



Portable Small Membrane Nitrogen Generator Technology 100 Nm³/Hr 95% 10 Bar

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: 150psi/10 Bar
- 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

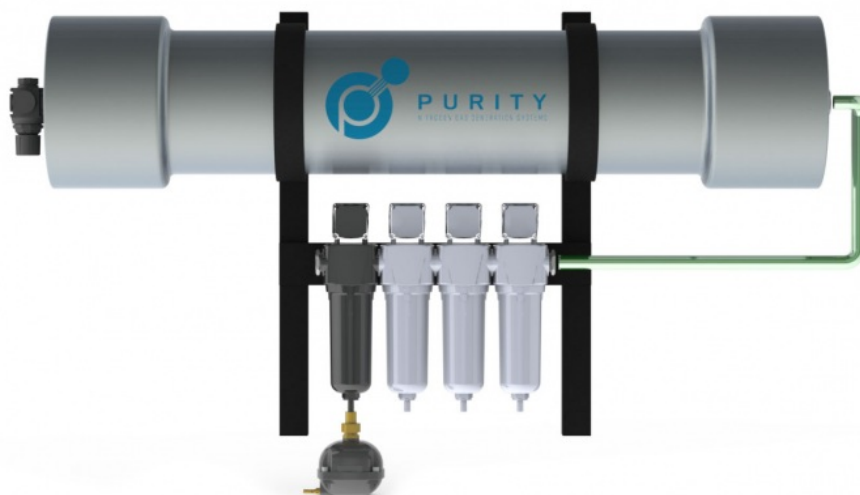
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Product Description

Portable small membrane nitrogen generator 100 Nm³/hr 95% pressure 10 bar plug and play models with ASME certificates

WHAT IS MEMBRANE GAS GENERATION?

Let's start from the basics. The air we breathe is made up of 78% nitrogen, 21% oxygen and the remainder are trace gases (argon, carbon dioxide and other gases). The membrane nitrogen gas generator uses a process called selective permeation to separate the nitrogen molecules from the oxygen and other trace gases. For the process to work, the air has to permeate through thousands of porous hollow fibres. Each molecule passing through the fibres has a specific permeation rate that results in either diffusing through or dissolving out of the fibre membrane.



WHY CHOOSE MEMBRANE?

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 (Nm ³ /hr)					Dimensions (L*W*H) mm	Weight KG
	90%	95%	99%	99.5%	99.9%		
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

Design reference :

Compressed air inlet pressure 9 bar(g)/130 psi(g)
 Air quality 1.4.1 according to ISO 8573-1:2010
 Nitrogen outlet pressure 7 bar(g)/101psi(g)
 Nitrogen quality 1.2.1 according to ISO 8573-1:2010.
 Designed working temperature max 50 °C
 Dew point at Nitrogen outlet - 50 °C

Notes:

Compressed air inlet pressure decide membrane performance
 Following request of membrane nitrogen generator will be customized :
 Compressed air pressure >14 bar(g)/203 psi(g) max up to 24 bar(g)/350 psi(g)
 Working pressure >24 bar(g)/350 psi(g)
 Dew point < - 50 °C
 Movable/containerized , plug and play
 Diesel drive
 Other special requirements as per site conditions

Advantages of membrane nitrogen plant :

Why Choose Nitrogen Generator Membrane Units:

Extensive experience producing PSA and membrane units
 All the facilities are ISO 9001 Certified
 Modular design for easy installation
 Systems designed for long-term reliability
 Smallest physical footprint available
 Strategic alliance with dryer and compressor suppliers
 Extensive global service network
 A top-rated membrane when comparing nitrogen/air ratio

Application :

Aircraft Fuel Tank Inserting
 Agriculture
 Liquid Sparging
 Autoclave
 Bacteria Elimination
 Blanketing
 Carbon Fiber Cutting
 Bio-fuels
 Fire Suppression



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