

PSA Nitrogen Generator

N2-AS-Z



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

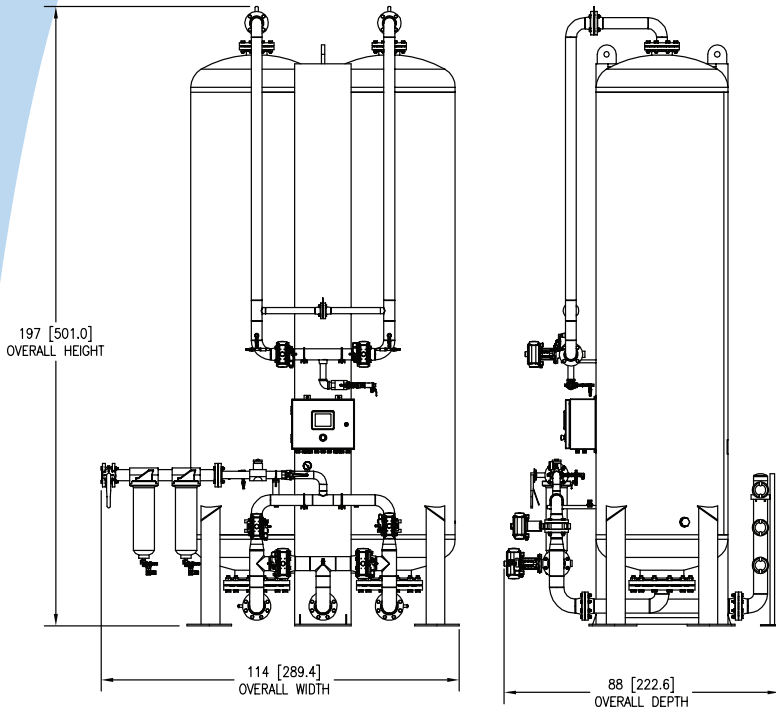
- Control of Lower Explosive Limits (LEL)

Specifications

Product Flow	46,905 SCFH (1,233.04 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 88 x 197 in (290 x 224 x 500 cm)
Weight	20,002 lb (9,073 kg)
Physical Connections	
Compressed Air Inlet	3" 150# ANSI Flange
Product Gas Outlet	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: 2,177 SCFM (57.23 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
2,560 Gallon Nitrogen Receiver	
Dimensions (Dia. x H)	60 x 220 in (152 x 559 cm)
Weight	4,430 lb (2,009 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-Z Nitrogen Generator Feed Air Requirement*

Nitrogen Concentration%	Feed Air Usage** (SCFM)	N2-AS-Z
99.99	1,731	23,031
99.95	1,904	30,615
99.9	2,026	34,827
99.5	2,228	46,905
99	2,335	53,084
98	2,621	66,846
97	2,833	76,958
96	3,050	87,069
95	3,220	95,495

**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-Z	NGAS122-7	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹
	NGAS122-8	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹
Required Accessories	TA175-1	2,560 Gallon Nitrogen Receiver
Optional Accessories	KI600-X	Accessory Kit (flow control manifold)
Shipping Information		N2-AS-Z
		2,560 Gallon Nitrogen Receiver
Class	92.5	70
Commodity Classification Number	8421.39.8040	7311.00.0000
Dimensions (W x D x H)	88 x 220 x 76 in (224 x 559 x 193 cm) Generator (No Pallet) 40 x 48 x 20 in (102 x 122 x 51 cm) Filter and Pallet 48 x 48 x 20 in (102 x 102 x 51 cm) Silencer and Pallet 48 x 48 x 20 in (102 x 102 x 51 cm) Silencer Bracket Pallet	244 x 72 x 84 in (620 x 183 x 213 cm)
Gross Weight	19,300 lb (8,754 kg) Generator (No Pallet) 250 lb (113 kg) Filter and Pallet 200 lb (91 kg) Silencer and Pallet 400 lb (181 kg) Silencer Bracket Pallet	4,860 lb (2,204 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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