Fish Farm Industrial Oxygen Generator For Sale Plant Skid 5000 PSI Cylinders

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: 4-5 weeks
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months

Product Specification

- Purity: 93-95%
- Pressure: 5000 PSIG
- Flow: 5-1000 Nm3/hr
- Material: Carbon Steel / Stainless Steel
- Application: Coal, Chemical,fish Farming,diffusion Type Of Oxygen Supply
- Oil: N/A
- Pipeline: Seamless Steel
- Color: Customized
- Valves: Burkert
- Control: PLC S7-1200
- Display: HMI
- Flow Meter: Included
- Manometer: Included
- Alarming System: Included

Product Description

ISO 9001 Industrial oxygen manufacturing plant monoblock skid up to 5000 PSI(G) cylinders system supply

PSA Oxygen Principles

The principles of Pressure Swing Adsorption (PSA) oxygen generator are adsorption and desorption.
Each gas has a characteristic adsorption rate that when adsorbed by Zeolite Molecular Sieve (ZMS). ZMS has large surface area containing a mass volume of micro pores and passageways. Nitrogen has a higher adsorption rate than oxygen when delivered to the ZMS bed after pressurized. When compressed air enters ZMS, oxygen molecules are able to pass through this large surface, and nitrogen molecules are adsorbed to the surface area.

Adsorption and desorption/diffusion are the general principles of the PSA system since each gas has a characteristic adsorption rate that is a function of its ability to be adsorbed by a molecular sieve. The adsorption process can produce a range of gas with purities more than 90% oxygen.

As the ZMS is saturated with nitrogen, it should be depressurized to regenerate for next cycle. In CANGAS PSA N2/O2 generators, we use two adsorption vessels filled with ZMS to produce a continuous stream of oxygen.
During depressurization, the oxygen of lower purity than required is transferred to another vessel first, which is called pressure equalization. Pressure equalization donates to higher efficiency and less energy consumption. Then the adsorption and desorption/regeneration processes switch in the two adsorption towers.

Main features

a. All the key components adopt international celebrated branded products, such as the pneumatic and electromagnetic valves produced by GEMU and BURKET of Germany, and the PLC produced by Siemens.

b. The molecule sieve has a long service life, which effectively guarantees the oxygen purity.

c. The advanced “storm” type molecule sieve loading method provided by German Carbo Tech has greatly increased the loading density of the molecule sieve; meanwhile, the advanced combined molecule sieve pinch device may effectively prevent the pulverization of the molecule sieve caused by collision between its gaps, so the service life may be prolonged.

d. The adsorption tower adopts an advanced inner structure in design, including a lotus air flow distributor installed at the bottom of the tower, which effectively prevents the high pressure air flow crash to the molecule sieve, and also extends the service life of the molecule sieve; meanwhile, it may make the gas evenly diffuses, which greatly improves the service efficiency of the molecule sieve and reduces the energy consumption.

e. The oxygen generator adopts an optimized technological design, which makes the oxygen purity, flow rate, and pressure more stable.

f. The oxygen generator has a visual procedure display function, indicating the state of the switch valve.

Model	Capacity (Nm3/hr)	Purity	Outlet pressure (Mpa)	Inlet (mm)	Outlet (mm)	Dimensions L*W*H (mm)	Weight (KG)
OSO5	5	93±3%	0.2-0.4 Mpa	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			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

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.
Designed working temperature max 50 ℃
Dew point at Oxygen outlet - 50 ℃

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 ℃
Movable/containerized , plug and play
Other special requirements as per site conditions

Suzhou Sumairui Gas System Co.,Ltd.

+8613812659092 dylan@sumairui.com n2-nitrogengenerator.com

No 161,ZhongfengJie, Suzhou High technology district, Suzhou