

NC 1.3 Nitrogen Generator

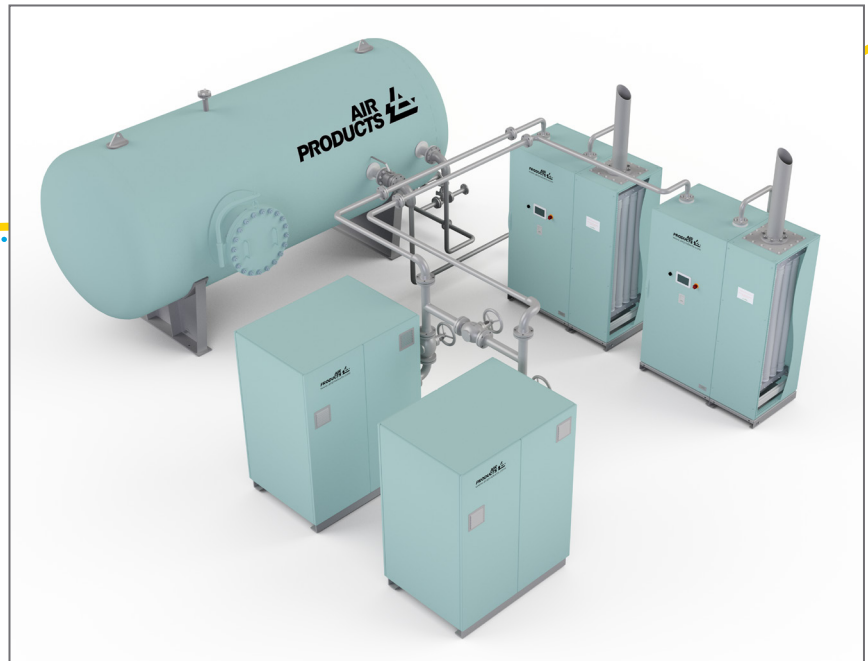
Nitrogen Membrane Systems for 20 to 420 Nm³/h

Features and Benefits

- Marine-specific design.
- Easy integration with existing ship Control Systems.
- Choice of shipyards and shipowners globally.
- Made for Safe Area - ship machinery space requirements.
- Available as individual units or as complete system, with compressor, receivers, double block double bleed, deck valves and controls.
- More than 1000 units sold since 2004.
- Short delivery time.

Unprecedented Experience

- Air Products a Specialist Marine Systems supplier since 1970.
- Market Leader on inert nitrogen generators since 1982
- Dedicated Lifecycle Solutions Team, with global port-to-port service network.



The NC 1.3 Nitrogen Generator is a PRISM[®] membrane-based nitrogen generator which is designed specifically for shipboard use. This robust cabinet system has the capacity to supply up to 420 cubic meters of nitrogen per hour, is DNV Type-A approved, and meets demanding international marine standards.

The system delivers nitrogen quickly while automatically adjusting the purity even with variable feed inlet pressure. The compact design makes installation easy and all components are protected by the rugged enclosure.

An easy-to-understand, HMI is integrated into the front panel where the operator can access all status signals, process parameters and alarms. There is also the option to interface the unit directly into ships IAS using a standard serial communication (MODBUS*) connection which eliminates multi-core cables. The NC 1.3 system will even remind you about routine maintenance and provide instant access to our Lifecycle Solutions Team for simplified ordering.

* Other serial or ethernet protocols available on request



Specifications

El. Power consumption [kW]	1.5 – 7.0
Inlet air pressure [barg]	5.0 – 13.0
N ₂ product pressure [barg]	≤ 10.0
Nitrogen purity [% N ₂]	95.0 – 99.9

Maximum capacities

At 95% nitrogen purity :	420 Nm ³ /h
At 97% nitrogen purity :	330 Nm ³ /h
At 99% nitrogen purity :	120 Nm ³ /h
At 99.9% nitrogen purity :	70 Nm ³ /h

Dimensions/Connections:

Cabinet size, LxWxH [mm]	1600-2000 x 810 x 2200
Maximum weight [kg]:	450 – 1100
Flange connections:	ANSI B16.5 150 Lb
Color (powder coat):	Munsell 7.5BG 7/2 *

* Other colours available on request



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PRISM® is a registered trademark of Air
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The NC 1.3 Nitrogen Cabinet System incorporates PRISM® Membrane separation technology to generate nitrogen. PRISM Membranes are lightweight, durable, and efficient molecular separators.



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