GENERON

MARINE N₂ GENERATING SYSTEMS MEMBRANE Single Cabinet Series

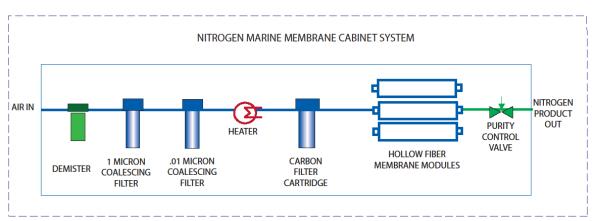
- Cargo Hold and Hull Fumigation
- Cargo Hold Inerting / Oxidation Control
- FPSO (Floating Production, Storage & Offloading Systems)
- LNG / LPG
- Transporting Perishable Goods
- •Inerting of Flammable Liquids



The **GENERON**® Marine Series is ideal where low to medium Nitrogen flow rates are required in a small footprint. **GENERON**® Cabinet Series is designed and manufactured using the patented **GENERON**® Hollow Fiber Membranes. These highly engineered systems produce high flow rates in a range of cabinet designs and sizes with an average 30% smaller footprint.

The **GENERON®** membrane module contains over a million 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.

Our ISO 9000, ASME, PED, UL/CSA and GOST certified facilities and shops ensure the highest-standards are met and your expectations exceeded.



FEATURING:

- Convenient: Fully Automatic Unattended Operation
- Easy: Maintenance and operation
- Economical: Low Operating Cost
- Reliable:: Systems Built to Last
- Safe: Low Operating Pressures, no Hazardous Storage

- Hydrocarbon free
- Nitrogen Dew Point down to -70° F (57° C)
- Nitrogen purities up to 99.999%
- Optional Dew Point feature of –100°F (-73°C)
- Oxygen Analyzer
- DNV Approved Cabinets







MARINE N₂ MEMBRANE SYSTEMS

Single Cabinet Series

NITROGEN OUTPUT FLOW RATE—4000 Series Cabinets All flow rates are rated at 95% Purity							
	4001		4002				
Pressure	Nitrogen Flow	Air Demand	Nitrogen Flow	Air Demand			
PSIG / BAR G	SCFM / Nm3/hr	SCFM / Nm3/hr	SCFM / Nm3/hr	SCFM / Nm3/hr			
100 / 6.9	11 / 17	23 / 37	21 / 34	47 / 74			
150 / 10.3	19 / 30	40 / 62	38 / 60	76 / 120			
175 / 12.0	23 / 36	46 / 73	46/ 72	92 / 144			

NITROGEN OUTPUT FLOW RATE—6000 Single & Dual Cabinets All flow rates are rated at 95% Purity 6001-4 6005-8 Nitrogen Flow Air Demand Nitrogen Flow Air Demand Pressure PSIG / BAR G SCFM / Nm3/hr SCFM / Nm3/hr SCFM / Nm3/hr SCFM / Nm3/hr 280 / 440 140 / 220 625 / 980 100 / 6.9 312 / 490 150 / 10.3 254 / 400 1070 / 1680 535 / 840 510 / 800 175 / 12.0 303 / 477 630 / 990 607 / 954 1261 / 1980

^{***}Dew point at < -85°F Additional purities and flows available.

Approximate Weight and Dimensions							
Size	L	W	Н	Weight			
Size	inch / mm	inch / mm	Inch / mm	lbs. / kg			
4000 Series	30 / 762	28 / 711	66 / 1676	250 / 112			
6000 Series	32 / 812	32/ 812	90 / 2286	800 / 360			
6000 Dual	64 / 1625	32 / 812	90 / 2286	1200 /			
0000 Duai	04 / 1023			540			

Standard Components

- Heater
- Hollow Fiber Membranes
- NEMA 12 Cabinet Enclosure
- · Purity Control Valve
- Selector Valve
- Pressure Gauges
- .01 Micron Coalescing Filter

- Demister
- 1 Micron Coalescing Filter
- · Carbon Filter Cartridge
- Oxygen Analyzer (Zirconium Oxide)

Options

- Dew Point Analyzer
- NEMA 4X Cabinet Enclosure
- NEMA 4X (316 Stainless Steel)

- Fail Safe Package (off –spec nitrogen automatically vented to atmosphere*)
- Enhanced PLC with Telemetry
- Hazardous Area Classifications
- Product Booster Compression Package for high pressure applications
- · Product Flow Meter
- PLC Control System
- Primary Compression (Compressor)
- DNV Type Approved

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16250 Tomball Parkway Houston, Texas 77086 O +1 713 937 5200 F +1 713 937 5250





^{**}Flow rates at standard atmospheric conditions (77°F and 14.7 psi.)