

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: H₂O and CO₂ are removed as other minor contaminants.

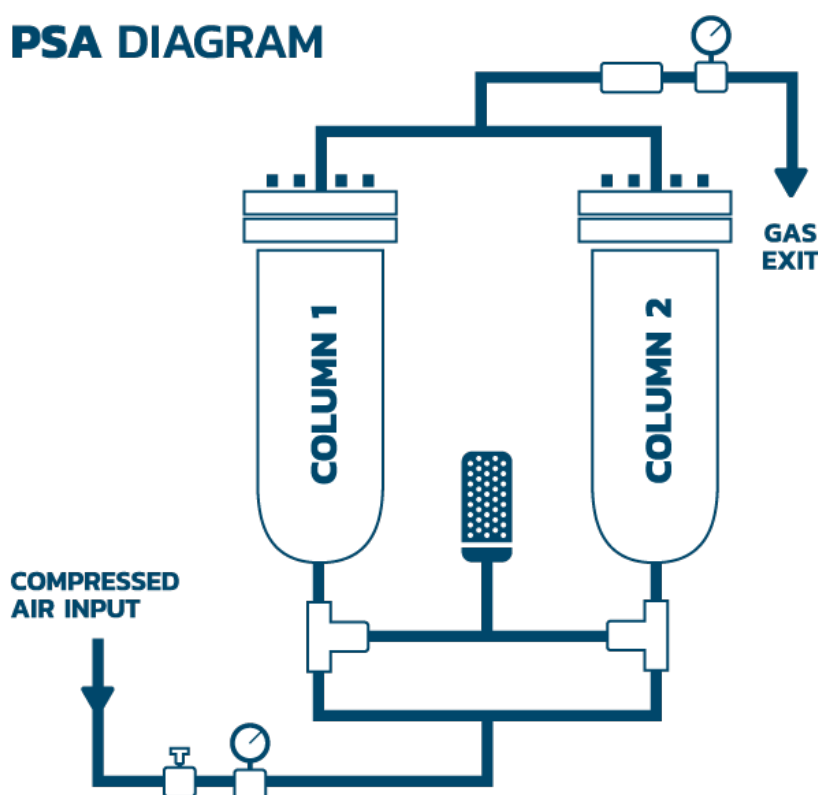
The PSA unit contains two columns packed with a selective adsorbent that has affinity towards the component to be removed: zeolite is used to produce O₂.

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 (O₂) 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.

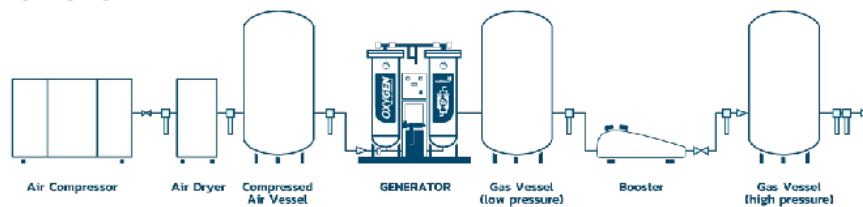
PSA DIAGRAM



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 (L/min)	Purity	Outlet pressure (Mpa)	Outlet (mm)	Dimensions (L*W*H mm)	Weight (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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