Our Product Introduction

for more products please visit us on n2-nitrogengenerator.com

Membrane nitrogen generator technology with 1000CFM 500 PSI 95% purity one skid

Compact configuration. Robust capacity. nitrogen membrane plants are a powerhouse unit capable of producing nitrogen up to 70,000 scfh with a range of purities up to 99.5% and are suitable for applications across a wide range of nitrogen needs from inerting warehouses to beverage dispensing and tire filling applications.
Our advanced selective permeating technology housed in a fully skidded unit is engineered for fast installation, low maintenance and simple operation.

Nitrogen Permeation Process

In a membrane system, a compressed air stream flows through multiple membrane modules that contain thousands of hollow membrane fibers that each removes oxygen, water, and carbon dioxide, allowing nitrogen to pass through. Membrane systems typically produce 95-99.5% nitrogen purity.

Compact design for high capacity use

Floor-mounted configuration requires no special foundations and expansion capability allows the system to accommodate increased volume requirements

Easy operation and minimal maintenance
Few moving parts, removable panels, and advanced PLC control systems enables easy access and remote operation

Efficient, cost-effective nitrogen use
Automatic shutdown during periods of low demand reduces power consumption and operating costs

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

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 ℃
Dew point at Nitrogen outlet - 50 ℃

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 ℃
Movable/containerized , plug and play
Diesel drive
Other special requirements as per site conditions

Suzhou Sumairui Gas System Co.,Ltd.

+8613812659092 dylan@sumairui.com n2-nitrogengenerator.com

No 161,ZhongfengJie, Suzhou High technology district, Suzhou