high purity nitrogen gas generator for laboratory

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: OSL-20
- 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

- Voltage: 220-575V 50-60Hz
- Production Rate: 30-100%
- Usage: Fiber Laser Cutting & Food Packaging
- Condition: Brand New
- Weight: Actual Weight
- After-sales Service Provided: Available Send Engineers Coming For Assistant Installation & Commission
- Dimension(l*w*h): Actual Size
- Power(w): 0.5 Kw
- Purity: 99%-99.999%
- Capacity: 1-5000 Nm3/hr
- Application: Laser Cutting
- Color: Customized
- Product Name: Sumairui Gas
- Type: PSA Modular

Our Product Introduction

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

Product Description

OSL25 modular nitrogen generator used for fiber laser and food cutting field with SGS certificates 40 cfm purity 99.99%

PSA technology utilizes two towers which are filled with carbon molecular sieve (CMS). Compressed air enters the bottom of the “online” tower and flows up through the CMS. Oxygen and other trace gases are preferentially adsorbed by the CMS, allowing nitrogen to pass through. After a pre-set time the on-line tower automatically switches to the regenerative mode, venting contaminants from the CMS. Carbon molecular sieve differs from ordinary activated carbons as it has a much narrower range of pore openings. This allows small molecules such as oxygen to penetrate the pores and separate from nitrogen molecules which are too large to enter the CMS. The larger molecules by-pass the CMS and emerge as nitrogen gas.
PSA nitrogen generators are typically used in applications where the purity requirement is higher than 99.5% (0.5% O2 or below).

PSA Nitrogen Generators are supplied to our customers as complete systems, ready for hookup to a compressed air supply, and include air filters and controls for automatic operation. Getting started with your PSA Nitrogen Generator is simple too – just start up the PSA nitrogen generators by a switch and you’re good to go. Maintenance is easy as well. You will only be required to change the filters on your PSA Nitrogen Generators every three to twelve months.

PSA nitrogen generators come pre-tested, fine tuned and inspected thoroughly to ensure that our generators are set up to meet the specific needs of our customers – as every application’s nitrogen flow rate and purity differ. One of the best things about PSA Nitrogen Generators are their ability to assist various businesses with on-site nitrogen production and the various applications PSA nitrogen generators are good for.
PSA Nitrogen Generators also assist businesses with eliminating risks that are typically associated with liquid nitrogen or highly pressurized nitrogen and the best part is – it’s extremely cost efficient.

Benefits compared to previous models
Higher quality materials
Lower energy consumption
Shorter lead time
Longer N2 generator lifetime
How did we do it
Simplification – 80% less parts used in our production process
Automation – state-of-the-art welding and bending robots
Modular isolation – two standard size PSA pressure vessels for all capacities
Service and maintenance
A smaller power consumption requires a smaller compressor. As a result, you will not only save on energy but also on running/service costs of the compressor. Furthermore, the stainless-steel valves have a longer lifetime than brass.

Main Parameters

Model	Nitrogen Output (m^3 / hr)								Air Inlet	N2 Outlet
	95%	99%	99.5%	99.9%	99.95%	99.99%	99.995%	99.999%		
OSL5	11.4	8.1	6.8	5.4	4.5	3.5	2.8	2.0	G1/2	G1/2
OSL8	22.8	16.2	13.5	10.8	8.9	6.9	5.7	4.3	G1/2	G1/2
OSL10	34.2	24.3	20.3	16.2	13.4	10.5	8.8	7.1	G1/2	G1/2
OSL15	45.6	32.4	27.0	21.6	17.7	13.8	11.7	9.6	G1/2	G1/2
OSL20	57.0	40.5	32.4	26.6	20.8	17.2	14.6	12.0	G3/4	G1/2
OSL25	68.4	48.6	40.5	32.4	26.6	20.8	17.6	14.4	G3/4	G3/4
OSL30	79.8	56.7	47.3	37.8	31.1	24.3	20.6	16.8	G3/4	G3/4
OSL35	91.3	64.8	54.0	43.2	35.6	27.9	23.6	19.2	G1	G3/4
OSL40	102.7	72.9	60.8	48.6	39.7	30.7	26.2	21.6	G1	G3/4
OSL45	114.1	81.0	67.5	54.0	44.3	34.5	29.3	24.0	G1	G3/4

Reference working conditions: ambient temperature 25℃, working pressure 0.7MPa.
Parameters are subject to change due to technical improvement without prior notice

Suzhou Sumairui Gas System Co.,Ltd.

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

No 161,ZhongfengJie, Suzhou High technology district, Suzhou