

Air is 78% nitrogen and 21% oxygen. Separating the air we breathe for a fraction of the cost.

O₂N₂ Site: Pure Convenience®























Labatt





























CONSOL ENERGY























































from Afghanistan to Yemen

How does a small company in Michigan have a global reach?

In a word, reputation.







UL/IEC 60601-1



Our Portable Oxygen Generating System (POGS) has FDA clearance to: "generate and deliver USP 93% supplemental oxygen and medical grade air in disaster relief and emergency preparedness situations or military settings where bottled oxygen is not readily available."



3 Divisions



Field Service: Oil, Gas & Mines

- PSA and Membrane N2 Generators
- Flow rates up to 90,000 scfh



Commercial

- PSA O2 Generators, 95% and 99%
- PSA and membrane N2 Generators
 95%-99.9995%



Portable Oxygen

 POGS Military, Disaster Relief and Emergency Preparedness













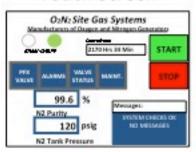




Features and Benefits:

- Convenient
- Touch Screen Control
- Safe
- Fast Payback
- Low Operating Cost
- Reliable
- Lease/Rental Options

Touch Screen





•PSA and Membrane Technology

Oxygen

- •Purity levels 95% to 99%
- PSA Technology



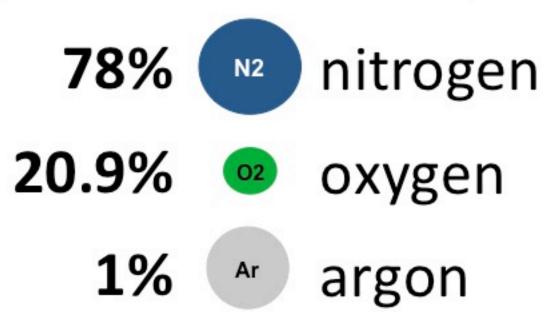


Why generate your own gas?

- Simplicity: No expensive, long term contracts. You can buy, rent or lease. And with proper care, it will last for decades.
- •Cost-effectiveness: The average cost per CCF of self-generated gas is 1/3 to 1/2 the cost of cryo.
- •Versatility: Many On Site systems are portable and function anywhere there is electrical power and air— even in the world's harshest climates and conditions.
- •Reliability: Because On Site systems generate gas from air, you'll never run out of gas.



How it Works: Proportions of Gases in Atmosphere



Balance: CO 2-300 PPM, trace quantities of rare gases



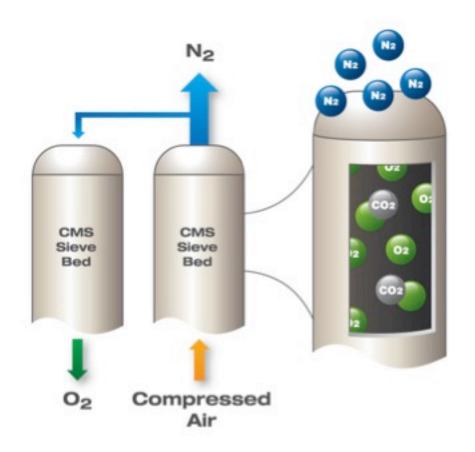


Commercial Nitrogen

At a fraction of the cost of cylinders, dewars or bulk



HOW DOES A N₂ PSA WORK?





Nitrogen Product Line



N2 PSA



N2 Tire fill



N2 Cylinder Fill



N2 Membrane



N2 Membrane Trailer Systems



N2 PSA Underground System



N2 Membrane Portable Systems







Packaging Applications













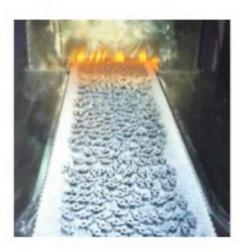




Industrial Applications





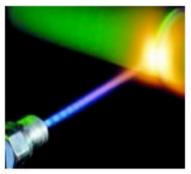














Compound System O₂N₂ 330



Turn-key, dual-purity nitrogen solution for laser cutting assist gas and beam purge

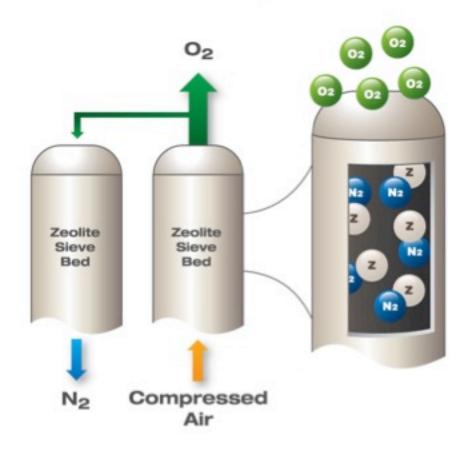


High Purity OxygenCommercialPOGS line (portable)

Eliminating logistical difficulties and providing limitless quantities in remote locations



HOW DOES AN O₂ PSA WORK?





Oxygen Product Line



O2 USP - 93%



O2 – 90 / 93 / 95% (cabinet)



02 - 90 / 93 / 95%



02 - 99%



POGS Family (Portable)



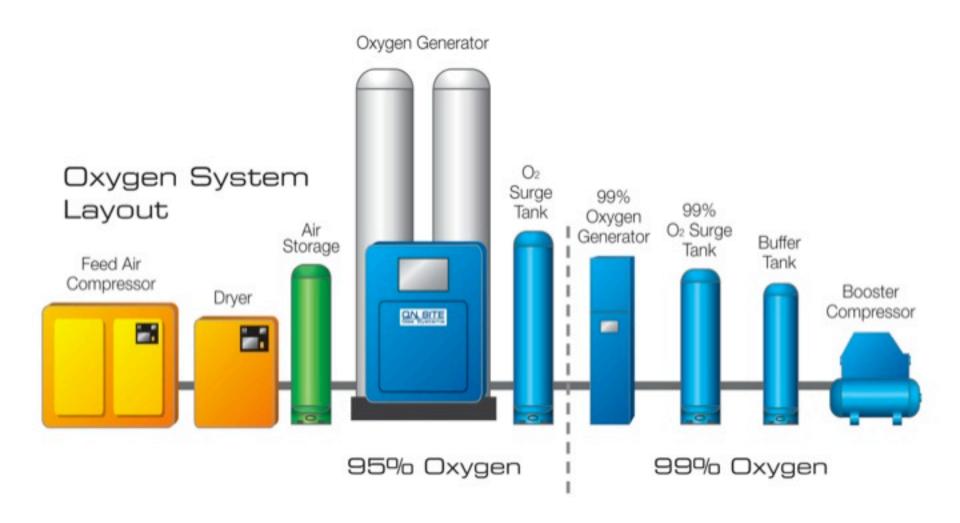
O2 System Accessories



O2 Filling Station

Neptech, Inc. / Flexotherm







Oxygen Applications





















Commercial oxygen system at work: Rugged, with a Sensitive Side

This indigenous boy sits next to an On Site Gas Systems oxygen generator at a remote, village hospital in the Venezuelan Amazon.

This medical oxygen generator has been in regular operation there since 1996, performing—as equipment in an isolated area must do—with a minimum of maintenance and repair.

In an area where few things are certain, the medical staff

– and the people they treat– have relied daily on its
trusted supply of medical oxygen.



POGS 65/130, 33, 10

- •USP 93% O2
- Man-portable
- •High Pressure Cylinder Filling





POGS 10





- •10 LPM of USP 93% O2
- •10 LPM of Medical Air
- Man-portable

- High Pressure Cylinder Filling
- Integral compressor
- ·Suited for "leapfrogging"





- •30 LPM of Medical Air
- Man-portable
- •33 LPM of USP 93% O2 •High Pressure Cylinder Filling
 - Feed directly to patients or into distribution system
- First deployed in 2001 to Egypt for USMC Operation "Brightstar"





- •65/130 LPM of USP 93% O2
- Man-portable
- Autonomous load sharing
- High Pressure Cylinder Filling

- Back Up (approx. 2 hrs. reserve min.)
- Scheduled maintenance alerts
- Automated troubleshooting
- On-screen maint/ TS instructions



POGS 130

- •130 LPM of USP 93% O2
- High Pressure Cylinder Filling
- Scheduled maintenance alerts
- Automated troubleshooting
- On-screen maint/ TS instructions

Unitized System

- Nominal setup time
- Integral Back Up (approx. 2 hrs. reserve min.)
- Integral distribution system





Over 1000 POGS Built & Deployed

- US Army
- USMC
- US Navy
- US Air Force
- US Special Operations
- Canadian Army
- Canadian Special Operations
- Public Works and Government Services Canada
- Jordanian Army
- FEMA
- State and local emergency responders



POGS at work









Neptech, Inc. / Flexotherm



Neptech, Inc. / Flexotherm



Disaster Relief: Hurricane Katrina

Within 36 hours of notification we deployed to New Orleans with a three-member On Site Gas Response Team and eight POGS Systems



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Post-Katrina Cylinder Filling Station

- Over 2000 Cylinders filled
- Ran 24/7 for 2 weeks









Post-Katrina Deployments

- Maravich Athletic Center, LSU, Baton Rouge (right, bottom left)
- Louis Armstrong Airport Terminal D, Triage Center (bottom right)
- Nichols University Medical Treatment Center, Tippedeaux, LA









Disaster Relief: Haiti

"Just wanted to say thanks and that many lives were saved because of the ability to make O2. It was a tough commodity to get in Haiti."



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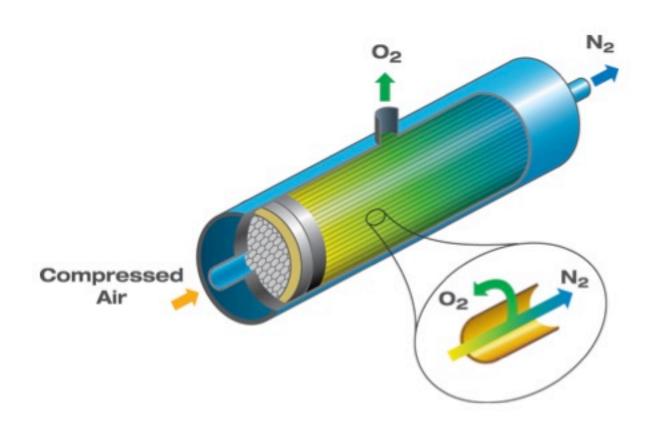
Field Services

Oil, Gas & Mining

On Site, On Demand, Mega Volume



HOW DOES A N₂ MEMBRANE WORK?





Mining

Applications

- Sealed Area Inerting
- Fire Suppression
- Fire Prevention



Underground PSA System sponsored by and tested at NIOSH



Stationary Systems

Features and Benefits

- Rapid Response
- Factory Field Support
- Expandable
- Portable Systems
- Stationary Sytems
- PSA and Membrane Technology
- ·Lease, Rent or Purchase



Trailer Systems



Portable Systems



Oil & Gas

Applications

- Enhanced Oil Recovery
- Underbalance Drilling
- Gas Lift
- Coil Tubing
- Well Workovers
- ·Pipeline Pigging
- Natural Gas Dilution
- Offshore Platforms
- Refineries
- Product Movement

Features and Benefits

- Rapid Response
- Factory Field Support
- Expandable
- Portable, Stationary & Trailer
 Mounted Systems
- PSA and Membrane Technology
- ·Lease, Rent or Purchase

















FIRE RETARDANT FOAM
Mining application



Oil, Gas & Mining Applications















Neptech, Inc. / Flexotherm



Mining Fire Responses

Buchanan Mine, Virginia Pikesville Mine, Kentucky West Elk Mine, Colorado

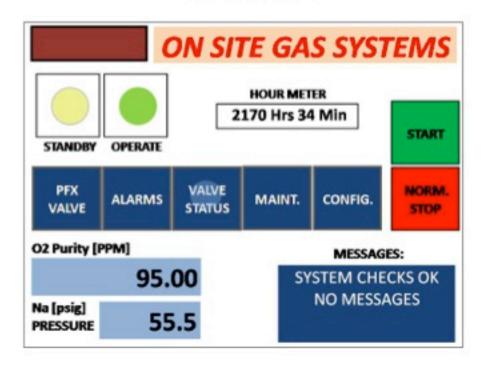
Systems were at each site and operating within 24 hours of receiving the call to deploy.



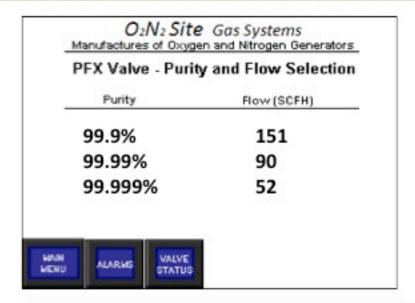


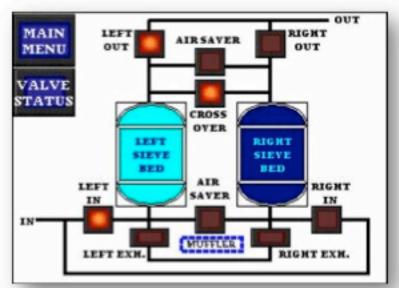


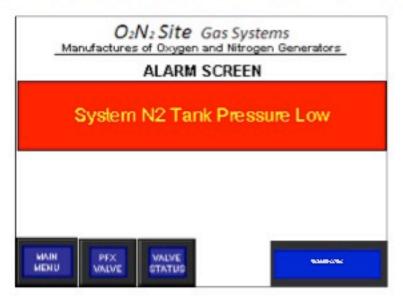
Touch Screen





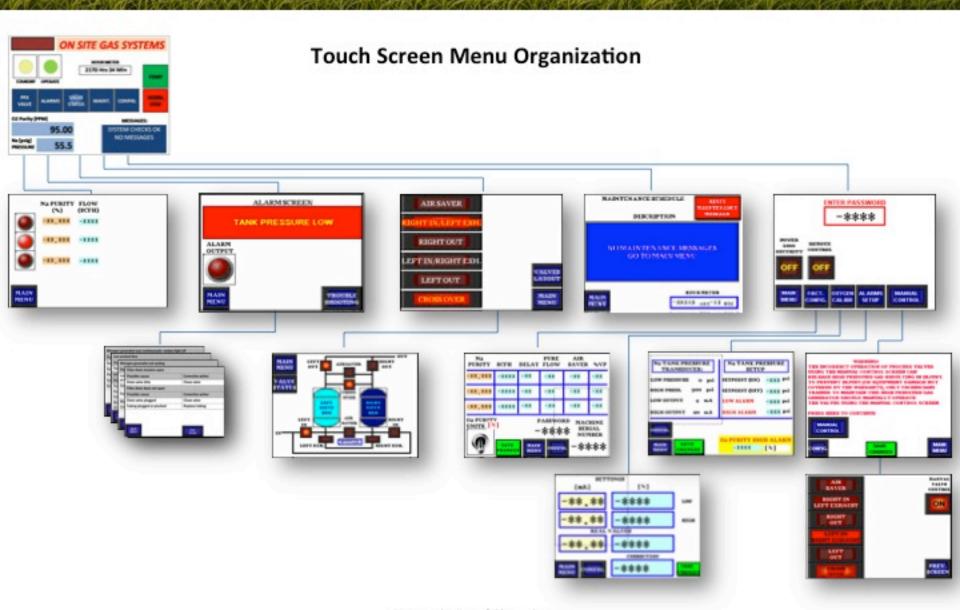
















Main Menu Screen

- *Indicates operating status
- *Indicates purity and tank pressure
- *Displays alarm and maintenance messages
- *Provides start and stop button



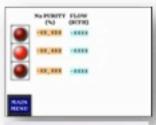
Maintenance Screen

- *Indicates total operating hours
- *Displays maintenance requirements
- *Allows reset of maintenance timers



Process Setpoint Screen

 Allows authorized personnel to set alarm parameters



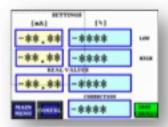
Purity and Flow Selection Screen

- *Displays purity and flow design specification
- *Enables selection of purity and flow performance



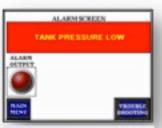
Configuration Screen

- *Allows access to settings
- *Sets up remote start/stop switch
- *Sets up automatic restart



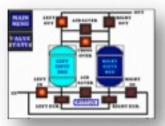
Calibration Sensor Settings

 Enables adjustment of the calibration setup and/or enter correction for the oxygen sensor.



Alarm Screen

- *Displays alarm messages
- *Indicator light s when alarm is active



Valve Layout Screen

 Shows the location and operating status (open/closed) of process valves.



Manual Control Warning Screen

- *Warms untrained operators not to use manual mode
- Allows navigation to manual control screen

Neptech, Inc. / Flexotherm



Valve Status Screen

 Indicates position of process valves (Valve is open when illuminated).

Na PUBLITY	всти	DELAY	PUBE FLOW	BAVER	NYP
11,111	-1111	188	-10	100	-33
11,01	-11111	-88	100	-111	-100
15,111	-11111	188	188	100	- 88
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Factory Configuration Screen

- Allows authorized personnel to set performance parameters
- *Displays machine serial number



Manual Control Screen

- *Enables manual operation of the system's valves.
- Allows users to confirm proper operation of valves by operating them individually on demand.



That's the thing about air. It's free.

O₂N₂ Site. The gas generating system specialists.

Thank You!

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