



Gas Generators

**Produce your own nitrogen
or oxygen on-site**

**Achieve greater reliability, higher purity, increased capacity,
while lowering your operational costs**

technology

Pressure Swing Adsorption Technology

All Oreco nitrogen and oxygen generators are based on our specially optimised Pressure Swing Adsorption (PSA) technology. The Oreco PSA technology ensures maximum outcome in terms of reliability, system lifetime, purity, and cost-effectiveness.

The Pressure Swing Adsorption (PSA) process is the core of the process plant, through which nitrogen is separated from ambient air and concentrated. The PSA method makes use of parallel separation units (vessels) filled with granular Carbon Molecular Sieves (CMS). The CMS retain oxygen while simultaneously allowing nitrogen gas to pass. The PSA process switches (swings) between the parallel vessels, always allowing one vessel to produce nitrogen while the other is being regenerated. The production/regeneration cycles are constantly repeated during operation.

Containerised modular solutions

The Oreco nitrogen and oxygen generators are available either as skid-mounted solutions that are fully containerised and trailer-mounted or as complete stationary plants, depending on your requirements. We match your specific needs in regards to capacity and purity all the way up to 99.9% purity.

All key components, instrumentation and control are fully integrated into ISO 20" high cube containers or skids. This design allows for the highest degree of mobility and flexibility. The 'plug & play' solution provides nitrogen or oxygen on the spot and on demand. The capacity of 20ft containerised modules is up to 550 Nm³/hr with a turn-down capacity down to 25% and gas purity from 95% up to 99.9%.

Tailor-made solutions

Oreco can design and deliver 'built-to-suit' installations in mobile as well as stationary versions. Capacities, gas purity, delivery pressure, and operational pattern are the basic parameters to achieve the optimal solution. An example is high pressure compressors for specialised high-pressure applications and/or filling stations.



installation

Produce nitrogen or oxygen where you need it

Oreco offers a wide range of nitrogen and oxygen generators. Choose from the extensive selection of standard solutions - or ask us to design a custom-made generator to match your needs. Oreco will be pleased to design a generator that fits your particular requirements.

Full installation or optional supply

A full installation comprises compressor(s), airdryer(s), filters, air tank(s), PSA generator(s) and effluent gas buffer tank(s). Naturally, you can have your full installation supplied by Oreco. But you can also buy each component and other optional supply such as high pressure compressors or filling stations separately. Smaller models are available with or without cabinets.

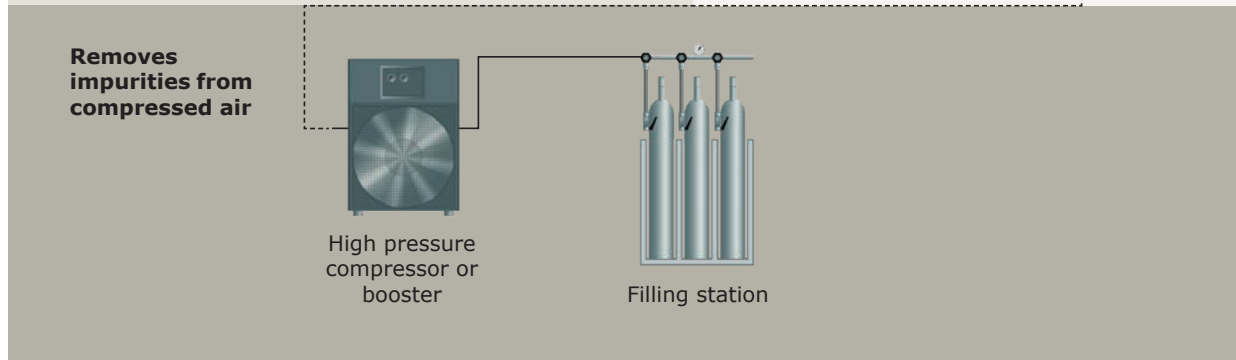
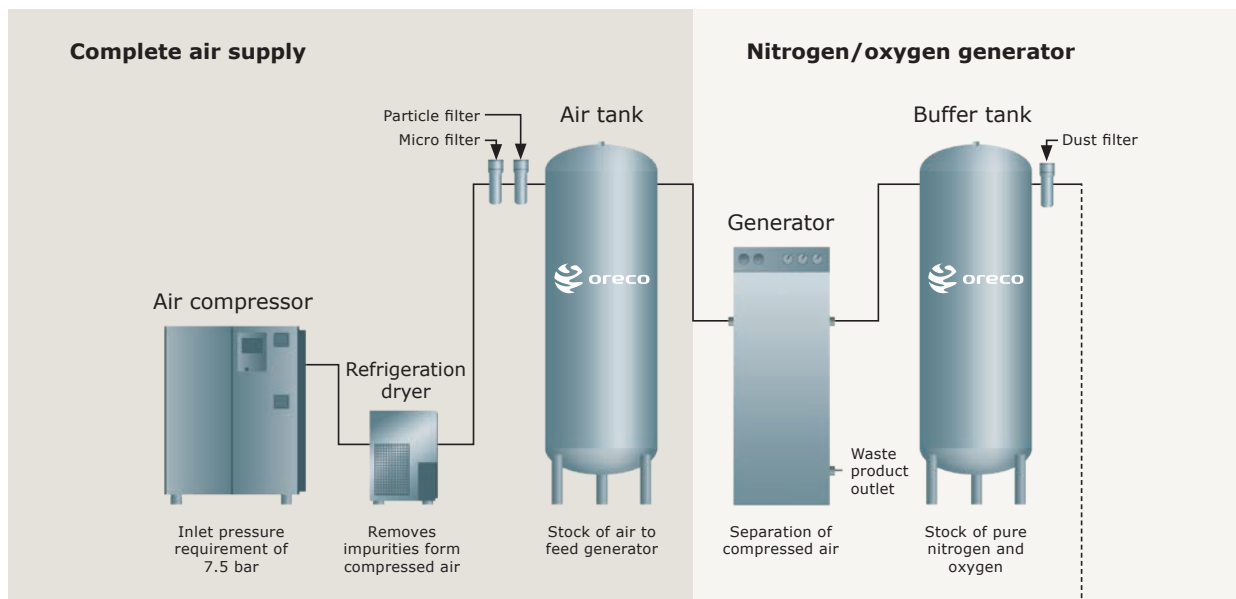
Nitrogen generator characteristics

Standard:	99.5%
Option:	99.999%
Capacity:	4 Nm ³ /hour – 800 Nm ³ /hour
Customised solutions:	5.000 Nm ³ /hour
Inlet pressure:	7.5 bar
Outlet pressure:	5 – 225 bar
Power:	240V/110V – 50/60Hz

Oxygen generator characteristics

Standard:	90.0%
Option:	95.0%
Capacity:	4 Nm ³ /hour – 200 Nm ³ /hour
Customised solutions:	300 Nm ³ /hour
Inlet pressure:	7.5 bar
Outlet pressure:	4 – 220 bar
Power:	240V/110V – 50/60Hz

Full installation





**Discover how you can benefit from Oreco's
nitrogen and oxygen generators.**

Visit orecogasgenerator.com or contact us directly.

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