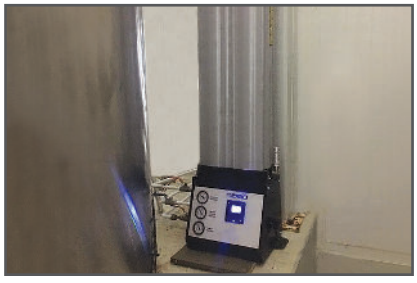
nitrogen generators for small flow applications

FEATURES

- produces nitrogen in-house simply and inexpensively requiring only a pre-treated compressed air system using proven PSA technology
- 3 models with rated flows from 49.4 to 547.4 scfh
- purities from 95 to 99.9%
- typical payback between 6 to 24 months
- plug and play system can be installed easily with minimum cost and disruption
- compact design allows installation in spaces too small for twin tower generator systems
- 100% function and performance tested at factory with 2 year warranty
- lower air consumption and refined controls provide greater energy efficiency
- optional mass flow controller to ensure a consistent nitrogen outlet flow rate removing any fluctuations caused by changes in pressure
- optional oxygen analyzer to allow outlet nitrogen purity to be monitored and displayed on PLC screen
- applications include wine production, food packaging and atmosphere blanketing

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

nano-purification solutions
charlotte, north carolina
united states

nano-purification solutions
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions
gateshead, tyne and wear
united kingdom

nano-purification solutions
erkelenz, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

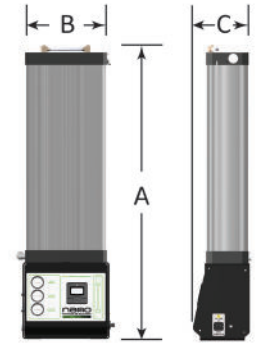
SPECIFICATIONS

model	rated outlet flow [1]	99.9% (0.10%)	99.5% (0.50%)	99% (1%)	98% (2%)	97% (3%)	96% (4%)	95% (5%)	dimensions (inches)			approx. weight
									A	B	C	lbs
ECOGEN2 090	scfh	49.4	77.7	95.4	130.7	162.5	187.2	208.4	42	17	14	119
ECOGEN2 110	scfh	84.8	120.1	151.9	204.8	254.3	296.6	332.0	54	17	14	172
ECOGEN2 130	scfh	141.3	197.8	250.7	339.0	423.8	490.9	547.4	79	17	14	262

specifications	
design operating pressure range	87 to 145 psig
design operating temperature range	41 to 122°F
maximum inlet particulate	0.1 micron
maximum inlet oil content	0.01 micron [2]
maximum inlet dew point	38°F PDP [3]
supply voltage	100 - 240 VAC (50 or 60Hz)

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	1.30

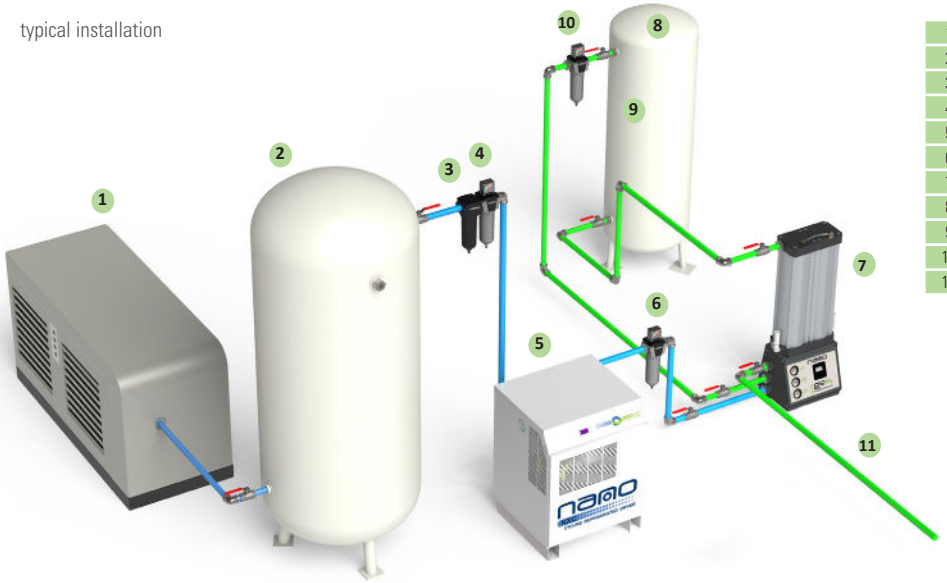
temperature correction factors [4]										
inlet temperature (°F)	41	50	59	68	77	86	95	104	113	122
inlet temperature (°C)	5	10	15	20	25	30	35	40	45	50
correction factor	0.8	0.9	0.94	1.00	1.00	0.98	0.95	0.90	0.85	0.72



ECOGEN2 090 to ECOGEN2 130

(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) including oil vapor
(3) requires an upstream dryer. Contact nano for assistance selecting the optimum dryer for your application
(4) to be used as a rough guide only. All applications should be confirmed by nano. Contact nano for sizing assistance
(5) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

typical installation



1	compressor
2	wet air receiver
3	water separator
4	pre filter
5	refrigerated dryer
6	coalescing filter
7	nitrogen generator
8	pressure relief valve
9	buffer vessel
10	buffer vessel filter
11	nitrogen outlet

MEMBER OF CAGI Compressed Air & Gas Institute

publication ref. n-psi-N2-ECOGEN22022-03-us