

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

## **Basic Information**

- Place of Origin:
- SUZHOU, CHINA

OSM

1 set

Negotiable

30-45 days

100 sets/months

GOST,NB,NR ETC

ISO9001, CE, BV, SGS, TUV, ASME,

Exporting wooden case /Film packing

L/C, T/T, Western Union, MoneyGram

- Brand Name: SUMAIRUI GAS
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:



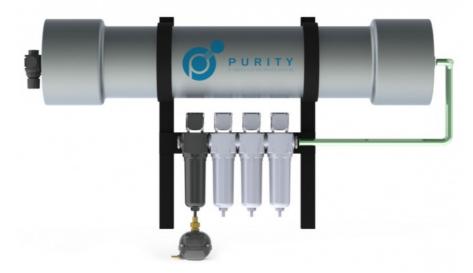
### **Product Specification**

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
<ul> <li>Movable:</li> </ul>	Yes
<ul> <li>Application:</li> </ul>	Purging
Condition:	New
<ul> <li>Warranty:</li> </ul>	1 Year
• Voltage:	220v/380v/50-60hz
Weight:	Actual Weight)
<ul> <li>Dimension(I*w*h):</li> </ul>	Actual Size
• Power(w):	0.5KW
Color:	White/customized

# 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	Nitroger	n purity (Nn	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*150 0	280
OSM180	1620	732	276	180	78	1500*1200*150 0	400
OSM240	1890	854	322	240	104	1800*1200*160 0	520
OSM300	2700	1220	460	300	130	2300*1350*180 0	600
OSM450	4050	1830	690	450	195	3850*1500*200 0	800
OSM525	4725	2135	805	525	227.5	4200*1550*210 0	950
OSM600	5400	2440	920	600	260	5000*1800*225 0	1050
OSM675	6075	2745	1035	675	292.5	5500*1800*235 0	1250
OSM750	6750	3050	1150	750	325	5850*1850*240 0	1500
OSM900	8100	3660	1380	900	390	6500*1950*240 0	1700
OSM1050	9450	4270	1610	1050	455	7800*2100*245 0	1950

C	OSM1500	13500	6100	2300	1500	650	10500*2300*26 00	2100
C	OSM1800	16200	7320	2760	1800	780	13000*2350*26 00	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  $< -50 \ ^{\circ}C$ 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

