

## Medical Molecular Sieve Oxygen Generator Equipment 500L/Min Clean Filters Clinical

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-M
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 4-5 weeks
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



### Product Specification

- Material: Stainless Steel
- Purity: 93%-99.5%
- Flow: 500-1000 SCFM
- Pressure: 5-200 Bar
- Control Type: PLC Controls
- Oxygen Analyzer: Included
- HMI: Included
- Flow Meter: Included
- Manometer: Included
- Towers: Twin
- Color: White
- Container Mode: Customized
- Plug And Play: Option
- Highlight: **medical molecular sieve oxygen generator, oxygen generator equipment,**

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## Product Description

Modular 500L/min 7 bar oxygen generator with clean filters supplied to hospital hyperbaric oxygenation & clinical using

### PSA TECHNOLOGY

#### PRESSURE SWING ADSORPTION

Pressure Swing Adsorption can be used to produce Oxygen from compressed air, which is fed to the unit that uses adsorption phenomena to remove the contaminants: H<sub>2</sub>O and CO<sub>2</sub> are removed as other minor contaminants.

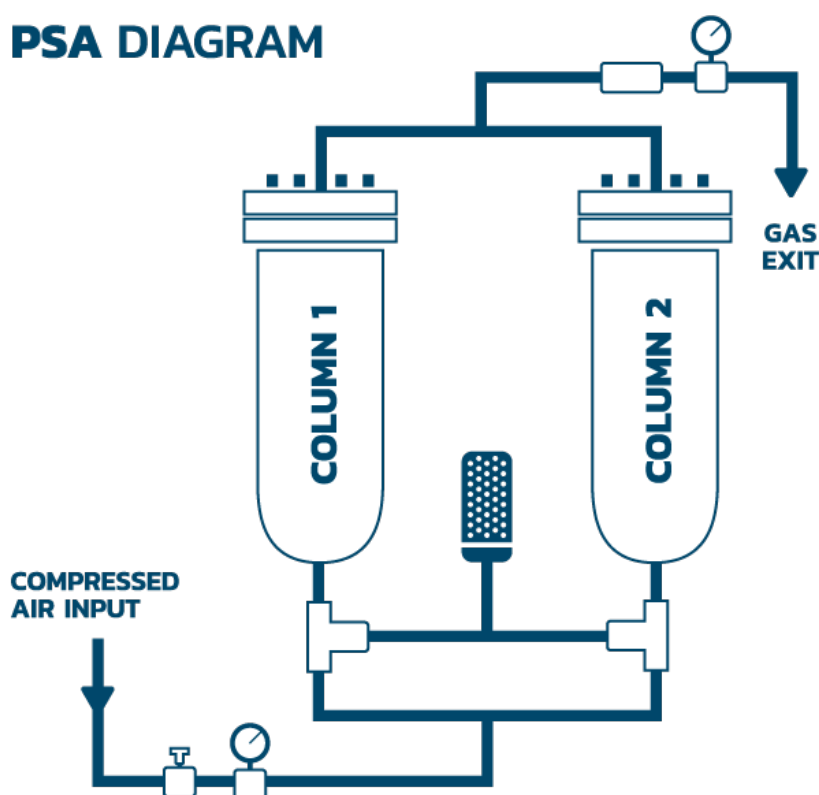
The PSA unit contains two columns packed with a selective adsorbent that has affinity towards the component to be removed: zeolite is used to produce O<sub>2</sub>.

Each column undergoes a cyclic sequence of high and low pressure steps that guarantees the production of a continuous flow of high purity gas.

In the high pressure step, the adsorbent retains the contaminants present in the compressed air and the desired gas (O<sub>2</sub>) is obtained from the top of the columns.

The regeneration is accomplished in the low pressure step, with the release of contaminants retained by the adsorbent.

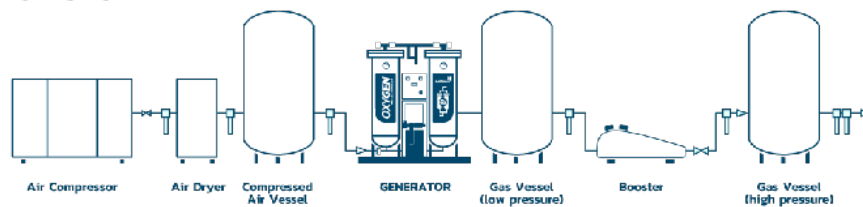
## PSA DIAGRAM



### PSA ADVANTAGES

- Economy – 90% reduction in the cost of Nitrogen
- Convenience – elimination of logistical and administrative operations
- Continuous availability – elimination of orders and deliveries
- Modularity / Scalability – your installation grows with you
- Robustness, reliability and durability
- Reduced maintenance
- Security
- Ready-to-use engineering solutions

## PSA SYSTEM



LOW PRESSURE  
INSTALLATION DIAGRAM

HIGH PRESSURE  
INSTALLATION DIAGRAM

| NO | Model     | Capacity<br>(L/min) | Purity | Outlet pressure<br>(Mpa) | Outlet<br>(mm) | Dimensions<br>(L*W*H mm) | Weight<br>(KG) |
|----|-----------|---------------------|--------|--------------------------|----------------|--------------------------|----------------|
| 1  | OSO-M50   | 50                  | 93±3%  | 0.2-0.4 Mpa              | DN10           | 1250*1000*1900           | 300            |
| 2  | OSO-M100  | 100                 |        |                          | DN10           | 1400*1250*1950           | 400            |
| 3  | OSO-M200  | 200                 |        |                          | DN15           | 1800*1600*2300           | 600            |
| 4  | OSO-M400  | 400                 |        |                          | DN25           | 2100*2000*2400           | 800            |
| 5  | OSO-M500  | 500                 |        |                          | DN25           | 2200*2100*2450           | 1000           |
| 6  | OSO-M600  | 600                 |        |                          | DN25           | 2300*2200*2600           | 1200           |
| 7  | OSO-M800  | 800                 |        |                          | DN25           | 2450*2200*2650           | 1400           |
| 8  | OSO-M1000 | 1000                |        |                          | DN45           | 2500*2250*2750           | 1800           |

### Design reference:

- Compressed air inlet pressure 7.5 bar(g)/108 psi(g)
- Air quality 1.4.1 according to ISO 8573-1:2010
- Oxygen outlet pressure 2-4 bar(g)/58psi(g)
- Oxygen quality 1.2.1 according to ISO 8573-1:2010
- Twin towers with instruments
- Designed working temperature max 50 °C
- Dew point at Oxygen outlet - 50 °C

### Notes:

Following request of oxygen generator will be customized :

- ※ Oxygen outlet pressure >4 bar(g)/58 psi(g)
- ※ Filling cylinders 150 bar(g)/200 bar(g)/300 bar(g)
- ※ Dew point < - 50 °C
- ※ Movable/containerized , plug and play
- ※ Other special requirements as per site conditions



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