

PRISM® Membrane Separators

Nitrogen & Air Dehydration

AIR
PRODUCTS

Membrane
Solutions

240+
N₂ MEMBRANE
SYSTEMS
DELIVERED

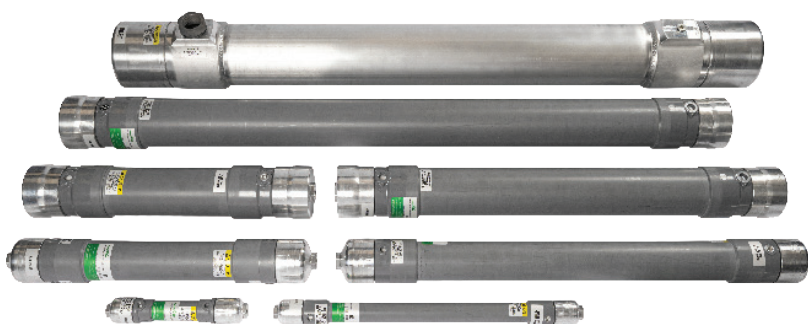
500,000
MEMBRANES
MANUFACTURED

Efficient, flexible, easy-to-use solution for separating nitrogen or removing water vapor from compressed air streams

- Reliable, mobile, and low-maintenance
- Backed by decades of application expertise, engineering rigor, and proven performance trusted by OEMs across a variety of industries
- Every unit is manufactured in our AS9100 and ISO9001 certified facility
- Expansive catalog offers versatility in design and low cost of ownership—build with confidence and protect your assets long after integration

PRISM® N₂Sep Membrane Separators

- Designed to handle pressures up to 24 barg (350 psig) using selective permeation technology, no moving parts
- Internal fiber is designed to withstand years of robust cycling without loss of performance



CONFIGURATIONS

PRISM® N₂Sep Flow

Our standard nitrogen membrane

PRISM® N₂Sep Plus

For higher product flows or increased cycling

PRISM® N₂Sep Select

Favoring selectivity or low-power configurations

PRODUCT PERFORMANCE

95% N₂ at 15 barg, 55°C

Membrane Model	Nitrogen Flow Rate (Nm ³ /h)	Air/N ₂ Ratio
PA6050-N1	94.06	2.14
PA6050-P3	47.23	1.76
PA4050-N1	43.02	2.10
PA4050-P3	19.90	1.76
PA4050-N3	60.94	2.08

Showing average performance during 2022-2025.

GENERATING A CLEANER FUTURE

PRISM® AirDry Membrane Dryers

- Membrane dryers remove water vapor to supply high-quality instrument air at dewpoints below -60°C
- Simple design means cost-effective low maintenance compared to desiccant or refrigerant dryers
- Ideal for remote sites and point-of-use purposes, the oil and gas industry, and military aircraft carriers and naval fleets



CONFIGURATIONS

PRISM® AirDry Classic

Standard dehydration membrane product

PRISM® AirDry Flex

Includes external sweep purge for additional flexibility and produces breathable air

PRISM® AirDry Force

Designed for extremely high-pressure (1200 PSI) usage

PRISM® InertPro Membrane System

- Preconfigured nitrogen system primarily utilized for onshore and offshore oil and gas applications
- Capable of 2000 normal cubic meters per hour with additional flexibility for higher flows
- Various system setups available, including combined N_2 and membrane air dryer configurations



GLOBAL SERVICE & SUPPORT



Available 24/7 to support you throughout your system's full lifecycle, minimizing downtime and keeping your operations running at peak performance with expert application engineering and sizing support.

PRISM® Nitrogen Membrane System

- Tailor-made nitrogen membrane systems with decades of reliable operation in energy applications such as FPSOs and FLNGs
- Customizable nitrogen purity range—up to 99.95%—and the capability to provide multiple N_2 flow rates and purities within a single system

CONTACT US

Our global presence includes sales offices and service support worldwide.
MembraneSolutions.com/contact



Membrane Solutions

Air Products World Headquarters
1940 Air Products Boulevard
Allentown, PA 18106
MembraneSolutions.com



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