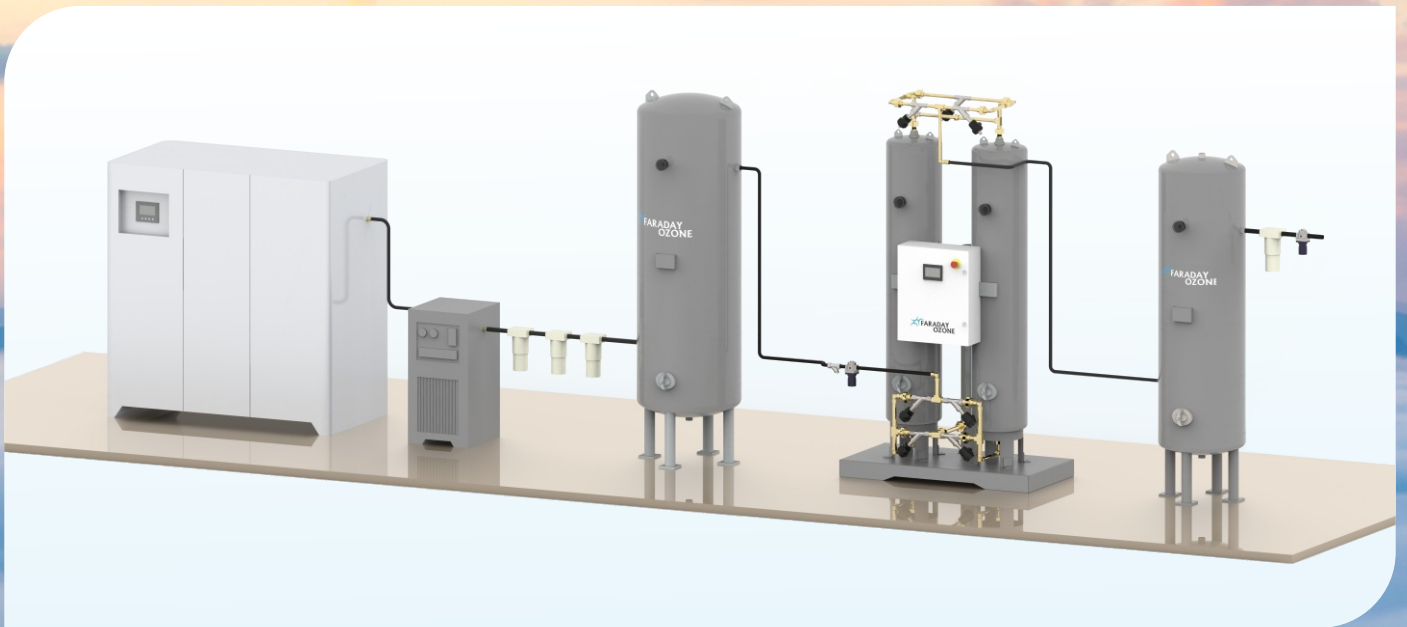


OxyMoTM

PSA Oxygen Generator





On-site Oxygen Generation

At Faraday Ozone, we have come up with a wide range of oxygen generation solutions providing oxygen at high levels of purity for medical and industrial applications. Our systems use the Pressure Swing Absorption technology to ensure constant flow of oxygen at the required specification. At Faraday we intend to deliver the best possible solution to the client depending on their unique needs and hence have come up with a variety of products ranging from PSA Plants to Modular Oxygen Systems and Portable Oxygen Concentrators .

During the second wave of COVID-19, which swept across India, Faraday Ozone was instrumental in installing oxygen generation systems in more than 50 sites across Tamil Nadu serving more than 2000 beds in record time. We also pride ourselves in being one of the five manufacturers chosen for manufacturing of oxygen concentrators under the PM Cares Initiative.

Now we are poised to deploy our wide range of oxygen generation systems across the globe with exceptional safety standards and service support.

Purity
93% and
above

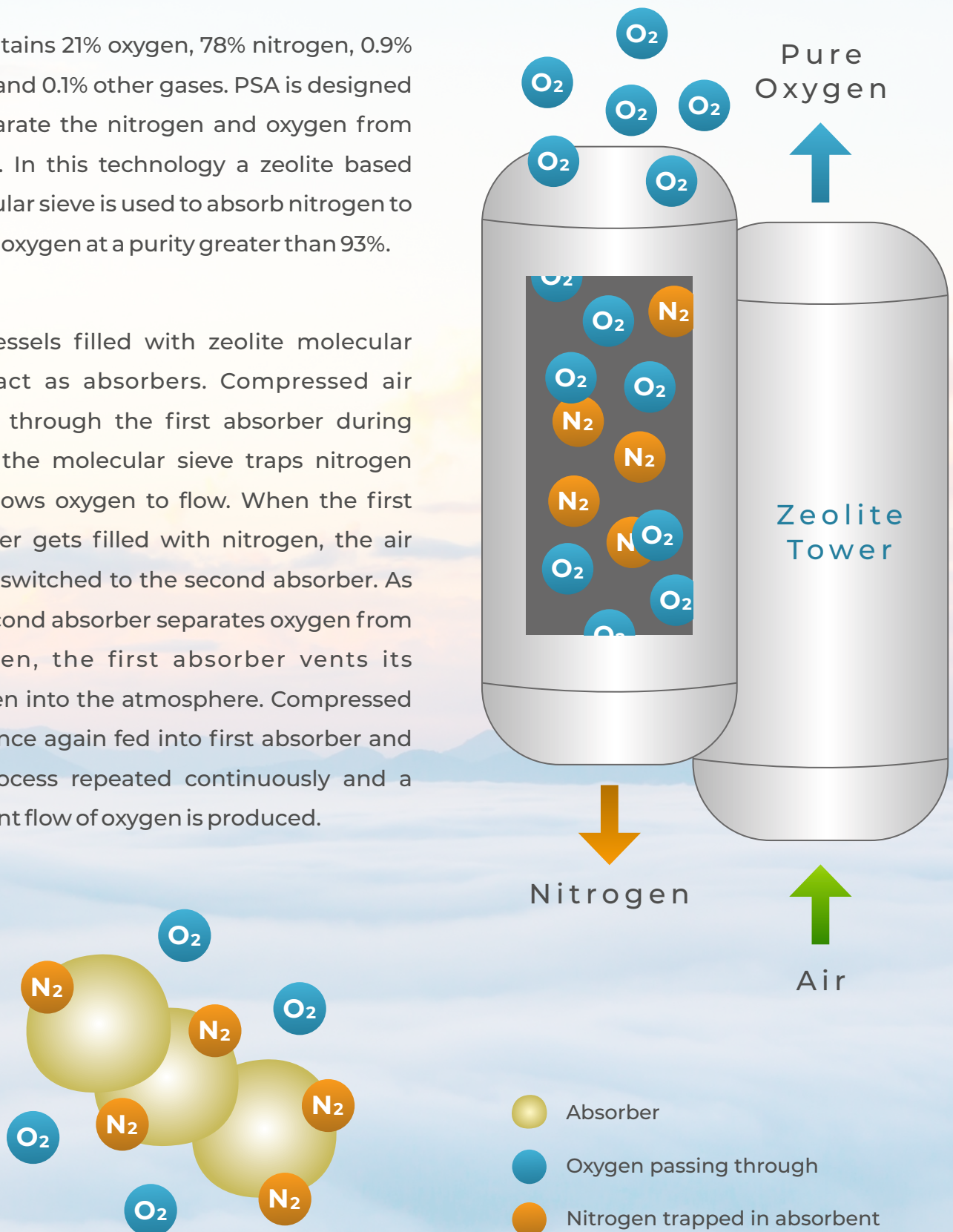


PSA Oxygen Generation

Faraday's OxyMo - Oxygen Concentrator produces continuous flow of oxygen, on-site at desired purity based on the Pressure Swing Absorption (PSA) technology,

Air contains 21% oxygen, 78% nitrogen, 0.9% argon and 0.1% other gases. PSA is designed to separate the nitrogen and oxygen from the air. In this technology a zeolite based molecular sieve is used to absorb nitrogen to deliver oxygen at a purity greater than 93%.

Two vessels filled with zeolite molecular sieve act as absorbers. Compressed air passes through the first absorber during which the molecular sieve traps nitrogen and allows oxygen to flow. When the first absorber gets filled with nitrogen, the air flow is switched to the second absorber. As the second absorber separates oxygen from nitrogen, the first absorber vents its nitrogen into the atmosphere. Compressed air is once again fed into first absorber and the process repeated continuously and a constant flow of oxygen is produced.



Industrial Oxygen Plant

OxyMo PSA industrial oxygen plant is of premium quality with the lowest energy consumption on the market.

Air Compressor

Screw type oil-free air compressor is used to feed air for the oxygen generation

Refrigerated Air Dryer

Refrigerated air dryer is used to remove the water vapour from the compressed air.

PSA Generator

OxyMo PSA Generator separates oxygen from compressed air through Pressure Swing Absorption technology. The absorption media inside the vessel is filled with zeolite molecular sieve.

Pre Filter

Coarse particles are filtered out up to a 5 micron level

Fine Filter

Fine filter also called as secondary filter takes care of the fine particles in the compressed air

Air Receiver Tank

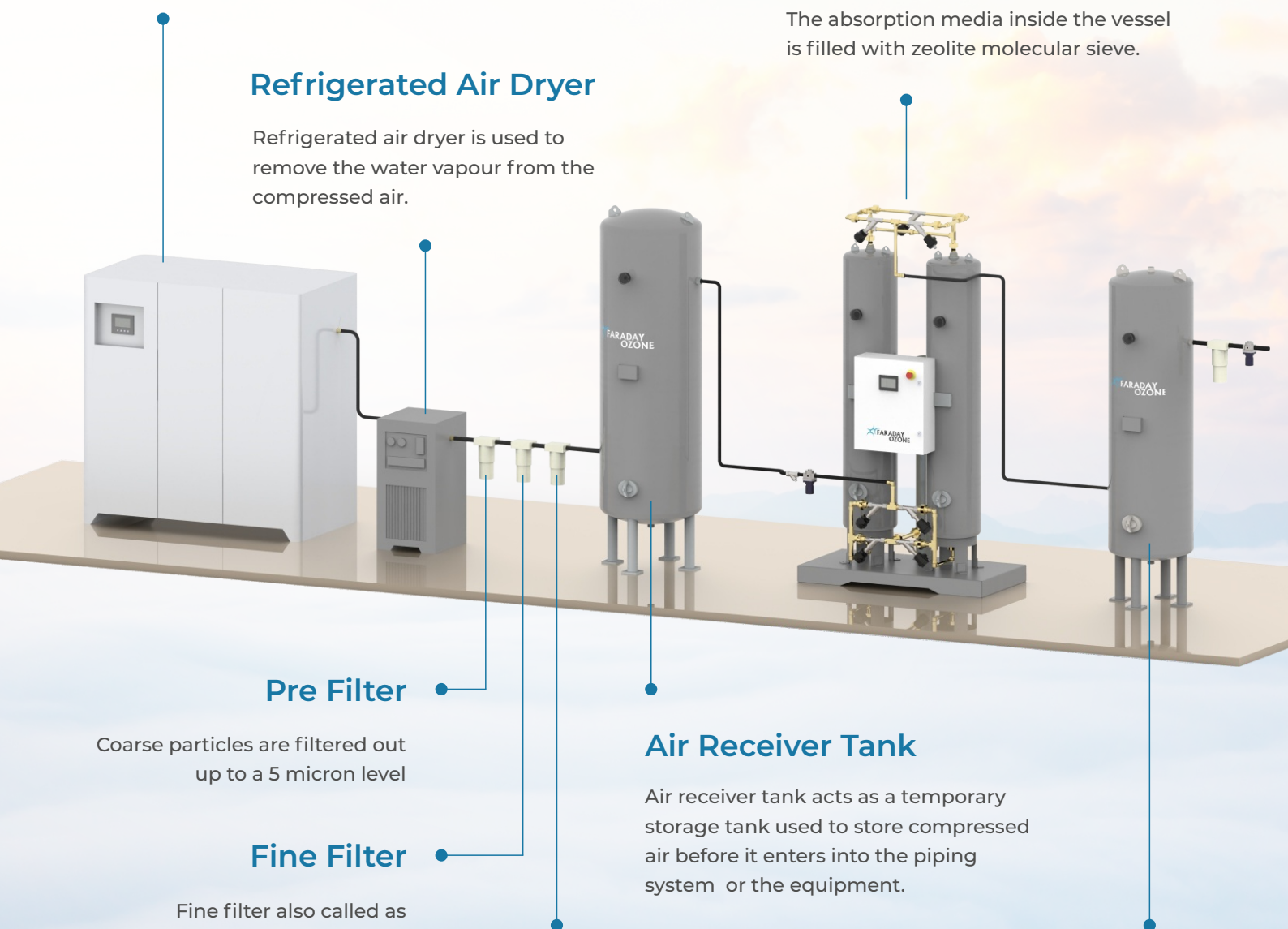
Air receiver tank acts as a temporary storage tank used to store compressed air before it enters into the piping system or the equipment.

Carbon Filter

Carbon filter takes care of gases present in the compressed air

Oxygen Tank

Oxygen produced is sent through the oxygen tank



PSA Generator

OxyMo PSA generator separates oxygen from compressed air utilizing pressure swing absorption principle. Zeolite selectively isolates oxygen molecules in compressed air. It is equipped with an automatic start and stop function. It offers from 90% to 95% oxygen purity to meet quality requirements. The OxyMo oxygen generator is perfectly suited for various applications such as health care, glass industry, aquaculture, waster water treatment and many more.

Features

- Proven Technology : simple, reliable and durable
- Exact oxygen purity with analyser
- Fully integrated package
- Superior grade of molecular sieve
- PLC and HMI interface
- Feed gas temperature and pressure monitoring
- Robust design, piping from SS
- Preventive maintenance support



Technical Specifications

Model	Capacity	Nm ³ /Hr O ₂ @ 93%	Purity	Air Compressor	Air Dryer	Air Receiver Tank	Product Tank
OxyMo-120	120 LPM	7.2	92 - 96%	62 cfm 7-10 bar	80 cfm	500 ltr	320 ltr
OxyMo-240	240 LPM	14.4	92 - 96%	150 cfm 7-10 bar	150 cfm	1000 ltr	500 ltr
OxyMo-360	360 LPM	21.6	92 - 96%	200 cfm 7-10 bar	200 cfm	1500 ltr	750 ltr
OxyMo-480	480 LPM	28.8	92 - 96%	270 cfm 7-10 bar	300 cfm	2000 ltr	1000 ltr
OxyMo-960	960 LPM	57.6	92 - 96%	510 cfm 7-10 bar	510 cfm	4000 ltr	2000 ltr

Why Choose Oxygen Generation Solutions from Faraday Ozone?

When selecting a system that is critical in nature, it is important to look for quality from the standpoint of the materials used, quality from the point of view of certification by NABCB accredited 3rd party certification labs, Fitment to the intended application, cost and Lead time. We, at Faraday, check all these boxes and provide high quality service support as well.

1	2	3
High Quality Lithium based sieve used for most of the products	ISO: 13485 Certified, to fulfill the quality standards set for medical equipment	EN 60601-1:2012, ISO 80601-2-69 : 2-014, IEC 60601-1-2:2014 Type tested Products and Systems
Minimum of 1 - 3 Years warranty depending on the system	Metal Body to ensure durability in spite of heavy usage	One among the 5 Firms chosen for supply of oxygen concentrator under the PM Care
4	5	6



About Us

Established in 1996, Faraday Ozone is a leading manufacturer of ozone generators for various industrial applications. Faraday designs and manufactures a wide range of innovative products for air treatment, water and waste-water treatment which includes ozone generators, medical oxygen concentrators, industrial oxygen systems, air disinfection systems, napkin vending and burning machines. Faraday Ozone equipments installed across the globe treats more than 15 trillion litres of water every single day naturally without any chemicals.

Our DSIR Certified R&D, best Practices in Quality Management Systems & Procedures, high tech infrastructure, best in class service, capable manpower with latest software technology and 20+ patents enable us to exceed the customer expectations every single time.

Global Footprint in 50+ Countries





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