

PSA Nitrogen Generator

N2-AS-W



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

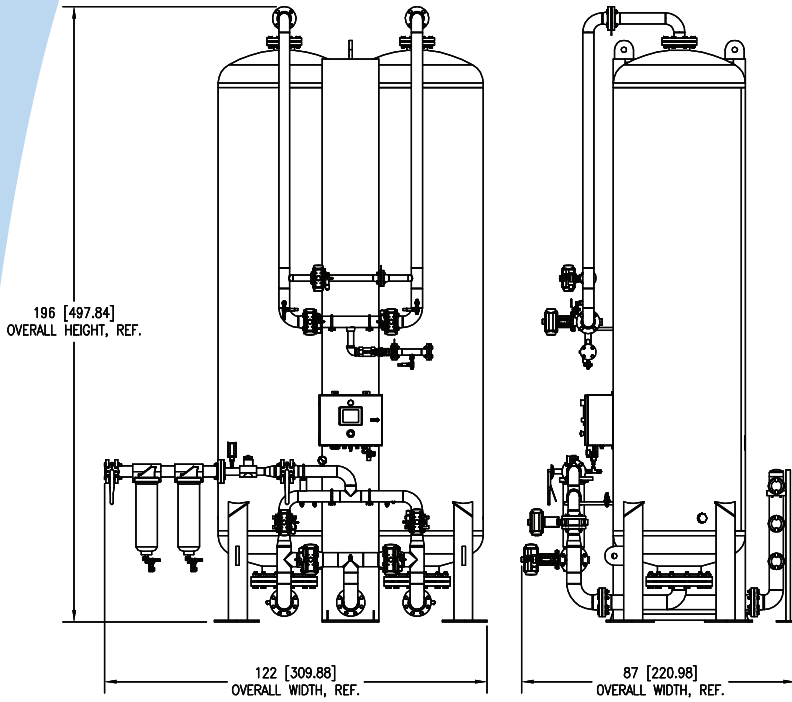
Product Flow	34,494 SCFH (907 Nm ³ /hr) ¹
Product Pressure	80 – 85 psig (550 – 585 kPa) ¹
Product Concentration	99.5%
Product Dew Point	-65°F (-54°C)
Dimensions (W x D x H) (Nominal)	122 x 87 x 196 in (310 x 221 x 498 cm)
Weight	17,012 lb (7,717 kg)
Physical Connections Compressed Air Inlet Product Gas 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: 1,638 SCFM (43.06 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-W Nitrogen Generator Feed Air Requirement*

Nitrogen Concentration%	Feed Air Usage** (SCFM)	N2-AS-W
99.99	1,273	16,937
99.95	1,400	22,514
99.9	1,490	25,612
99.5	1,638	34,494
99	1,717	39,038
98	1,928	49,159
97	2,083	56,595
96	2,243	64,030
95	2,368	70,226

**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-W	NGAS111-7	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹	
	NGAS111-8	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-W	1,550 Gallon Nitrogen Receiver
Class		92.5	70
Commodity Classification Number		8421.39.8040	7311.00.0000
Dimensions (W x D x H)		88 x 204 x 88 in (224 x 518 x 224 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	70 x 192 x 70 in (178 x 488 x 178 cm)
Gross Weight		16,310 lb (7,398 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	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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