Stages of Oxygen Generation

- Production of compressed air using compressor
- Air humidity, aerosol, and dust filtration
- Gas adsorption
- Gas purge
- Elimination of bacteria and contaminant particulars
- Product storage

Advantages of Containerized Oxygen Generator using PSA

- Cost effective and high efficient operation
- Easy operation of the system
- High safety and reliability
- Precise purity
- Easy to transport the generator to planned location





Containerized Oxygen Generator

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Introduction

Containerized oxygen generator utilizes one of the latest technologies worldwide to produce oxygen for industrial and medical purposes. The method used to generate oxygen is the separation of one specific gas from the mixture of several gases; the pressurized split based on molecular characteristics and different adsorptivity onto adsorbent arises with the technology of Pressure Swing Adsorption (PSA).

PSA-based oxygen generator packages are being operated for generating a high purity product using compressed air. In this technology, air molecules are separated by porous adsorbents. After adsorbent saturation, the regeneration process occurs through depressurization.



Bill of Materials datasheet (600 NL/min) Datasheet of the Generator Capacity 400 NL/Min 600 NL/Min Oxygen Purity 93% ± 3% 93% ± 3% Filtration Water Trap/ Filters / Dryer / Antibacterial Water Trap/ Filters / Dryer / Antibacterial Generation Method Pressure Swing Adsorption(PSA) Pressure Swing Adsorption(PSA) har Compressor Capacity 7.8 m³/min 11.2 m³/min 210 Adsorbent Zeolite 500X Zeolite 500X 160 Electrical Data 3Phase Electricity - 55kw - 125A 3Phase Electricity - 75kw - 125A 60 60 Package Weight ~11,000 kg ~14,000 kg 60 730 VSF) 92 ΡI / VTFT37 Dimension)7CV 500 1/2" of the Generator (Container 20ft) -MT-G181-P3 07 & 20008 2000 Lit LxHxW 20 _{ft} x 9.50 _{ft} x 7.8 _{ft} 2000 Lit 6.1_m x 2.9 _m x 2.4 _m LxHxW)8 Nm3/hr)8 Nm3/hr

Technical

Equipment	Da
Container	20 ft
Electro Motor	75 K\
Electro Motor	2.2KV
Compressor	11.2 b
Air End	EVO-1
Dryer	ACT 2
Pre Filter	FTM 1
Micro Filter	FTX 1
Carbon Filter	FTZ 1
Water Trap	FTC 1
Antibacterial Filter	SPF 070 (07
O2 Analyzer	EX-09
Instruments	PT &
Compressor Electrical Board	Q1
Compressor Valve	RH100 / G50
HMI	DOP-10
Zeolite	JLOX 5
Safety Valve	1"&1
Solenoid Valve	VUVG-L14-T32C-
Pneumatic valve (On Off)	20006 & 2000
Air Receiver	Capacity 2
O2 Receiver	Capacity 2
Generator Left Tower	Flow rate 708
Generator Right Tower	Flow rate 708