

# **Nitrogen Industrial Cabinet**

Series: CP-6807



### **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

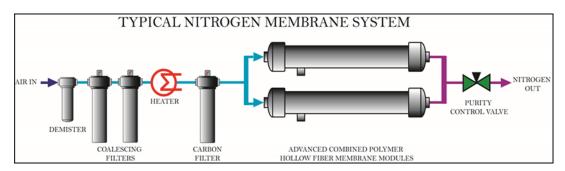
# **Advantages of Membrane Cabinets**

- 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 concetraion
- Demister
- Dew Point Analyzer
- · Enhanced PLC for Telemetry
- · Hazardous Area Classifications

# Nitrogen Generators Industrial Cabinet Series: CP-6807

Nitrogen Membrane Cabinet CP-6807 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		
	NM³H	Barg	NM³H	NM³H	Barg	NM³H		
95	14,274	84	483	19,369	107	636		
	377	6	763	511	7	1,005		
96	12,131	86	444	16,443	109	583		
	320	6	701	434	8	921		
97	10,101	87	406	13,671	111	531		
	267	6	641	361	8	839		
98	8,127	89	369	10,976	113	480		
	214	6	583	290	8	759		
99	6,076	90	332	8,176	115	428		
	160	6	524	216	8	676		
99.5	4,760	91	309	6,391	116	395		
	126	6	489	169	8	624		
Nitrogen Membrane Cabinet CP-6807 Specifications & Performance								
	Mill ogen men	ibranc Gabine	20007 Op	ecincations &	renomiance			
		IG Feed Press			PSIG Feed Pres			
Nitrogen %	150 PS	SIG Feed Press	ure	175 I	PSIG Feed Pres	sure		
Nitrogen %	150 PS N2 Flow	N2 Pressure	Feed Air Flow	175 I N2 Flow	PSIG Feed Pres	Feed Air Flow		
	N2 Flow SCFH	N2 Pressure PSIG	Feed Air Flow SCFM	175 I N2 Flow SCFH	PSIG Feed Pres N2 Pressure PSIG	Feed Air Flow SCFM		
Nitrogen %	N2 Flow SCFH NM³H	N2 Pressure PSIG Barg	Feed Air Flow SCFM NM³H	N2 Flow SCFH NM³H	PSIG Feed Pres N2 Pressure PSIG Barg	Feed Air Flow SCFM NM³H		
95	N2 Flow SCFH NM³H 24,654	N2 Pressure PSIG Barg 131	Feed Air Flow SCFM NM³H 795	175 I N2 Flow SCFH NM³H 30,058	PSIG Feed Pres N2 Pressure PSIG Barg 156	Feed Air Flow SCFM NM³H 957		
	150 PS N2 Flow SCFH NM³H 24,654 651	N2 Pressure PSIG Barg 131	Feed Air Flow SCFM NM³H 795 1,255	175 I N2 Flow SCFH NM³H 30,058 793	PSIG Feed Pres N2 Pressure PSIG Barg 156 11	Feed Air Flow SCFM NM³H 957 1,512		
95 96	150 PS N2 Flow SCFH NM³H 24,654 651 20,916	N2 Pressure PSIG Barg 131 9 134	Feed Air Flow SCFM NM³H 795 1,255 727	175 I N2 Flow SCFH NM³H 30,058 793 25,487	PSIG Feed Pres N2 Pressure PSIG Barg 156 11 158	Feed Air Flow SCFM NM³H 957 1,512 874		
95	N2 Flow SCFH NM³H 24,654 651 20,916 552	N2 Pressure PSIG Barg 131 9 134	Feed Air Flow SCFM NM³H 795 1,255 727 1,148	N2 Flow SCFH NM³H 30,058 793 25,487 672	PSIG Feed Pres N2 Pressure PSIG Barg 156 11 158	Feed Air Flow SCFM NM³H 957 1,512 874 1,380		
95 96 97	150 PS N2 Flow SCFH NM³H 24,654 651 20,916 552 17,360	N2 Pressure PSIG Barg 131 9 134 9 136	Feed Air Flow SCFM NM³H 795 1,255 727 1,148 660	N2 Flow SCFH NM³H 30,058 793 25,487 672 21,140	PSIG Feed Pres N2 Pressure PSIG Barg 156 11 158 11	Feed Air Flow SCFM NM³H 957 1,512 874 1,380 791		
95 96	150 PS N2 Flow SCFH NM³H 24,654 651 20,916 552 17,360 458	N2 Pressure PSIG Barg 131 9 134 9 136 9	Feed Air Flow SCFM NM³H 795 1,255 727 1,148 660 1,043	N2 Flow SCFH NM³H 30,058 793 25,487 672 21,140 558	PSIG Feed Pres N2 Pressure PSIG Barg 156 11 158 11 160 11	SEUTE Feed Air Flow SCFM NM³H 957 1,512 874 1,380 791 1,250		
95 96 97 98	150 PS N2 Flow SCFH NM³H 24,654 651 20,916 552 17,360 458 13,923	N2 Pressure PSIG Barg 131 9 134 9 136 9 137	Feed Air Flow SCFM NM³H 795 1,255 727 1,148 660 1,043 594	N2 Flow SCFH NM³H 30,058 793 25,487 672 21,140 558 16,800	PSIG Feed Pres N2 Pressure PSIG Barg 156 11 158 11 160 11 162	Feed Air Flow SCFM NM³H 957 1,512 874 1,380 791 1,250 709		
95 96 97	150 PS N2 Flow SCFH NM³H 24,654 651 20,916 552 17,360 458 13,923 367	N2 Pressure PSIG Barg 131 9 134 9 136 9 137	Feed Air Flow SCFM NM³H 795 1,255 727 1,148 660 1,043 594 938	175 I N2 Flow SCFH NM³H 30,058 793 25,487 672 21,140 558 16,800 443	PSIG Feed Pres  N2 Pressure  PSIG  Barg  156  11  158  11  160  11  162  11	Feed Air Flow SCFM NM³H 957 1,512 874 1,380 791 1,250 709 1,120		
95 96 97 98	150 PS N2 Flow SCFH NM³H 24,654 651 20,916 552 17,360 458 13,923 367 10,346	N2 Pressure PSIG Barg 131 9 134 9 136 9 137 9 139	Feed Air Flow SCFM NM³H 795 1,255 727 1,148 660 1,043 594 938 525	175 I N2 Flow SCFH NM³H 30,058 793 25,487 672 21,140 558 16,800 443 12,558	PSIG Feed Pres  N2 Pressure  PSIG  Barg  156  11  158  11  160  11  162  11  164	Feed Air Flow SCFM NM³H 957 1,512 874 1,380 791 1,250 709 1,120 623		

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

Approximate Weight and Dimensions							
Standard	Ξ	W	L	Weight			
in / lbs	87	63	32	1,024			
mm / kg	2,200	1,600	800	464			

## **GENERON**

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