

ARAKI



Safety
Features



Durable
Construction

OXYGEN GENERATOR

Our oxygen generator provides a continuous and high-purity oxygen supply for medical, industrial, and laboratory applications. Engineered for efficiency and reliability, it features low energy consumption, easy maintenance, and user-friendly operation. With a compact and durable design, it ensures stable oxygen production, making it ideal for healthcare, aquaculture, wastewater treatment, and other essential industries



T A B L E O F CONTENT

OXYGEN GENERATOR

PSA OXYGEN GENERATOR.....	1
NITROGEN GENERATOR FOR ELECTRONIC INDUSTRY	5
OXYGEN GENERATOR FOR FISH FARMING / SMALL HOSPITAL	9
COMMERCIAL OXYGEN GENERATOR	13
COMPACT BIO OXYGEN GENERATOR.....	17
MEDICAL OXYGEN GENERATOR	19
INDUSTRIAL PSA OXYGEN GENERATOR.....	23
HIGH PURITY NITROGEN GENERATOR FOR FOOD INDUSTRY	27
PSA OXYGEN GENERATOR PLANT.....	31
PSA OXYGEN MANUFACTURING SYSTEM	35
ELECTRIC OXYGEN GENERATOR FOR FISH FARMING	39
AQUACULTURE & MEDICAL PSA OXYGEN GENERATOR.....	42
PSA MEDICAL OXYGEN PRODUCTION LINE	46
MEDICAL PSA OXYGEN GENERATOR	50
MEDICAL GRADE PSA OXYGEN GENERATOR FOR CYLINDER FILLING	54
HIGH PURITY PSA OXYGEN GENERATOR.....	58

PSA OXYGEN GENERATOR



Safety
Features



Durable
Construction



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

1. Air Compression:

The system compresses air to the necessary pressure for subsequent processes that separate oxygen.

2. Air Purification:

Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.

3. Oxygen Separation:

Uses molecular sieves or other adsorbents to selectively separate oxygen from nitrogen, based on their different adsorption properties.

4. Oxygen Storage:

Stores the separated oxygen at the desired pressure, ready for use when required.

5. Control System:

Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

PSA OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

PSA OXYGEN GENERATOR

1. Medical:

The Oxygen generator, finds extensive application in the medical field. It is used in hospitals, clinics, and home healthcare settings to provide supplemental oxygen therapy to patients with respiratory conditions such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia. This application scenario involves the Oxygen generator delivering a steady and controlled flow of oxygen to the patient, improving their oxygen levels and aiding in their recovery process.

2. Welding, Brazing, and Cutting:

In industrial settings, the Oxygen generator is utilized for welding, brazing, and cutting operations. It serves as a reliable source of oxygen that enables precise and efficient metal joining and cutting processes. This application scenario involves connecting the Oxygen generator to welding or cutting equipment, where it supplies the necessary oxygen for the combustion reactions, resulting in high-quality welds, strong brazed joints, and precise metal cutting.

3. Steel Mills:

The Oxygen generator plays a crucial role in steel mills. It is used for oxygen enrichment in blast furnaces, converters, and other steel making processes. This application scenario involves injecting oxygen into the steel making process to enhance combustion, increase productivity, and improve the quality of steel produced. The Oxygen generator ensures a continuous and reliable supply of oxygen, contributing to the efficient operation of steel mills.

4. Glass and Ceramics:

In the glass and ceramics industry, the Oxygen generator finds application in various processes. It is used for flame polishing, glass melting, glass blowing, and ceramic production. This application scenario involves utilizing the Oxygen generator to provide a controlled and high-purity oxygen supply, which aids in achieving precise temperature control, improved glass clarity, and enhanced ceramic properties.

5. Aquaculture:

The Oxygen generator is employed in the aquaculture industry to support the growth and survival of aquatic organisms. This application scenario involves introducing oxygen into fish tanks, ponds, or other aquatic environments to maintain optimal dissolved oxygen levels. The Oxygen generator ensures a continuous and sufficient oxygen supply, promoting healthy fish growth, preventing oxygen depletion, and reducing the risk of fish mortality.

6. Oxygen Enrichment at High Altitudes:

The Oxygen generator serves as a vital tool for individuals residing or traveling to high-altitude regions. This application scenario involves using the Oxygen generator to supplement the reduced oxygen levels experienced at high altitudes. By delivering concentrated oxygen, the machine helps alleviate symptoms of altitude sickness, enhances physical performance, and improves overall well-being in high-altitude environments.

7. Chemical Industry:

The Oxygen generator finds application in various chemical processes. It is used for oxidation reactions, combustion, and as a feed gas for chemical reactors. This application scenario involves integrating the Oxygen generator into chemical plants, where it provides a reliable and controlled oxygen supply, facilitating efficient chemical reactions and ensuring high-quality chemical products.

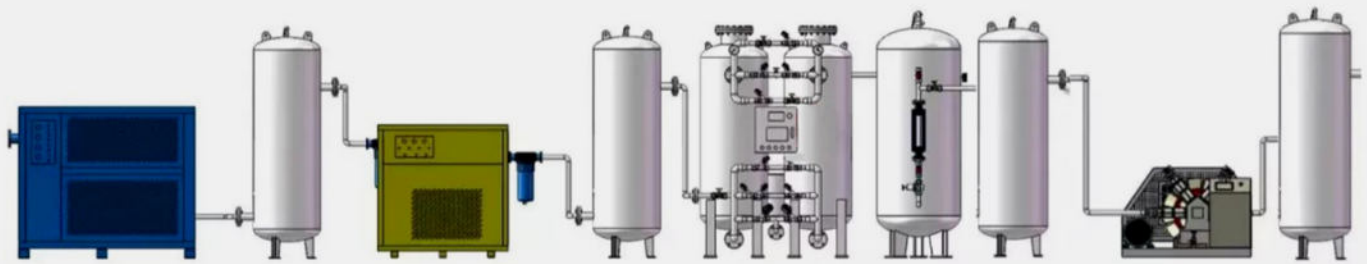
8. Metallurgy:

In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

In summary, the oxygen machine, finds diverse application scenarios in the medical, welding, steel, glass, aquaculture, high-altitude oxygen supplementation, chemical, and metallurgical industries. Its ability to deliver a controlled and reliable supply of oxygen makes it an indispensable tool in these fields, contributing to improved healthcare, efficient industrial processes, and enhanced product quality.

PSA OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

NITROGEN GENERATOR FOR ELECTRONIC INDUSTRY



Safety
Features



Durable
Construction



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
- 2. Air Purification:**
Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.
- 3. Oxygen Separation:**
Uses molecular sieves or other adsorbents to selectively separate oxygen from nitrogen, based on their different adsorption properties.
- 4. Oxygen Storage:**
Stores the separated oxygen at the desired pressure, ready for use when required.
- 5. Control System:**
Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

NITROGEN GENERATOR FOR ELECTRONIC INDUSTRY

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

NITROGEN GENERATOR FOR ELECTRONIC INDUSTRY

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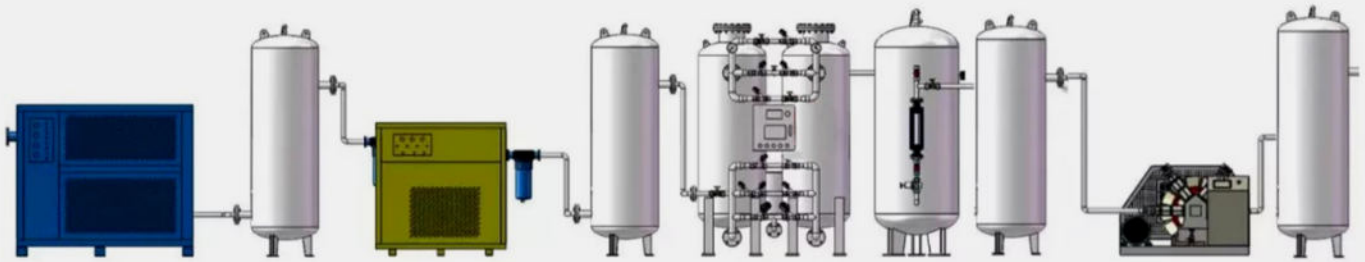
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NITROGEN GENERATOR FOR ELECTRONIC INDUSTRY

PSA OXYGEN GENERATOR SYSTEM



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Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
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Shutdown procedure

OXYGEN GENERATOR FOR FISH FARMING/ SMALL HOSPITAL



Safety
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Durable
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Energy-Efficient
Operation



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OXYGEN GENERATOR FOR FISH FARMING/ SMALL HOSPITAL

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
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Dimension (L*W*H)	Customized solutions
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Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

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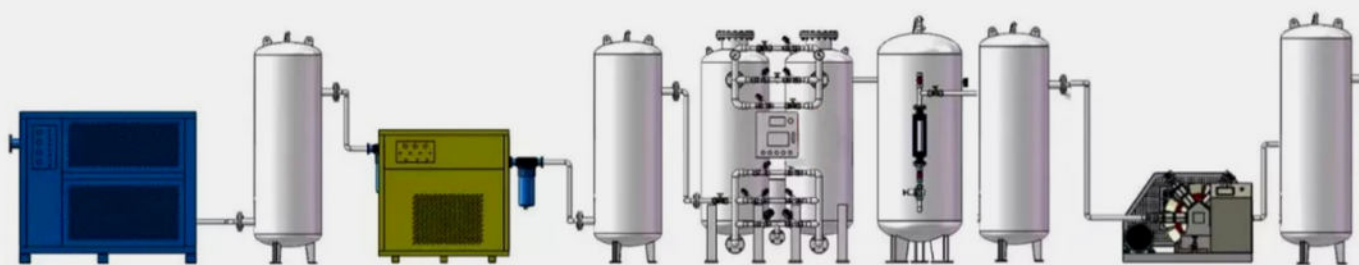
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OXYGEN GENERATOR FOR FISH FARMING/ SMALL HOSPITAL

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
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Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
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Shutdown procedure

COMMERCIAL OXYGEN GENERATOR



Safety
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Durable
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Energy-Efficient
Operation

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COMMERCIAL OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
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Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



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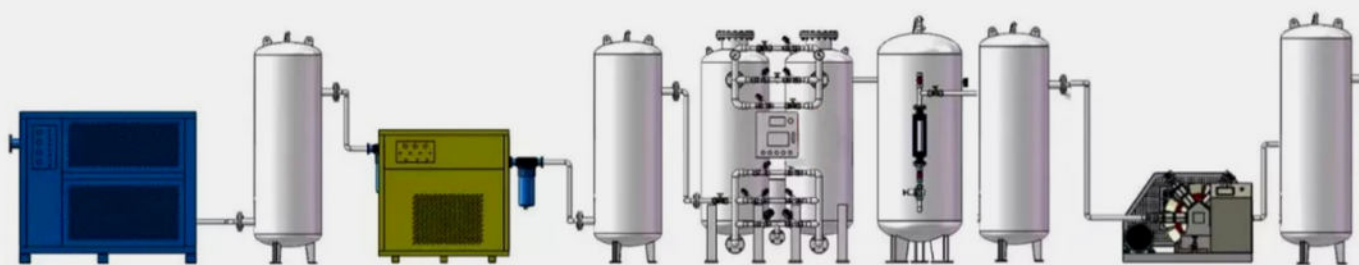
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COMMERCIAL OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor

2. Tank

3. Dryer

4. Tank

5. Oxygen generator

6. Tanks

7. Booster

8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

COMPACT BIO OXYGEN GENERATOR



Safety
Features



Durable
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Energy-Efficient
Operation



DESCRIPTION

Elevate Your Wastewater Treatment: Introducing the Compact Air Purifier Bio Oxygen Generator
Efficiency Meets Innovation in Wastewater Management

The Compact Powerhouse: Advanced Technology for Exceptional Results
Experience a new era in wastewater treatment with our Compact Air Purifier Bio Oxygen Generator. Meticulously designed with advanced technology and precision, this professional-grade solution guarantees top-tier performance and outstanding results.

Cleaner Air, Fresher Spaces: Compact Size, Powerful Performance
Despite its compact size, this Bio Oxygen Generator delivers exceptional power. It efficiently removes harmful pollutants and unpleasant odors from both residential and commercial spaces. Say farewell to unwelcome scents and hello to purified, fresh air.

Innovative Filtration Excellence: Setting New Standards in Wastewater Treatment
Equipped with state-of-the-art features, our Compact Air Purifier Bio Oxygen Generator takes wastewater treatment to new heights. Its innovative filtration system effectively removes impurities and contaminants, ensuring cleaner, safer water. This product is meticulously designed to meet the highest standards of quality and reliability.

A Green Solution: Harnessing the Power of Bio-Oxygenation
Our Bio Oxygen Generator not only treats wastewater effectively but also fosters the growth of beneficial microorganisms. Through the wonders of bio-oxygenation, it enhances the natural purification process, resulting in healthier and eco-friendly water. Environmentally conscious, this product contributes to sustainable living.

User-Friendly Excellence: Effortless Installation, Easy Operation
Designed for convenience, our Compact Air Purifier Bio Oxygen Generator is simple to install and operate. Its user-friendly interface allows for hassle-free adjustments and monitoring, while its low-maintenance requirements make it a cost-effective choice for long-term use.

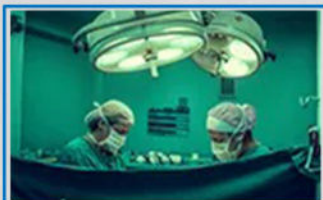
Invest in a Cleaner, Greener Future: Purer Water, Healthier Environment
Invest in our Compact Air Purifier Bio Oxygen Generator and experience the transformation in advanced wastewater treatment. Enjoy cleaner air and purer water while contributing to a healthier, greener future. Choose our product today and take the first step toward a more sustainable environment.

COMPACT BIO OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
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Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



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Steel Mills



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MEDICAL OXYGEN GENERATOR



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Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

MEDICAL OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

MEDICAL OXYGEN GENERATOR

1. Medical:

The Oxygen generator, finds extensive application in the medical field. It is used in hospitals, clinics, and home healthcare settings to provide supplemental oxygen therapy to patients with respiratory conditions such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia. This application scenario involves the Oxygen generator delivering a steady and controlled flow of oxygen to the patient, improving their oxygen levels and aiding in their recovery process.

2. Welding, Brazing, and Cutting:

In industrial settings, the Oxygen generator is utilized for welding, brazing, and cutting operations. It serves as a reliable source of oxygen that enables precise and efficient metal joining and cutting processes. This application scenario involves connecting the Oxygen generator to welding or cutting equipment, where it supplies the necessary oxygen for the combustion reactions, resulting in high-quality welds, strong brazed joints, and precise metal cutting.

3. Steel Mills:

The Oxygen generator plays a crucial role in steel mills. It is used for oxygen enrichment in blast furnaces, converters, and other steel making processes. This application scenario involves injecting oxygen into the steel making process to enhance combustion, increase productivity, and improve the quality of steel produced. The Oxygen generator ensures a continuous and reliable supply of oxygen, contributing to the efficient operation of steel mills.

4. Glass and Ceramics:

In the glass and ceramics industry, the Oxygen generator finds application in various processes. It is used for flame polishing, glass melting, glass blowing, and ceramic production. This application scenario involves utilizing the Oxygen generator to provide a controlled and high-purity oxygen supply, which aids in achieving precise temperature control, improved glass clarity, and enhanced ceramic properties.

5. Aquaculture:

The Oxygen generator is employed in the aquaculture industry to support the growth and survival of aquatic organisms. This application scenario involves introducing oxygen into fish tanks, ponds, or other aquatic environments to maintain optimal dissolved oxygen levels. The Oxygen generator ensures a continuous and sufficient oxygen supply, promoting healthy fish growth, preventing oxygen depletion, and reducing the risk of fish mortality.

6. Oxygen Enrichment at High Altitudes:

The Oxygen generator serves as a vital tool for individuals residing or traveling to high-altitude regions. This application scenario involves using the Oxygen generator to supplement the reduced oxygen levels experienced at high altitudes. By delivering concentrated oxygen, the machine helps alleviate symptoms of altitude sickness, enhances physical performance, and improves overall well-being in high-altitude environments.

7. Chemical Industry:

The Oxygen generator finds application in various chemical processes. It is used for oxidation reactions, combustion, and as a feed gas for chemical reactors. This application scenario involves integrating the Oxygen generator into chemical plants, where it provides a reliable and controlled oxygen supply, facilitating efficient chemical reactions and ensuring high-quality chemical products.

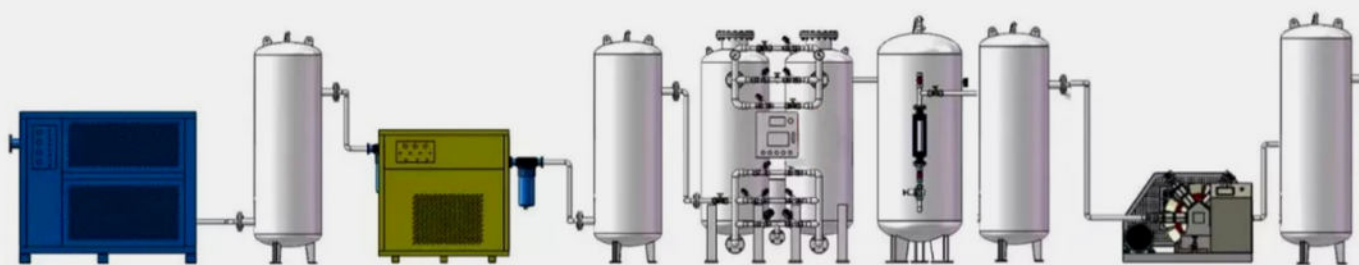
8. Metallurgy:

In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

In summary, the oxygen machine, finds diverse application scenarios in the medical, welding, steel, glass, aquaculture, high-altitude oxygen supplementation, chemical, and metallurgical industries. Its ability to deliver a controlled and reliable supply of oxygen makes it an indispensable tool in these fields, contributing to improved healthcare, efficient industrial processes, and enhanced product quality.

MEDICAL OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

INDUSTRIAL PSA OXYGEN GENERATOR



Energy-Efficient
Operation



Durable
Construction



Safety
Features



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
- 2. Air Purification:**
Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.
- 3. Oxygen Separation:**
Uses molecular sieves or other adsorbents to selectively separate oxygen from nitrogen, based on their different adsorption properties.
- 4. Oxygen Storage:**
Stores the separated oxygen at the desired pressure, ready for use when required.
- 5. Control System:**
Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

INDUSTRIAL PSA OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
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Oxygen Pressure	0.1-0.7Mpa
Dew Point	≤45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

INDUSTRIAL PSA OXYGEN GENERATOR

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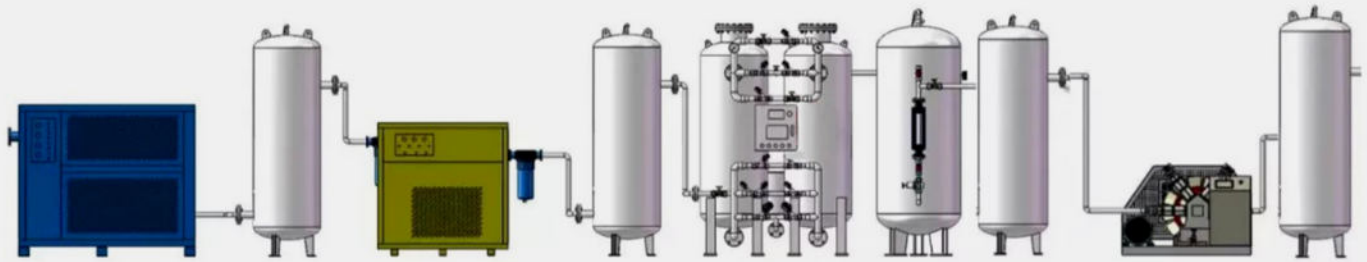
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In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

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INDUSTRIAL PSA OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

HIGH PURITY NITROGEN GENERATOR FOR FOOD INDUSTRY



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
- 2. Air Purification:**
Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.
- 3. Oxygen Separation:**
Uses molecular sieves or other adsorbents to selectively separate oxygen from nitrogen, based on their different adsorption properties.
- 4. Oxygen Storage:**
Stores the separated oxygen at the desired pressure, ready for use when required.
- 5. Control System:**
Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

HIGH PURITY NITROGEN GENERATOR FOR FOOD INDUSTRY

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

HIGH PURITY NITROGEN GENERATOR FOR FOOD INDUSTRY

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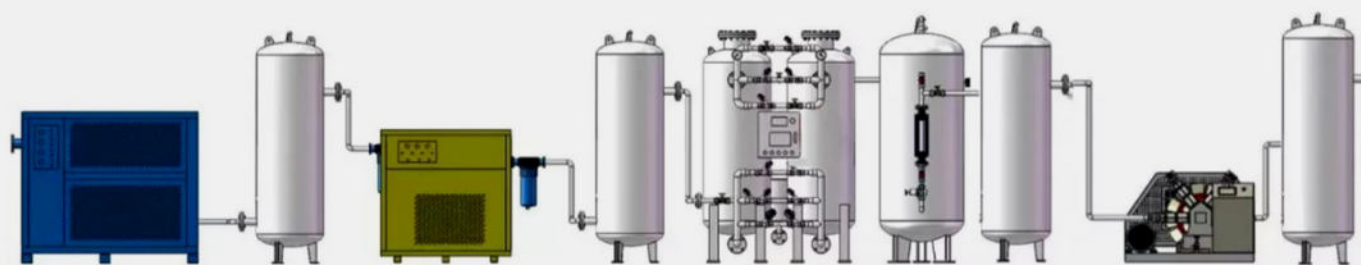
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HIGH PURITY NITROGEN GENERATOR FOR FOOD INDUSTRY

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor

2. Tank

3. Dryer

4. Tank

5. Oxygen generator

6. Tanks

7. Booster

8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

PSA OXYGEN GENERATOR PLANT



Energy-Efficient
Operation



Durable
Construction



Safety
Features



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
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Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

PSA OXYGEN GENERATOR PLANT

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
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Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen Supplement



Chemicals



Metallurgy

PSA OXYGEN GENERATOR PLANT

1. Medical:

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The Oxygen generator is employed in the aquaculture industry to support the growth and survival of aquatic organisms. This application scenario involves introducing oxygen into fish tanks, ponds, or other aquatic environments to maintain optimal dissolved oxygen levels. The Oxygen generator ensures a continuous and sufficient oxygen supply, promoting healthy fish growth, preventing oxygen depletion, and reducing the risk of fish mortality.

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The Oxygen generator serves as a vital tool for individuals residing or traveling to high-altitude regions. This application scenario involves using the Oxygen generator to supplement the reduced oxygen levels experienced at high altitudes. By delivering concentrated oxygen, the machine helps alleviate symptoms of altitude sickness, enhances physical performance, and improves overall well-being in high-altitude environments.

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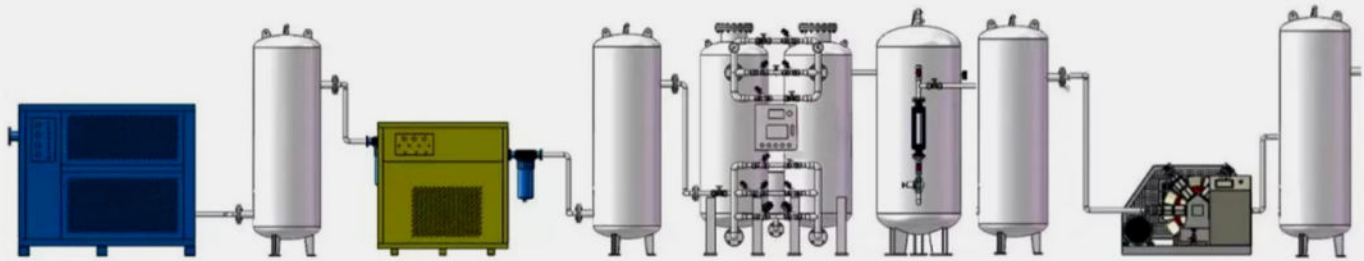
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In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

In summary, the oxygen machine, finds diverse application scenarios in the medical, welding, steel, glass, aquaculture, high-altitude oxygen supplementation, chemical, and metallurgical industries. Its ability to deliver a controlled and reliable supply of oxygen makes it an indispensable tool in these fields, contributing to improved healthcare, efficient industrial processes, and enhanced product quality.

PSA OXYGEN GENERATOR PLANT

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

PSA OXYGEN MANUFACTURING SYSTEM



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
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PSA OXYGEN MANUFACTURING SYSTEM

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
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Oxygen Capacity	3-5000 Nm ³ /hr
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Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

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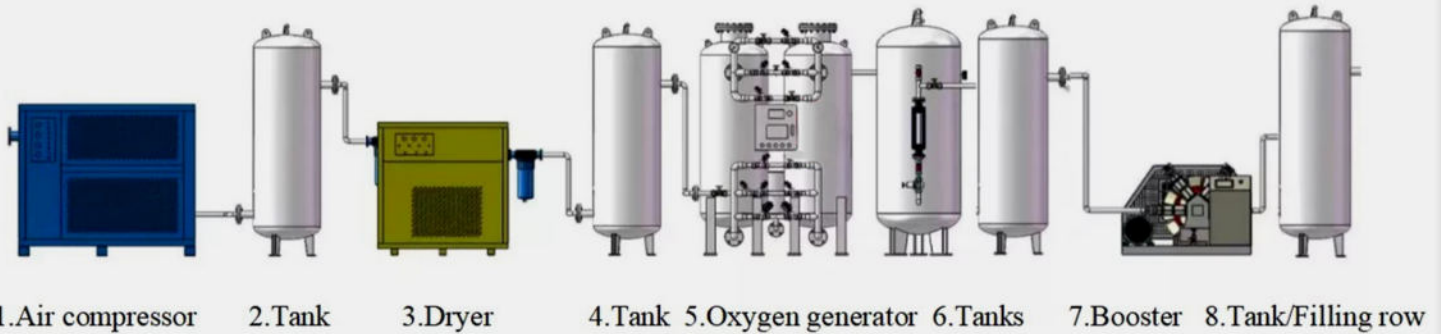
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PSA OXYGEN MANUFACTURING SYSTEM

PSA OXYGEN GENERATOR SYSTEM



Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

ELECTRIC OXYGEN GENERATOR FOR FISH FARMING



Durable Construction



Safety Features



Energy-Efficient Operation



DESCRIPTION

Tailored for Glass Industry Fish Farms

Discover our innovative Electric Compact Fish Farm Oxygen Generator, meticulously designed to meet the unique needs of fish farms operating within the glass industry. This professional-grade oxygen generator has been engineered to provide a dependable and efficient oxygen source.

Efficient Compact Design

Our oxygen generator features a compact design, perfectly suited for small to medium-sized fish farms within the glass sector. Its sleek, contemporary appearance seamlessly blends into any work environment.

Advanced Technology for Optimal Oxygen Supply

Equipped with cutting-edge technology, our Electric Compact Fish Farm Oxygen Generator ensures a consistent and high-quality oxygen supply. This creates the ideal conditions for fish health and growth, ultimately boosting overall productivity and profitability.

User-Friendly Interface for Seamless Operation

Our user-friendly interface simplifies operation and offers real-time oxygen level monitoring. With customizable settings, you have the flexibility to fine-tune oxygen output to precisely match your fish farm's unique requirements.

Safety Features for Peace of Mind

Safety is paramount, and our Electric Compact Fish Farm Oxygen Generator reflects this commitment. It incorporates multiple safety features, including automatic shutdown in the event of malfunctions or abnormal conditions. This safeguards your fish's well-being and ensures equipment longevity.

ELECTRIC OXYGEN GENERATOR FOR FISH FARMING

DESCRIPTION

Invest in Success with Our Oxygen Generator

Investing in our Electric Compact Fish Farm Oxygen Generator means investing in your glass industry fish farm's success. Experience the benefits of a reliable and efficient oxygen supply, improved fish health, and increased productivity.

Elevate Your Fish Farm Today

The time for enhancement has arrived. Upgrade your fish farm with our Electric Compact Fish Farm Oxygen Generator. Contact us now to delve deeper into this indispensable equipment for the glass industry and discover how it can revolutionize your fish farming business. Trust in our professional-grade equipment to take your fish farming operations to new heights.

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

ELECTRIC OXYGEN GENERATOR FOR FISH FARMING

APPLICATION AREA



1 Medical



Welding, Brazing and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen Supplement



Chemicals



Metallurgy



Mining



Paper and Pulp Bleaching

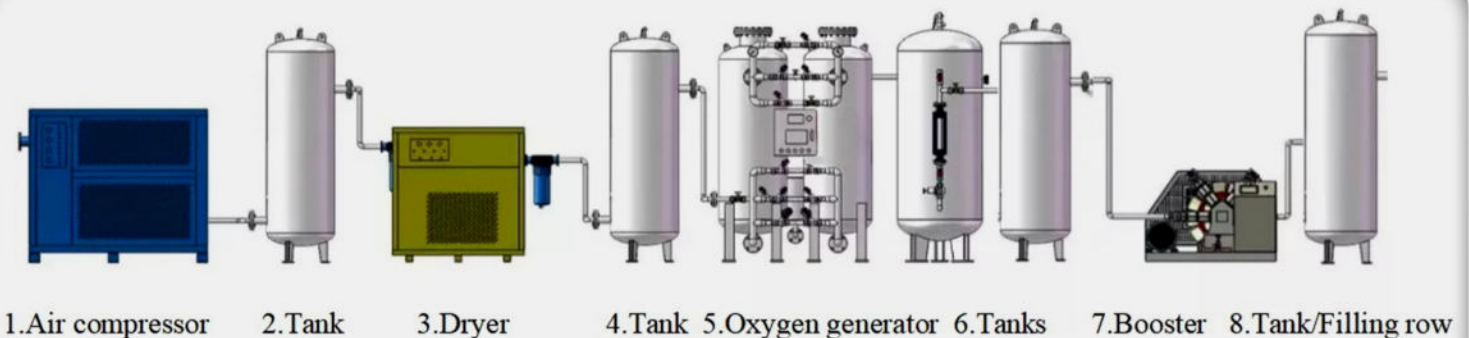


Waster water treatment



Ozone

PSA NITROGEN GENERATOR SYSTEM



AQUACULTURE & MEDICAL PSA OXYGEN GENERATOR



Durable Construction



Safety Features



Energy-Efficient Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
- 2. Air Purification:**
Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.
- 3. Oxygen Separation:**
Uses molecular sieves or other adsorbents to selectively separate oxygen from nitrogen, based on their different adsorption properties.
- 4. Oxygen Storage:**
Stores the separated oxygen at the desired pressure, ready for use when required.
- 5. Control System:**
Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

AQUACULTURE & MEDICAL PSA OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
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Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

AQUACULTURE & MEDICAL PSA OXYGEN GENERATOR

1. Medical:

The Oxygen generator, finds extensive application in the medical field. It is used in hospitals, clinics, and home healthcare settings to provide supplemental oxygen therapy to patients with respiratory conditions such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia. This application scenario involves the Oxygen generator delivering a steady and controlled flow of oxygen to the patient, improving their oxygen levels and aiding in their recovery process.

2. Welding, Brazing, and Cutting:

In industrial settings, the Oxygen generator is utilized for welding, brazing, and cutting operations. It serves as a reliable source of oxygen that enables precise and efficient metal joining and cutting processes. This application scenario involves connecting the Oxygen generator to welding or cutting equipment, where it supplies the necessary oxygen for the combustion reactions, resulting in high-quality welds, strong brazed joints, and precise metal cutting.

3. Steel Mills:

The Oxygen generator plays a crucial role in steel mills. It is used for oxygen enrichment in blast furnaces, converters, and other steel making processes. This application scenario involves injecting oxygen into the steel making process to enhance combustion, increase productivity, and improve the quality of steel produced. The Oxygen generator ensures a continuous and reliable supply of oxygen, contributing to the efficient operation of steel mills.

4. Glass and Ceramics:

In the glass and ceramics industry, the Oxygen generator finds application in various processes. It is used for flame polishing, glass melting, glass blowing, and ceramic production. This application scenario involves utilizing the Oxygen generator to provide a controlled and high-purity oxygen supply, which aids in achieving precise temperature control, improved glass clarity, and enhanced ceramic properties.

5. Aquaculture:

The Oxygen generator is employed in the aquaculture industry to support the growth and survival of aquatic organisms. This application scenario involves introducing oxygen into fish tanks, ponds, or other aquatic environments to maintain optimal dissolved oxygen levels. The Oxygen generator ensures a continuous and sufficient oxygen supply, promoting healthy fish growth, preventing oxygen depletion, and reducing the risk of fish mortality.

6. Oxygen Enrichment at High Altitudes:

The Oxygen generator serves as a vital tool for individuals residing or traveling to high-altitude regions. This application scenario involves using the Oxygen generator to supplement the reduced oxygen levels experienced at high altitudes. By delivering concentrated oxygen, the machine helps alleviate symptoms of altitude sickness, enhances physical performance, and improves overall well-being in high-altitude environments.

7. Chemical Industry:

The Oxygen generator finds application in various chemical processes. It is used for oxidation reactions, combustion, and as a feed gas for chemical reactors. This application scenario involves integrating the Oxygen generator into chemical plants, where it provides a reliable and controlled oxygen supply, facilitating efficient chemical reactions and ensuring high-quality chemical products.

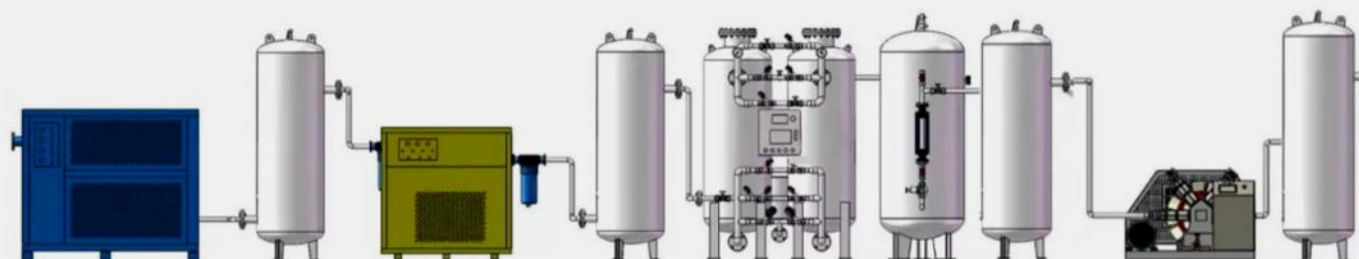
8. Metallurgy:

In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

In summary, the oxygen machine, finds diverse application scenarios in the medical, welding, steel, glass, aquaculture, high-altitude oxygen supplementation, chemical, and metallurgical industries. Its ability to deliver a controlled and reliable supply of oxygen makes it an indispensable tool in these fields, contributing to improved healthcare, efficient industrial processes, and enhanced product quality.

AQUACULTURE & MEDICAL PSA OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

PSA MEDICAL OXYGEN PRODUCTION LINE



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

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Stores the separated oxygen at the desired pressure, ready for use when required.
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Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

PSA MEDICAL OXYGEN PRODUCTION LINE

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

PSA MEDICAL OXYGEN PRODUCTION LINE

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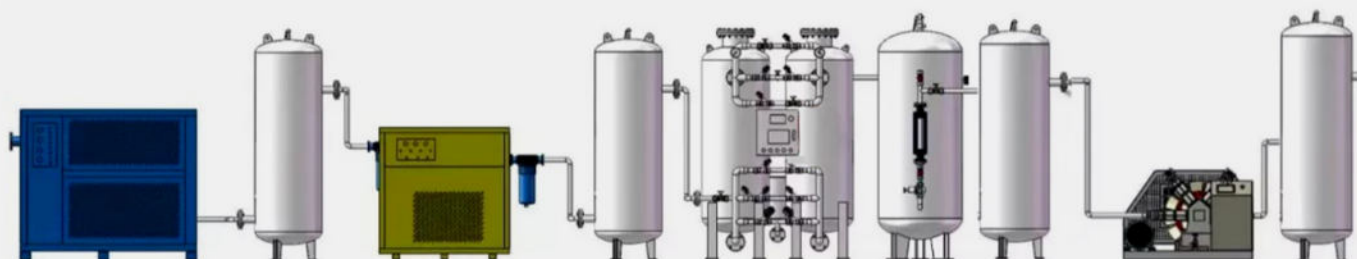
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PSA MEDICAL OXYGEN PRODUCTION LINE

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

MEDICAL PSA PSA OXYGEN GENERATOR



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

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Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

MEDICAL PSA PSA OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
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Dew Point	≤45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

MEDICAL PSA PSA OXYGEN GENERATOR

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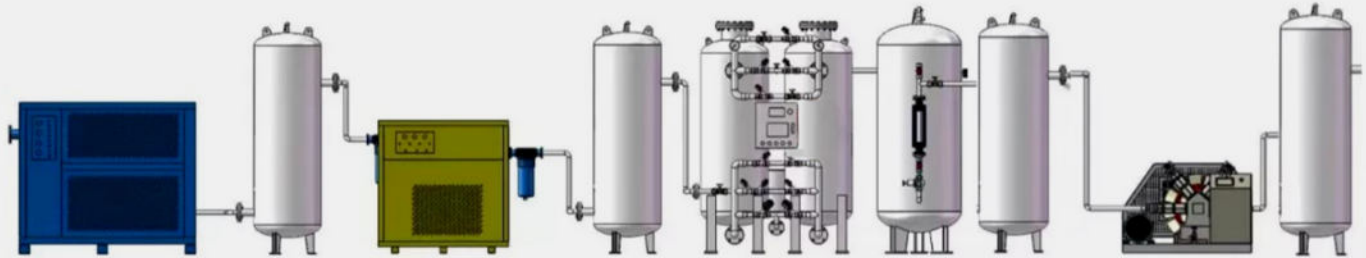
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MEDICAL PSA PSA OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

MEDICAL GRADE PSA OXYGEN GENERATOR FOR CYLINDER FILLING



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

- 1. Air Compression:**
The system compresses air to the necessary pressure for subsequent processes that separate oxygen.
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Eliminates impurities and moisture from compressed air to prevent the oxygen separation system from being contaminated.
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Stores the separated oxygen at the desired pressure, ready for use when required.
- 5. Control System:**
Oversees and regulates the entire process to ensure safe and efficient operation.

Industrial oxygen generators are utilized in various fields, such as metallurgy, chemical processing, environmental protection, construction materials, light industry, healthcare, aquaculture, biotechnology, wastewater treatment, and more.

MEDICAL GRADE PSA OXYGEN GENERATOR FOR CYLINDER FILLING

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
Oxygen Purity	93%±3%
Oxygen Pressure	0.1-0.7Mpa
Dew Point	<=45°C
Model	Intelligent
Mobile Way	Floor standing

APPLICATION



Medical



Welding, Brazing
and Cutting



Steel Mills



Glass and Ceramics



Aquaculture



Plateau Oxygen
Supplement



Chemicals



Metallurgy

MEDICAL GRADE PSA OXYGEN GENERATOR FOR CYLINDER FILLING

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The Oxygen generator, finds extensive application in the medical field. It is used in hospitals, clinics, and home healthcare settings to provide supplemental oxygen therapy to patients with respiratory conditions such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia. This application scenario involves the Oxygen generator delivering a steady and controlled flow of oxygen to the patient, improving their oxygen levels and aiding in their recovery process.

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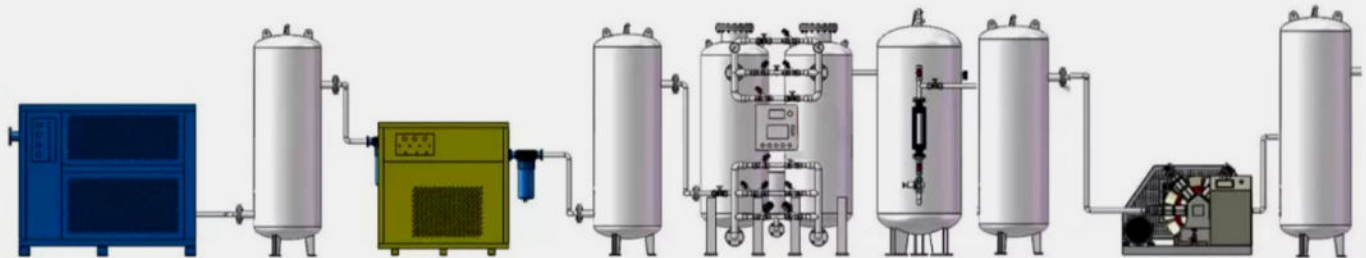
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MEDICAL GRADE PSA OXYGEN GENERATOR FOR CYLINDER FILLING

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor 2. Tank 3. Dryer 4. Tank 5. Oxygen generator 6. Tanks 7. Booster 8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

HIGH PURITY PSA OXYGEN GENERATOR



Durable
Construction



Safety
Features



Energy-Efficient
Operation



DESCRIPTION

Industrial oxygen generators are vital equipment that transform air from the atmosphere into oxygen of high purity. Their main functions include:

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HIGH PURITY PSA OXYGEN GENERATOR

ESSENTIAL DETAILS

Production Rate	5-2000 Nm ³ /h
Voltage	220v/380v
Weight	3200 KG
Dimension (L*W*H)	Customized solutions
Warranty	1 year
Warranty Of Core Components	1 year
Core Components	PLC, Air compressor, Cold dryer, Filter, Air storage tank, Oxygen generator composition
Oxygen Capacity	3-5000 Nm ³ /hr
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Welding, Brazing
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Steel Mills



Glass and Ceramics



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Plateau Oxygen
Supplement



Chemicals



Metallurgy

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The Oxygen generator, finds extensive application in the medical field. It is used in hospitals, clinics, and home healthcare settings to provide supplemental oxygen therapy to patients with respiratory conditions such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia. This application scenario involves the Oxygen generator delivering a steady and controlled flow of oxygen to the patient, improving their oxygen levels and aiding in their recovery process.

2. Welding, Brazing, and Cutting:

In industrial settings, the Oxygen generator is utilized for welding, brazing, and cutting operations. It serves as a reliable source of oxygen that enables precise and efficient metal joining and cutting processes. This application scenario involves connecting the Oxygen generator to welding or cutting equipment, where it supplies the necessary oxygen for the combustion reactions, resulting in high-quality welds, strong brazed joints, and precise metal cutting.

3. Steel Mills:

The Oxygen generator plays a crucial role in steel mills. It is used for oxygen enrichment in blast furnaces, converters, and other steel making processes. This application scenario involves injecting oxygen into the steel making process to enhance combustion, increase productivity, and improve the quality of steel produced. The Oxygen generator ensures a continuous and reliable supply of oxygen, contributing to the efficient operation of steel mills.

4. Glass and Ceramics:

In the glass and ceramics industry, the Oxygen generator finds application in various processes. It is used for flame polishing, glass melting, glass blowing, and ceramic production. This application scenario involves utilizing the Oxygen generator to provide a controlled and high-purity oxygen supply, which aids in achieving precise temperature control, improved glass clarity, and enhanced ceramic properties.

5. Aquaculture:

The Oxygen generator is employed in the aquaculture industry to support the growth and survival of aquatic organisms. This application scenario involves introducing oxygen into fish tanks, ponds, or other aquatic environments to maintain optimal dissolved oxygen levels. The Oxygen generator ensures a continuous and sufficient oxygen supply, promoting healthy fish growth, preventing oxygen depletion, and reducing the risk of fish mortality.

6. Oxygen Enrichment at High Altitudes:

The Oxygen generator serves as a vital tool for individuals residing or traveling to high-altitude regions. This application scenario involves using the Oxygen generator to supplement the reduced oxygen levels experienced at high altitudes. By delivering concentrated oxygen, the machine helps alleviate symptoms of altitude sickness, enhances physical performance, and improves overall well-being in high-altitude environments.

7. Chemical Industry:

The Oxygen generator finds application in various chemical processes. It is used for oxidation reactions, combustion, and as a feed gas for chemical reactors. This application scenario involves integrating the Oxygen generator into chemical plants, where it provides a reliable and controlled oxygen supply, facilitating efficient chemical reactions and ensuring high-quality chemical products.

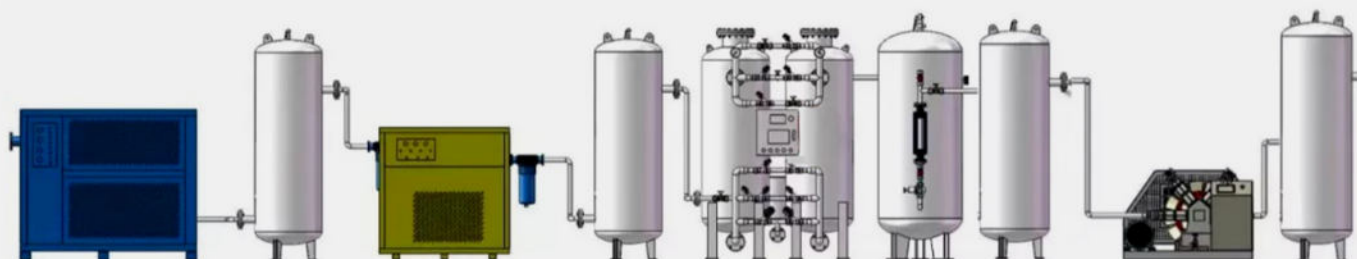
8. Metallurgy:

In the field of metallurgy, the Oxygen generator plays a significant role. It is utilized for oxygen enrichment in various metallurgical processes, including steel making, non-ferrous metal production, and metal refining. This application scenario involves injecting oxygen into the metallurgical processes to enhance combustion, increase heat transfer rates, and improve the overall efficiency of the processes.

In summary, the oxygen machine, finds diverse application scenarios in the medical, welding, steel, glass, aquaculture, high-altitude oxygen supplementation, chemical, and metallurgical industries. Its ability to deliver a controlled and reliable supply of oxygen makes it an indispensable tool in these fields, contributing to improved healthcare, efficient industrial processes, and enhanced product quality.

HIGH PURITY PSA OXYGEN GENERATOR

PSA OXYGEN GENERATOR SYSTEM



1. Air compressor

2. Tank

3. Dryer

4. Tank

5. Oxygen generator

6. Tanks

7. Booster

8. Tank/Filling row

Preparation for starting

1. Switch off all power buttons, including those for the oxygen generator and associated valves. Wait until the system and pipeline have completely relieved pressure.
2. Set up the oxygen analyzer for sampling. Adjust the reducing valve pressure to 1.0bar. Adjust the sampling flowmeter and ensure the gas volume is around 1. Be cautious not to have too large of a sampling gas volume. Begin testing the nitrogen purity.
3. Confirm that the compressed air pressure is above 0.7mpa. Then, open the oxygen generator's stop valve and monitor the pressure changes in the adsorption tank. Verify that the pneumatic valve is functioning properly.

Startup process

1. Activate the cold dryer and allow it to run normally for approximately 2 minutes. On the oxygen generator's control panel, press the remote control button for the air compressor to start it.
2. Once the air storage tank's pressure reaches 0.6Mpa, press the start button on the oxygen generator to initiate its operation.
3. When the pressure in the oxygen buffer tank reaches 0.4Mpa, switch the supercharger to direction I and start it.

Shutdown procedure

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