GENERON®

6800 HHP
Nitrogen Membrane Modules

Reliable Nitrogen Membrane Modules are the heart of a nitrogen generation system. **GENERON®** membrane modules have been at the forefront of the industry for over 40 years. Our research and development team in California work to continually improve the performance and durability of our membranes.

By supplying the **GENERON®** membrane modules with compressed air, they generate a nitrogen stream that's suitable for industries including: commercial, food, beverage, laboratory, controlled atmosphere, pharmaceutical, chemical, textile, heat treatment, electronics and many more.

Features & Benefits

Durability by Design
GENERON® has been the benchmark of the industry and is proud of the track record of the lowest return-rate while selling >100,000 membranes

Saving Energy
GENERON® membrane modules offer the highest efficiency which reduces your compression costs to the minimum

Reducing Footprint
GENERON® membrane modules with the highest productivity in the industry allow for the smallest system size and lowest weight

Start-Up is a Breeze
As soon as you supply compressed air to the GENERON® membrane modules you will instantaneously produce nitrogen

Reduced CO2 emissions
No heater required to open polymer membrane structure, thus reducing the energy consumption.

Ease of Installation
GENERON® membrane modules allow installation in any available space, whether horizontal or vertical. The large choice of membrane sizes makes the fit easy.

Quality is Guaranteed
Every GENERON® membrane module is rigorously QC tested before it leaves our membrane manufacturing facility to ensure it meets the highest flow and purity standards set in our ISO 90001 procedures

Suited for Tough Environments
GENERON® membrane modules are built to withstand even the roughest operating conditions, incl. vibrations, pressure– and temperature swings and harsh off-shore or roadside outdoor conditions

Experience Engineering
GENERON® membrane modules are designed and built for 10+ years of operation.

Operating Conditions	
Max Pressure	500 PSIG (34 barg)
Temperature (Min /Max)	40 °F (4.4 °C) / 149 °F (65 °C)
Max Relative Humidity	80% (no liquid water)
Max Particle Size	0.01 micron

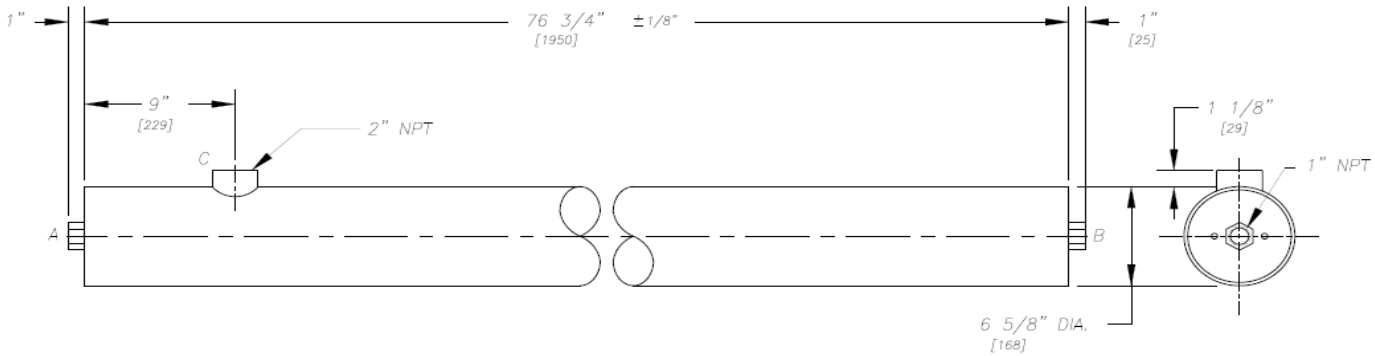
Mechanical Description	
Outer Diameter	6.625 inch [171 mm)
Length	76.75 inch [1950 mm]
Weight	160 lbs [72.6 kg)
Case Material	Carbon Steel

Nitrogen Product Flow Rate at 25°C (77°F) vs. Product Purity						
Pressure barg (psig)	Nitrogen Product Purity in vol% and Product Flow Rate NCMH (SCFH)					
	95.0%	96.0%	97.0%	98.0%	99.0%	99.5%
6.9 (100)	27.5 (1061.2)	23.1 (888.9)	18.8 (725.7)	14.7 (565.7)	10.2 (393.2)	7.3 (282)
8.5 (125)	37.1 (1429.5)	31.1 (1198)	25.4 (978.8)	19.8 (764.4)	13.9 (533.9)	10 (385.8)
10.4 (150)	48.9 (1884.6)	41 (1580.2)	33.5 (1291.9)	26.2 (1010.4)	18.4 (708.3)	13.3 (514.4)
12.1 (175)	59.4 (2291.5)	49.9 (1922)	40.8 (1572.3)	31.9 (1230.7)	22.4 (864.4)	16.3 (629.2)
13.8 (200)	70.6 (2722.9)	59.3 (2284.5)	48.5 (1869.7)	38 (1464.6)	26.7 (1029.7)	19.5 (750.4)

Air Recovery Rate at 25°C (77°F) [%] vs Product Purity						
Pressure barg (psig)	95.0%	96.0%	97.0%	98.0%	99.0%	99.5%
6.9 (100)	51.4%	47.4%	42.8%	37.2%	29.3%	22.7%
8.5 (125)	53.2%	49.2%	44.7%	39.1%	31.2%	24.6%
10.4 (150)	54.6%	50.7%	46.3%	40.7%	32.9%	26.3%
12.1 (175)	55.5%	51.6%	47.2%	41.8%	33.9%	27.3%
13.8 (200)	56.1%	52.3%	47.9%	42.5%	34.7%	28.1%

Porting Configuration	
Connection	Size
A—Feed	1 inch FNPT
B—Product	1 inch FNPT
C—Permeate	2 inch FNPT

1. Seal connections with Teflon Tape or Formula 8 Thread Sealant only.
2. Standard Conditions: 77°F (25°C) and 14.696 psi (1 atm)
3. Performance after 1 year (9,000 hours) of continuous operation
4. Recovery = Product N_2 Flow / Feed Flow



GENERON
16250 Tomball Parkway
Houston, Texas 77086
713-937-5200
Sales@Generon.com

GENERON