

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

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

Carbon Steel / Stainless Steel . Material:

· Application: Coal, Chemical, fish Farming, diffusion Type

Of Oxygen Supply

• Oil: N/A

· Pipeline: Seamless Steel Customized · Color: Burkert Valves: PLC S7-1200 · Control:

HMI · Display: Flow Meter: Included . Manometer: Included · Alarming System: Included

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			DN20	DN10	1350*1200*18 00	
OSO10	10			DN25	DN15	1800*1250*22 00	1200
OSO15	15	93±3%	0.2-0.4 Mpa	DN25	DN15	2100*1450*22 00	1500
OSO20	20			DN40	DN25	2300*1550*24 50	1800
OSO30	30			DN40	DN25	2450*1650*25 50	11950
OSO35	35			DN50	DN25	2650*1900*25 50	1
OSO40	40			DN50	DN25	2800*2200*26 00	1
OSO50	50			DN50	DN25	3100*2450*27 00	1
OSO60	60			DN65	DN40	3300*2600*29 00	1
OSO80	80			DN80	DN50	3500*2950*31 00	1
OSO100	100			DN80	DN50	3850*3100*33 00	4000
OSO150	150			DN100	DN65	4100*3300*34 50	5100
OSO200	200			DN125	DN80	4600*3550*35 00	1
OSO250	250			DN125	DN80	5500*3900*39 00	1
OSO300	300			DN150	DN100	5800*4200*39 80	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 °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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