

# PSA Nitrogen Generator

# N2-AS-P



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 O<sub>2</sub>).

## 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 CO<sub>2</sub> Gas Mix Beer Drafting
- Controlled Atmosphere(CA)/Fruit Storage
- Wine Bottle Capping

### Mining

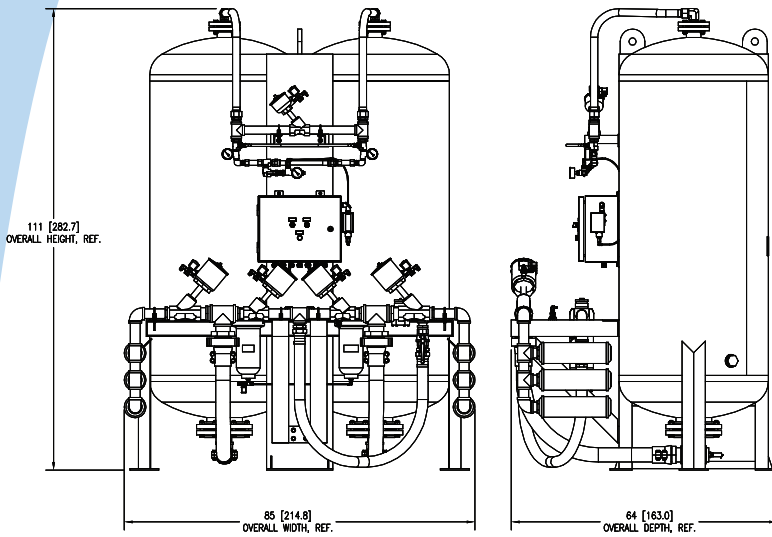
- Control of Lower Explosive Limits (LEL)

## Specifications

Product Flow	14,097 SCFH (371 Nm <sup>3</sup> /hr) <sup>1</sup>
Product Pressure	85 – 90 psig (586 – 621 kPa or 5.8 – 6.2 barg) <sup>1</sup>
Product Concentration	99.5%
Product Dew Point	-65°F (-54°C)
Dimensions (W x D x H) (Nominal)	85 x 64 x 111 in (216 x 163 x 282 cm)
Weight	6,250 lb (2,835 kg)
Physical Connections	
Compressed Air Inlet	2½" FNPT
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: 670 SCFM (17.61 Nm <sup>3</sup> /min) <sup>1</sup> 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 <sup>2</sup>
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
<b>1,060 Gallon Nitrogen Receiver</b>	
Dimensions (Dia. x H)	56 x 152 in (142 x 386 cm)
Weight	2,000 lb (907 kg)

<sup>1</sup> SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F / Nm<sup>3</sup> (Normal cubic meter) gas measured at 1 atmosphere and 0°C

<sup>2</sup> 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-P Nitrogen Generator Feed Air Requirement\*

Nitrogen Concentration%	Feed Air Usage** (SCFM)	N2-AS-P
99.99	520	7,049
99.95	572	9,201
99.9	609	9,969
99.5	670	14,097
99	702	15,955
98	788	20,091
97	851	23,129
96	917	26,169
95	968	28,702

\*\*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-P	NGAS093-7	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz <sup>1</sup>
	NGAS093-8	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz <sup>1</sup>
Required Accessories	TA082-1	1,060 Gallon Nitrogen Receiver
Optional Accessories	KI600-X	Accessory Kit (flow control manifold)
<b>Shipping Information</b>		<b>N2-AS-P</b>
Class	92.5	1,060 Gallon Oxygen Receiver
Commodity Classification Number	8421.39.8040	70
Dimensions (W x D x H)	88 x 114 x 72 in (224 x 290 x 183 cm) with Filter and Pallet	7311.00.0000
Gross Weight	6,710 lb (3,044 kg) with Filter and Pallet	52 x 156 x 60 in (132 x 396 x 152 cm)
		2,200 lb (998 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.

<sup>1</sup> 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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