NITROBERG® | OXYBERG®

Oxygen and Nitrogen Generators, Supply your own O2 | N2

Quality product
Excellent service

BERG®

PSA OXYGEN GENERATOR

OXYBERG®

BERG® PSA oxygen technology produces oxygen in a purity of 90% up to 95% and quantities of 1 - 280 Nm3/h.

PERMANENT O2 SUPPLY

PROCESS:

The OXYBERG® pressure swing adsorption process separates the nitrogen molecules from Compressed air or the oxygen molecules from Compressed air.
The pure oxygen can now be used in a wide range of applications.

BENEFITS:

- Plug and Play, simple/constant oxygen supply
- Constant measurement of oxygen purity
- Savings from the very first minute
- Low-maintenance, compact design
- Longest Liftime of High quality ZEOLITE
- Less Compressed air and Low energy cost

Compressed Air Specification

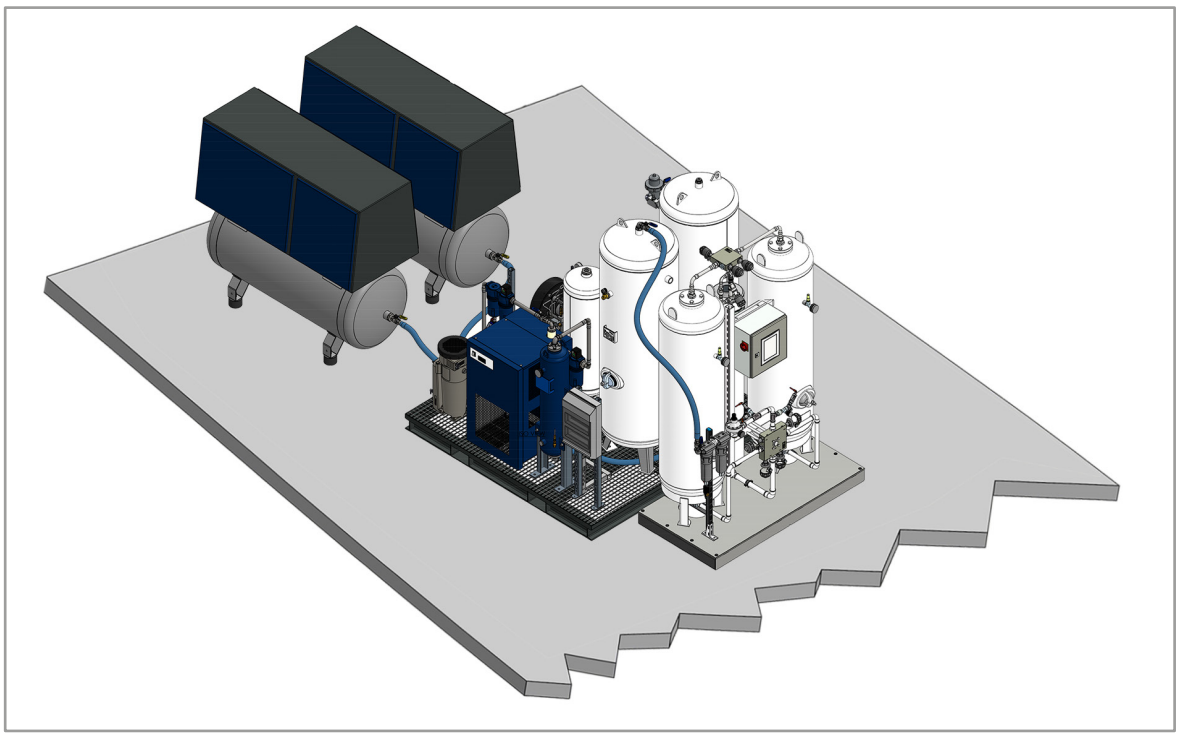
Temperature range: +5 to +40ºC
Air quality: ISO 8573.1, Class 1: dirt and oil, better than Class 4 water; PDP: +3ºCtd

The Complete Oxygen Plant, Skid Mounted

A) Compressed Air Station
B) Air treatment to ISO 8573-1 Class 1.4.1
C) Compressed Air Buffer Tank
D) PSA Oxygen Generator, OXYBERG®
E) Product Oxygen Tank
F) Boosting Station / Cylinder Filling Station

Ambient Conditions

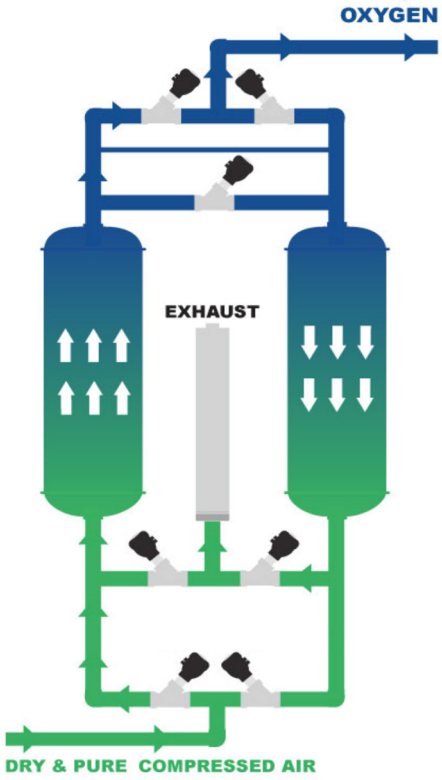
- Temperature range: +5ºC to +40ºC
- Operating pressure: 10 bar
- Electrical connection: 110-230 V/60-50 Hz
- Noise level: from 55 to max. 78 dB(A)
- Certified in accordance with DIN ISO 13485:2003 & in accordance with Pressure Equipment Directive 93/27/EC



PSA OXYGEN GENERATOR

PRODUCTION PRINCIPLE

The oxygen generator consists of two separating vessels filled with molecular sieve absorbers (zeolite). When pure compressed air pressurizes a vessel, the nitrogen is retained by the molecular sieve and the oxygen goes straight into the oxygen buffer. As soon as the tank approaches nitrogen saturation, the process switches to the second tank and the adsorbed nitrogen in the first tank is released to the ambient air. The OXYBERG® series offers all the advantages of a fully integrated in-house production system.



Product Specification

Description

Twin column, heavy duty, medical oxygen generator made to work 24/7 in demanding healthcare environments with load conditions of up to 100%.

Column vessels

Twin vessels manufactured according to the Pressure Equipment Directive and with the stringent German Technically Supervisory Board [TÜV] approval. Vessels are powder coated and calculated for the demanding high load cycle.

Adsorbent material

High quality, long-life molecular sieve ZEOLITE with industry leading energy air factors resulting in lowest possible differential pressure.

Process valves

Angle seat pneumatic process valves with stainless steel body and piston stems are used which guarantee a very reliable operation in a long service life.

Piping

All process piping is in stainless steel, press-fitted pipes for maximum durability and leak free operation.

Instrumentation & Measurement

- Purity analyzer and sensor with Zirconium sensor
- Outlet pressure sensor – displays in HMI
- Pressure indicator on each column vessel
- Pressure indicator at inlet pressure regulator
- Pressure indicator at outlet pressure regulator
- Ready to connect with electro cable and plug in

Control & Monitoring

Multifunctional color touch control panel with 4“ or 7” HMI offering unique features and controllability is used as an industry leading, state of the art [HMI] Features Made by Siemens include:

- Automatic, Start Mode and Stop Button
- Display operating and measurement values - purity, outlet pressure, operating hours and all other connected measurement sensor values
- Values displayed in metric or imperial values
- Display of trends – all measurement values can be displayed as trend for 24 hours
- Alarm management – Audit trail of raised alarms, acknowledgement, deleted with time/date stamp and permanent alarm history
- Change of purities with a push of a button
- Access management with 3 hierarchy levels for access control
- Automatic service reminders for periodic maintenance
- Long term process data storage
- Automatic start option after power outage as require by ISO 10083

APPLICATION FIELDS

For Our PSA Oxygen Generator

MEDICAL

The oxygen generator is producing pure oxygen gas that is safe and ready to use. Oxygen gas produced in the hospital environment. Ready to use anytime, anywhere. And this method; Compared to external oxygen cylinders. It's really safer and low cost.

GLASS & NEON FACTORY

With the production of oxygen, there is no problem of running out of gas, so the operation does not stop. Absolutely affordable, It is safe, the last thing to worry about is the explosion of the high-pressure cylinder, it also plays an important role in the quality of the product and the removal of bubbles from the work surface.

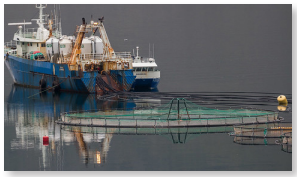
METAL INDUSTRY

High-purity oxygen is used in cutting and burning processes to run automatic cutoff torches, as well as in the cutting of crops and other forms of mill scrap. In particular, oxygen is used for enrichment or two-run oxy-burners, like blast furnaces and rotary furnaces, respectively.

PHARMACEUTICAL

Specific process steps are performed in the manufacture of drugs, antibiotics, additives, biopolymers, or acids in fermentation reactors, which require oxygen. Enrichment of fermented air with oxygen enables faster reproduction of aerobic organisms in a controlled atmosphere.

ECOLOGY FISH FARMING



It's well known in the aquaculture industry that oxygen generation is extremely beneficial for fish farms and hatcheries. Oxygenizing the water leads to healthier fish with better appetites, which means bigger fish to sell when the time comes.

BIOGAS PLANTS

Reuse of products such as animal manure, municipal waste, food waste, and other dual products from various food processing industries has been established as a sustainable way to generate energy. A simple yet effective way to remove hydrogen sulfide is to add gaseous oxygen to the biogas fermentation.

MINING AND MINERAL PROCESSING

In silver and gold extraction oxygen is one of the key elements used for ore processing as pressure oxidation and cyanidation. Oxygen significantly increases recovery and ore throughput. Furthermore, it reduces cyanide costs and waste products.

DRINKING-WATER TREATMENT

Oxygen assists various processes used in the treatment of drinking water. It is possible to clean water by adding oxygen. Furthermore, oxygen can be used to treat groundwater. The addition of oxygen causes bacteria to multiply in the dirty water. Such bacteria are activated and assist with water treatment.

OXYGEN PLANT OXYBERG Compact

OXYBERG Compact systems

The special OXYBERG® technology - Pressure Swing Adsorption (PSA) or pressure swing adsorption - offers innovative solutions and processes when it comes to oxygen generation.

This reliable and cost-effective method of on-site oxygen generation is primarily used in medical care (hospitals), pharmacy and water treatment.

The PSA technology and specially developed adsorbents (zeolites) separate the ambient air (oil-free compressed air) into its components nitrogen and oxygen.Oxygen is therefore available to you in delivery quantities of 1 - 280 Nm3/h and purity of 90 - 95% for further use.

GENERATOR FOR MEDICAL O2

The unique advantages of the OXYBERG® Med series: Energy-optimized oxygen generation for medical facilities with guaranteed constant oxygen quality.

European Pharmacopoeia & Directive 93/42/EEC

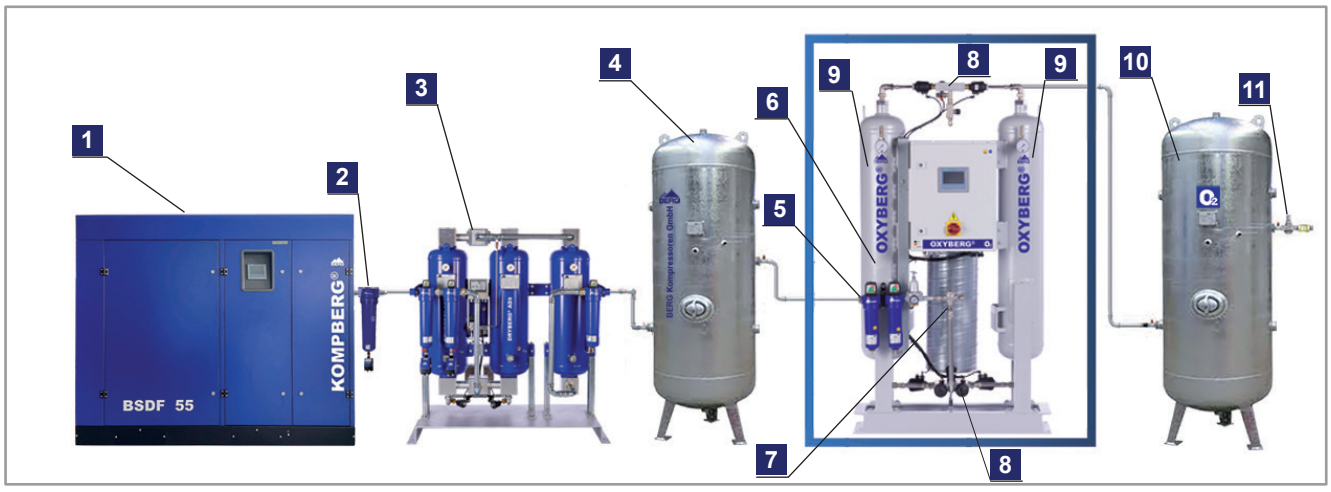
O_2 purity up to 95% ± 3% volume from 1 - 280 Nm^3/h OXYBERG® oxygen generators meet the standards of the European Pharmacopoeia (pharmacopoeia) 93% ± 3% for medical applications with an oxygen purity of OXYBERG® = 95% according to the guidelines ISO 7396-1:2016 and ISO 13485:2016 according to the guideline 93/42/EWG .

ADVANTAGES:

- Customized solutions
- CO2 / CO and O2 measurements
- Standard systems in a compact design
- Automatic operation
- Mobile oxygen supply
- Digital surveillance
- Ideal if there is no infrastructure
- Reduced operating costs
- Optimum availability
- Return on Invest in less than 36 months

O2 Plant sample installation

1. Compressor
2. Pre filters
3. Adsorption Dryer heatless oil free DRYBERG® AD - CT
4. Compressed air tanks
5. Filtration
6. Temperature and Pressure Sensor
7. Pressure dew point measurement
8. Control valve
9. CMS
10. Oxygen tanks
11. Pressure regulation




OXYBERG®
OXYBERG®
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BERG PUREBERG
BERG PUREBERG

Technical Data of PSA Oxygen Generator OXYBERG® - Capacity (Nm^3/h)						
Model	Oxygen Purity	90%	92%	93%	94%	95%
OXYBERG® 500	O2, Nm^3/h	2.9	2.5	2.1	1.9	1.8
	Comp.air, Nm^3/h	31.9	27.5	23.1	20.9	19.8
	Oxygen vessel	90	90	90	90	90
	Comp. air vessel	150	150	150	150	150
OXYBERG® 600	O2, Nm^3/h	3.9	3.4	2.9	2.8	2.6
	Comp.air, Nm^3/h	42.9	37.4	31.9	30.8	28.6
	Oxygen vessel	90	90	90	90	90
	Comp. air vessel	150	150	150	150	150
OXYBERG® 700	O2, Nm^3/h	4.9	4.5	4.2	3.9	3.8
	Comp.air, Nm^3/h	53.9	49.5	46.2	42.9	41.8
	Oxygen vessel	150	150	150	150	150
	Comp. air vessel	250	250	250	250	250
OXYBERG® 800	O2, Nm^3/h	6.3	5.7	5.5	5.2	4.9
	Comp.air, Nm^3/h	69.3	62.7	60.5	57.2	53.9
	Oxygen vessel	250	250	250	250	250
	Comp. air vessel	350	350	350	350	350
OXYBERG® 900	O2, Nm^3/h	8.1	7.3	6.7	6.4	6.2
	Comp.air, Nm^3/h	89.1	80.3	73.7	70.4	68.2
	Oxygen vessel	350	350	350	350	350
	Comp. air vessel	500	500	500	500	500
OXYBERG® 1000	O2, Nm^3/h	10.6	9.4	9.1	8.5	8.1
	Comp.air, Nm^3/h	116.6	103.4	100.1	93.5	89.1
	Oxygen vessel	500	500	500	500	500
	Comp. air vessel	750	750	750	750	750
OXYBERG® 1100	O2, Nm^3/h	13.6	13.3	12.7	11.8	11.4
	Comp.air, Nm^3/h	149.6	146.3	139.7	129.8	125.4
	Oxygen vessel	500	500	500	500	500
	Comp. air vessel	750	750	750	750	750
OXYBERG® 1200	O2, Nm^3/h	15.7	13.8	14.2	13.6	12.9
	Comp.air, Nm^3/h	146.7	146.6	146.5	143.0	141.9
	Oxygen vessel	750	750	750	750	750
	Comp. air vessel	1,000	1,000	1,000	1,000	1,000
OXYBERG® 1300	O2, Nm^3/h	23.4	22.2	21.1	20.1	19.3
	Comp.air, Nm^3/h	257.4	244.2	232.1	221.1	212.3
	Oxygen vessel	750	750	750	750	750
	Comp. air vessel	1,500	1,500	1,500	1,500	1,500
OXYBERG® 1400	O2, Nm^3/h	32.5	31.9	30.2	28.9	27.6
	Comp.air, Nm^3/h	357.5	350.9	332.2	317.9	303.6
	Oxygen vessel	1,000	1,000	1,000	1,000	1,000
	Comp. air vessel	2,000	2,000	2,000	2,000	2,000
OXYBERG® 1500	O2, Nm^3/h	44.6	42.8	41.1	39.9	38.8
	Comp.air, Nm^3/h	490.6	470.8	452.1	438.9	426.8
	Oxygen vessel	1,500	1,500	1,500	1,500	1,500
	Comp. air vessel	3,000	3,000	3,000	3,000	3,000
OXYBERG® 1600	O2, Nm^3/h	53.4	51.4	49.3	47.4	46.2
	Comp.air, Nm^3/h	587.4	565.4	542.3	521.4	508.2
	Oxygen vessel	2,000	2,000	2,000	2,000	2,000
	Comp. air vessel	4,000	4,000	4,000	4,000	4,000
OXYBERG® 1700	O2, Nm^3/h	64.7	63.4	61.6	60.3	58.8
	Comp.air, Nm^3/h	711.7	697.4	677.6	663.3	646.8
	Oxygen vessel	2,000	2,000	2,000	2,000	2,000
	Comp. air vessel	4,000	4,000	4,000	4,000	4,000
OXYBERG® 1800	O2, Nm^3/h	89.1	85.2	82.2	79.7	77.1
	Comp.air, Nm^3/h	980.1	937.2	904.2	876.7	848.1
	Oxygen vessel	3,000	3,000	3,000	3,000	3,000
	Comp. air vessel	5,000	5,000	5,000	5,000	5,000
OXYBERG® 1900	O2, Nm^3/h	105.4	101.7	97.8	93.8	91.4
	Comp.air, Nm^3/h	1,159.4	1,118.7	1,075.8	1,031.8	1,005.4
	Oxygen vessel	4,000	4,000	4,000	4,000	4,000
	Comp. air vessel	6,000	6,000	6,000	6,000	6,000
OXYBERG® 2000	O2, Nm^3/h	129.6	126.9	123.4	120.7	117.4
	Comp.air, Nm^3/h	1,425.6	1,395.9	1,357.4	1,327.7	1,291.4
	Oxygen vessel	5,000	5,000	5,000	5,000	5,000
	Comp. air vessel	8,000	8,000	8,000	8,000	8,000

*All values apply at 7 bar inlet pressure and 20ºC ambient temperature.

*If the bigger size or customized plant is needed, please contact us.

PSA NITROGEN GENERATOR

NITROBERG®

BERG® PSA nitrogen technology produces a purity of 95% up to 99.9999% and quantities of 0.9 - 2200 Nm3/h.

Compressed air specification

Temperature range: +5 to +40ºC

Air quality: ISO 8573.1, Class 1: dirt and oil, better than Class 4 water; PDP: +3ºCtd

PERMANENT N2 SUPPLY

PROCESS:

The NITROBERG® pressure swing adsorption process separates the nitrogen molecules from Compressed air or the oxygen molecules from Compressed air.

BENEFITS:

- Plug and Play, constant nitrogen supply
- Constant measurement of nitrogen purity
- Savings from the very first minute
- Low-maintenance, compact design
- Ultra Pure N2 => up to 99.9999% (1ppm O2)
- Longest lifetime of High quality CMS

The Complete Nitrogen plant, Skid mounted

A) Compressed Air Station

B) Air treatment to ISO 8573-1 Class 1.4.1

C) Compressed Air Buffer Tank

D) PSA Nitrogen Generator, NITROBERG®

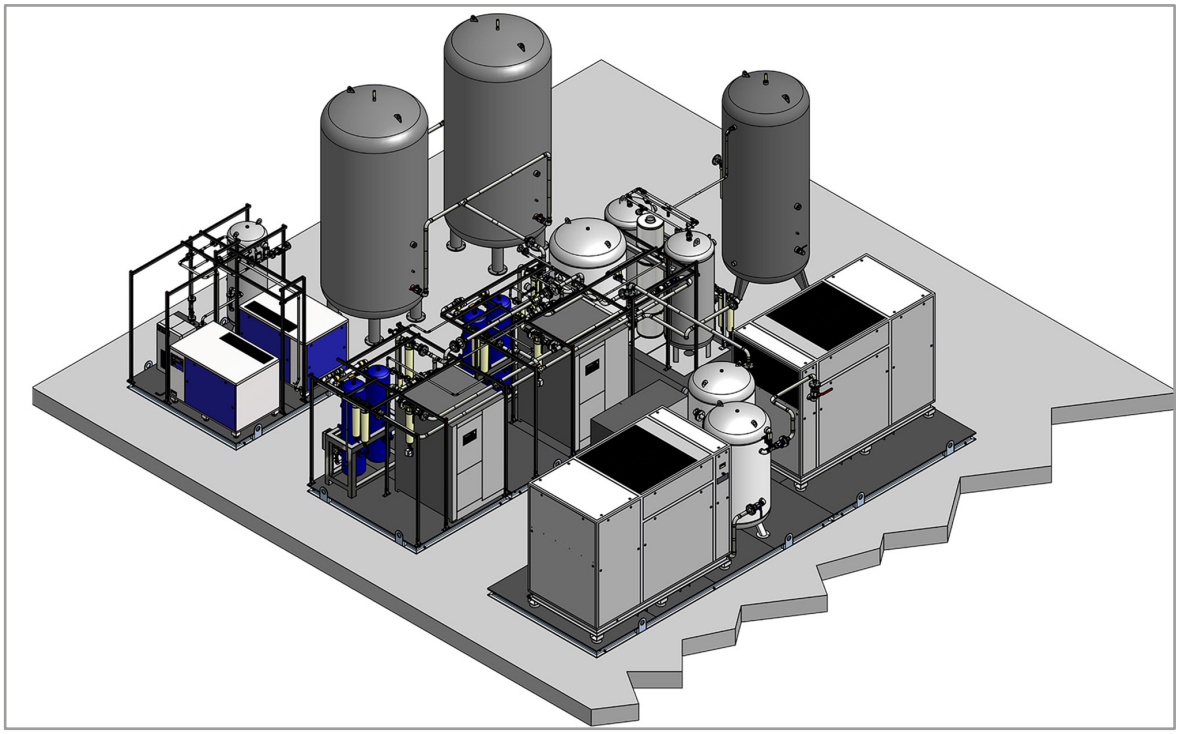
E) Product Nitrogen Tank

F) Boosting Station / Cylinder Filling Station

Ambient conditions

- Temperature range: +5ºC to +40ºC
- Operating pressure: 10 bar
- Electrical connection: 110-230 V/60-50 Hz
- Noise level: from 55 to max. 78 dB(A)
- Certified in accordance with ISO 9001:2008 and in accordance with Pressure Equipment Directive 93/27/EC

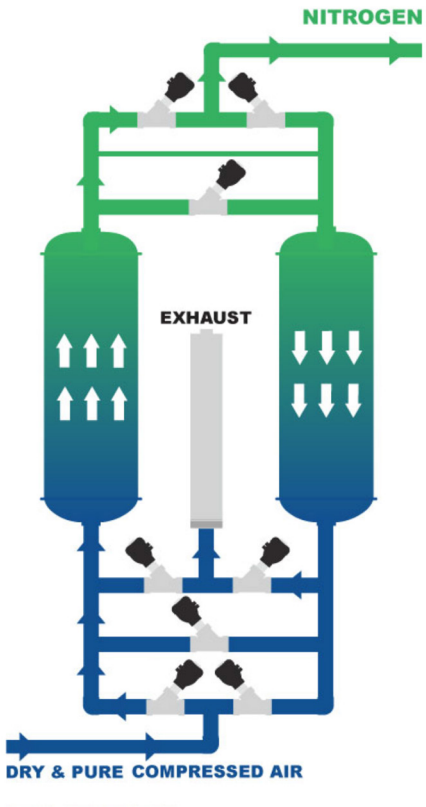
Calculation of the compressed air requirements								
Nitrogen content (%)	95%	97%	98%	99%	99.50%	99.90%	99.99%	99.999%
Air factor	1.9	2.1	2.3	2.5	2.9	3.9	5.5	6.8



PSA NITROGEN GENERATOR

PRODUCTION PRINCIPLE

The Nitrogen generator is also composed of two separation vessels, but is filled with carbon molecular sieve (CMS) oxygen is adsorbed in molecular sieve and Nitrogen is passing through CMS to the nitrogen buffer. As soon as the PSA tank approaches oxygen saturation, the process switches to the second PSA tank and the adsorbed Oxygen in the first PSA tank is released to the ambient air. The NITROBERG® series offers all advantages of a fully integrated in-house production system.



Product Specification

Description

Twin column, heavy duty,
Nitrogen generator made to work 24/7 in demanding with load conditions of up to 100%.

Column vessels

Twin vessels manufactured according to the Pressure

Equipment

Directive and with the stringent German Technically Supervisory Board [TÜV] approval.

Adsorbent material

High quality, long-life Carbon molecular sieve CMS with industry leading energy air factors resulting in lowest possible differential pressure as well as most economic m^3 air to oxygen ratios. Our molecular sieve has an expected lifetime of more than 10 years and is not classed as a consumable exchange

Piping

All process piping is in galvanized steel, press-fitted pipes type MAPRESS for maximum durability and leak free operation.

Instrumentation & Measurement

- Purity analyzer and sensor with Zirconium sensor for long lifetime and high accuracy displays in HMI
- Outlet pressure sensor – displays in HMI
- Pressure indicator on each column vessel
- Pressure indicator at inlet pressure regulator
- Pressure indicator at outlet pressure regulator
- Ready to connect with electro cable and plug in

Control & Monitoring

Multifunctional, color touch control panel with 4“ HMI offering unique features and controllability is used as an industry leading, state of the art Human Machine Interface [HMI] Features include:

- Automatic, Continuous Mode Start & Stop Button
- Display operating and measurement values - purity, outlet pressure, operating hours and all other connected measurement sensor values
- Values displayed in metric or imperial values
- Display of trends – all measurement values can be displayed as trend for 24 hours
- Alarm management – Audit trail of raised alarms, acknowledgement, deleted with time/date stamp and permanent alarm history
- Change of purities with a push of a button
- Access management with 3 hierarchy levels for access control
- Automatic service reminders for periodic maintenance
- Long term process data storage

APPLICATION FIELDS GENERATOR

For Our PSA Nitrogen Generator

FOOD AND BEVERAGE

Nitrogen gas is a popular gas in the food industry. It is used to extend the shelf life of food packages in a healthy way and to protect them against microorganisms or to protect fluid raw materials during production. Nitrogen is also used to remove oxygen from the packaged bottle, resulting in a modified atmosphere. In this way, the shelf life of the product is longer.

OIL AND GAS INDUSTRY

In this area of nitrogen gas to ensure the rigidity of the mechanical seal of turbo-chargers, cleaning, and prevention of corrosion and rust if not using boilers and piping, and accurate calculation of the calorific value of raw materials such as coal before combustion and cleaning From other cases. Factors such as moisture and oil are used.

CHEMICALS INDUSTRY

Nitrogen gas is most commonly used in the chemical industry during the inerting, sweeping, and blanketing processes of flammable and explosive chemicals by preventing their contact with air or oxygen.

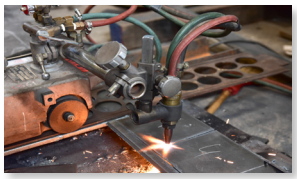
MANUFACTURING PLASTIC INDUSTRY

Nitrogen is a gas that is widely used due to its neutrality and dryness, meaning that it helps maintain the integrity and strength of the polymer in the production of plastics and also prevents any discoloration / oxidation that may occur. Gives help. In the form of oxygen contact molding, it can lead to discoloration and oxidation. Nitrogen replaces any oxygen in the mold.

VEGETABLE OILS

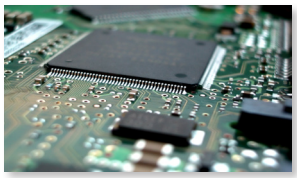
Thanks to nitrogen gas processes, the structure of the oil is best preserved and remains at its best. In fact, nitrogen gas creates an inert atmosphere in storage tanks, ensuring that oxygen and moisture are removed. The products remain stable and are stored in an environment without moisture and without change in acidity, and their taste does not change.

LASER CUTTING INDUSTRY



Nitrogen gas used in the laser cutting industry to get a high-quality cut surface is used to remove oxidation due to its inert gas property and remove burrs under machine pressure. cut thicker and harder metals than other types thanks to nitrogen.

ELECTRONICS AND COMMUNICATION



Nitrogen gas is used in the electronics and communications industries to prevent oxidation by ensuring an oxygen-free environment during PCB assembly, packaging, and soldering processes, and it ensures the highest quality products are obtained.

PHARMACEUTICAL

High-pressure nitrogen gas is used to ensure the safe transport of chemical products from one tank to another, as well as to clean the process of removing oxygen and water vapor in the lines and removing airborne contaminants such as moisture and bacteria, thus creating Inert space and protection of products and prevention of mass formation are the advantages of this gas.

NITROGEN PLANT NITROBERG Compact

NITROBERG Compact Systems

NITROBERG® Compact systems produce nitrogen with a purity of up to 5.0 or 6.0 at delivery rates of 20 – 100 Nm³/h. All components are combined on a compact platform to form a plug & play system. This ensures easier transport, immediate installation and immediate start-up on site with extremely low power & compressed air consumption.

PROCEEDINGS

The interaction of the NITROBERG® generators with the energy-saving NKat system maximizes the efficiency of nitrogen production. The nitrogen obtained from the NITROBERG® system is enriched with a small amount of hydrogen, cleaned in the NKat catalyst and the N2 purity is increased to up to 6.0. Thanks to our innovative PN KomPact system, you can produce ultra-pure nitrogen with significantly smaller air compressors!

ADVANTAGES:

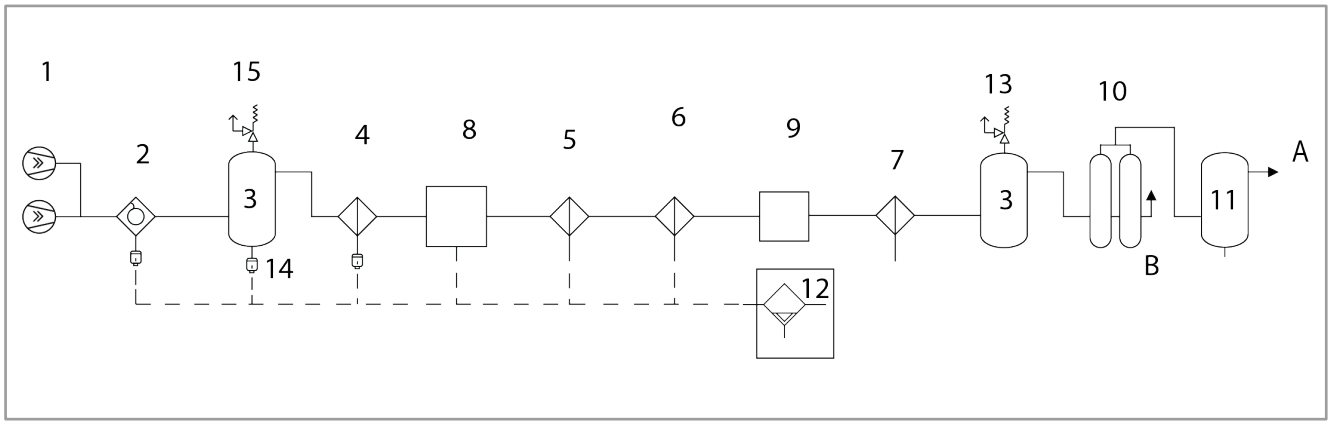
- Plug & Play system - immediately operational
- Increased efficiency, low-maintenance design
- High quality, worldwide service
- Small footprint, easy handling
- NKAT technology
- **Automatic blending Air factor 2.9 at 99.5%** (1 Nm3 N2 = 2.9 Nm3 compressed air)
- Constant measurement of N2 purity and the outlet pressure
- Trend display, recipe management
- Data backup, multilingualism Remote Control, Query & Control, E-mail alert, Industry 4.0

N2 Plant sample installation

1. Screw Compressor
2. Water Separator
3. Compressed air tanks
4. Pre filter
5. Fine filter
6. Super fine filter
7. Dust filter
8. DRYBERG - Refrigeration Dryer
9. Activated Carbon Tower
10. NITROBERG® - PSA Nitrogen Generator
11. Compressed Nitrogen tanks
12. OWAMAT® - Oil / Water Separator
13. Safety valves
14. BEKOMAT®

A. Compressed Nitrogen

B. Oxygen- enriched air outlet




NITROBERG®
NITROBERG® N2
NITROBERG®
NITROBERG® N2

Technical Data of PSA Nitrogen Generator NITROBERG® - Capacity (Nm^3/h)

Model	Nitrogen Purity Quality grade Residual O2(PPM)	97% - -	98% - -	99% 2.0 10000	99.5% 2.5 5000	99.9% 3.0 1000	99.99% 4.0 100	99.995% 4.5 50	99.999% 5.0 10
NITROBERG® 500	N2, Nm^3/h	17.3	14.9	12.6	9.2	5.1	2.8	2.1	1.4
	Comp.air, Nm^3/h	39.8	34.3	32.8	26.7	18.4	14.3	12.0	9.7
	Nitrogen vessel	90	90	90	90	90	90	90	90
	Comp. air vessel	150	150	150	150	150	150	150	150
NITROBERG® 600	N2, Nm^3/h	25.9	22.6	18.1	13.4	7.2	3.9	2.9	2.1
	Comp.air, Nm^3/h	59.6	52.0	47.1	38.9	25.9	19.9	16.5	14.5
	Nitrogen vessel	90	90	90	90	90	90	90	90
	Comp. air vessel	150	150	150	150	150	150	150	150
NITROBERG® 700	N2, Nm^3/h	37.3	33.6	27.3	20.8	11.6	6.1	4.5	3.1
	Comp.air, Nm^3/h	85.8	77.3	71.0	60.3	41.8	31.1	25.7	21.4
	Nitrogen vessel	150	150	150	150	150	150	150	150
	Comp. air vessel	250	250	250	250	250	250	250	250
NITROBERG® 800	N2, Nm^3/h	49.6	44.6	36.3	27.6	15.4	8.2	5.9	4.1
	Comp.air, Nm^3/h	114.1	102.6	94.4	80.0	55.4	41.8	33.6	28.3
	Nitrogen vessel	150	150	150	150	150	150	150	150
	Comp. air vessel	250	250	250	250	250	250	250	250
NITROBERG® 900	N2, Nm^3/h	59.3	53.3	46.1	37.4	23.0	11.6	8.7	5.7
	Comp.air, Nm^3/h	136.4	122.6	119.9	108.5	82.8	59.2	49.6	39.3
	Nitrogen vessel	350	350	350	350	250	250	250	250
	Comp. air vessel	750	750	750	750	500	500	500	500
NITROBERG® 1000	N2, Nm^3/h	83.2	75.2	63.4	51.5	37.2	23.4	16.6	10.6
	Comp.air, Nm^3/h	191.4	173.0	164.8	149.4	122.8	110.0	86.3	67.8
	Nitrogen vessel	750	750	750	750	500	500	500	500
	Comp. air vessel	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
NITROBERG® 1100	N2, Nm^3/h	115.8	97.2	79.2	67.3	47.7	27.6	20.8	14.1
	Comp.air, Nm^3/h	223.6	205.9	195.2	157.4	129.7	108.2	90.2	94.5
	Nitrogen vessel	750	750	750	750	750	750	750	750
	Comp. air vessel	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
NITROBERG® 1200	N2, Nm^3/h	139.9	127.8	107.7	87.5	63.2	39.6	28.2	18.1
	Comp.air, Nm^3/h	321.8	293.9	280.0	253.8	208.6	186.1	146.6	115.8
	Nitrogen vessel	750	750	750	750	750	750	750	750
	Comp. air vessel	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
NITROBERG® 1300	N2, Nm^3/h	212.9	186.1	141.6	118.9	89.5	50.0	38.1	26.2
	Comp.air, Nm^3/h	489.7	428.0	368.2	344.8	295.4	235.0	198.1	167.7
	Nitrogen vessel	1,500	1,500	1,500	1,500	1,000	1,000	1,000	1,000
	Comp. air vessel	2,000	2,000	2,000	2,000	1,500	1,500	1,500	1,500
NITROBERG® 1400	N2, Nm^3/h	304.9	267.3	209.9	181.7	126.7	73.4	55.4	37.6
	Comp.air, Nm^3/h	701.3	614.8	545.7	526.9	418.1	345.0	288.1	240.6
	Nitrogen vessel	2,000	2,000	2,000	2,000	1,500	1,500	1,500	1,500
	Comp. air vessel	3,000	3,000	3,000	3,000	2,000	2,000	2,000	2,000
NITROBERG® 1500	N2, Nm^3/h	367.3	319.8	239.6	198.9	149.5	88.7	66.9	45.8
	Comp.air, Nm^3/h	844.8	735.5	623.0	576.8	493.4	416.9	347.9	293.1
	Nitrogen vessel	3,000	3,000	3,000	3,000	2,000	2,000	2,000	2,000
	Comp. air vessel	4,000	4,000	4,000	4,000	3,000	3,000	3,000	3,000
NITROBERG® 1600	N2, Nm^3/h	441.2	382.9	287.5	238.6	179.6	106.5	81.1	55.1
	Comp.air, Nm^3/h	1,014.8	880.7	747.5	691.9	592.7	500.6	421.7	352.6
	Nitrogen vessel	4,000	4,000	4,000	4,000	3,000	3,000	3,000	3,000
	Comp. air vessel	6,000	6,000	6,000	6,000	4,000	4,000	4,000	4,000
NITROBERG® 1700	N2, Nm^3/h	536.8	462.4	346,5	288.2	224.6	128.4	94.9	64.4
	Comp.air, Nm^3/h	1,234.6	1,063.5	900.9	835.8	741.2	603.5	493.5	412.2
	Nitrogen vessel	4,000	4,000	4,000	4,000	3,000	3,000	3,000	3,000
	Comp. air vessel	6,000	6,000	6,000	6,000	4,000	4,000	4,000	4,000
NITROBERG® 1800	N2, Nm^3/h	694.9	606.8	459.6	378.8	295.8	167.2	122.6	85.1
	Comp.air, Nm^3/h	1,598.3	1,395.6	1,195.0	1,098.5	976.1	785.8	637.5	544.6
	Nitrogen vessel	5,000	5,000	5,000	5,000	3,000	3,000	3,000	3,000
	Comp. air vessel	8,000	8,000	8,000	8,000	6,000	6,000	6,000	6,000
NITROBERG® 1900	N2, Nm^3/h	894.6	777.4	575.7	478.6	359.7	213.8	161.6	109.8
	Comp.air, Nm^3/h	2,057.6	1,788.0	1,496.8	1,387.9	1,187.0	1,004.9	840.3	702.7
	Nitrogen vessel	6,000	6,000	6,000	6,000	4,000	4,000	4,000	4,000
	Comp. air vessel	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
NITROBERG® 2000	N2, Nm^3/h	1,057.70	921.1	689.4	572.8	435.3	259.8	192.6	133.6
	Comp.air, Nm^3/h	2,432.7	2,118.5	1,792.4	1,661.1	1,436.5	1,221.1	1,001.5	8,55.0
	Nitrogen vessel	6,000	6,000	6,000	6,000	4,000	4,000	4,000	4,000
	Comp. air vessel	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

*All values apply at 7 bar inlet pressure and 20ºC ambient temperature.

*If the bigger size or customized plant is needed, please contact us.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