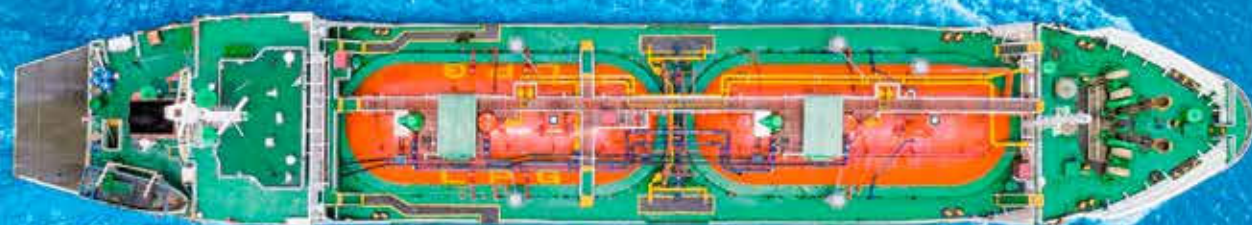


MARINE

**NITROGEN SOLUTIONS FOR INERT GAS
AND DUAL-FUEL**

OXYMAT®



COMPLIES
IMO

OXYMAT®

YOUR ON-SITE NITROGEN EXPERT



EXPERIENCE
SINCE
1978



TURNKEY SOLUTIONS -
STANDARD
AND CUSTOMISED



LOWEST ENERGY
CONSUMPTION



MATERIAL
QUALITY



ALL MAJOR
MARINE APPROVALS



PLUG-AND-PLAY
SOLUTIONS



+6,000
INSTALLATIONS



FAST ROI
WITH MINIMUM
AND PREDICTABLE
OPEX



REQUIRE VERY LITTLE
MAINTENANCE AND
SERVICE



DESIGNED
FOR 24/7/365
OPERATION

With an intergas nitrogen generator solution from OXYMAT you have nitrogen when and where you need it.

OXYMAT is a pioneer in designing and manufacturing on-site oxygen and nitrogen generators, using pressure swing adsorption (PSA) technology since 1978. With our track record comes first hand knowledge of the market, development, demands and the possibilities the PSA technology holds. Recently we have broadened our portfolio to include flexible N₂ generators based on membrane technology.

WORLDWIDE

We operate worldwide and it is our mission to be your preferred innovative, dynamic and environmentally responsible supplier of on-site nitrogen solutions.

WIDE RANGE OF VESSELS

Our nitrogen solutions are suitable for many applications on gas carriers, chemical tankers and dual fuel vessels e.g.:

- Purging fuel gas system and cargo piping
- Pressurizing of the barrier insulation spaces and cofferdams
- Seal gas for LNG boil off gas High Duty (HD) and Low Duty (LD) compressors
- Blanketing of explosive, flammable or toxic cargo to O₂ ppm levels
- Padding of fuel tanks

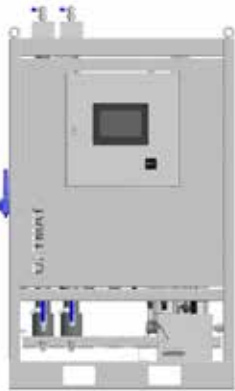
HERE TO GUIDE YOU

From our production sites in Denmark (HQ) and Slovakia, our team is ready to find the right solution to your needs and guide you in the process.

KEY FEATURES

- Produce nitrogen on-demand
- Low and predictable opex
- Full automation
- Low energy consumption
- Low maintenance
- All major marine approvals

THE RIGHT CHOICE FOR YOUR APPLICATION



DUAL FUEL MEMBRANE SOLUTION

- Capacity 25-200 m³/h @ 95-97%
- Flexible installation - Ideal for retrofit
- World's smallest footprint
- Nitrogen production on the fly
- Optimized controls
- Minimum maintainance

→ **Perfect for retrofit**



MARINE OPTIMIZED PSA SOLUTION

- Purity 95-99.5%
- Energy optimized
- Smaller compressor for same capacity
- Less carbon molecular sieve (CMS) for same output
- Flow capacity more than 4,500 m³/h
- Designed optimized for extended lifetime
- Low opex

→ **BEST-IN-CLASS**
(total cost of ownership)



MARINE FRAME PSA SOLUTION

- High N₂ purity, from 95-99.9%
- 2-column system
- Control panel and 7" screen
- Flow capacity up to 20.000 m³/h
- Purity monitoring and alarm settings as standard
- Advanced control system as customized solution

→ **LOW TCO**

COMMITTED TO INNOVATION

At OXYMAT we focus on product development and bringing innovative solutions to market. Our key focus is energy consumption, footprint and cost of ownership.

It is our vision to offer modular plug-and-play units with full remote access, performance measurement and virtual service.

+6,000 INSTALLATIONS
WORLDWIDE

OXYMAT® NITROGEN

ALL MAJOR MARINE APPROVALS

Crude carriers & Product tankers

PSA generators ensure a reliable Inert Gas System well suited for the marine environment. Energy consumption reduced with up to 50%. Heavily reduced maintenance cost compared to Combustion IGG. N₂ flows up to 20,000 Nm³/h.

Chemical carriers

Our PSA generators ensure dry and clean inert gas. Compared to Membrane systems the power consumption is reduced with 25%-30% and even more at high Nitrogen purities. Our system runs fully automated, and the flexibility regards flow and purity is outstanding. The PSA generators offer up to 99.99% purity.

OXYMAT nitrogen solutions are designed and manufactured with highest quality standards

We have delivered units approved by all major classification societies.

We have a long experience in designing, engineering and delivering nitrogen inert gas system for purging and dual fuel systems in according to all classification society rules and regulations.

LNG vessels

Oxymat Nitrogen systems ensure long-term durability and smooth daily operations, with capacities from 20 to 20,000 Nm³/h. Outlet pressure up to 13 barg and possibilities for dry air bypass with a dew point of -20°C as standard.

LPG/VLE vessels

Oxymat Nitrogen systems have the smallest footprint. Nitrogen with high purity and dew point down to -70°C ensures protection of any cargo. While ex-proof containerized units allow flexible deck installation.

24/7 Service and Support



Reach out to us anytime, from anywhere.

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