

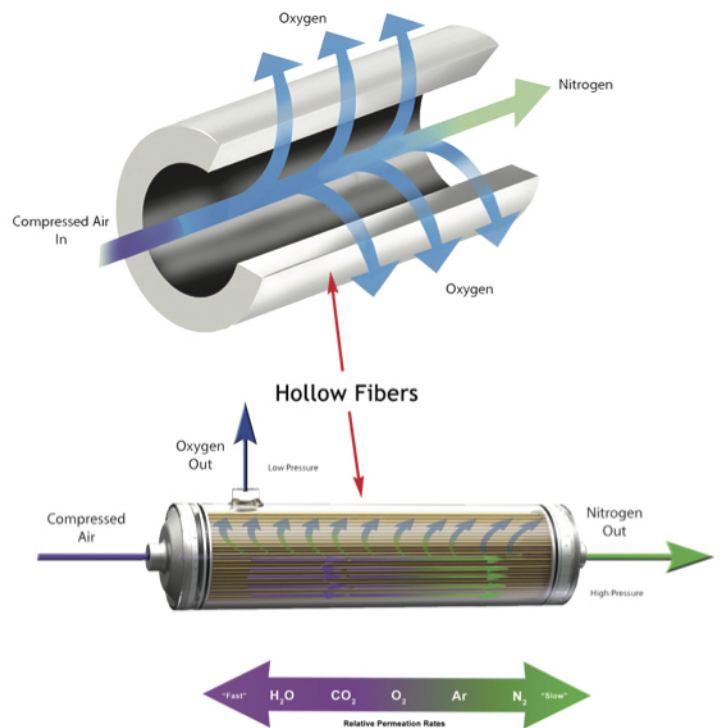
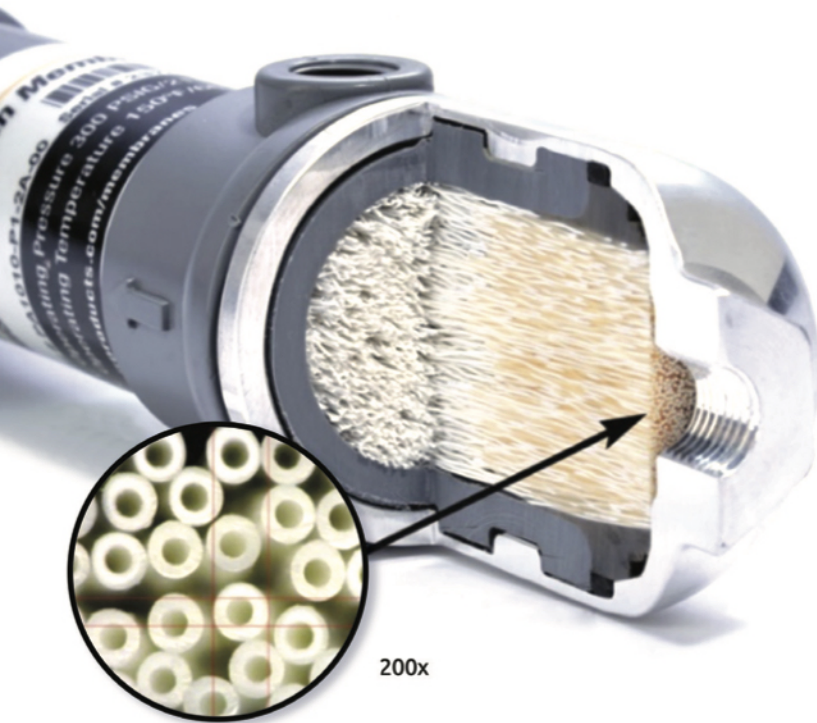
# Portable, Lightweight Membrane Nitrogen Systems

by DCE International, LLC



## FEATURES

- 99.9%-92.0% Nitrogen Purity
- Continuous Nitrogen Supply
- High Efficiency Membrane Fiber Technology
- Integrated Manifold & Silencer
- PLC Controller with a UPS & Battery Backup
- Highly reliable performance
- Rated for offshore use



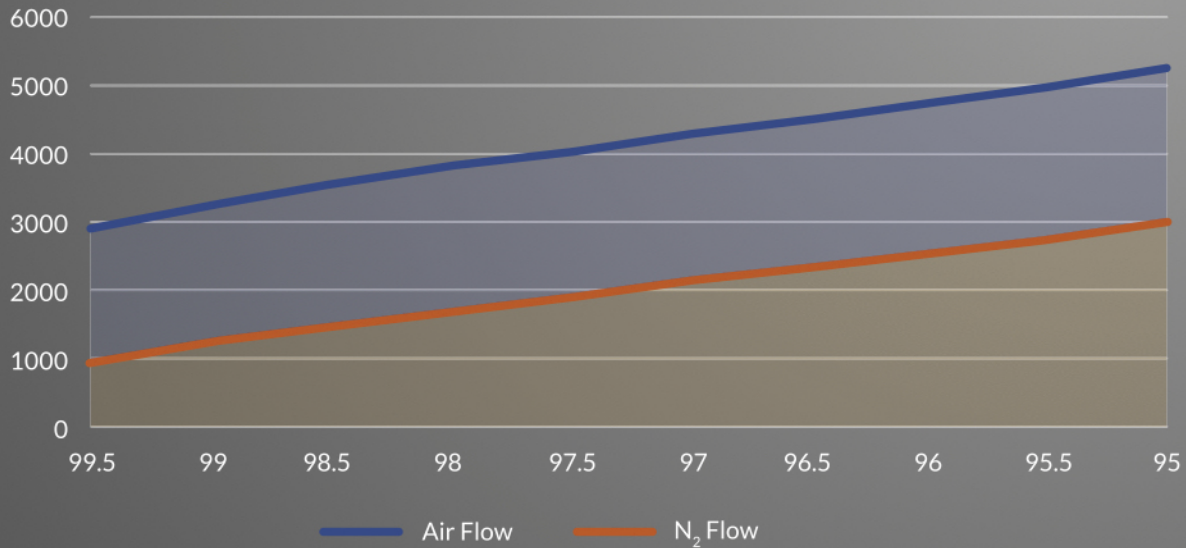
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Membrane separators generate nitrogen gas onsite. Each membrane separator contains thousands of asymmetric hollow fibers that act as a molecular filter. When

high-pressure gas mixtures enter the separator, the gas components divide as a result of selective permeation. Fast gases (such as oxygen) permeate easily through the membrane wall and exit the

side port. Slow gases (such as nitrogen) have a difficult time passing through the membrane wall and travel the bore of the fiber exiting through the port at the end of the shell.

## Flow (SCFM) vs. Purity (N<sub>2</sub> %) MNU 3000



Model	MNU 750	MNU 1500	MNU 3000
N <sub>2</sub> Output @ 95% N <sub>2</sub> + O <sub>2</sub> and inerts	750 scfm	1,500 scfm	3,000 scfm
Feed Air Required @ Design Pressure & Temperature	1,316 scfm	2,632 scfm	5,264 scfm
Design Pressure	325 psig / 22.5 barg		
Design Temperature	125°F / 51.7°C		
Maximum Working Pressure	375 psig / 26 barg		
Product Dew Point @ Atmosphere	≤ -60°F		
Electrical Power	24vdc or 480vac / 3phase / 60Hz		
Weight, lbs	9,500	11,200	21,500
Dimensions (LxWxH) inches	120 x 96 x 102		240 x 96 x 102
Controls	PLC Based with Automatic & Manual Control		
Standards & Classification	ASME & UL		
Optional Standards & Classifications	Class 1 Div. 2,		
Oxygen Monitoring, Continuous	Non-Depleting Sensor, Standard		
N <sub>2</sub> Flow Monitoring, Continuous	Flow Computer, Standard		
Optional Features	Dew Point, Air Flow & Process Pressure Monitoring. Remote Telemetry, Pre-cooler, Winterization		