

## Industrial Oxygen Machine Plug And Play 100 Psi Capacity 600l/Min

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: OSO
- 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
- Purity: 93%-95%
- Pressure: 3-5 Bar
- Capacity: 10-1000Nm3/hr
- Type: Plug And Play
- Twin Adsorbers: Yes
- Customized: Available
- PLC: S7-1200
- HMI: 7inches
- Voltage: 220-575V 50Hz/60Hz
- Highlight: industrial oxygen machine plug and play ,  
industrial oxygen machine 600l/min,  
nitrogen generator industrial

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## Product Description

**On-site Industrial oxygen generator plug and play with 100 psi capacity 600 l/min fully automatic with CE certificates**

### Product Description

#### PSA oxygen generator principle description

1. Pressure Swing Adsorption Oxygen Generation System Pressure Swing Adsorption (PSA) is an advanced gas separation technology, which has an irreplaceable position in the field of gas supply in today's world.
2. PSA technology has the following advantages:
  - \* The purity of the product can be adjusted to a certain extent with the change of flow;
  - \* Work under medium and low pressure, safe and energy-saving;
  - \* Simple equipment and easy maintenance
  - \* Touch screen control, fully automatic unmanned operation.
3. The principle of pressure swing adsorption  
In the case of adsorption equilibrium, when any kind of adsorbent adsorbs the same gas, the higher the gas pressure, the greater the adsorption capacity of the adsorbent. Conversely, the lower the pressure, the smaller the adsorption capacity.

#### Introduction to the characteristics and functions of Oxygen generator

1. The adsorption tower adopts advanced combined coconut pad compaction technology. It enters the working state when the oxygen generator starts to work. In the working state, the molecular sieve is always pressed tightly, and the molecular sieve will not be crushed at the same time, which avoids the high-speed airflow. The phenomenon of molecular sieve powdering caused by impact. Compared with spring compression, cylinder compression, and airbag compression devices, this compression device is more reliable and more convenient for maintenance.
2. The advanced lotus-shaped component design fully considers and avoids the high-speed impact of the gas on the molecular sieve during the adsorption process, avoids the pulverization of the molecular sieve caused by the high-speed impact of the gas flow, and avoids the powdered powder from entering the pipeline and valve. Valve leakage, jamming, etc.
3. The professional blizzard combined filling technology makes the molecular sieve packed more uniformly and densely, ensuring that the molecular sieve does not produce a fluidized state during the adsorption process, and there is no need to regularly supplement the expensive molecular sieve.
4. The original molecular sieve composite bed structure ensures that the water content of the air entering the molecular sieve is low, so that the molecular sieve will not absorb excessive moisture and affect the decrease of mechanical strength, which is beneficial to the long-term service life of the molecular sieve.
5. Sumairui Gas adopts German imported valves, the response speed is 0.02 seconds, and the normal state continuous switching reaches more than 2 million times. It has the characteristics of simple structure, reliable sealing, and fast closing speed. It is the fundamental guarantee for oxygen purity and reliable equipment operation.
6. The intelligent controller of the international famous Siemens PLC programmable controller and the two-position three-way solenoid valve imported from Germany are selected to ensure the continuous and reliable operation of the nitrogen generator.
7. The use of stable and excellent air source purification refrigeration dryers and other supporting equipment, including the refrigeration dryer, the filter automatically drains, and the filter housing has a pressure difference meter to observe the working conditions of the filter at any time to ensure air quality and provide a good air source ;
8. The system equipment is equipped with pressure gauges, safety valves, matching flanges and other pipeline accessories. The complete set of equipment is assembled with a bottom frame. The internal pipeline valves have been connected. The site positioning and installation are extremely convenient, and only external pipelines need to be connected.
9. Detailed equipment operation, maintenance, and training plans are considered for users to ensure the correct operation and maintenance of management operators.

Model	Capacity (Nm <sup>3</sup> /hr)	Purity	Outlet pressure (Mpa)	Inlet (mm)	Outlet (mm)	Dimensions L*W*H (mm)	Weight (KG)
OSO5	5			DN20	DN10	1350*1200*1800	800
OSO10	10			DN25	DN15	1800*1250*2200	1200
OSO15	15			DN25	DN15	2100*1450*2200	1500
OSO20	20			DN40	DN25	2300*1550*2450	1800
OSO30	30			DN40	DN25	2450*1650*2550	1950
OSO35	35			DN50	DN25	2650*1900*2550	2150
OSO40	40			DN50	DN25	2800*2200*2600	2200

OSO50	50	93±3%	0.2-0.4 Mpa	DN50	DN25	3100*2450*2700	2350
OSO60	60			DN65	DN40	3300*2600*2900	2550
OSO80	80			DN80	DN50	3500*2950*3100	3300
OSO100	100			DN80	DN50	3850*3100*3300	4000
OSO150	150			DN100	DN65	4100*3300*3450	5100
OSO200	200			DN125	DN80	4600*3550*3500	6200
OSO250	250			DN125	DN80	5500*3900*3900	8500
OSO300	300			DN150	DN100	5800*4200*3980	10500



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