



Psa Nitrogen Gas Generator System For Laboratory Pharmaceutical 100PSI

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: OSP600-49
- 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, ASME, BV, SGS, TUV, GOST, NB, NR, ISO9001
- Dew Point: -70°C
- Capacity: 100-1000Nm3/hr
- Purity: 99.99%-99.9999%
- Control Mode: PLC-Siemens S7-1200
- Pressure: 5-6 Bar
- Plug And Play: Yes
- Working Mode: Fully Automatic, 24 Hrs Non-stop
- Bottling System: Option
- Maintenance Nozzle: Included
- Package: Film/Wooden Case
- Nitrogen Booster: Option
- Air Compressor: Option

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Product Description

500CFH 99.99-99.999% with 100PSI nitrogen generator used for Pharmaceutical industry with ASME & ISO certificates

Our simple turnkey Pressure Swing Adsorption (PSA) type Nitrogen Generator provides a cost-effective means for on-site N2 gas generation. It is based on using the latest PSA technology and utilizes Carbon Molecular Sieve (CMS) to separate nitrogen from the other gases contained in air.

The Nitrogen Generator uses two beds of CMS to separate compressed air into a high-pressure nitrogen product stream and low-pressure oxygen enriched waste stream. Typical feed air pressure is 110 psig/7.6 barg. Typical nitrogen product purity for our systems is 99%. Product flow rate for the same system will be higher with better nitrogen recovery if a higher oxygen content can be accepted in the nitrogen product. Systems are available with a product purity up to 99.999% nitrogen (10 ppmv oxygen).

Generators are supplied as complete systems, ready for hookup to a compressed air supply, including air filters and controls for automatic operation. Start up is at the flip of a switch and maintenance is limited to changing filters every three to twelve months. Each Nitrogen Generator comes pre-tested and fine tuned to meet the customer specified nitrogen flow rate and purity.

Our nitrogen generators have proven to be very popular and reliable for many applications. Having your own nitrogen generator is a hassle free, safer alternative to high-pressure nitrogen bottles or liquid nitrogen, and you will always have nitrogen available at a reduced cost.

Nitrogen production that is carried out using pressure swing adsorption (PSA) technology over a carbon molecular sieve (CMS) is considered to be a mature, cost-effective and highly efficient method to produce nitrogen to meet a wide range of purity and flow requirements. Ongoing increases in efficiency in PSA-based nitrogen-generation facilities are being driven by enhanced CMS materials (Figure 1) and process improvements. This article provides an overview of the fundamentals of PSA-based nitrogen generation, while focusing specifically on innovative practices and improved CMS materials. Together, these advances contribute to continuous improvement in PSA system performance, giving chemical process industries (CPI) plant operators a proven way to produce a reliable and low-cost supply of high-purity dry nitrogen onsite.

Item	Nitrogen purity (Nm3/hr)							Dimensions	Weight
	95%	99%	99.5%	99.9%	99.99%	99.995%	99.999%	(L*W*H) mm	KG
OSP5	21	13	11	8	5	4.2	3	1100*600*1700	300
OSP10	38	29	25	15	10	7.5	6.1	1200*650*1800	350
OSP20	80	56	52	32	20	16	14	1600*1000*2200	450
OSP40	160	116	105.2	67.2	40	34	28	1800*1000*2200	600
OSP60	252	174	157.8	100.8	60	51	45	1900*1200*2200	750
OSP80	339.2	232	211	132	80	70	62	2000*1200*2400	980
OSP100	420	290	263	168	100	90	78	2100*1600*2500	1300
OSP150	630	435	394.5	252	150	135	120	2500*1800*2600	1600
OSP200	848	580	526	336	200	180	160	2800*1900*2850	2200
OSP250	1060	725	657.5	420	250	225	200	3100*2000*3200	2600
OSP300	1270	870	780	500	300	260	240	3900*2600*3400	3850
OSP400	1696	1160	1052	672	400	360	320	4500*3250*3600	5000
OSP500	2120	1450	1300	840	500	450	400	4900*3600*3800	6500
OSP600	2540	1740	1578	1000	600	540	480	5300*3600*3900	7800
OSP800	3390	2320	2100	1340	800	720	640	5600*3900*4100	10200
OSP1000	4240	2900	2630	1680	1000	900	800	5800*4000*4500	11800

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.



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