

# High Purity PSA Oxygen Systems



## Features

- All components are oxygen-compatible
- Produce oxygen from compressed air
- Microprocessor controlled
- Low operating cost
- Automatic and unattended operation
- Easy to install and maintain

## Typical Applications

- Hospitals/Medical
- Thermal/Chemical Oxidation
- Cylinder Refilling
- Metal Fabrication/Cutting

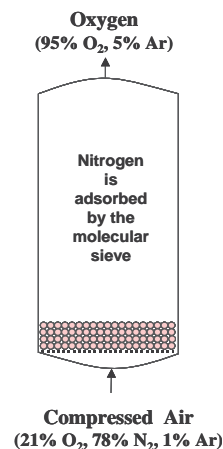
High Purity Oxygen Plants, with oxygen generation capacity up to 3000 SCFH at 2200 psig, are available from AirSep as standard, single train, turnkey systems. Plants with capacities up to 1250 SCFH are fully assembled and tested in AirSep facilities. Larger plants are designed to customer specifications and are field assembled.

### The Dual Stage, High Purity Pressure Swing Adsorption (PSA) Oxygen Generating Process

Air contains 21% oxygen, 78% nitrogen, 0.9% argon, and 0.1% other gases. AirSep Dual Stage, High Purity Oxygen Generating Systems separate oxygen from compressed air utilizing a two stage Pressure Swing Adsorption (PSA) process to generate up to 99% pure oxygen.

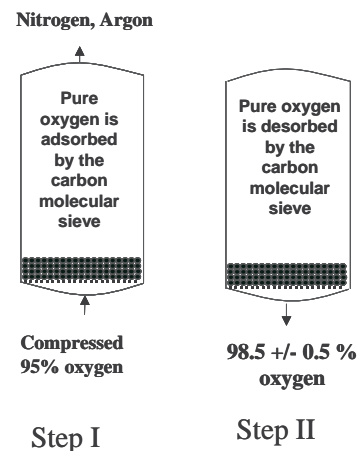
#### Stage One:

The first stage of 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 to generate 95% pure oxygen.



#### Stage Two:

The second stage of the high purity PSA process further purifies 95% oxygen to a level of up to 99% using a second type of molecular sieve (activated carbon sieve), which attracts (adsorbs) oxygen from the 95% oxygen stream at high pressure and releases it at low pressure.



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## Specifications

### Product Characteristics

Minimum Product Purity: 98.5 ± 0.5%  
Product Dew Point: -100°F (-73°C)

### Ambient Operating Conditions

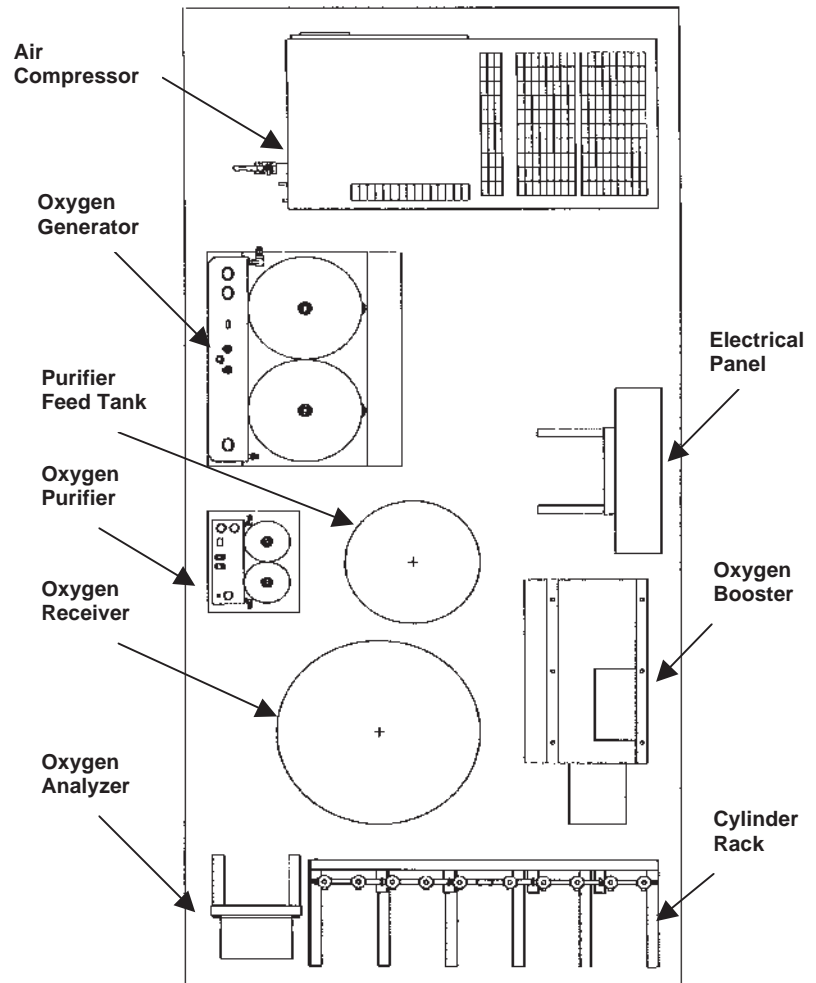
Locate the oxygen system in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 112°F (44°C)

### Physical Characteristics

	Dimensions [LxWxH]	Weight (lbs)
<b>CR-250P</b>	204" x 88" x 85"	8,900
<b>CR-600P</b>	336" x 88" x 118"	19,000

An unprotected or inadequately ventilated environment or improper control power may cause damage to the oxygen generator 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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<sup>1</sup> SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F

<sup>2</sup> Nm<sup>3</sup> (Normal cubic meter) gas measured at 1 atmosphere and 0°C