

PSA Oxygen Generator

AS-D+



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
- Optional NEMA 4 Touchscreen control panel with integrated oxygen concentration monitor

Typical Applications

Manufacturing

- Cutting/Brazing/Soldering
- Thermal/Chemical Oxidation
- Glass Work/Blowing

Medical

- Hospital Systems

Environmental

- Ozone (Generator) Feed Gas
- Environmental Remediation
- Waste/Water Treatment

Additional

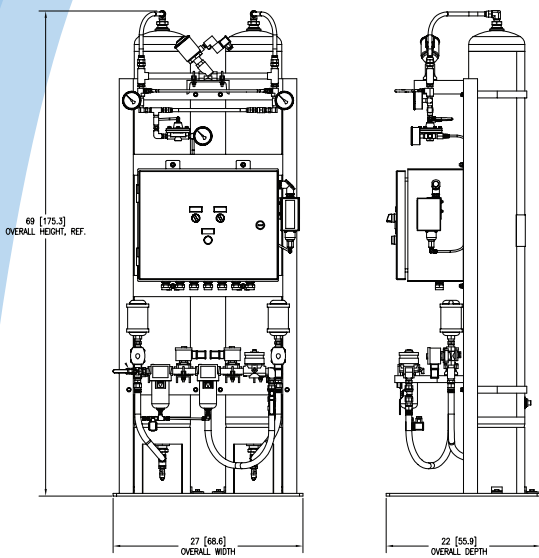
- Fish Farming

Specifications

Product Flow	80 – 100 SCFH (2.10 – 2.63 Nm ³ /hr or 37 – 47 LPM) 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)	27 x 22 x 69 in (69 x 56 x 175 cm)
Weight	498 lb (226 kg)
Physical Connections ²	
Compressed Air Inlet	3/8" FNPT
Product Gas Outlet	1/4" 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)
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 (120 V configurations only)
60 Gallon Oxygen Receiver	
Dimensions (Dia. x H)	26 x 52 in (65 x 131 cm)
Weight	159 lb (72 kg)

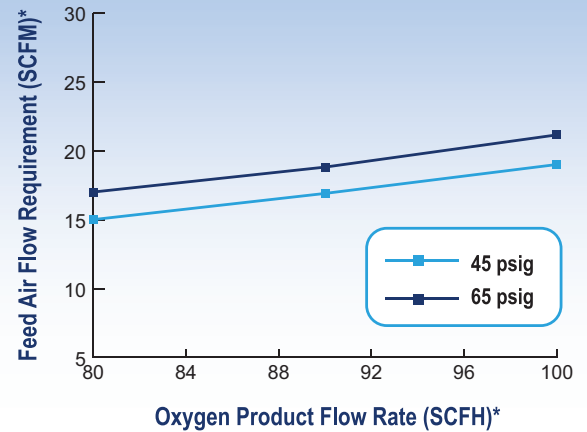
¹ SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F / Nm³ (Normal cubic meter) gas measured at 1 atmosphere and 0°C / LPM (Liters per minute) gas measured at 1 atmosphere and 21°C

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



Note: All dimensions are nominal.

Model AS-D+ 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-D+	AS097-1	120 V ~ ±10%, 50/60 Hz ¹	
	AS097-2	220 V ~ ±10%, 50/60 Hz ¹	
	AS097-3	With NEMA 4 Pressure Switch, 120 V ~ ±10%, 50/60 Hz ¹	
	AS097-4	With NEMA 4 Pressure Switch, 220 V ~ ±10%, 50/60 Hz ¹	
	AS097-7	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 120 V ~ ±10%, 50/60 Hz ¹	
	AS097-8	With HMI NEMA 4 Touchscreen and oxygen concentration monitor, 220 V ~ ±10%, 50/60 Hz ¹	
	AS097-9	With CE Approved Vessels, 220 V ~ ±10%, 50/60 Hz ¹	
	AS097-10	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 120 V ~ ±10%, 50/60 Hz ¹	
	AS097-11	With NEMA 4 Pressure Switch/ Local Remote ON/OFF, 220 V ~ ±10%, 50/60 Hz ¹	
	AS097-12	With oxygen concentration monitor (LED indicator), 120 V ~ ±10%, 50/60 Hz ¹	
	AS097-13	With oxygen concentration monitor (LED indicator), 220 V ~ ±10%, 50/60 Hz ¹	
	Required Accessories	TA150-1	60 Gallon Oxygen Receiver
		KI425-1	Accessory Kit (interconnecting hoses/fittings and oxygen regulator)
TA133-1		60 Gallon Oxygen Receiver, CE-PED	
KI425-2		Accessory Kit (HMI, interconnecting hoses/fittings, oxygen regulator and oxygen filter)	
Optional Accessories	KI425-3	Accessory Kit (HMI, interconnecting hoses/fittings, isolation valve with oxygen regulator and oxygen filter)	
	KI474-1	Accessory Kit (10 ft stainless braided oxygen hose - from oxygen regulator to use point)	
	KI404-1	Accessory Kit (manual switch-over manifold for cylinder backup)	
	KI375-2	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-D+	60 Gallon Oxygen Receiver
Class	92.5	70
Commodity Classification Number	8421.39.8040	7311.00.0000
Dimensions (W x D x H)	34 x 41 x 85 in (86 x 104 x 216 cm) with Accessory Kit(s), Crated	28 x 30 x 56 in (71 x 76 x 142 cm)
Gross Weight	605 lb (274 kg) with Accessory Kit(s), Crated	177 lb (80 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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