



### Typical Applications

- Blanketing of Chemicals and Pharmaceuticals
- Gas Assisted Injection Molding (GAIM)
- Heat Treatment of Ferrous & Non-Ferrous Metals
- Inerting of Flammable Liquids
- Prevention of Dust Explosions
- Offshore Supply Vessels
- Cylinder Filling
- Laboratory Nitrogen

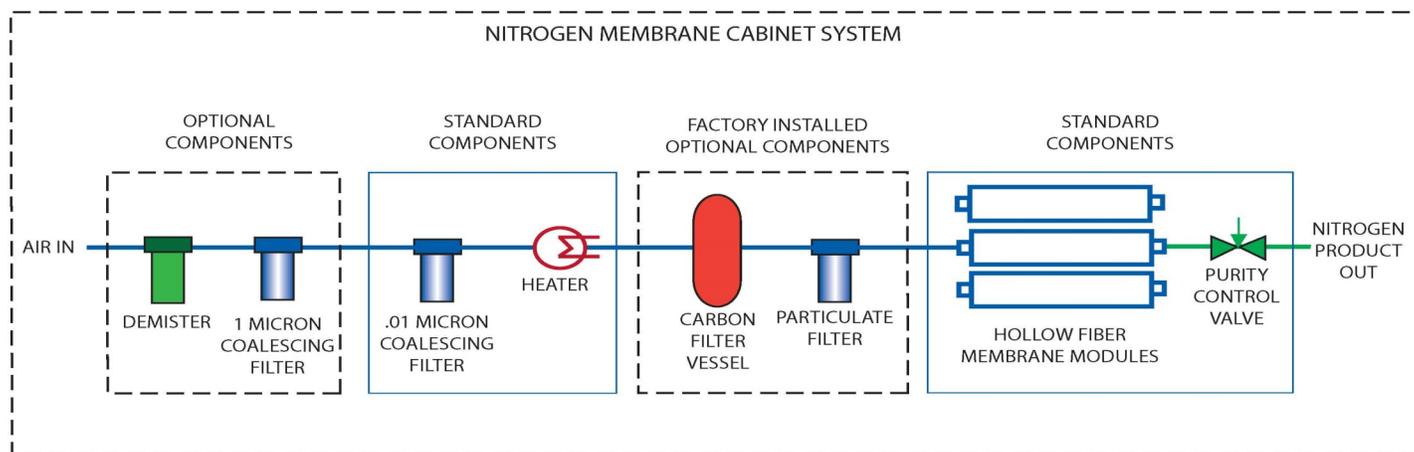
### GENERON Membrane® Cabinets

- **Safe:** Low Operating Pressures, no Hazardous Storage
- **Economical:** Low Operating Cost
- **Convenient:** Fully Automatic Unattended

For over 40 years GENERON has been the world leader in the design and fabrication of Nitrogen Generators. GENERON® has supplied over 4,000 Nitrogen Generators from cabinet to large containerized systems. These systems are energy efficient and low maintenance.

GENERON® Cabinet Series is designed and fabricated using the patented GENERON® Hollow Fiber Membranes. These highly engineered systems produce high flow rates in a small cabinet design.

The membrane® module contain more than a million fibers. Compressed feed air is passed down the bores of the fibers at one end of the module with enriched nitrogen product gas exiting from the opposing end. Oxygen and water vapor are selectively removed and vented from the feed air as it flows to the other end of the module.



#### Standard Components

- Heater
- Hollow Fiber Membranes
- NEMA 4 Cabinet Enclosure
- Purity Control Valve
- Selector Valve
- Pressure Gauges
- .01 Micron Coalescing Filter

#### Options

- Particulate Filter
- Carbon Filter Vessel
- Demister
- 1 Micron Coalescing Filter

#### Options not Pictured Above

- Oxygen Analyzer (Zirconium Oxide type)
- Dew Point Analyzer
- NEMA 4X (316 Stainless Steel)

- Fail Safe Package (off-spec nitrogen automatically vented to atmosphere\*)
- Enhanced PLC with Telemetry
- Hazardous Area Classifications
- Product Booster Compression Package for high pressure applications
- Product Flow Meter
- PLC Control System
- Primary Compression (Compressor)

# Mini Cabinet Series Technical Data—US Standards

## NITROGEN OUTPUT FLOW RATE SCFH

MEMBRANE INLET PRESSURE PSIG	Nitrogen Purity				
	95%	96%	97%	98%	99%
110	290-2770	245-2340	205-1940	160-1540	115-1100
120	330-3120	280-2640	230-2180	180-1730	130-1240
140	405-3830	340-3240	280-2680	225-2120	160-1520
170	520-4920	440-4160	365-3440	285-2730	205-1950

## REQUIRED INLET AIR FLOW SCFM

MEMBRANE INLET PRESSURE PSIG	Nitrogen Purity				
	95%	96%	97%	98%	99%
110	11-95	10-87	9-80	8-72	8-64
120	12-106	11-97	10-88	9-80	9-70
140	15-127	13-117	12-106	11-96	10-84
170	18-160	17-146	15-133	14-119	12-104

### Approximate Weight and Dimensions

Standard	L	W	H	Weight
US-in / lbs	35—54	18—28	30—36	120—300

Flow rates at standard atmospheric conditions (65 to 85°F and 14.7 psi).  
Dew point at < -85°F



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# GENERON



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