



 **Aupequip**

Purification Simplification Automation

About Company

Aupequip PSA Oxygen generators are compact & versatile, which are designed with professional analytic method according to user requirement. It is designed and manufactured combines of highest level of quality and reliability with less maintenance & user-friendly features. Aupequip PSA Oxygen generators are designed to provide safe and efficient gas supply for Hospitals, Research centres, pharmaceuticals & Industries.

We offer a modular design, which can be easily installed with any existing plant, cylinders, cryogenic or other PSA system. Our highly advanced central control system operates the system to ensure desired oxygen quantity & quality.

PurOxy is a leading engineer, manufacturer and marketer of innovative, performing, modular and first-class oxygen generators, offering one-stop customer experience for ultrasafe, reliable and state-of-the-art oxygen generators and plants.



Our Methodology

In cooperation with our customers, Aupequip will analyze the requirements for you, to offer a system, which meets the specifications regarding flow, purity, and pressure. Aupequip helps customers think differently about their own engineering requirements; We will work with you to save your resources, build more sustainable facilities together, produce quality products, be more efficient and make your facilities work longer.

What We Offer

Having long-standing experience, Aupequip can deliver right solution for any demand for oxygen generators and plants. The Scope of supply includes consultancy, designing, manufacturing, execution, installation and start of system.

Advance PSA Technology

Pressure swing adsorption can be used to produce oxygen from compressed air, which is fed to unit that uses adsorption phenomena to remove the contaminants; H_2O , and CO_2 are removed as other minor contaminants.

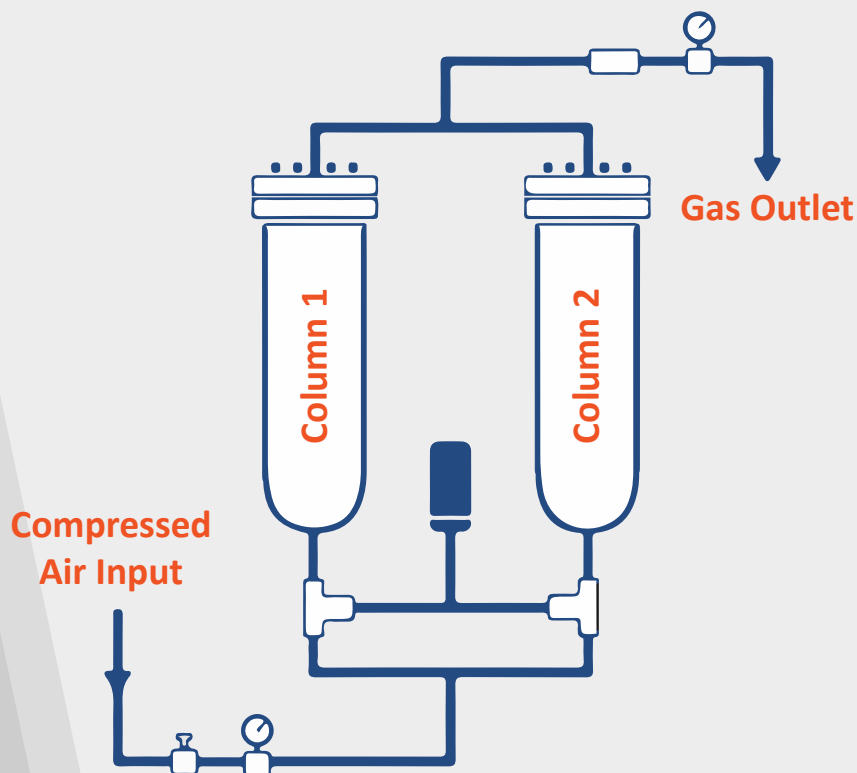
The PSA Contains two columns packed with a selective adsorbent that has affinity towards the component to be removed: Zeolite are used to produce O_2 .

Each column undergoes a cyclic sequence of high & low-pressure steps that guarantees the productions of a continuous flow of high purity gas.

In the high-pressure steps, the adsorbent retains the contaminants present in the compressed air and desired gas (O_2) is obtained from the top of the columns.

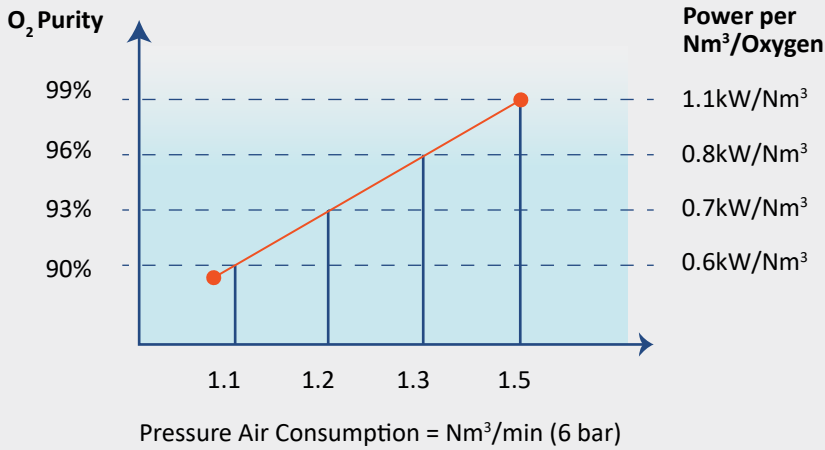
The regeneration is accomplished in the low-pressure setup, with release of contaminants retained by the adsorbent.

It is the engine that drives the separation of oxygen from air, with a degree of purity over 93%. It is a purely physical process denominated adsorption. During the adsorption step, nitrogen is adsorbed at elevated pressure and oxygen is produced. During the regeneration step, nitrogen is desorbed via depressurization and the adsorbents are regenerated. In order to convert this batch process into a continuous process, PurOxy uses two adsorbent vessels. As one is adsorbing, the other is regenerating and vice-versa.



Low Power Consumption

To reduce the current consumption of a system, PurOxy allows the ability to influence the active current consumption at active mode current consumption.



Energy Saving

Elimination of purge air from an external desiccant dryer saves about 20% of the compressor power. Simplification by the removal of any type of external dryer will typically save 0.68 bar (10 psi) or about 5% of compressor power.

Maintenance costs are reduced due to the simplified system. Installation costs are reduced due to less equipment, lowered labour and reduced transit of product to site.



PurOxy runs 100% on clean energy using our UltraGreen Plan

We strive to bring our emissions down as low as possible. Using less energy is one of the major ways we can lower their carbon impact, even as they're being used.



Using renewable energy



Eco Friendly



Increasing power efficiency

Comprehensive outline for PurOxy

PurOxy offers one-stop customer experience for ultra-safe, reliable and state-of-the-art oxygen generators and plants as well as related service and solution:

Aupequm is a leading engineer, manufacturer and marketer of innovative, performing, modular and first-class oxygen generators, including plants and systems.

Aupequm integrates in its offer for medical application a large array of service and support, including consulting, in accordance with normative reference and system components, safety, material, general requirements, installation, maintenance as well as sales support with inclusion of spare parts.

Aupequm provides seamless integration capabilities to connect oxygen generators and plant to existing piping oxygen distribution systems, overseeing all topics related to technical, risk & operational management.

Aupequm products are designed and manufacture in India and they are world wide delivered through a large distribution and local support network of dealers.

Ambient Operating Conditions:

Locate the compact oxygen generator in a well-ventilated area that is protected from weather elements and remains between 4°C and 40°C



Fully autonomy

No more oxygen supply constraint



High security level

No heavy cylinder to handle, no high pressure to storage, no rupture of supply chain, no fire free



Easy Operation

Fully automatic, just plug and play and set desired pressure and flow



Cost Saving

The investment in an oxygen generator solution is usually recovered within one year



Consistent Quality Monitoring

Aupequm PSA meets oxygen purity as US Pharmacopia standard (93% +-3%) which can be monitored

Expeditious Service without Brinks

Aupequip is committed to provide assistance in the choice of management of all the elements and addition services for the generation of oxygen, including consulting in accordance with normative references, on system design with components, safety, material, general requirement, installation and maintenance as well support, with inclusion of spare parts.

A service agreement with us gives you peace of mind. Our service network provides expert preventive, predictive and reactive maintenance to help you minimise uptime and safety, to keep your operations running smoothly. A good relationship is built on trust and we are committed to serving your needs wherever you are in the world. With our Service Team by our side, you are ready to meet the requirements of accrediting organizations and government regulatory agencies.

At PurOxy we try to our best to reach the roots of your issue and solve it in the way that you find the most appropriate.

PurOxy Model

Sr.No.	Model Name	Capacity
1	PurOxy – 3	50LPM
2	PurOxy – 6	100LPM
3	PurOxy – 10	150LPM
4	PurOxy – 15	250LPM
5	PurOxy – 20	300LPM
6	PurOxy – 25	400LPM
7	PurOxy – 30	500LPM
8	PurOxy – 50	800LPM
9	PurOxy – 60	1000LPM
10	PurOxy – 75	1350LPM



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