

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

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

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 (Nm ³ /hr) | | | | | | | Dimensions | Weight |
|---------|---------------------------------------|------|-------|-------|--------|---------|---------|----------------|--------|
| | 95% | 99% | 99.5% | 99.9% | 99.99% | 99.995% | 99.999% | (L*W*H) mm | |
| 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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