

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

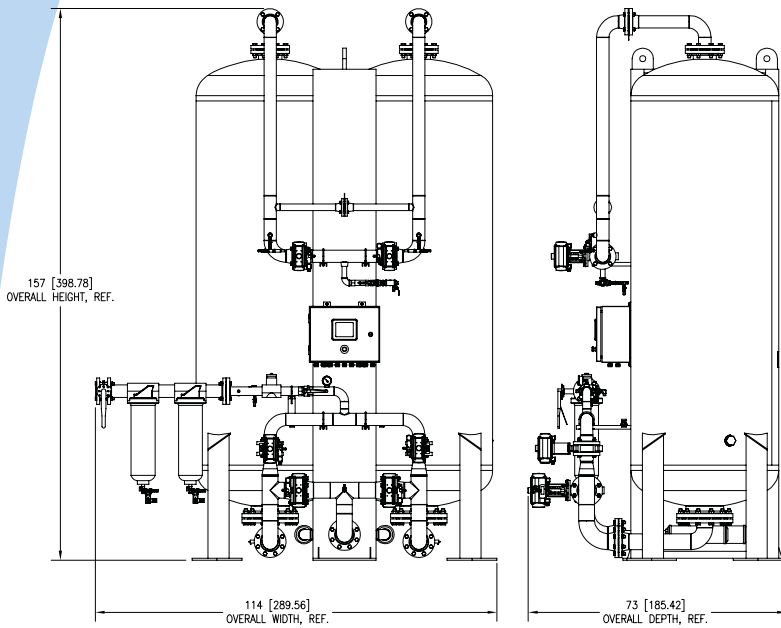
- Cutting/Brazing/Soldering
- Environmental Remediation
- Fish Farming
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Thermal/Chemical Oxidation
- Waste/Water Treatment

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)

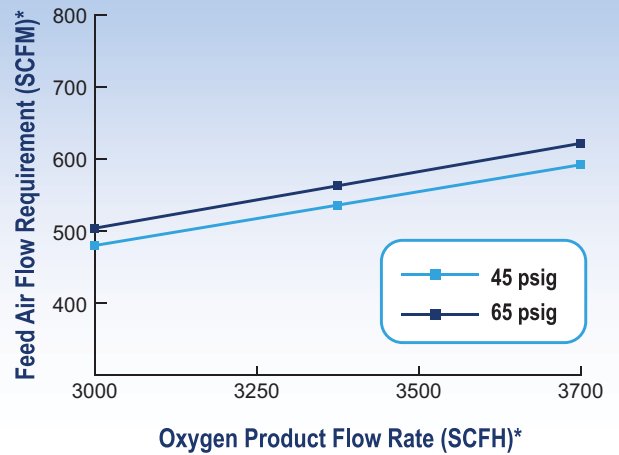
¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F (21°C) / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 32°F (0°C) / SLPM (Standard liters per minute) gas measured at 1 atmosphere and 70°F (21°C)

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.



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