

PSA Oxygen Generator

AS-L



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

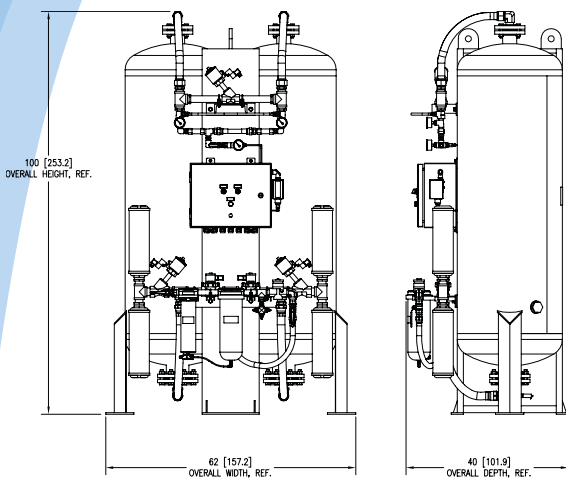
- Cutting/Brazing/Soldering
- Environmental Remediation
- Fish Farming
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Thermal/Chemical Oxidation
- Waste/Water Treatment

Specifications

Product Flow	1,000 – 1,300 SCFH (26.29 – 34.18 Nm ³ /hr or 471 – 613 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) (Nominal)	62 x 40 x 100 in (158 x 102 x 254 cm)	
Weight	3,400 lb (1,542 kg)	
Physical Connections ²		
Compressed Air Inlet	1" FNPT	
Product Gas Outlet	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	-13°F (-25°C) to 131°F (55°C)	
Humidity	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)	
	290 Gallon Oxygen Receiver	400 Gallon Oxygen Receiver
Sizing Requirement	For flows up to 1,199 SCFH (31.52 Nm ³ /hr) ¹	For flows above 1,199 SCFH (31.52 Nm ³ /hr) ¹
Dimensions (Dia. x H)	37 x 80 in (94 x 202 cm)	36 x 103 in (91 x 262 cm)
Weight	500 lb (227 kg)	600 lb (272 kg)

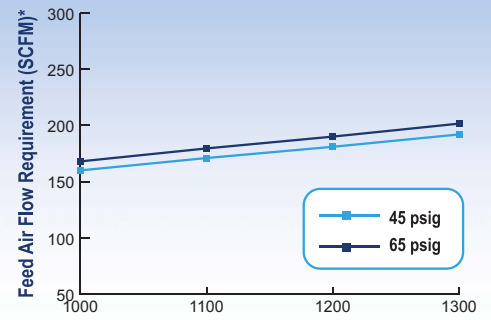
¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F (21°C) / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 32°F (0°C) / SLPM (Standard liters per minute) gas measured at 1 atmosphere and 70°F (21°C)

² Hose and applicable adapters included with optional Factory-supplied accessory kits.



Note: All dimensions are nominal.

Model AS-L 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-L	AS107-1	120 V - ±10%, 50/60 Hz	
	AS107-2	220 V - ±10%, 50/60 Hz	
	AS107-3	With NEMA 4 Pressure Switch, 120 V - ±10%, 50/60 Hz	
	AS107-4	With NEMA 4 Pressure Switch, 220 V - ±10%, 50/60 Hz	
	AS107-7	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V - ±10%, 50/60 Hz	
	AS107-8	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V - ±10%, 50/60 Hz	
	AS107-10	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 120 V - ±10%, 50/60 Hz	
	AS107-11	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 220 V - ±10%, 50/60 Hz	
	AS107-12	With oxygen concentration monitor (LED indicator), 120 V - ±10%, 50/60 Hz	
	AS107-13	With oxygen concentration monitor (LED indicator), 220 V - ±10%, 50/60 Hz	
	AS107-16	With China Approved Vessels, 220 V - ±10%, 50/60 Hz	
	Required Accessories	TA152-1	290 Gallon Oxygen Receiver [for flows up to 1,199 SCFH (31.52 Nm ³ /hr)]
		TA153-1	400 Gallon Oxygen Receiver [for flows above 1,199 SCFH (31.52 Nm ³ /hr)]
		KI414-1	Accessory Kit (interconnecting hoses/fittings and oxygen regulator)
		KI414-2	Accessory Kit (interconnecting hoses/fittings, oxygen regulator and oxygen filter) [for use with TA152-1]
		KI414-3	Accessory Kit (HMI, interconnecting hoses/fittings, isolation valve with oxygen regulator and oxygen filter) [for use with TA152-1]
KI414-5		Accessory Kit (interconnecting hoses/fittings, oxygen regulator and oxygen filter) [for use with TA153-1]	
Optional Accessories	KI414-6	Accessory Kit (HMI, interconnecting hoses/fittings, isolation valve with oxygen regulator and oxygen filter) [for use with TA153-1]	
	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 ₂ Plus)	
AN075-1	Oxygen Analyzer/Sensor (Maxtec Max O ₂ Plus)		

Shipping Information	AS-L	290 Gallon Oxygen Receiver	400 Gallon Oxygen Receiver
Class	92.5	70	70
Commodity Classification Number	8421.39.8040	7311.00.0000	7311.00.0000
Dimensions (L x W x H)	105 x 66 x 50 in (267 x 168 x 127 cm) with Accessory Kit(s) and Filter with Pallet 106 x 67 x 56 in (269 x 170 x 142 cm) with Accessory Kit(s) and Filter with Pallet, Crated	48 x 48 x 85 in (122 x 122 x 216 cm)	104 x 48 x 44 in (264 x 122 x 112 cm)
Approximate Gross Weight	3,765 lb (1,708 kg) with Accessory Kit(s) and Filter with Pallet 4,135 lb (1,876 kg) with Accessory Kit(s) and Filter with Pallet, Crated	634 lb (288 kg)	810 lb (367 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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