

Separation Laser Nitrogen Generator Membrane Type Skid Beverage 300 Scfm

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

Beverage manufacturing membrane nitrogen generator for food industry with capacity 300 scfm 100 psi 99.99% automatic

The membrane nitrogen generators extract the available nitrogen from the compressed air. Membrane nitrogen generators use hollow fibre membrane technology to separate nitrogen from other components in compressed air. The membrane uses the principle of selective permeation to produce purity nitrogen. Each gas has a characteristic permeation rate, which is a function of its ability to diffuse through a membrane. Oxygen is a fast gas and is selectively diffused through the membrane wall, while nitrogen is allowed to travel along the inside of the fibre, thus creating a nitrogen-rich product stream. The oxygen-enriched gas, or permeate, is vented from the membrane separator at atmospheric pressure. Most of the slow gases and a very small amount of the fast gases continue to travel through the fibre until they reach the end of the membrane separator, where the product nitrogen gas is piped to the application.

Characteristics

Nitrogen pressure
5 - 24 bar
Operating temperature range (feed air)
35 to 55 °C
Dew point (at ambient pressure)
< -80 °C
N2 capacity
0,8 to 5000 Nm3/h
N2 purity
up to 99,9 %

STANDARD EQUIPMENT

- Set of external feed air filters
- Electric heater
- Supporting frame or cabinet
- Pressure regulator
- Internal piping
- Nitrogen and air flow regulation

OPTIONAL EQUIPMENT

- Nitrogen sterile filters
- Nitrogen booster
- Nitrogen cylinder filling system

Applications

- Blanketing of Chemicals and Pharmaceuticals
- Inerting of Flammable Liquids
- Laser Cutting
- Re-flow and Wave Soldering of PCBs
- UV-Curing of Coatings
- Food processing

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

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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