

# PSA Nitrogen Generator

# N2-AS-E



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)

### 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                              | 979 SCFH (25.74 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)          | 33 x 27 x 68 in (84 x 69 x 173 cm)   |
| Weight                                    | 721 lb (327 kg)  |
| Physical Connections <sup>2</sup>         |  |
| Compressed Air Inlet                      | ½" FNPT  |
| Product Gas Outlet                        | ½" 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: 51 SCFM (1.34 Nm <sup>3</sup> /min) <sup>1</sup><br>Clean, Oil-Free and Dry "Plant Air" (Class 5.6.4 per ISO 8573.1)<br>Pressure: 109 psig (752 kPa) minimum<br>Temperature: 109°F (43°C) maximum<br>Dew Point: 40°F (4.4°C) maximum <sup>3</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  |

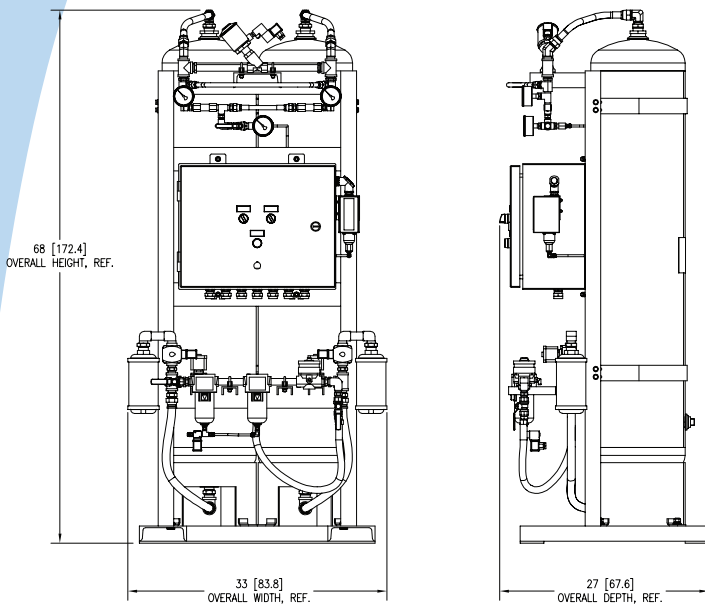
### 120 Gallon Nitrogen Receiver

|                       |                          |
|-----------------------|--------------------------|
| Dimensions (Dia. x H) | 24 x 79 in (61 x 199 cm) |
| Weight                | 282 lb (128 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> Hose and applicable adapters included with optional Factory-supplied accessory kits.

<sup>3</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-E Nitrogen Generator Feed Air Requirement\*

| Nitrogen Concentration% | Feed Air Usage** (SCFM) | N2-AS-E |
|-------------------------|-------------------------|---------|
| 99.99                   | 37                      | 481     |
| 99.95                   | 41                      | 639     |
| 99.9                    | 44                      | 727     |
| 99.5                    | 48                      | 979     |
| 99                      | 50                      | 1,107   |
| 98                      | 56                      | 1,395   |
| 97                      | 61                      | 1,606   |
| 96                      | 66                      | 1,817   |
| 95                      | 69                      | 1,993   |

\*\*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-E                         | NGAS103-7   | With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz <sup>1</sup>  |                                      |
|                                 | NGAS103-8   | With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz <sup>1</sup>  |                                      |
| Required Accessories            | TA151-1     | 120 Gallon Nitrogen Receiver  |                                      |
| Optional Accessories            | KI600-X     | Accessory Kit (flow control manifold)<br>Interconnecting hoses available. Contact Factory for details.  |                                      |
| Shipping Information            |             | N2-AS-E   | 120 Gallon Nitrogen Receiver         |
| Class                           |             | 92.5  | 70                                   |
| Commodity Classification Number |             | 8421.39.8040  | 7311.00.0000                         |
| Dimensions (W x D x H)          |             | 34 x 41 x 85 in (86 x 104 x 216 cm) with Accessory Kit(s), Crated<br>34 x 41 x 85 in (86 x 104 x 216 cm) with Accessory Kit(s) and CE Beds, Crated<br>38 x 86 x 37 in (97 x 218 x 94 cm) with CE Beds, Horizontal | 40 x 48 x 85 in (102 x 122 x 216 cm) |
| Gross Weight                    |             | 885 lb (401 kg) with Accessory Kit(s), Crated<br>916 lb (415 kg) with Accessory Kit(s) and CE Beds, Crated<br>1,099 lb (499 kg) with CE Beds, Horizontal  | 356 lb (161 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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