

# PSA Oxygen Generator

# AS-K



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
- NEMA 4 Touchscreen control panel with integrated oxygen concentration monitor (available on some models)

## Typical Applications

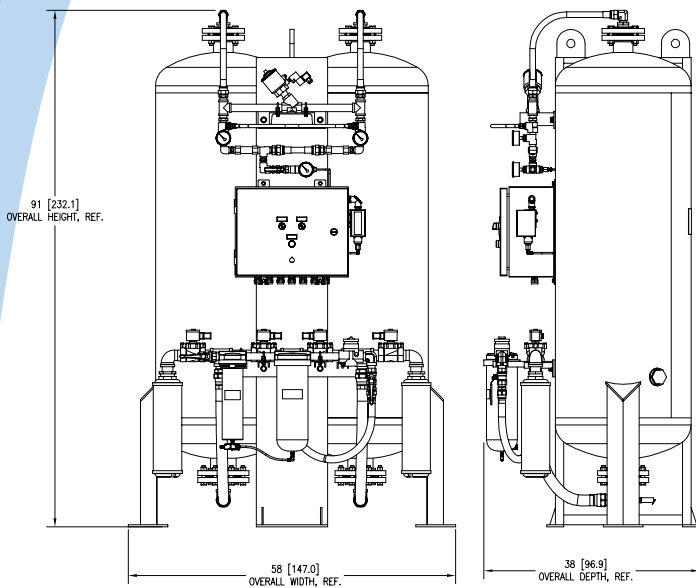
- Cutting/Brazing/Soldering
- Environmental Remediation
- Fish Farming
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Thermal/Chemical Oxidation
- Waste/Water Treatment

## Specifications

Product Flow	750 – 900 SCFH (19.72 – 23.66 Nm <sup>3</sup> /hr or 353 – 424 SLPM) <sup>1</sup>
Product Pressure	45 – 65 psig (310 – 448 kPa or 3.0 – 4.4 barg) <sup>1</sup>
Product Concentration	Up to 95%
Product Dew Point	-100°F (-73°C)
Dimensions (W x D x H) (Nominal)	58 x 38 x 91 in (147 x 97 x 231 cm)
Weight	2,690 lb (1,220 kg)
Physical Connections <sup>2</sup> Compressed Air Inlet Product Gas Outlet	1" FNPT ¾" FNPT
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	China Pressure Vessel, 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)
<b>290 Gallon Oxygen Receiver</b>	
Dimensions (Dia. x H)	37 x 80 in (94 x 202 cm)
Weight	500 lb (227 kg)

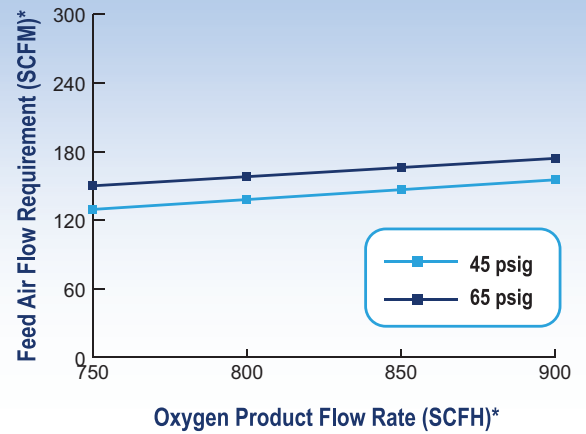
<sup>1</sup> SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F (21°C) / Nm<sup>3</sup> (Normal cubic meter) gas measured at 1 atmosphere and 32°F (0°C) / SLPM (Standard liters per minute) gas measured at 1 atmosphere and 70°F (21°C)

<sup>2</sup> Hose and applicable adapters included with optional Factory-supplied accessory kits.



Note: All dimensions are nominal.

### Model AS-K 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-K	AS106-1	120 V ~ ±10%, 50/60 Hz
	AS106-2	220 V ~ ±10%, 50/60 Hz
	AS106-3	With NEMA 4 Pressure Switch, 120 V ~ ±10%, 50/60 Hz
	AS106-4	With NEMA 4 Pressure Switch, 220 V ~ ±10%, 50/60 Hz
	AS106-7	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ~ ±10%, 50/60 Hz
	AS106-8	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz
	AS106-10	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 120 V ~ ±10%, 50/60 Hz
	AS106-11	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 220 V ~ ±10%, 50/60 Hz
	AS106-12	With oxygen concentration monitor (LED indicator), 120 V ~ ±10%, 50/60 Hz
	AS106-13	With oxygen concentration monitor (LED indicator), 220 V ~ ±10%, 50/60 Hz
Required Accessories	AS106-16	With China Approved Vessels, 220 V ~ ±10%, 50/60 Hz
	TA152-1	290 Gallon Oxygen Receiver
	KI414-1	Accessory Kit (interconnecting hoses/fittings and oxygen regulator)
Optional Accessories	KI414-2	Accessory Kit (interconnecting hoses/fittings, oxygen regulator and oxygen filter)
	KI414-3	Accessory Kit (HMI, interconnecting hoses/fittings, isolation valve with oxygen regulator and oxygen filter)
	KI477-1	Accessory Kit (10 ft stainless braided oxygen hose - from oxygen regulator to use point)
	KI375-5	Carbon Filter Add-On Kit
	AN021-1	Oxygen Analyzer (Maxtec Handi)
	AN005-1	Oxygen Analyzer (Maxtec Max O <sub>2</sub> Plus)
AN075-1	Oxygen Analyzer/Sensor (Maxtec Max O <sub>2</sub> Plus)	

Shipping Information	AS-K	290 Gallon Oxygen Receiver
Class	92.5	70
Commodity Classification Number	8421.39.8040	7311.00.0000
Dimensions (L x W x H)	96 x 60 x 50 in (244 x 152 x 127 cm) with Accessory Kit(s) and Filter with Pallet 97 x 61 x 56 in (246 x 155 x 142 cm) with Accessory Kit(s) and Filter with Pallet, Crated	48 x 48 x 85 in (122 x 122 x 216 cm)
Approximate Gross Weight	2,970 lb (1,347 kg) with Accessory Kit(s) and Filter with Pallet 3,238 lb (1,469 kg) with Accessory Kit(s) and Filter with Pallet, Crated	634 lb (288 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.

† 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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