

Purity, pressure, flow, saving, solutions...



Oxygen on demand, anytime, anywhere, 100% up-time .

With flow rates 4.7 lpm (0.28 m³/h -10 SCFH) to more than 1,400 lpm (85 m³/h - 3,000 SCFH).

With a purity from 95% to + 99%.



We can provide a system with the capacity to match your requirements for flow, purity, pressure, that industry, Hospital or Medical Center need. We also offer a totally integrated medical-gas plant to match the required specifications and regulations. It is a system that provides medical-quality oxygen, nitrogen, compressed air and central-vacuum capability. Additionally, the system includes fail-soft back-up with an alarm.



RAPID RECOVERY OF INVESTMENT

CONVENIENT

RELIABLE

SAFE

LONG-LASTING

LOW MAINTENANCE



ORION GROUP INTERNATIONAL INC.

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Oxygen Generating System

How its works:

Compressed air enters in the molecular sieve (Zeolite). Molecules of oxygen are smaller and pass through the sieve, while the larger nitrogen molecules are adsorbed by the Zeolite (trapped in the sieve). The oxygen is stored in the output tank.

Before the sieve saturation occurs, the compressed air is switched to a second sieve bed, while the first releases the trapped nitrogen into the atmosphere. The process is repeated, generating a steady flow of oxygen.



Features and benefits:

Convenient:

Easy to install and maintain.
Provides an unlimited supply of oxygen.

Touch Screen Control:

The system provides a touch screen for:

- precision control of purity levels
- diagnosis and resolution of problems
- maintenance schedules
- operating diagrams

And more.

Savings:

Produces its own oxygen for just a fraction of what it costs to buy it by the cylinder, by the cryogenic tank or in even larger quantities. The system can produce its own cylinders of nitrogen at pressures of 2200PSI/153Bar or 3000PSI 206 Bar.

Rapid amortization:

The system acquisition cost is recovered in an average of less than 18 months, without even considering the cost of renting tanks, shipping tanks and the inconvenience of long-term contracts.

Low operating cost:

The only operating cost is the electricity needed to power the air compressors. Very limited maintenance is required, typically one to two hours every three months.

Fully automatic:

The production of oxygen starts when an increase in demand is observed. .

Reliable:

Systems have been operational for more than 20 years in some of the most remote places on Earth

Flexible:

Systems may be connected in parallel in order to increase capacity and support larger demand from the institution.



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