

Centrox

PSA Oxygen Concentrator



Ordering Information

Product	Part Number
Centrox Oxygen Concentrator (120V ~)	
With Internal Oxygen Purity Alarm.....	AS074-1
Centrox Oxygen Concentrator (240V ~)	
With Internal Oxygen Purity Alarm.....	AS074-2
Optional Parts:	
Accessory Kit—Includes the following:.....	KI046-1
• 10 ft SS Braided Oxygen Hose	
• Primary/Secondary Oxygen Ball Valve Assembly	
Accessory Kit—Includes the following:.....	KI470-1
• 10 ft SS Braided Oxygen Hose	
• Regulator Assembly w/ Flowmeter	
Auxiliary 60 Gallon Oxygen-Cleaned Receiver.....	TA150-1

Typical Applications

- Anesthesia
- Oxygen Therapy
- Veterinary Medicine
- Glass Work/Blowing
- Ozone (Generator) Feed Gas
- Fish Farming
- Brazing/Soldering
- Environmental Remediation

Features

- Produces oxygen from integrated compressed air package
- Microprocessor controlled
- Low operating cost
- Automatic and unattended operation
- Easy to install and maintain

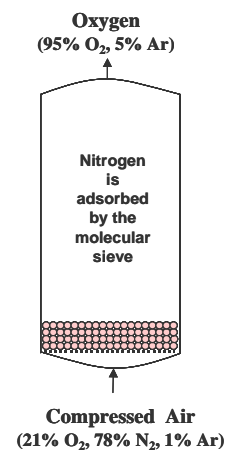
The Pressure Swing Adsorption (PSA) Oxygen Generating Process

Air contains 21% oxygen, 78% nitrogen, 0.9% argon, and 0.1% other gases. AirSep Oxygen Generating Systems separate oxygen from compressed air through a unique Pressure Swing Adsorption (PSA) process. The PSA process uses molecular sieve (a synthetic zeolite), which attracts (adsorbs) nitrogen from air at high pressure and releases (desorbs) it at low pressure.

AirSep Oxygen Generators use vessels filled with molecular sieve as adsorbers. As compressed feed air flows through one of the vessels, the molecular sieve adsorbs nitrogen. The remaining oxygen passes through the vessel and exits as the product gas. Before the adsorber

becomes saturated with nitrogen, the feed air is diverted to another vessel. At that point, the sieve in the first vessel regenerates by desorbing the nitrogen through depressurization and purging it with oxygen from the other vessel. This process is then repeated to allow the oxygen generator to deliver a constant flow of product oxygen at 90% minimum purity. Under normal operating conditions, the molecular sieve is completely regenerative and will last indefinitely.

AirSep offers a wide variety of standard PSA oxygen systems to supply virtually any oxygen application from 12–5,000 SCF/hr (0.32–131 Nm³/hr) of product oxygen output. AirSep also designs and constructs larger engineered systems.



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For additional information,
call Toll-Free U.S./Canada:

1-800-320-0303

Specifications

Product Characteristics

Standard Product Flow: 32 SCFH (15 LPM)
Standard Product Pressure: 0–50 psig (5–345 kPa)
Minimum Product Purity: 90%
Product Dew Point: -100°F (-73°C)

Ambient Operating Conditions

Locate the oxygen generator in a climate-controlled area that remains between 40°F (4°C) and 111°F (44°C)

Control Power Requirements

120 V ~ ±10%, 60 Hz, Single Phase, 11.0 A
240 V ~ ±10%, 50 Hz, Single Phase, 5.5 A
Typical Power Consumption (at 90% purity): 1300 W

Physical Characteristics

Dimensions (W x D x H):

PSA Module: 26.6 x 14.7 x 38.3 in.
(67.6 x 37.4 x 97.2 cm)

Compressor Module: 20.6 x 12.5 x 26.6 in.
(52.2 x 31.9 x 67.5 cm)

Weight:

PSA Module: 160 lb. (73 kg)
Compressor Module: 100 lb. (45 kg)

Physical Connections

Product Gas Outlet: 1/4" NPT x B size oxygen demand valve

Sound Level: 65 db(A) @ 1 meter, open field conditions

Warranty: 1 Year Parts and Factory Labor*

*An unprotected or inadequately ventilated environment or improper control power may cause damage to the oxygen concentrator not covered under warranty.

AirSep Corporation continually improves its products and reserves the right to change specifications or design without notice.

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