & stationary)
- breathing air purifier modules



oil vapor removal systems

condensate treatment systems

condensate drains

- timed solenoid drains
- zero air loss condensate drains

aftercoolers

ISO AIR QUALITY

The ISO 8573 group of international standards is used for the classification of compressed air purity. The standard provides the test methods and analytical techniques for each type of contaminant. ISO 12500-1:2007 specifies the test layout and test procedures required for testing coalescing filters used in compressed air systems to determine their effectiveness in removing oil aerosols. Our filter element performance has been tested to international ISO 12500 to provide filtered compressed air to ISO 8573-1. The table below summarizes the maximum contaminant levels specified in ISO 8573.1: 2010 for the various compressed air quality classes. Each compressed air classification can be achieved by installing a specific selection of nano products depending upon the required performance.

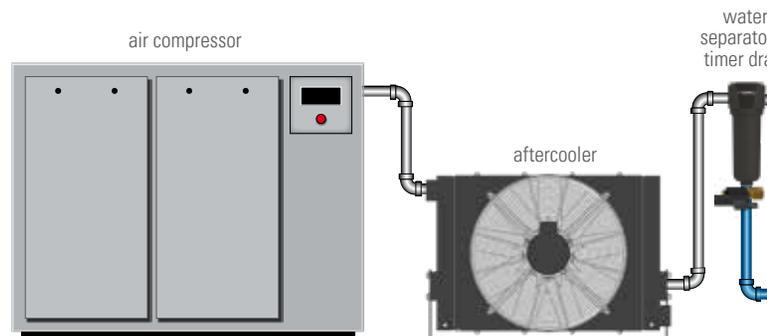
specifications

ISO purity class	solid particles			water		oil
	maximum no. of particles per m ³			concentration	vapor	total oil ⁽¹⁾
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron	mg/m ³	pressure dew point	g/m ³
0	as specified by the equipment user or supplier					
1	≤ 20,000	≤ 400	≤ 10	-	≤ -94°F	≤ 0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ -40°F	≤ 0.1
3	-	≤ 90,000	≤ 1,000	-	≤ -4°F	≤ 1
4	-	-	≤ 10,000	-	≤ 37°F	≤ 5
5	-	-	≤ 100,000	-	≤ 45°F	-
6	-	-	-	≤ 5	≤ 50°F	-
7	-	-	-	5 - 10	-	≤ 0.5
8	-	-	-	-	-	0.5 - 5
9	-	-	-	-	-	5 - 10

(1) all forms of oil including liquids, aerosols and vapor

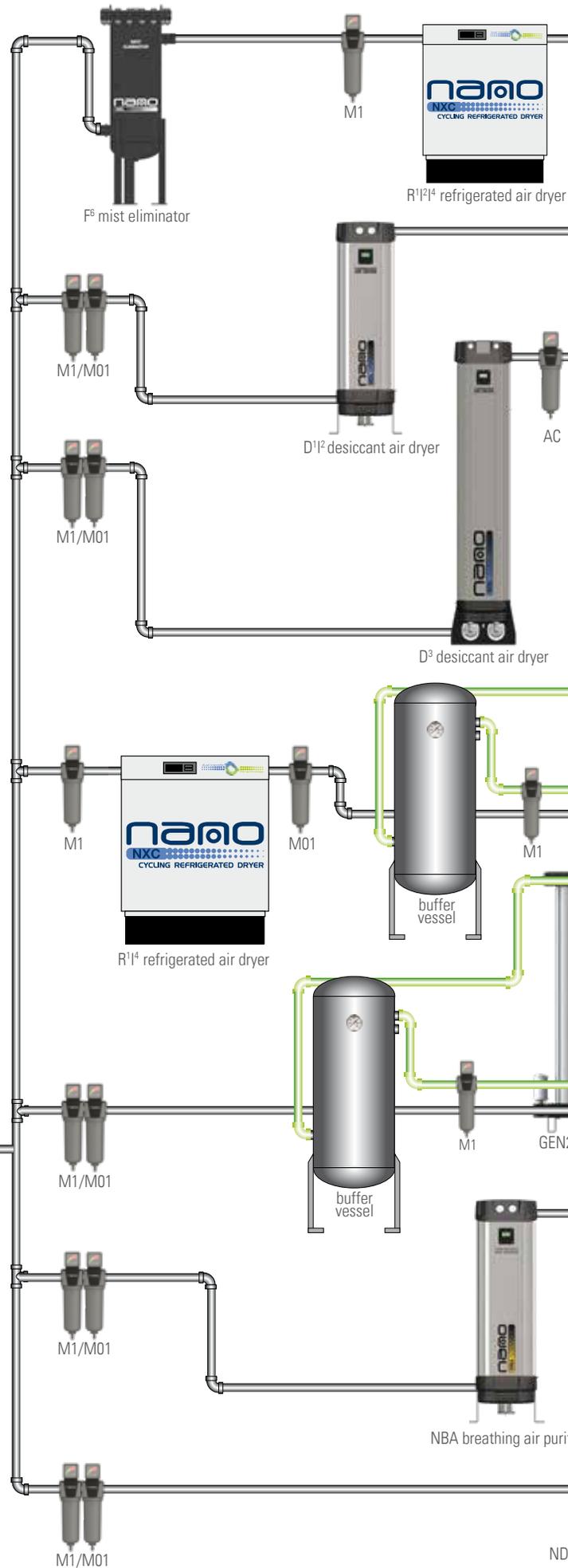
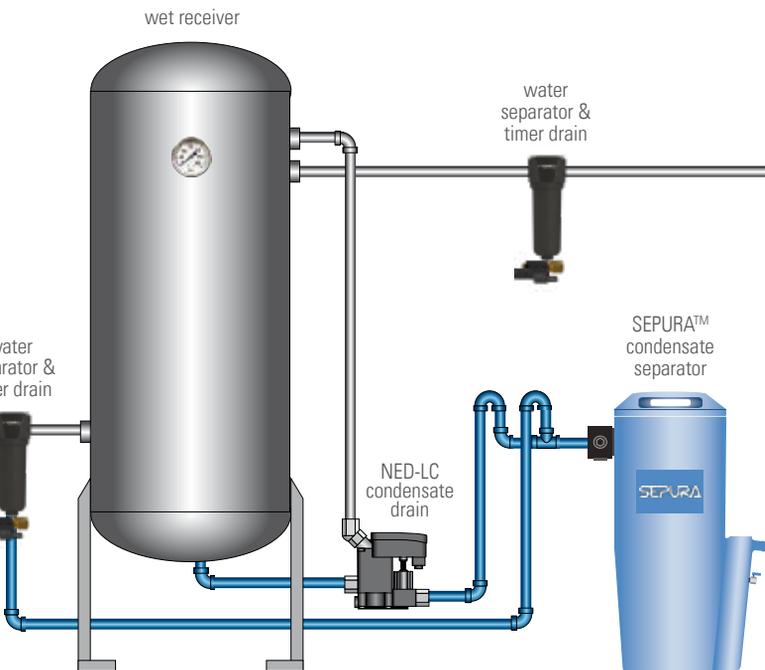
nano product selection

ISO purity class	solid particles	water	oil
0	as agreed by the customer and nano		
1	F ¹ WS + M1 + M01	D ^{1 2 3 4 5}	F ¹ AC - NVR
2	F ¹ WS + M1	D ^{1 2 3 4 5}	F ¹ M01
3	F ¹ WS + M1	D ^{1 2 3 4} or M ¹	F ¹ M1
4	F ¹ WS + M1	R ^{1 4 6} or M ¹	F ¹ M5
5	F ¹ WS + M1	R ^{1 4 6} or M ¹	-
6	F ¹ WS + M5	R ^{1 2 4 6} or M ¹	-
7	F ¹ WS + M25	n/a	-
8	F ¹ WS	n/a	-
9	F ¹ WS	n/a	-



VALIDATED

Our filter element performance has been tested to international standard ISO 12500, to provide filtered compressed air to ISO 8573-1. For a copy of the test reports and validation certificate, please contact us at support@n-psi.com.





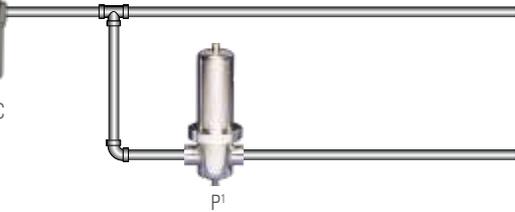
**ISO Class
1.4.2|1.5.2|1.6.2
General Purpose**

- main ring air treatment
- woodworking
- temperature control system
- instrumentation
- pneumatic tools
- abrasives blasting



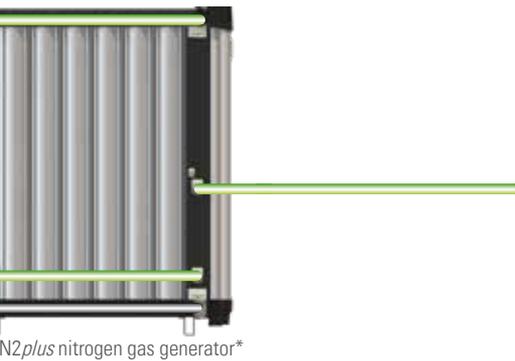
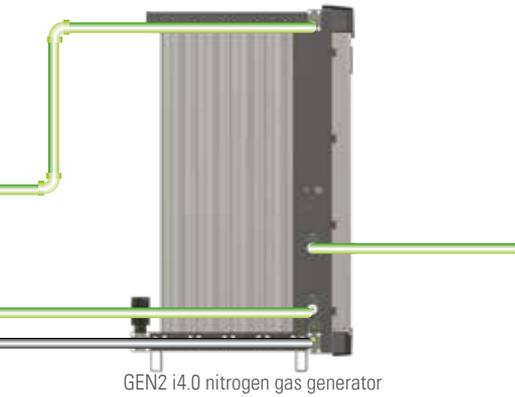
**ISO Class
1.2.2|1.3.2
High Purity Air**

- medical dental air
- pipeline purging
- lasers
- optics
- food packaging



**ISO Class
1.2.1|1.1.1
Ultra High Purity Air**

- semiconductor
 - dairies
 - biotech
 - pharmaceutical
- *SQF (Safe Quality Food specification)



N2 Supply (<99%)

- chemical transfer
- blanketing
- inerting

N2 Supply (>99%)

- food packaging
- soil remediation
- wave soldering
- UHP lab gases
- laser cutting

*with integrated dryer



**ISO Class
1.2.1
Breathable Air**

- breathable air
- CO elimination



**Lab Gas
LC/MS
CO₂ Free Air**



Experience. Customer. Service.

Leading edge technology and hundreds of years of *experience*. . . 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 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 customer *service* is the most important component to any successful business.



DESIGN

Our experienced team of design engineers are always looking for new and unique technologies and products to bring you the highest level of performance and lowest overall operating cost.

RESEARCH & DEVELOPMENT

Our R&D team endeavor to provide solutions that go beyond developing an existing product. They are continually researching new technologies which can provide unique advantages over competitive offerings.



MANUFACTURE

Our products are manufactured and tested in our state-of-the-art facility to the highest standards of build quality to ensure equipment reliability and high levels of performance.

ENVIRONMENTALLY FRIENDLY

Through both product development and manufacturing, we strive to produce high quality products compliant to both local and global environmental legislation. Reduction of carbon footprint through energy saving products and use of environmentally friendly components are our commitment to you.



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