

PSA Oxygen Generator

AS-Q



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

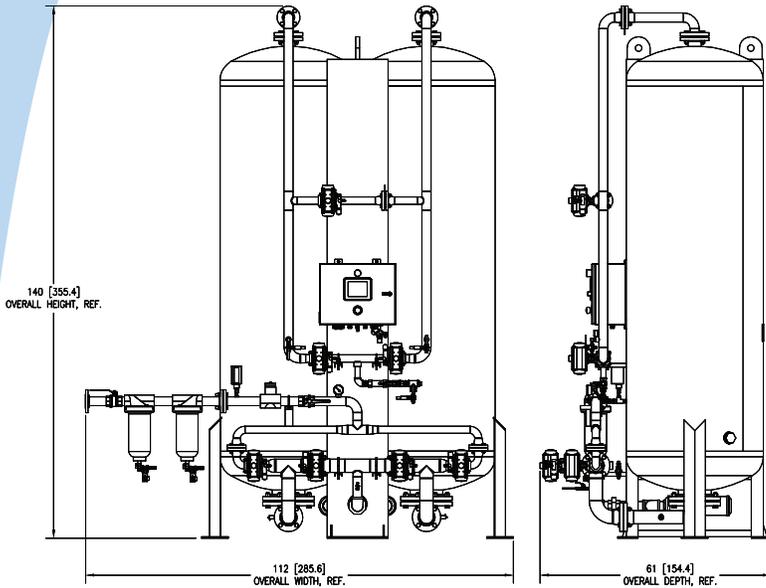
- Cutting/Brazing/Soldering
- Environmental Remediation
- Fish Farming
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Thermal/Chemical Oxidation
- Waste/Water Treatment

Specifications

Product Flow	2,500 – 2,800 SCFH (65.72 – 73.61 Nm ³ /hr or 1,179 – 1,321 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)	112 x 61 x 140 in (284 x 155 x 356 cm)
Weight ²	8,025 lb (3,640 kg)
Physical Connections Compressed Air Inlet Product Gas Outlet	2" 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)
660 Gallon Oxygen Receiver	
Dimensions (Dia. x H)	42 x 128 in (107 x 325 cm)
Weight	1,300 lb (590 kg)

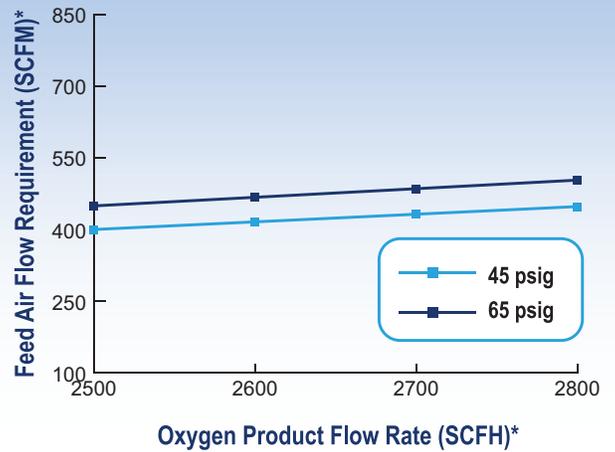
¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F (21°C) / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 32°F (0°C) / SLPM (Standard liters per minute) gas measured at 1 atmosphere and 70°F (21°C)

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



Note: All dimensions are nominal.

Model AS-Q 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-Q	AS109-7	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹
	AS109-8	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹
	AS109-21	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹
Required Accessories	TA079-1	660 Gallon Oxygen Receiver
Optional Accessories	RG086-1	Regulator, Oxygen, 1" (30 – 80 psig, 2,000 – 5,000 SCFH)
	KI375-8	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-Q	660 Gallon Oxygen Receiver
Class	92.5	70
Commodity Classification Number	8421.39.8040	7311.00.0000
Dimensions (L x W x H)	144 x 84 x 68 in (366 x 213 x 173 cm) Generator (No Pallet) 48 x 48 x 16 in (122 x 122 x 41 cm) Filter(s) and Pallet	134 x 48 x 47 in (340 x 122 x 119 cm)
Approximate Gross Weight	7,950 lb (3,606 kg) Generator (No Pallet) 128 lb (58 kg) Filter(s) and Pallet	1,520 lb (689 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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