

PSA Nitrogen Generator

N2-AS-D+



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)

Food & Beverage

- Modified Atmosphere Packaging (MAP)
- Nitrogen CO₂ 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 | 450 SCFH (12 Nm ³ /hr) ¹ |
| Product Pressure | 85 – 90 psig (586 – 621 kPa or 5.8 – 6.2 barg) ¹ |
| Product Concentration | 99.5% |
| Product Dew Point | -65°F (-54°C) |
| Dimensions (W x D x H) (Nominal) | 27 x 22 x 69 in (69 x 56 x 175 cm) |
| Weight | 498 lb (226 kg) |
| Physical Connections ² | |
| 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: 22 SCFM (.58 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 ³ |
| 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 |

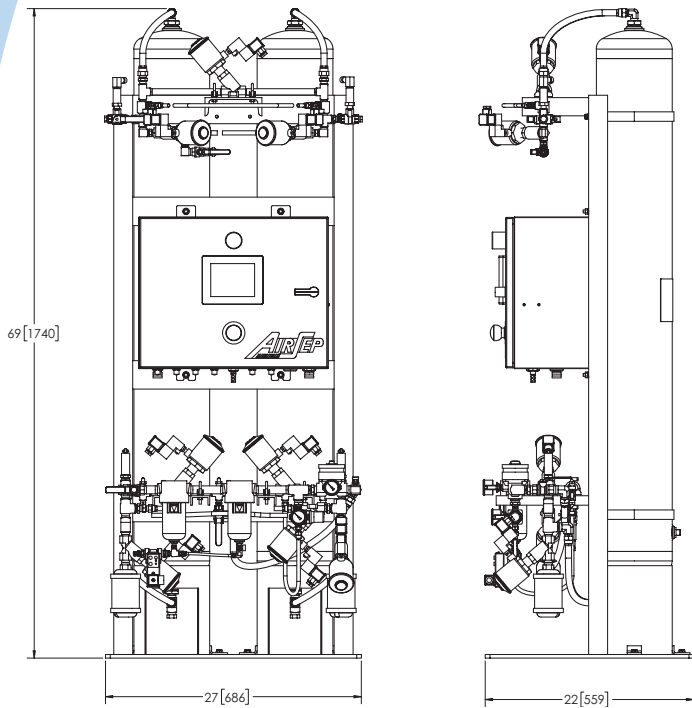
120 Gallon Nitrogen Receiver

| | |
|-----------------------|--------------------------|
| Dimensions (Dia. x H) | 24 x 79 in (61 x 199 cm) |
| Weight | 282 lb (128 kg) |

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 Hose and applicable adapters included with optional Factory-supplied accessory kits.

³ 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-D+ Nitrogen Generator Feed Air Requirement*

| Nitrogen Concentration% | Feed Air Usage** (SCFM) | N2-AS-D+ |
|-------------------------|-------------------------|----------|
| 99.99 | 17 | 225 |
| 99.95 | 19 | 294 |
| 99.9 | 20 | 335 |
| 99.5 | 22 | 450 |
| 99 | 23 | 520 |
| 98 | 26 | 654 |
| 97 | 28 | 753 |
| 96 | 30 | 852 |
| 95 | 32 | 935 |

**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-D+ | NGAS097-7 | With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹ |
| | NGAS097-8 | With HMI NEMA 4X Touchscreen and nitrogen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹ |
| Required Accessories | TA151-1 | 120 Gallon Nitrogen Receiver |
| Optional Accessories | KI600-X | Accessory Kit (flow control manifold) Interconnecting hoses available. Contact Factory for details. |
| Shipping Information | | |
| | N2-AS-D+ | 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 | 40 x 48 x 85 in (102 x 122 x 216 cm) |
| Gross Weight | 605 lb (274 kg) with Accessory Kit(s), Crated | 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.

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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