

# GENERON

## Nitrogen Membrane Modules Type 7200 HP



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

By simply supplying the **GENERON**<sup>®</sup> membrane modules with compressed air, they will generate a nitrogen stream that is suitable for a wide range of industries including beverage, laboratory, food, controlled atmosphere, pharmaceutical, chemical, textile, heat treatment, electronics and many more.

### Features & Benefits

#### Durability by Design

GENERON<sup>®</sup> has been the benchmark of the industry and proud of the lowest return-rate while selling >100,000 membranes.

#### Saving Energy

GENERON<sup>®</sup> membrane modules offer the highest efficiency reducing your compression costs.

#### Reducing Footprint

GENERON<sup>®</sup> membrane modules have the highest productivity in the industry and average 30% smaller footprint.

#### Start-Up is a Breeze

Plug in and instant Nitrogen production.

#### Reduced CO2 emissions

No heater required. Reduced energy consumption.

#### Ease of Installation

GENERON<sup>®</sup> membrane modules allow horizontal or vertical installation. Easily adaptable to any space.

#### Quality is Guaranteed

Every GENERON<sup>®</sup> membrane module is rigorously tested to the highest-standards in our ISO 9000 certified facilities. GENERON designs and manufactures for outdoor durability.

#### Suited for Tough Environments

GENERON<sup>®</sup> membrane modules are built to withstand even the roughest operating conditions, including harsh off-shore or roadside outdoor conditions.

#### Experience Engineering

GENERON<sup>®</sup> membrane modules are designed and built for years of outdoor operation.

Operating Conditions	
Max Pressure	350 PSIG (124.1 barg)
Temperature (Min /Max)	40 °F (4.4 °C) / 131 °F (55 °C)
Max Relative Humidity	80% (no liquid water)
Max Particle Size	0.01 micron

Mechanical Description	
Outer Diameter	10.75 inch (273 mm)
Length	80.25 inch (2038 mm)
Weight	366 lbs (166 kg)
Case Material	Carbon Steel

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### Nitrogen Product Flow Rate at 25°C (77°F) vs. Product Purity

Pressure barg (psig)	Nitrogen Product Purity in vol% and Product Flow Rate Nm <sup>3</sup> /h (SCFH)					
	95%	96%	97%	98%	99%	99.5%
6.9 (100)	47 (1811.7)	39.4 (1517.7)	32.1 (1238.9)	25.1 (965.9)	17.4 (671.3)	12.5 (481.5)
8.5 (125)	63.3 (2440.5)	53.1 (2045.4)	43.4 (1671.1)	33.9 (1305)	23.6 (911.6)	17.1 (658.7)
10.4 (150)	83.5 (3217.6)	70 (2697.9)	57.2 (2205.8)	44.8 (1725.1)	31.4 (1209.4)	22.8 (878.2)
12.1 (175)	101.5 (3912.4)	85.1 (3281.5)	69.6 (2684.3)	54.5 (2101.3)	38.3 (1475.8)	27.9 (1074.2)
13.8 (200)	120.6 (4648.9)	101.2 (3900.4)	82.8 (3192.1)	64.9 (2500.5)	45.6 (1758.1)	33.2 (1281.2)

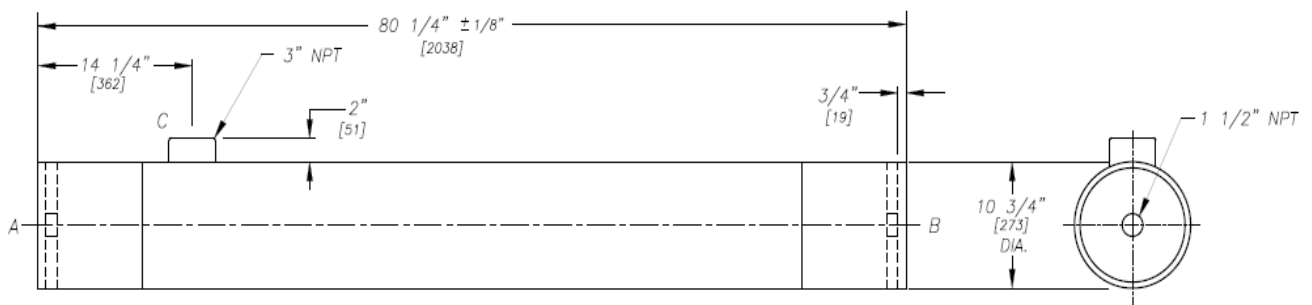
### Air Recovery Rate at 25°C (77°F) [%] vs Product Purity

Pressure barg (psig)	95%	96%	97%	98%	99%	99.5%
6.9 (100)	53.4%	49.4%	44.8%	39.2%	31.3%	24.7%
8.5 (125)	55.2%	51.2%	46.7%	41.1%	33.2%	26.6%
10.4 (150)	56.6%	52.7%	48.3%	42.7%	34.9%	28.3%
12.1 (175)	57.5%	53.6%	49.2%	43.8%	35.9%	29.3%
13.8 (200)	58.1%	54.3%	49.9%	44.5%	36.7%	30.1%

### Porting Configuration

Connection	Size
A—Feed	1 1/2 inch FNPT
B—Product	1 1/2 inch FNPT
C—Permeate	3 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<sub>2</sub> Flow / Feed Flow



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