

# GENERON® Nitrogen Generators Industrial Cabinet

## Series: CP-331



### 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

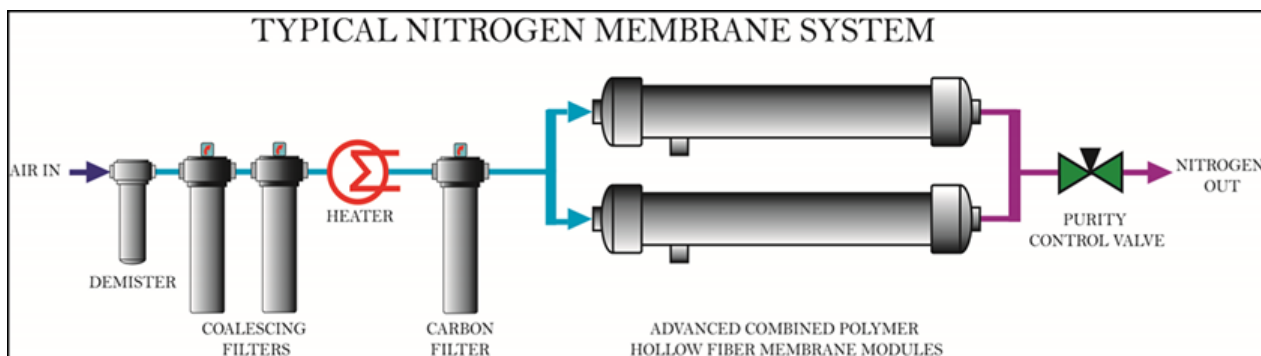
### Advantages of Membrane Cabinets

- Low Operating Pressures
- No Hazardous Storage or Connections
- Low Gas Generating costs
- Low Operating Cost
- Easy to Install
- Near Maintain Free
- Extremely Low dBa levels
- Easily Boosted to High pressure

For over 30 years GENERON has been the world leader in the design and fabrication of Nitrogen Generators. In this time period, GENERON has supplied over 9,000 Nitrogen Generators from the cabinet to large containerized systems. These systems require low maintenance and less power to run.

The GENERON NOW Series 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 of the module.



### Standard Components

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

### Options

- Performance Heater
- Product Flow Meter
- Inlet Filtration Package
- Auto Shut Down/Startup mode (with manual bypass valve capacity)
- Auto Standby mode
- Off Specification Circuit
- Expandable (in some series sizes)

### Special Options

- NEMA 4X (316 Stainless Steel)
- HMI Display Screen: Displays Inlet pressure, outlet pressure, system run status, O2 concentration
- Demister
- Dew Point Analyzer
- Enhanced PLC for Telemetry
- Hazardous Area Classifications

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Nitrogen Membrane NOW CP-331 Series Specifications & Performance						
100 PSIG Feed Pressure				125 PSIG Feed Pressure		
Nitrogen %	N2 Flow	N2 Pressure	Feed Air Flow	N2 Flow	N2 Pressure	Feed Air Flow
	SCFH	PSIG	SCFM	SCFH	PSIG	SCFM
	NM <sup>3</sup> H	Barg	NM <sup>3</sup> H	NM <sup>3</sup> H	Barg	NM <sup>3</sup> H
95	243	95	8.2	326	120	10.7
	6.41	6.6	12.96	8.60	8.3	16.91
96	205.0	95	7.4	274.0	120	9.7
	5.41	6.6	11.69	7.23	8.3	15.33
97	169.0	96	6.7	226.0	120	8.7
	4.46	6.6	10.59	5.96	8.3	13.75
98	135.0	96	6.1	180.0	121	7.9
	3.56	6.6	9.64	4.75	8.3	12.48
99	100.0	97	5.5	134.0	121	7.0
	2.64	6.7	8.69	3.54	8.3	11.06
99.5	78.0	97	5.1	104.0	121	6.5
	2.06	6.7	8.06	2.74	8.3	10.27

Nitrogen Membrane NOW CP-331 Series Specifications & Performance						
150 PSIG Feed Pressure				175 PSIG Feed Pressure		
Nitrogen %	N2 Flow	N2 Pressure	Feed Air Flow	N2 Flow	N2 Pressure	Feed Air Flow
	SCFH	PSIG	SCFM	SCFH	PSIG	SCFM
	NM <sup>3</sup> H	Barg	NM <sup>3</sup> H	NM <sup>3</sup> H	Barg	NM <sup>3</sup> H
95	410.0	145	13.2	496.0	170	15.8
	10.82	10.0	20.86	13.09	11.7	24.96
96	345.0	145	12.0	417.0	170	14.2
	9.10	10.0	18.96	11.00	11.7	22.44
97	285.0	146	10.8	343.0	170	12.8
	7.52	10.1	17.06	9.05	11.7	20.22
98	227.0	146	9.6	274.0	171	11.4
	5.99	10.1	15.17	7.23	11.8	18.01
99	168.0	146	8.5	202.0	171	10.1
	4.43	10.1	13.43	5.33	11.8	15.96
99.5	131.0	147	7.9	158.0	172	9.2
	3.46	10.1	12.48	4.17	11.9	14.54

STD.: 68°F 14.5 PSI Inlet Temperature 75°F Dew Point 38°F or <

Approximate Weight and Dimensions				
Standard	H	W	L	Weight
in / lbs	55.2	31.5	19.7	119
mm / kg	1,402	800	500	54

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