

OGSI Oxygen Cylinder Filling Plants (CFP's) Fact Sheet

Who is OGS?

- Oxygen Generating Systems, International (**OGSI**) is a Western New York based manufacturer of on-site oxygen generators.
- Established in 1995, **OGSI** has a complete line of plants ranging in size from 15 to 5000 standard cubic feet per hour (SCFH)
- **OGSI** has oxygen plants in over 70 countries, with over 25 plants for hospitals in China.
- Addition information about **OGSI** can be obtained from our web page at www.ogsi.com.

How do OGS plants work?

- **OGSI** plants produce oxygen by means of an air separation process called pressure swing adsorption (PSA). The O₂ is only produced upon demand. Very little O₂ is stored in the system, which is a safety feature.
- The air we breath generally contains about 78% nitrogen, 21% oxygen, 0.8% argon, with the balance being pollution & other gases.
- A PSA oxygen generator uses a material called molecular sieve, which adsorbs nitrogen much like how a sponge adsorbs water. Compressed air is passed through a column of sieve, which adsorbs the nitrogen in the air and allows the oxygen to pass on through to a low pressure holding tank. The nitrogen is later exhausted out of the sieve bed to get it ready for the next stream of air.
- PSA systems have an advantage over Liquid Oxygen (LOX) systems because they do not lose O₂ like LOX tanks, which need to vent at least 1% of their volume per day to limit pressure in the storage vessel.
- The oxygen purity from **OGSI** plants is typically at 93%, with the balance being even amounts of nitrogen & argon. This purity meets the medical requirements of the US Pharmacopeial Convention (USFDA), Canadian Standards Association (CSA), & ISO 10083 (European) specifications.
- The low-pressure produced oxygen can then be compressed to fill high-pressure cylinders.

What size CFP's are available from OGS?

Currently, we offer (11) different sizes for oxygen cylinder filling plants. The plant size is based on how many high pressure, 6m³ size cylinders the plant can fill in 24 hours. Listed below is a quick reference on the model, size, and the price of each plant

Model CFP-15	1 cyl/day
Model CFP-25	2 cyl/day
Model CFP-50	4 cyl/day
Model CFP-75	7 cyl/day
Model CFP-100	9 cyl/day
Model CFP-175	10 cyl's/day
Model CFP-250	20 cyl's/day
Model CFP-500	50 cyl's/day
Model CFP-650	60 cyl's/day
Model CFP-1000	100 cyl's/day
Model CFP-1250	120 cyl's/day

The prices are ex-works Amherst, NY USA

Most models are complete skid mounted oxygen plants that are factory tested, and include instrumentation to insure compliance to medical oxygen standards. These larger over Model 175 plants are designed to be shipped in standard 20 or 40-foot ocean containers. Power & an enclosure for the plant are all that is required at the site.