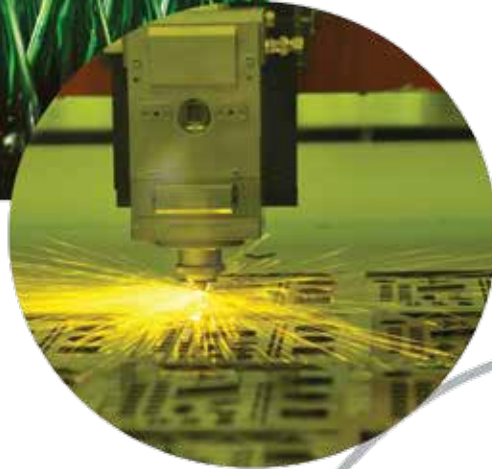


nano

next
generation



high purity nitrogen generators

nitrogen purity: 95% to 99.9%



high purity nitrogen generators

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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.

Experience. Customer. Service... **nano**

dry and pure

Nitrogen is a dry, inert gas which is used in a wide range of applications where oxygen may be harmful to the product or processes. Nitrogen generators use regular compressed air to deliver a continuous supply of high purity nitrogen, offering a cost effective and reliable alternative to the use of cylinder or liquid nitrogen across a wide range of applications.



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

The reliable and energy saving nano ECOGEN₂ range of nitrogen generators are manufactured in our state-of-the-art facility to the highest standards of build quality to ensure equipment reliability and high levels of performance.

ECOGEN₂ nitrogen generators

Nitrogen is used in many commercial and industrial applications to improve the quality of a product or process or as a safety measure to prevent combustion. Liquid or bottled nitrogen delivery and storage can be expensive, unreliable and a safety concern. Nitrogen generators allow users to produce nitrogen in-house simply and inexpensively using an existing compressed air system.

nano recognizes the importance of having a safe, reliable and cost effective supply of high purity nitrogen. We have developed the ECOGEN₂ nitrogen generator to meet the increasing demand for high quality, complete packaged solutions which save energy and time while fulfilling the needs of their intended application.

With traditional methods of gas supply, users are liable for hidden costs such as rental, refill and delivery, order processing charges as well as an environmental levy charge.

When you switch to a nano ECOGEN₂ gas generator you can expect payback typically between 6 to 24 months. Its unique design and energy saving function offers a number of significant advantages over delivered gas options, as well as traditional generator designs.

The compact plug and play system can be installed easily and with minimum cost and disruption and requires only a pre-treated compressed air system to start production. The ECOGEN₂ is ideal for smaller usage applications such as wine production, food packaging and for atmosphere blanketing where a high quality, simple, inexpensive nitrogen supply is required.



benefits

guaranteed performance

- reliable performance based on decades of experience with pressure swing adsorption technology
- 100% function and performance tested at our factory
- 2 year warranty

rapid return on investment

- significant cost savings over cylinder or liquid supply provides a typical return on investment of less than 24 months

easy to install

- the compact design allows installation in spaces too small for twin tower generator systems

safe & reliable

- eliminates the safety hazards of transporting and storing pressurized gas cylinders or liquid nitrogen

environmentally friendly

- lower air consumption and refined controls provide greater energy efficiency
- reduces carbon footprint by eliminating gas delivery to your facility



ECOGEN₂ sizing & specifications

generator model	rated outlet flow (1)								dimensions ins			approx. weight
		99.9% (0.10%)	99.5% (0.50%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	A	B	C	lbs
ECOGEN2 090	scfh	49.4	77.7	95.4	130.7	162.5	187.2	208.4	40.0	15.8	9.3	132
ECOGEN2 110	scfh	84.8	120.1	151.9	204.8	254.3	296.6	332.0	52.8	15.8	9.3	172
ECOGEN2 130	scfh	141.3	197.8	250.7	339.0	423.8	490.9	547.4	76.4	15.8	9.3	232

specifications

design operating pressure range	87 - 145 psig (6 - 10 barg)
design operating temperature range	41 - 122°F (5 - 50°C)
maximum inlet particulate	0.1 micron
maximum inlet oil content	0.01 ppm (3)
required inlet dew point	+38°F (+3°C) PDP (2)
supply voltage	100 - 240 VAC (50 or 60Hz) or 24VDC

pressure correction factors (4)

operating pressure (psig)	90	100	115	130	145
operating pressure (barg)	6	7	8	9	10
correction factor	0.90	1.00	1.10	1.20	1.20

temperature correction factors (4)

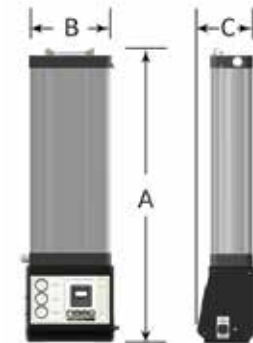
inlet air temperature (°F)	41	50	59	68	77	86	95	104	113	122
inlet air temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor	0.8	0.90	0.94	1.00	1.00	0.98	0.95	0.90	0.85	0.72

(1) at 100 psig (7 barg) inlet pressure and 68 - 77°F (20 - 25°C) inlet temperature. For outlet flow at all other conditions refer to the correction factors above or contact support@n-psi.com

(2) requires an upstream dryer. Contact nano for assistance selecting the optimum dryer for your application

(3) including oil vapor

(4) to be used as a rough guide only. All applications should be confirmed by nano. Contact us for sizing assistance



ECOGEN2 090 to ECOGEN2 130

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