

Gas Nitrogen Membrane Module 300 Cfm Chemicals Pharmaceuticals

Our Product Introduction

Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: ISO9001, CE, BV, SGS, TUV, ASME, GOST,NB,NR ETC
- Model Number: OSM
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 30-45 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



Product Specification

- Material: Mild Steel/Stainless Steel
- Certificates: CE, ISO, ASME, GOST, KGS, NB Etc
- Capacity: 1000 CFM
- Purity: 95%-99.9%
- Pressure: 500 PSI
- Container: Yes
- Movable: Yes
- Application: Purging
- Condition: New
- Warranty: 1 Year
- Voltage: 220v/380v/50-60hz
- Weight: Actual Weight)
- Dimension(l*w*h): Actual Size
- Power(w): 0.5KW
- Color: White/customized

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Product Description

300 cfm membrane nitrogen generator with CE certificates Blanketing of Chemicals and Pharmaceuticals with 500 psi

Membrane Nitrogen Generator

There are many manufacturers that require nitrogen gas for their manufacturing processes. However, the high costs associated with purchasing nitrogen from industrial gas suppliers and the inconvenience of waiting for the gas to be delivered can take a toll on your bottom line. With an onsite membrane nitrogen generator, you can achieve cost savings and other efficiencies that can lower your ongoing nitrogen costs by up to 90% depending on the application. Here's how membrane nitrogen generators work and how you can get a quality system installed for your application.

How Does a Membrane Nitrogen Generator Work?

Membrane nitrogen generators use a hollow porous fibre to separate the nitrogen molecules from the other gases in ambient air, like oxygen, carbon dioxide, water vapor, and argon. The molecules from the stream of compressed air flowing into the generator are separated using high pressure (selective permeation). Faster gases permeate the walls quickly and are released back into the atmosphere, while the nitrogen is focused for use.

Benefits of a Membrane Nitrogen Generator

There are many advantages for having an onsite membrane type nitrogen generator installed, the biggest benefit being that you can lower your ongoing nitrogen costs by up to 90% depending on the application. Following are benefits and features of membrane type nitrogen generators and how they can improve efficiency in a variety of applications.

An independent onsite supply of nitrogen, which means freedom from the industrial gas supplier and their long-term contracts and ever escalating nitrogen costs

Fast Return on Investment (ROI); typical ROI can be expected within six to 18 months

Fully automatic systems for on-demand operation; you only produce nitrogen as required

Extremely reliable

Easy, low cost maintenance

Minimal space requirements

Membrane type nitrogen generators can be housed in modified sea containers for system mobility or portability

Eliminate wasteful venting of nitrogen gas that's associated with bulk liquid nitrogen tanks

Produces nitrogen purities from 95% to 99.5%; match nitrogen purities to the actual nitrogen purity requirement of your application

Nitrogen flow capacities are available from 40 SCFH (1 m³/hr) to 200,000 SCFH+ (5,600 m³/hr+)

Nitrogen discharge pressures to 300 psig (20 barg) without booster compressors

High pressure systems to 20,000 psig (1,360 bar) available

Features include touchscreen controllers with the following capabilities:

oxygen analyzer

air in pressure

nitrogen discharge pressure

low nitrogen purity alarm

low nitrogen pressure alarm

maintenance advisory

optional purity control setting (up to three purities)

optional remote monitoring, controlling and communications capability

optional nitrogen flow monitoring

optional off spec. gas vent

Turnkey systems engineered, assembled, and installed to specification

Membrane Nitrogen Generator Applications

Some of the applications that are well-suited for onsite nitrogen generating systems include:

autoclaves

beverage manufacturing

chemical plants and refineries

coffee packaging

controlled atmosphere fruit storage

enhanced oil field recovery

food/map packaging

fuel and chemical tank inerting

gas assist injection molding

heat treating

laser cutting

leak cutting

pharmaceutical manufacturing

printing

power plants

reflow ovens

shipboard inerting

soldering

Membrane Nitrogen Generators by Advanced Gas Technologies

For an efficient and cost-effective way to supply your nitrogen requirements, look no further than Advanced Gas Technologies

Inc. You can save valuable time and money by having 24/7 nitrogen gas produced inhouse. Ready to install an onsite industrial gas generating system? We supply, install and maintain onsite nitrogen generating systems, standard industrial compressor systems and custom engineered systems throughout North America and the world. We help our clients lower their costs with big return on investments that come by generating nitrogen and oxygen on site.

Why Choose Nitrogen Generator Membrane Units:

It is the most cost-effective solution for low flow applications, up to 400 scfh at 99.9% purity or 2500 scfh at 95% purity. The membrane generator has a relatively small footprint which allows for easy installations and can be installed vertically or horizontally.

There are no moving parts and there is no electricity required so it is easy to use and maintain. This design still allows the generator to achieve output purity levels between 95% – 99.9%. Furthermore, it is fairly quiet; it operates at less than 70 dBA. To put that in perspective, normal conversation ranges between 60 – 70 dBA, a vacuum cleaner operates in the 75 dBA range and the noise inside a car travelling at 100 kph is 70 – 80 dBA.

Item	Nitrogen purity (Nm3/hr)					Dimensions	Weight
	90%	95%	99%	99.5%	99.9%	(L*W*H) mm	KG
OSM15	135	61	23	15	6.5	450*300*1300	100
OSM30	270	122	46	30	13	550*500*1300	140
OSM60	540	244	92	60	26	900*850*1300	200
OSM120	1080	488	184	120	52	1200*1000*1500	280
OSM180	1620	732	276	180	78	1500*1200*1500	400
OSM240	1890	854	322	240	104	1800*1200*1600	520
OSM300	2700	1220	460	300	130	2300*1350*1800	600
OSM450	4050	1830	690	450	195	3850*1500*2000	800
OSM525	4725	2135	805	525	227.5	4200*1550*2100	950
OSM600	5400	2440	920	600	260	5000*1800*2250	1050
OSM675	6075	2745	1035	675	292.5	5500*1800*2350	1250
OSM750	6750	3050	1150	750	325	5850*1850*2400	1500
OSM900	8100	3660	1380	900	390	6500*1950*2400	1700
OSM1050	9450	4270	1610	1050	455	7800*2100*2450	1950
OSM1500	13500	6100	2300	1500	650	10500*2300*2600	2100
OSM1800	16200	7320	2760	1800	780	13000*2350*2600	2600





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