What is Pressure Swing Adsorption (PSA)?

Clean, dry compressed air is fed into the first molecular sieve bed. Nitrogen is adsorbed, while oxygen is allowed to flow through. When the sieve in the first bed becomes full of nitrogen, the airflow is then directed into the second bed. As the second bed separates the oxygen from the nitrogen, the first bed vents its nitrogen into the atmosphere. Compressed air is once again fed into the first bed, and the process is repeated continuously. A constant flow of oxygen is reliably produced.
The Model **OG 15 & OG 20** are self-contained oxygen generators that extract oxygen from the air and deliver it to an application. The $O_2$ purity is 93% (+/- 3%). The units are completely self-contained and produce up to 20 SCFH (9 LPM) at 1-20 psi. These models are dependable, reliable, and virtually maintenance free for continuous service.

**Applications**

Obtain higher levels of dissolved oxygen (DO) for your **Fish Farm** with an OGSI oxygen system and your fish growth and survival rates will be enhanced.

Most **Disaster Preparedness** plans include a secondary supply of oxygen. Our oxygen generating systems assist you in times of natural disaster, accidents or terrorism.

**OGSI** offers a complete line of **Cylinder Filling Plants** (CFP’s). These plants can be designed to produce medical grade oxygen at 93% (+/- 3%) for hospital and industrial applications. **OGSI** equipment is fabricated in accordance with all relevant codes (ASME, ANSI, NEMA, CE) and can be configured to meet CRN and CSA Standards. **OGSI** CFP’s capacities range from 1 to 180 cylinders filled per day. They include all the support equipment required such as air compressors, air dryers and oxygen compressors for complete turnkey systems. All models are factory tested, and can be skid mounted.

A growing number of **Veterinary Clinics** generate their oxygen on-site with an **OGSI** oxygen generating system and have eliminated their dependency on delivered oxygen.

Use an oxygen generator with your **Ozone** generator and get twice the output as an air-fed system.

Inject oxygen into sludge beds to help purify **Waste Water** and control odors.

**OGSI** PSA generated oxygen is a cost effective and safe source of $O_2$ for **Abatement** application.

Oxygen generated to high levels of purity (93% +/- 3%) can be used to increase flame temperature for your **Cutting and Welding** applications.

**Products**

The **MOGS-50/100 Medical Oxygen Generating System** has been designed to produce oxygen onsite and fill high pressure cylinders (up to 2200 psi) or to supply oxygen directly at up to 70 psi.

The system produces medical grade oxygen in accordance with the US Pharmacopoeia specifications. This system can greatly reduce your oxygen supply costs. Less than 1 kWh of energy is required to fill one ‘M’-size oxygen cylinder, and all delivery and handling charges from your current supplier are eliminated.

**OGSI** offers a range of **Oxygen Generators** based on your requirements. They are designed for applications requiring outputs from 25 to 5000 SCFH (12 to 2360 LPM). Our line of Pressure Swing Adsorption (PSA) oxygen generators are available with telemetric communication packages and can be monitored from our factory to facilitate quicker service or software updates. Our generators are durable and dependable and eliminate the unnecessary expense of transport, storage and cylinder rental.

**OGSI** has developed **Mobile Units** that can be can be deployed and generate medical grade oxygen on-site and administer relief immediately. This critical equipment provides flexibility during an emergency. You can administer low pressure oxygen directly to patients or fill your own cylinder. Units are available in trailers, ISO containers, and more.

**OGSI**

Division of Audubon Machinery Corporation

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