

PSA Oxygen Generator

AS-R



AirSep Alpha Series Oxygen Generators produce from 20 to 5,500 cubic feet of oxygen per hour at up to 95% oxygen concentration. When electricity and a source of compressed air is supplied, these dependable machines can provide oxygen for practically any application.

Features

- Produces oxygen from an independent compressed air source
- Microprocessor controlled
- Low operating cost
- Automatic and unattended operation
- Easy to install and maintain
- HMI NEMA 4 Touchscreen control panel with integrated oxygen concentration monitor

Typical Applications

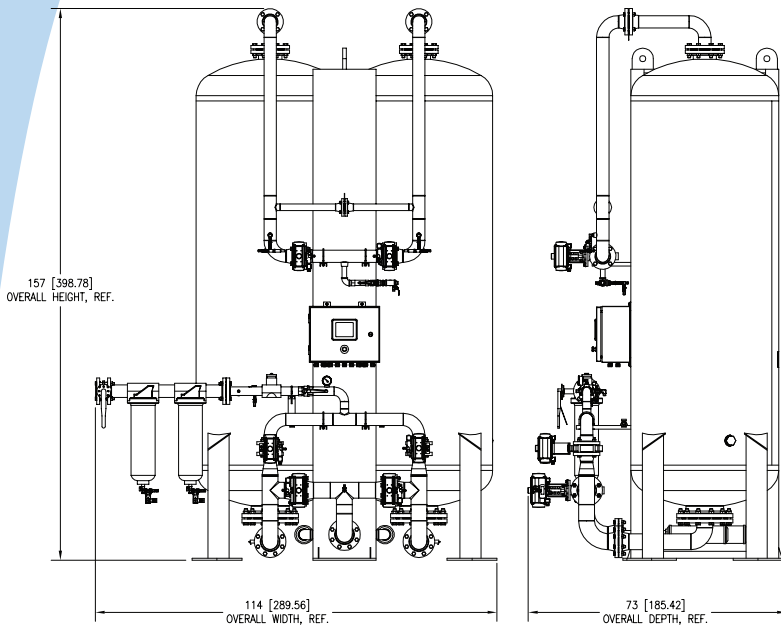
- Cutting/Brazing/Soldering
- Environmental Remediation
- Fish Farming
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Thermal/Chemical Oxidation
- Waste/Water Treatment

Specifications

| | |
|--|---|
| Product Flow | 3,000 – 3,700 SCFH (78.86 – 97.27 Nm ³ /hr or 1,415 – 1,746 SLPM) ¹ |
| Product Pressure | 45 – 65 psig (310 – 448 kPa or 3.0 – 4.4 barg) ¹ |
| Product Concentration | Up to 95% |
| Product Dew Point | -100°F (-73°C) |
| Dimensions (W x D x H) ² (Nominal) | 114 x 73 x 157 in (290 x 185 x 399 cm) |
| Weight ² | 12,906 lb (5,854 kg) |
| Physical Connections Compressed Air Inlet Product Gas Outlet | 3" 150# ANSI Flange 1" NPT |
| Ambient Operating Conditions | Locate the oxygen generator in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 104°F (40°C) |
| Storage Temperature Humidity | -13°F (-25°C) to 131°F (55°C) 0-90% (non-condensing) |
| Feed Air Requirements | Flow Rate: <i>Refer to chart on reverse page.</i> Clean and Dry "Plant Air" (Class 5.6.4 per ISO 8573.1) Pressure: 90 psig (621 kPa or 6.2 barg) minimum Temperature: 122°F (50°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 |
| NRTL Certifications and Approvals | ASME Section VIII Division 1, CAN/CSA-C22.2 No. 61010-1-12, ANSI/UL Std. No. 61010-1:2012 (for 120 V configurations only) |
| 1,060 Gallon Oxygen Receiver | |
| Dimensions (Dia. x H) | 56 x 152 in (142 x 386 cm) |
| Weight | 2,000 lb (907 kg) |

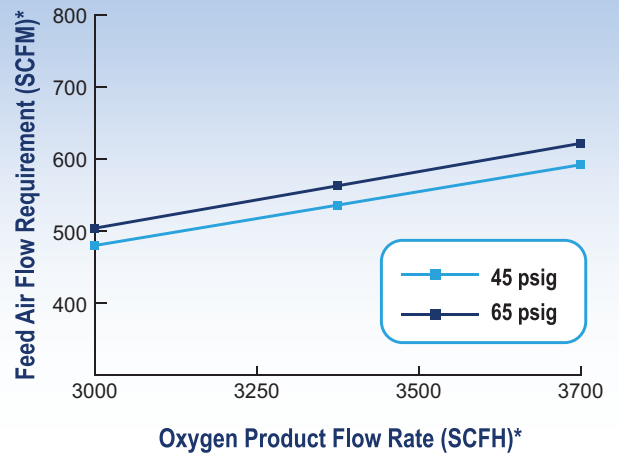
¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F (21°C) / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 32°F (0°C) / SLPM (Standard liters per minute) gas measured at 1 atmosphere and 70°F (21°C)

² Includes filter assembly which is shipped separately, field assembly (by others) required.



Note: All dimensions are nominal.

Model AS-R Oxygen Generator Feed Air Requirement**



* SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F

**Time weighted average. Contact Factory for air compressor sizing assistance.

Ordering Information

| Model | Part Number | Description | |
|---------------------------------|-------------|--|---------------------------------------|
| AS-R | AS110-7 | With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹ | |
| | AS110-8 | With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹ | |
| | AS110-21 | With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹ | |
| Required Accessories | TA082-1 | 1,060 Gallon Oxygen Receiver | |
| | RG106-1 | Regulator, Oxygen, 1½" (30 – 80 psig, 2,400 – 8,000 SCFH) | |
| Optional Accessories | KI375-12 | Carbon Filter Add-On Kit | |
| | AN021-1 | Oxygen Analyzer (Maxtec Handi) | |
| | AN005-1 | Oxygen Analyzer (Maxtec Max O ₂ Plus) | |
| | AN075-1 | Oxygen Analyzer/Sensor (Maxtec Max O ₂ Plus) | |
| Shipping Information | | AS-R | 1,060 Gallon Oxygen Receiver |
| Class | | 92.5 | 70 |
| Commodity Classification Number | | 8421.39.8040 | 7311.00.0000 |
| Dimensions (L x W x H) | | 158 x 87 x 75 in (401 x 221 x 191 cm) Generator (No Pallet) 48 x 48 x 22 in (122 x 122 x 56 cm) Filter and Pallet | 156 x 68 x 63 in (396 x 173 x 160 cm) |
| Approximate Gross Weight | | 12,556 lb (5,695 kg) Generator (No Pallet) 240 lb (109 kg) Filter and Pallet | 2,234 lb (1,013 kg) |

Warranty: 1 Year Parts and Factory Labor***

*** An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator not covered under warranty.

¹ Specify oxygen 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.



© 2021 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.airsep.com ■ info@airsep.com
ML-IND0020 E