

PSA Nitrogen Generator

N2-AS-Q



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

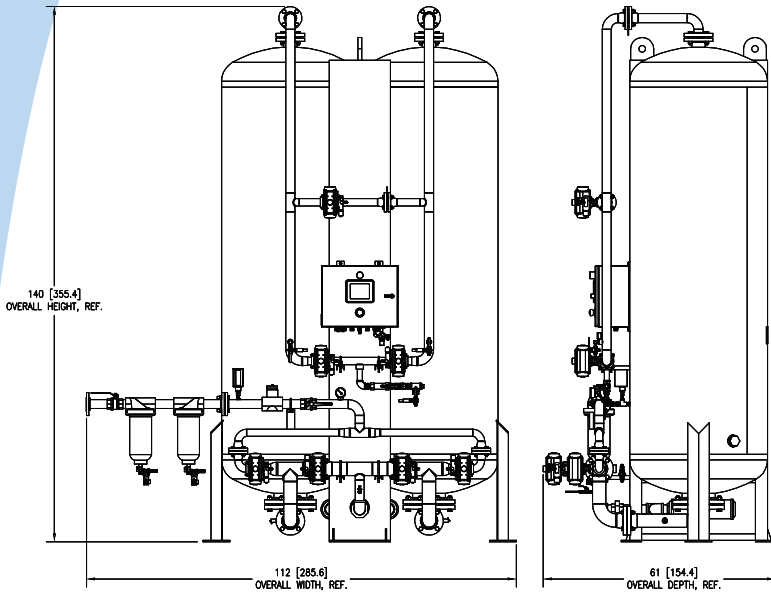
- Control of Lower Explosive Limits (LEL)

Specifications

Product Flow	18,228 SCFH (479 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)	112 x 61 x 140 in (284 x 155 x 356 cm)
Weight	8,025 lb (3,640 kg)
Physical Connections Compressed Air Inlet Product Gas Outlet	2½" 150# ANSI Flange 1" 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: 866 SCFM (22.77 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-Q Nitrogen Generator Feed Air Requirement*

Nitrogen Concentration%	Feed Air Usage** (SCFM)	N2-AS-Q
99.99	675	8,989
99.95	742	11,936
99.9	790	13,579
99.5	866	18,228
99	911	20,697
98	1,022	26,063
97	1,105	27,366
96	1,189	33,948
95	1,255	37,232

**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-Q	NGAS109-7	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹	
	NGAS109-8	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-Q	1,550 Gallon Nitrogen Receiver
Class		92.5	70
Commodity Classification Number		8421.39.8040	7311.00.0000
Dimensions (W x D x H)		84 x 144 x 68 in (213 x 366 x 173 cm) Generator (No Pallet) 48 x 48 x 16 in (122 x 122 x 41 cm) Filter(s) and Pallet	70 x 192 x 70 in (178 x 488 x 178 cm)
Gross Weight		7,950 lb (3,606 kg) Generator (No Pallet) 128 lb (58 kg) Filter(s) 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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