

PSA Nitrogen Generator

N2-AS-R



AirSep Alpha Series Nitrogen Generators produce from 450 to 46,905 cubic feet of nitrogen per hour at 99.5% nitrogen concentration. When electricity and an adequate source of compressed air is supplied, these dependable machines can provide nitrogen for practically any application and at concentrations up to 99.999% (10 PPM O₂).

Features

- Produces nitrogen from an independent compressed air source
- Microprocessor controlled
- Low operating cost with energy efficient programming control options
- Automatic and unattended operation
- Easy to install and maintain
- NEMA 4X Touchscreen control panel with integrated nitrogen concentration monitor

Typical Applications

Manufacturing

- Cutting/Brazing/Soldering
- Heat Treatment
- High Pressure Plastic Injection Molding

Oil & Gas/Power Generation

- Onshore/Offshore Exploration
- Mechanical Gas Seal Inerting
- Enhanced Oil Recovery (EOR)
- Transloading Operations

Food & Beverage

- Modified Atmosphere Packaging (MAP)
- Nitrogen CO₂ Gas Mix Beer Drafting
- Controlled Atmosphere(CA)/Fruit Storage
- Wine Bottle Capping

Mining

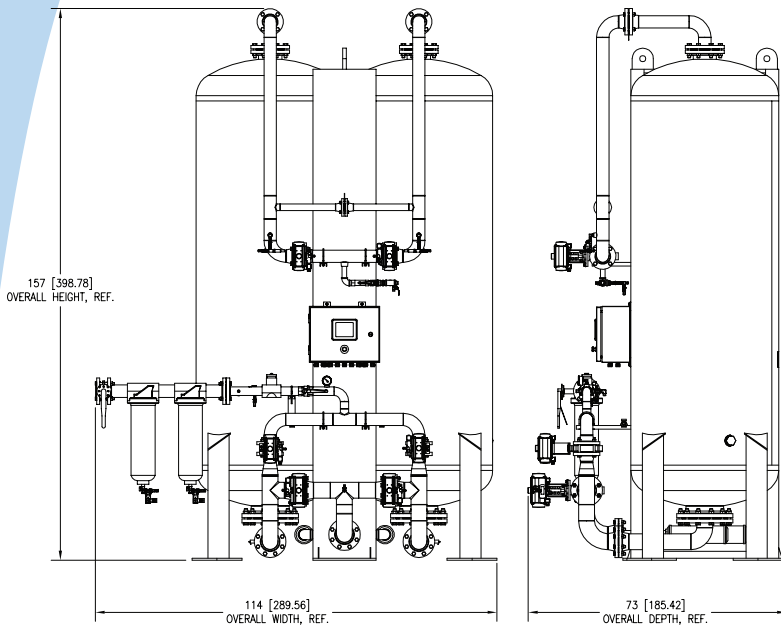
- Control of Lower Explosive Limits (LEL)

Specifications

Product Flow	25,122 SCFH (660 Nm ³ /hr) ¹
Product Pressure	80 – 85 psig (550 – 585 kPa) ¹
Product Concentration	99.5%
Product Dew Point	-65°F (-54°C)
Dimensions (W x D x H) (Nominal)	114 x 73 x 157 in (290 x 185 x 399 cm)
Weight	12,906 lb (5,854 kg)
Physical Connections Compressed Air Inlet Product Gas Outlet	3" 150# ANSI Flange 1½" FNPT
Ambient Operating Conditions	Locate the nitrogen generator in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 104°F (40°C)
Feed Air Requirements	Flow Rate: 1,193 SCFM (31.36 Nm ³ /min) ¹ Clean, Oil-Free and Dry "Plant Air" (Class 5.6.4 per ISO 8573.1) Pressure: 109 psig (752 kPa) minimum Temperature: 109°F (43°C) maximum Dew Point: 40°F (4.4°C) maximum ²
Control Power Requirements (Single Phase)	120 V ~ ±10%, 50/60 Hz, 3.0 A or 220 V ~ ±10%, 50/60 Hz, 1.0 A
NRTL Certifications and Approvals	CAN/CSA-C22.2 No. 61010-1-12, ANSI/UL Std. No. 61010-1:2012
1,550 Gallon Nitrogen Receiver	
Dimensions (Dia. x H)	62 x 180 in (157 x 457 cm)
Weight	2,500 lb (1,134 kg)

¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 0°C

² Feed air dew point up to a maximum 50°F may be approved upon Engineering review based on site conditions.



Note: All dimensions are nominal.

Model N2-AS-R Nitrogen Generator Feed Air Requirement*

Nitrogen Concentration%	Feed Air Usage** (SCFM)	N2-AS-R
99.99	927	12,561
99.95	1,020	16,397
99.9	1,085	18,653
99.5	1,193	25,122
99	1,251	28,432
98	1,404	35,803
97	1,512	41,218
96	1,633	46,429
95	1,724	51,147

**Time weighted average. Contact Factory for air compressor sizing assistance.
* SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F

Ordering Information

Model	Part Number	Description	
N2-AS-R	NGAS110-7	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹	
	NGAS110-8	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹	
Required Accessories	TA085-1	1,550 Gallon Nitrogen Receiver	
Optional Accessories	KI600-X	Accessory Kit (flow control manifold)	
Shipping Information		N2-AS-R	1,550 Gallon Nitrogen Receiver
Class		92.5	70
Commodity Classification Number		8421.39.8040	7311.00.0000
Dimensions (W x D x H)		87 x 158 x 75 in (221 x 401 x 191 cm) Generator (No Pallet) 48 x 48 x 22 in (122 x 122 x 56 cm) Filter and Pallet	70 x 192 x 70 in (178 x 488 x 178 cm)
Gross Weight		12,720 lb (5,770 kg) Generator (No Pallet) 240 lb (109 kg) Filter and Pallet	3,000 lb (1,361 kg)

Warranty: 1 Year Parts and Factory Labor***

*** An unprotected or inadequately ventilated environment, or improper control power may cause damage to the nitrogen generator not covered under warranty.

¹ Specify nitrogen flow and pressure at time of order.

All performance ratings based on an average ambient temperature of 90°F (32°C), up to 1,000 feet elevation, and 80% relative humidity.



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