Inert gas systems
Nitrogen solutions for marine applications
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.

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.

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.

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.

Atmospheric air
•  Modular design that can be customized.

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Sustainability
The number one priority of the marine industry is sustainability. Atlas Copco will help you turn goals and ambitions into realizations. Increasing efficiency, lowering emissions, and reducing your overall environmental footprint drive our unrelenting investment in innovation. It’s what allows us and our customers to continue to set new standards in compressed air performance.
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.