PRISM® Nitrogen Membrane Systems
High-Capacity Series

Air Products’ family of High-Capacity Membrane Nitrogen Systems meets the needs of large-volume customers. The systems use a proprietary high-capacity membrane fiber developed to minimize your electrical power consumption. Engineered for fast installation, low maintenance, and simple operation, these systems are an ideal supply alternative for a wide range of applications, with significant operational savings over liquid nitrogen tanks. Models are available to supply your high-volume requirements up to 70,000 scfh with a range of purities up to 99.9%.

Technology at Work the World Over
The heart of Air Products’ High-Capacity Systems is the unique membrane technology pioneered by Permea, Inc., a wholly-owned subsidiary of Air Products and a leading innovator in gas separation technologies.

These systems’ specially-engineered separation modules contain hollow fiber membranes that selectively remove oxygen, water vapor, and carbon dioxide from compressed air to efficiently produce nitrogen. Purity and flow rate can be adjusted to suit individual requirements. Thousands of systems using our proprietary membrane technology are in operation at sites around the world.

Large-volume users can benefit from the ability of the High-Capacity Series to significantly reduce overall power and nitrogen costs compared to traditional systems.
Designed to Meet Your Needs

- Nitrogen purity adjustable from 95.0 to 99.9% for greatest flexibility and cost savings.
- Expansion capability allows system to accommodate increased volume requirements.
- Compact, weatherproof housing allows operation at low ambient temperatures.
- Floor-mounted configuration requires no special foundations.
- Removable panels provide easy internal access for system maintenance.
- Simple design with few moving parts means easy operation, minimal maintenance, maximum reliability.
- Advanced PLC control system enables remote operation and monitoring through optional telemetry (Series 5000).
- Internal heating facilitates easy on/off.
- Automatic shutdown during low demand saves power.
- High-spec construction available for demanding environments.

Call Air Products for All Your Gas Needs

For more than 50 years, Air Products has been helping customers reduce costs, increase productivity, and improve product quality through innovative industrial gas supply and applications technology. Air Products will be happy to assist you in meeting all of your nitrogen and other industrial gas needs.

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