GENERON®

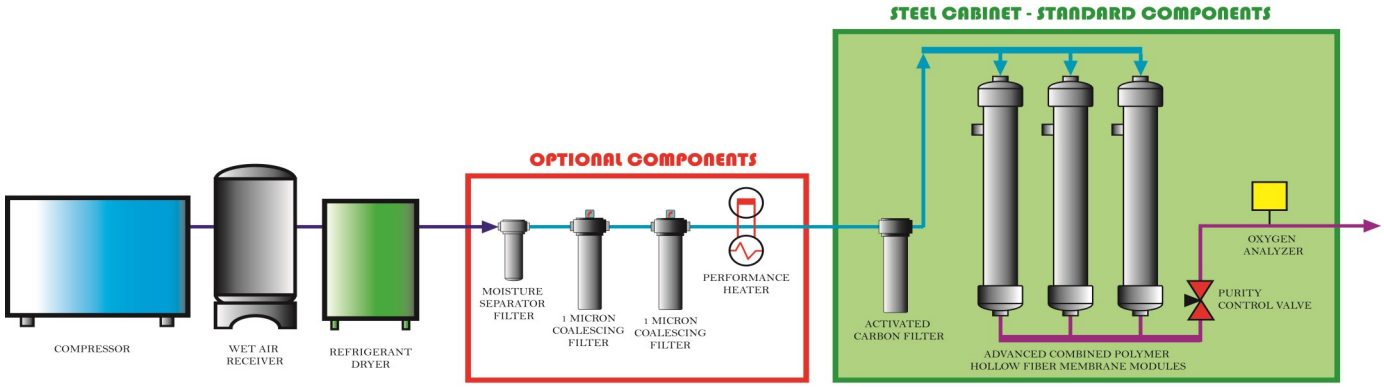
Nitrogen Generator

4000 Series Membrane Cabinet

For over 40 years GENERON has been the world leader in the design and fabrication of Nitrogen Generators. In this time period, GENERON has supplied thousands of Nitrogen Generators from cabinet design to large containerized systems. These systems require low maintenance and less power to run.

The GENERON 4000 Series Cabinet is designed and fabricated using the patented GENERON® Hollow Fiber Membranes. This highly engineered systems enables high flow rates in a small modular design.

The membrane module contains thousands of 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.



CABINETS

Typical Applications

- Gas Assisted Injection Molding (GAIM)
- Heat Treatment of Ferrous & Non-Ferrous Metals
- Inerting of Flammable Liquids & Gases
- Food Packaging
- Laser / Plasma Cutting
- Re-flow and Wave Soldering of PCBs
- Brazing
- Blanketing of Chemical & Pharmaceuticals
- Auto Clave

Advantages of Membrane Cabinets

- On Demand Product
- Safe Operating Pressures
- No Hazardous Storage or Connections
- Low Gas Generating costs
- No Moving Parts
- Extremely Low dBa levels (<84 dBa)
- Easy to Install
- Near Maintain Free
- Easily Boosted to High pressure

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GENERON® 4000 Series Membrane Cabinet

Standard Features:

- Combine Polymer Hollow Fiber Membranes (Increased module output performance)
- Oxygen Analyzer With two (2) dry contact output alarms (programable High and Low) and a 4-20mA output signal
- Activated Carbon Filter (With an integrated .01 Particulate filter wrap)
- Powder Coated Steel Enclosure
- Factory Set Purity Control Valve
- Stainless Steel piping and Gauges

Available Options:

- Performance Heater
- Product Flow Meter
- Inlet Filtration Package
- NEMA 4X (316 Stainless Steel)
- Enhanced PLC for Advance option control or Telemetry
- Automatic purity control for varying flows
- Auto Shut Down/Startup mode
- Auto Standby mode
- Auto Off Specification Circuit
- HMI Display Screen: Displays Inlet pressure, outlet pressure, system run status, O2 concetraion
- Dew Point Analyzer
- Hazardous Area Classification

4000 SERIES MEMBRANE CABINET

Model Size	Inlet Pressures		® Nitrogen Purity / Flow Rate							
	PSIG	BARG	95%		96%		97%		99.5%	
			SCFH	NM^3/H	SCFH	NM^3/H	SCFH	NM^3/H	SCFH	NM^3/H
210-G1	100 to 175	6.9 to 12	49-100	1.29-2.63	41-85	1.08-2.33	34-70	0.89-0.97	16-37	0.42-0.97
210-G2	100 to 175	6.9 to 12	98-200	2.58-5.26	82-170	2.16-4.47	68-140	1.79-3.68	32-74	0.84-1.95
330-G1	100 to 175	6.9 to 12	254-519	6.68-13.64	214-437	5.63-11.49	176-359	4.63-9.44	81-163	2.13-11.49
330-G2	100 to 175	6.9 to 12	508-1038	13.36-27.29	428-874	11.25-22.98	352-718	9.25-18.87	162-874	4.26-22.98
4100-G1	100 to 175	6.9 to 12	615-1257	16.17-33.04	518-1056	13.62-27.76	427-868	11.23-22.82	196-395	5.15-22.13
4100-G2	100 to 175	6.9 to 12	1176-2400	32.23-66.08	1036-2112	27.23-55.52	854-1736	22.45-45.64	392-1684	10.3-44.27
6150-G1	100 to 175	6.9 to 12	1313-2682	34.52-70.5	1105-2253	29-59.23	910-1853	23.92-48.71	419-842	11-22.13
6150-G2	100 to 175	6.9 to 12	2626-5364	69-141	2210-4506	58.1-118.45	1820-3706	47.84-97.42	838-1684	22-44.26

*Flow and pressure values are averages with tolerances of ±4%. Performance data based on 40°F (4.4°C) pressure dew point and 80°F (27°C) inlet at membrane. Standard conditions: 68°F(20°C) and 14.696 PSI (1 atm).

DIMENSIONS: 32” L x 20” W x 56” H, WEIGHT: 70 –200 lbs.

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