



Atlas Copco

Inert gas systems

Nitrogen solutions for marine applications

Level up your experience at
atlascopco.com



Turnkey inert gas solutions for marine applications

Atlas Copco is a market leader in nitrogen systems for maritime applications such as ballast water treatment, cargo tank inerting during loading and unloading or while sailing, pump stripping after loading and unloading, or fuel line purging for LNG fuel supply. Combining powerful technology with a high level of flexibility and cost savings has made us a preferred supplier of marine and offshore nitrogen generators.



N2 performance

Atlas Copco PSA nitrogen generators are the safe, convenient and economic source of nitrogen. They deliver nitrogen ranging from 95.0% to 99.999% purity and capacities from a few m3 up to 10,000 m3/h and beyond. The individual equipment that makes up the generator is in-house developed by Atlas Copco to give you complete peace of mind.



Clean

Atlas Copco's NGP+ nitrogen generators deliver very clean and dry gas. This protects your cargo, crew and vessel, but also your entire cargo handling system. Clean and dry nitrogen also saves valuable time and money by speeding up the tank washing process.



Flexibility

Atlas Copco's modular design and small footprint provide a totally new flexibility. You can choose from an extensive range of generators. Each unit can be easily customized to meet your individual needs. We also offer a variety of high-quality equipment to support the generator, including compressors, dryers, boosters and filters.



Cost-saving technology

A higher utilization of the natural content of nitrogen in atmospheric air, combined with a lower inlet pressure, considerably reduces our PSA technology's energy consumption. Compared to both membrane technology and other inert gas generators, we can reduce running costs up to 50% by using variable speed compressors, high-performance dryers and filters, and a unique energy-saving algorithm embedded in the NGP+ generator.



A trusted marine partner

Versatility

Hardly any two ships are the same, so why should their equipment be? Atlas Copco can offer a custom solution that matches your exact needs. We will find the right air system with the lowest overall cost of ownership.

Confidence

Alone on the high seas, your crews need to be able to trust their equipment. Atlas Copco's state-of-the-art marine products are built and certified to weather the roughest conditions.

Proximity

We are wherever your ships are going. Atlas Copco is present in more than 160 countries. With an extensive dealer network and a variety of service offers, we make sure you keep running full steam ahead.



Always available

No more high-pressure cylinders or liquefied gas. No more order processing, refills and delivery charges. Atlas Copco generators let you produce your own nitrogen at the flip of a switch. It's your own nitrogen supply, when you want it, where you want it and how you want it, available 24/7.

Your all-inclusive nitrogen partner

Atlas Copco inert gas units are delivered as turnkey packages that include our nitrogen generators, compressors, dryers, filters, and buffer tanks. They can even be delivered on all-in-one skids. Atlas Copco is the only company in the world that can source all these technologies in-house. This means you can work with just one supplier for commissioning and maintenance.

PSA versus membranes

Nitrogen can be generated through Pressure Swing Adsorption (PSA) or membrane technology. Atlas Copco offers both. The main difference is the compressed air they require. PSA needs around 1/3 less compared to a membrane set-up, which saves a significant amount of fuel on board of a vessel. In addition, PSA technology comes with lower investment and maintenance costs and a smaller footprint, without compromising on reliability and flexibility.

Atlas Copco nitrogen generation Your benefits

- Significant energy savings.
- User interface designed for easy and safe operation.
- Made for the marine environment.
- High reliability and low maintenance.
- Small footprint.
- Clean and dry inert gas.
- Modular design that can be customized.



Membrane technology separates air into component gases by passing compressed air through semipermeable membranes consisting of bundles of individual hollow fibers.



- Clean and dry compressed air (pressurized)
- Nitrogen gas (pressurized)
- Oxygen exhaust (depressurized)
- Adsorbent

PSA technology isolates nitrogen molecules from other molecules in compressed air. Oxygen, CO2, water vapor and other gases are adsorbed. The result is virtually pure nitrogen at the outlet of the generator.

Exceeding the toughest standards

Atlas Copco has been granted triple ISO 9001:2000, ISO 14001:2014 and OHSAS 18001 certification for Quality, Environmental and Occupational Health & Safety Management by Lloyd's Register Quality Assurance (LRQA). This demonstrates our commitment to the quality of our services, our care for the environmental impact of our operations and the health of our employees and customers.

Atlas Copco has a close working relationship with all major classification societies. We are always working to develop our products for the benefit of ship owners and vessel crews by ensuring our products perform optimally in the most demanding maritime conditions and temperatures.