

# PSA Nitrogen Generator

# N2-AS-R



AirSep Alpha Series Nitrogen Generators produce from 450 to 44,671 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)

### Food & Beverage

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

### Automotive

- Tire Inflation

### Mining

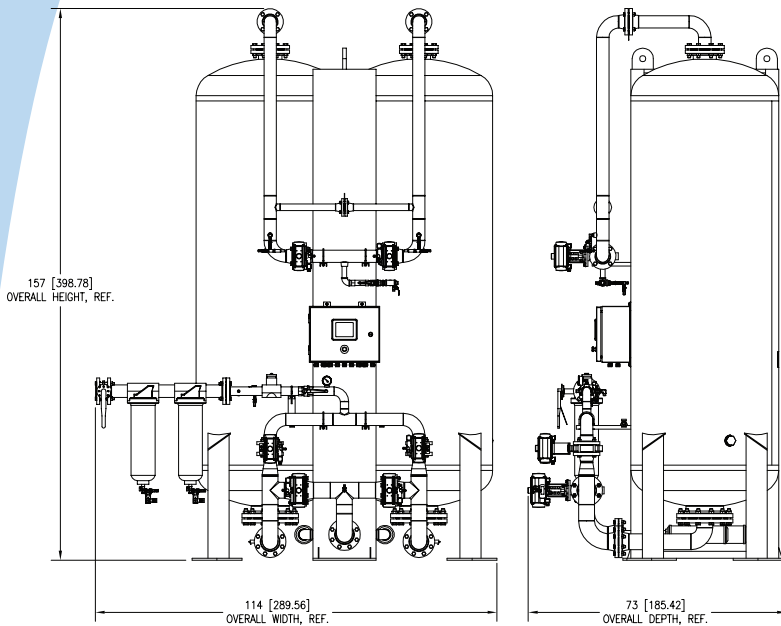
- Control of Lower Explosive Limits (LEL)

## Specifications

Product Flow	25,122 SCFH (660 Nm <sup>3</sup> /hr) <sup>1</sup>
Product Pressure	80 – 85 psig (550 – 585 kPa) <sup>1</sup>
Product Concentration	99.5%
Product Dew Point	-100°F (-73°C)
Dimensions (W x D x H) <sup>2</sup> (Nominal)	114 x 73 x 157 in (290 x 185 x 399 cm)
Weight <sup>2</sup>	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 <sup>3</sup> /min) <sup>1</sup> Clean 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
Control Power Requirements (Single Phase)	120 V ~ ±10%, 50/60 Hz, 3.0 A or 220 V ~ ±10%, 50/60 Hz, 1.0 A
Certifications and Approvals	ASME, CSA, UL
<b>1,550 Gallon Nitrogen Receiver</b>	
Dimensions (Dia. x H)	62 x 180 in (157 x 457 cm)
Weight	2,500 lb (1,134 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> Includes filter assembly which is shipped separately, field assembly (by others) required.



Note: All dimensions are nominal.

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

Nitrogen Concentration%	Feed Air Usage**	N2-AS-R
99.99		12,561
99.95		16,397
99.9		18,653
99.5	1,193 SCFM	25,122
99		28,432
98		35,803
97		41,218
96		46,429
95		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 <sup>1</sup>
	NGAS110-8	With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz <sup>1</sup>
Required Accessories	TA085-1	1,550 Gallon Nitrogen Receiver
Optional Accessories	KI600-X	Accessory Kit (flow control manifold)
Interconnecting hoses available. Contact Factory for details.		

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.

<sup>1</sup> Specify nitrogen flow and pressure at time of order.

All performance ratings based on an ambient temperature up to 100°F (38°C), up to 1,000 feet elevation, and 80% relative humidity.



© 2018 AirSep Corporation. All Rights Reserved.  
AirSep reserves the right to discontinue its products, or change the prices, materials, equipment, quality, descriptions, specifications and/or processes to its products at any time without prior notice and with no further obligation or consequence. Any rights expressly stated herein are reserved by us, as applicable.



260 Creekside Drive  
Buffalo, NY 14228-2075 U.S.A.  
Tel: (716) 691-0202 ■ Fax: (716) 691-1255  
www.airsepcpd.com ■ info@airsep.com  
ML-IND0047 A