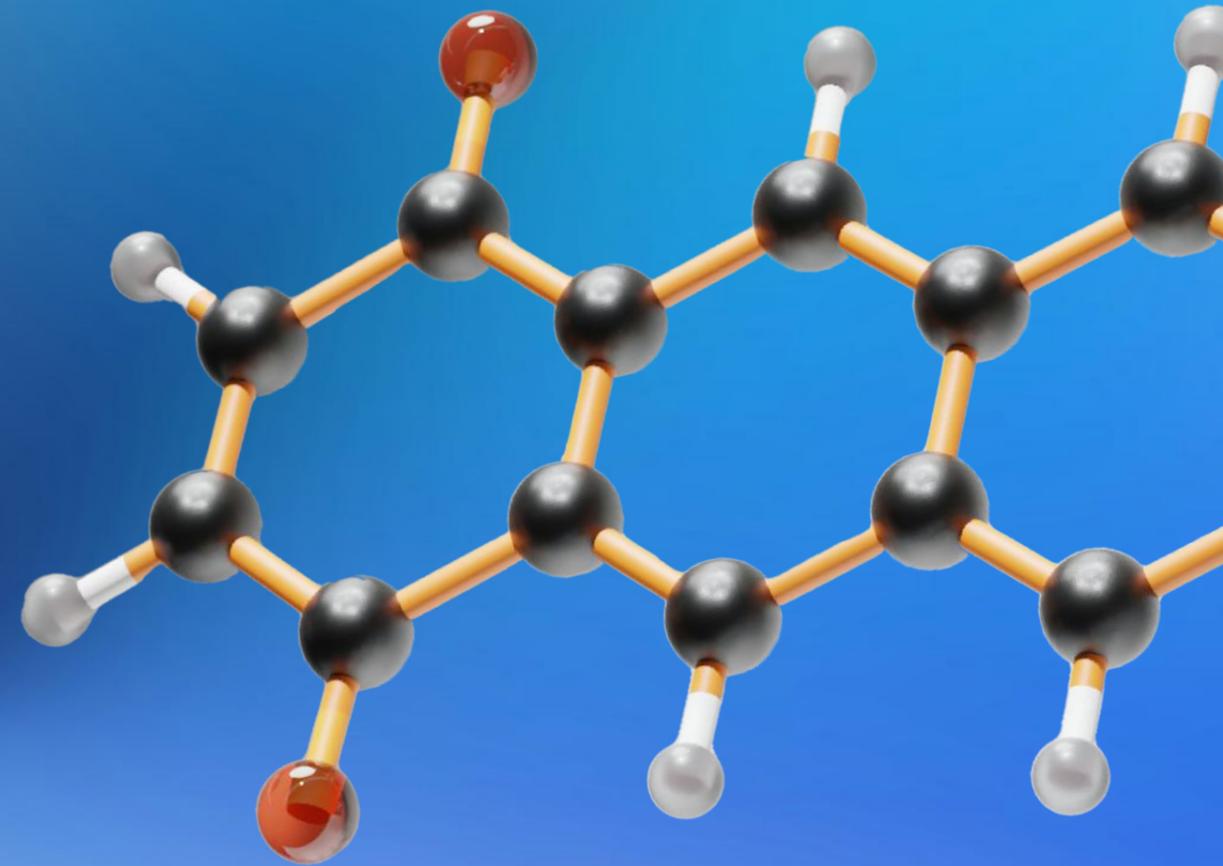
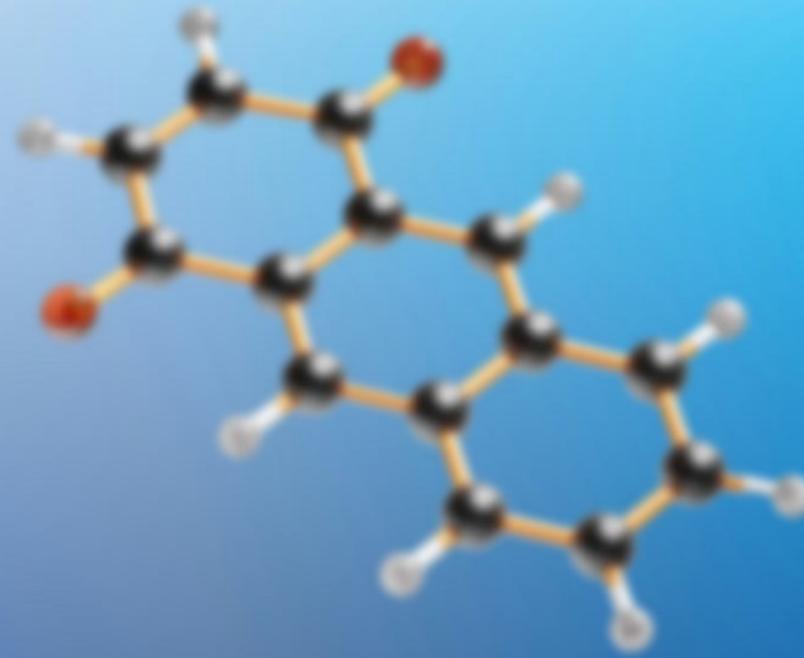


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GAS EQUIPMENT MANUFACTURING EXPERT
BEST ONE-STOP SOLUTION FOR GAS SYSTEMS

OXYGEN GENERATION SYSTEM

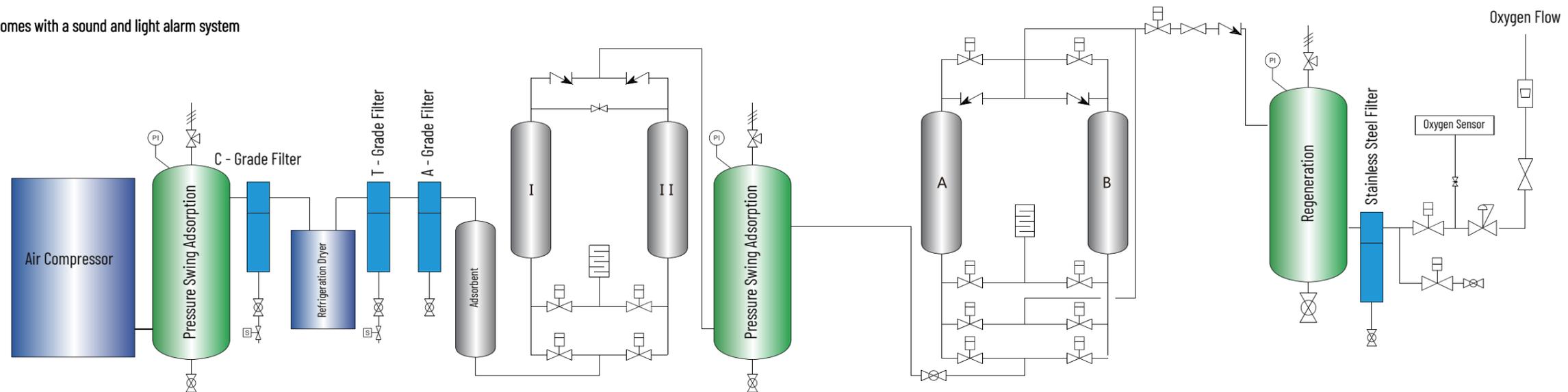
The PSA oxygen generator system uses clean compressed air as raw material and high-quality zeolite molecular sieve as the adsorbent to produce oxygen from the air under a certain pressure. The purified and dried compressed air is adsorbed under pressure and desorbed under reduced pressure in the adsorber. Due to the aerodynamic effect, the diffusion rate of nitrogen in the pores of the zeolite molecular sieve is much greater than that of oxygen. Nitrogen is preferentially adsorbed by the zeolite molecular sieve, and oxygen is enriched in the gas phase to form finished oxygen. Then the pressure is reduced to normal pressure, and the adsorbent desorbs the adsorbed nitrogen and other impurities to achieve regeneration. Generally, two adsorption towers are set up in the system. One tower adsorbs and produces oxygen, and the other tower desorbs and regenerates. The opening and closing of the pneumatic valve is controlled by the PLC program controller to cycle the two towers alternately, thereby obtaining oxygen with higher purity (93 ± 2%).

MAIN SPECIFICATIONS

- Oxygen capacity: 1–200Nm³/hr (under standard conditions)
- Purity: 93% ± 2% (national standard oxygen content)
- Pressure: normal 0.1–0.55 Mpa (gauge pressure is stable and adjustable)
- Oxygen dew point: (normal pressure dew point)

TECHNICAL FEATURES

- Online monitoring and display of oxygen purity, flow rate and pressure
- Fast start-up speed, qualified oxygen can be provided within 30 minutes
- Fully automatic control, enabling unattended operation
- Overall skid-mounted, small footprint, portable installation
- High purity, capable of purifying 99.5% of aviation oxygen
- Stable operation and low failure rate
- Equipment has low energy consumption and low noise
- The equipment comes with a sound and light alarm system



MAIN SPECIFICATIONS

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter	(Mpa) Outlet pressure
HDFO-3	93 ± 2%	3	DN15	DN15	0.1–0.55
HDFO-5	93 ± 2%	5	DN15	DN15	0.1–0.55
HDFO-10	93 ± 2%	10	DN25	DN25	0.1–0.55
HDFO-15	93 ± 2%	15	DN40	DN25	0.1–0.55
HDFO-20	93 ± 2%	20	DN40	DN25	0.1–0.55
HDFO-25	93 ± 2%	25	DN40	DN25	0.1–0.55
HDFO-30	93 ± 2%	30	DN40	DN25	0.1–0.55
HDFO-40	93 ± 2%	40	DN50	DN40	0.1–0.55
HDFO-50	93 ± 2%	50	DN50	DN40	0.1–0.55
HDFO-60	93 ± 2%	60	DN50	DN40	0.1–0.55
HDFO-70	93 ± 2%	70	DN65	DN40	0.1–0.55
HDFO-80	93 ± 2%	80	DN65	DN40	0.1–0.55
HDFO-90	93 ± 2%	90	DN65	DN40	0.1–0.55
HDFO-100	93 ± 2%	100	DN65	DN50	0.1–0.55
HDFO-110	93 ± 2%	110	DN65	DN50	0.1–0.55
HDFO-120	93 ± 2%	120	DN80	DN50	0.1–0.55
HDFO-130	93 ± 2%	130	DN80	DN50	0.1–0.55
HDFO-140	93 ± 2%	140	DN80	DN50	0.1–0.55
HDFO-150	93 ± 2%	150	DN100	DN50	0.1–0.55
HDFO-160	93 ± 2%	160	DN100	DN50	0.1–0.55
HDFO-170	93 ± 2%	170	DN100	DN50	0.1–0.55
HDFO-180	93 ± 2%	180	DN100	DN65	0.1–0.55
HDFO-190	93 ± 2%	190	DN100	DN65	0.1–0.55
HDFO-200	93 ± 2%	200	DN100	DN65	0.1–0.55

To provide you with the best solution



To provide you with the best solution: aquaculture industry, cutting industry, ozone supporting, sewage treatment, glass blowing, paper industry, wood carbonization, copper pipe welding, biological fermentation, hotel diffusion oxygen supply, cell culture, high altitude oxygen production, ore treatment, carbon sintering, metallurgy and other industries;



Twin Tower Oxygen Generator



Four Tower Oxygen Generator



Box-type Oxygen Generator



Oxygen Filling Machine



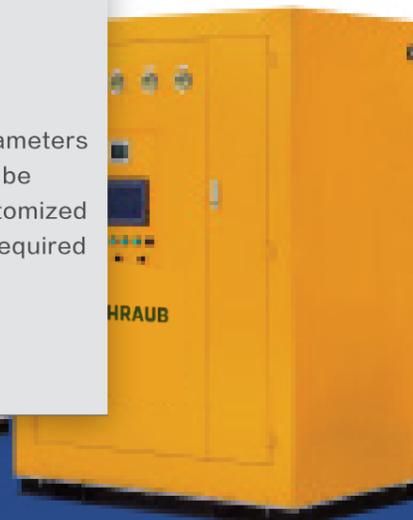
99.5% HIGH-PURITY OXYGEN

Molecular sieve oxygen production system is mainly composed of air compression and purification system, the first stage PSA separation device, the second stage PSA purification device, control device, monitoring and alarm device. The operation process of the whole system is completely controlled by PLC, which can realize the automatic operation of one-key boot.

TECHNICAL CHARACTERISTICS

- Overall design, skid box structure, mobile, scientific and reasonable layout, small footprint, convenient and fast on-site installation, suitable for indoor, outdoor, and even in the field. Various sites, environmental compatibility is very strong.
- Normal temperature separation, the whole process is a physical process of normal temperature adsorption, high safety.
- Mature technology, high reliability, high efficiency of adsorbent utilization.
- Stable operation, simple structure, parts selected international well-known brands, high quality, long life, less maintenance.
- Advanced technology, energy saving and consumption reduction, according to customer requirements, product oxygen concentration can be selected: 93% ± 2% or product oxygen concentration greater than 15%
- Simple operation, fast oxygen production, automatic control of the whole process, boot within 3–5 minutes up to 93% ± 2% oxygen purity, up to 99% within 15 minutes. Oxygen concentration, within 20 minutes can reach 99.5% oxygen concentration, to meet the requirements of rapid gas use.
- Medical grade, oxygen outlet equipped with medical grade precision filter and bactericidal filter, to ensure the generation of oxygen, without any pollutants.
- On-site oxygen storage, reliable oxygen supply. The system can be configured with oxygen booster device, high pressure oxygen cylinder or bus bar device to reserve oxygen during oxygen low period, which can achieve peak oxygen supply, temporary maintenance oxygen supply, short-term power off oxygen supply and other functions, providing a strong guarantee for continuous and reliable supply of high-quality medical oxygen.

Model	Purity	Flow	Outlet Pressure	Note
HDHO-5	99.5%	5	0.1-0.4	All parameters can be customized as required
HDHO-10	99.5%	10	0.1-0.4	
HDHO-20	99.5%	20	0.1-0.4	
HDHO-25	99.5%	25	0.1-0.3	
HDHO-30	99.5%	30	0.1-0.3	
HDHO-40	99.5%	40	0.1-0.3	
HDHO-50	99.5%	50	0.1-0.2	
HDHO-60	99.5%	60	0.1-0.2	
HDHO-80	99.5%	80	0.1-0.2	
HDHO-100	99.5%	100	0.1-0.2	



PLATEAU DIFFUSIVE OXYGEN CONCENTRATOR

The plateau environment is a challenge to human survival and has a negative impact on the healthy life of personnel. The company is committed to improving the health of people in the plateau area, simulating the low-altitude environment, and improving the oxygen concentration in the air in the region. After oxygen-rich ventilation, the simulated indoor altitude is below 2400m (including), and the indoor air oxygen concentration is increased by about 4–6%. Under this simulated altitude, most of the altitude sickness can be eliminated, to ensure the health of personnel and improve work efficiency, so the implementation of oxygen supply engineering is very necessary.

THE MAIN TECHNICAL CHARACTERISTICS OF SCHRAUB PLATEAU DISPERSION

1. oxygen supply mode: According to various data show that in order to ensure health and life safety, indoor oxygen enrichment concentration increased in 4–6% is a suitable choice;
2. oxygen supply time: oxygen supply time and working time is the same;
3. configure the oxygen terminal: the terminal is displayed as the room oxygen concentration (concentration is displayed in Chinese) and can be remote controlled and manually adjusted;
4. the terminal comes with oxygen concentration detection function;
5. intelligent control: can set the concentration value, according to the indoor oxygen concentration automatically start and stop;
6. timing function: can set the running time. timing to automatic shutdown function;
7. oxygen concentration monitoring: equipped with oxygen sensors, real-time online monitoring of indoor air oxygen concentration, to ensure safety;
8. the whole system is stable, low failure rate;



MAIN TECHNICAL INDICATORS

- Oxygen Capacity: 1–200Nm³/hr (under standard condition)
- Purity: 93% ± 2% (standard oxygen content)
- Pressure: conventional 0.1–0.55Mpa (adjustable gauge pressure stability)
- Oxygen dew point: –40t (atmospheric dew point)



Main applications: hotels, guesthouses, dormitories, Office buildings, residential buildings, plateau tunnel construction sites, border posts, gymnasiums, sports oxygen bars, KTV and other places

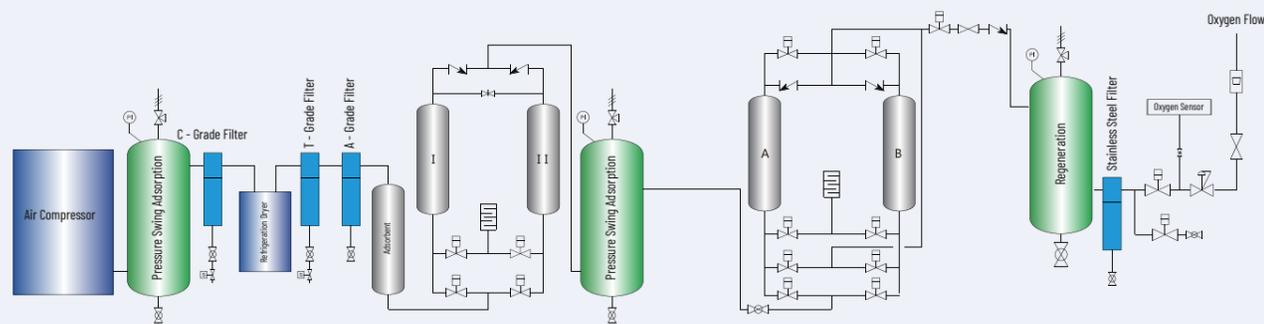
NITROGEN GENERATOR



ONE-STOP SOLUTION FOR NITROGEN SYSTEMS

ADVANCED PROCESS REDUCES ENERGY CONSUMPTION AND PRODUCES HIGH-PURITY NITROGEN

Pressure swing adsorption nitrogen generator (referred to as PSA nitrogen generator) is a device that uses molecular sieve as adsorption material and produces nitrogen based on the principle of pressure swing adsorption. The nitrogen generator is composed of three systems: compressed air system, air purification system, PSA nitrogen generator system, etc.;



PRODUCT PRINCIPLE

It uses clean compressed air as raw material and uses carbon molecular sieve as the adsorbent. According to the difference in the adsorption amount of oxygen and nitrogen in the air on the surface of the carbon molecular sieve and the difference in the diffusion rate of oxygen and nitrogen in the carbon molecular sieve, it is controlled by a programmable controller. The opening and closing of the programmable valve realizes the process of pressure adsorption and decompression desorption, completes the separation of oxygen and nitrogen, and obtains nitrogen of the required purity.

MAIN SPECIFICATIONS

- Nitrogen flow rate: 1–3000Nm³/hr
- Purity: 95%–99.9995%
- Pressure: 0–0.65 Mpa adjustable (regular), other pressures can be realized according to requirements
- Normal pressure dew point: (normal)

TECHNICAL FEATURES

- High nitrogen purity, up to 99.9995%
- Fast start-up speed, qualified nitrogen can be provided within 30 minutes
- Nitrogen purity, flow, and pressure can be monitored and displayed online
- Fully automatic control, enabling unattended operation
- Overall skid-mounted, small footprint, portable installation
- Pressure and dew point can be customized on demand, up to –700

APPLICATION

Petrochemical industry, plastic products, petroleum storage tanks and container replacement and cleaning, pipeline purging, oil tanker platforms, rubber packaging and tire production protection, rubber paint, rosin, resin protective gas, synthetic fiber drawing, nitrogen filling and anti-oxidation, dry quenching Coking, desulfurization, bright annealing, powder sintering, laser cutting, reflow soldering, laser welding, photovoltaic industry, 3D printing, lithium batteries, chromatography, mass spectrometer, coal mine, semiconductor chip, pharmaceutical raw materials, drug nitrogen-filled packaging and transportation, cosmetics, charging Nitrogen controlled storage of food, granaries, etc.





INTEGRATED SKID-MOUNTED NITROGEN GENERATOR



CASE TYPE NITROGEN GENERATOR EQUIPMENT



TRAILER TYPE NITROGEN GENERATOR

95% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD95-1	95%	1	DN15	DN15
HDFD95-5	95%	5	DN15	DN15
HDFD95-10	95%	10	DN15	DN15
HDFD95-20	95%	20	DN20	DN15
HDFD95-30	95%	30	DN20	DN25
HDFD95-40	95%	40	DN20	DN25
HDFD95-50	95%	50	DN25	DN25
HDFD95-100	95%	100	DN32	DN40
HDFD95-120	95%	120	DN40	DN40
HDFD95-150	95%	150	DN40	DN50
HDFD95-200	95%	200	DN50	DN50
HDFD95-500	95%	500	DN65	DN80
HDFD95-800	95%	800	DN100	DN100
HDFD95-1000	95%	1000	DN100	DN100
HDFD95-2000	95%	2000	DN125	DN100
HDFD95-3000	95%	3000	DN125	DN125



99% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD99-1	99%	1	DN15	DN15
HDFD99-5	99%	5	DN15	DN15
HDFD99-10	99%	10	DN15	DN15
HDFD99-20	99%	20	DN20	DN15
HDFD99-30	99%	30	DN20	DN25
HDFD99-40	99%	40	DN20	DN25
HDFD99-50	99%	50	DN32	DN25
HDFD99-100	99%	100	DN32	DN40
HDFD99-120	99%	120	DN40	DN40
HDFD99-150	99%	150	DN40	DN40
HDFD99-200	99%	200	DN50	DN40
HDFD99-500	99%	500	DN80	DN40
HDFD99-800	99%	800	DN100	DN80
HDFD99-1000	99%	1000	DN100	DN100
HDFD99-2000	99%	2000	DN125	DN100
HDFD99-3000	99%	3000	DN125	DN125



99.5% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD99.5-1	99.5%	1	DN15	DN15
HDFD99.5-5	99.5%	5	DN15	DN15
HDFD99.5-10	99.5%	10	DN15	DN15
HDFD99.5-20	99.5%	20	DN20	DN15
HDFD99.5-30	99.5%	30	DN20	DN25
HDFD99.5-40	99.5%	40	DN20	DN25
HDFD99.5-50	99.5%	50	DN25	DN40
HDFD99.5-100	99.5%	100	DN32	DN40
HDFD99.5-120	99.5%	120	DN40	DN40
HDFD99.5-150	99.5%	150	DN50	DN40
HDFD99.5-200	99.5%	200	DN80	DN40
HDFD99.5-500	99.5%	500	DN80	DN40
HDFD99.5-800	99.5%	800	DN100	DN80
HDFD99.5-1000	99.5%	1000	DN125	DN100
HDFD99.5-2000	99.5%	2000	DN125	DN100
HDFD99.5-3000	99.5%	3000	DN125	DN125

99.9% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD99.9-1	99.9%	1	DN15	DN15
HDFD99.9-5	99.9%	5	DN15	DN15
HDFD99.9-10	99.9%	10	DN25	DN15
HDFD99.9-20	99.9%	20	DN25	DN25
HDFD99.9-30	99.9%	30	DN32	DN25
HDFD99.9-40	99.9%	40	DN32	DN25
HDFD99.9-50	99.9%	50	DN40	DN25
HDFD99.9-100	99.9%	100	DN50	DN40
HDFD99.9-120	99.9%	120	DN50	DN40
HDFD99.9-150	99.9%	150	DN65	DN40
HDFD99.9-200	99.9%	200	DN65	DN40
HDFD99.9-500	99.9%	500	DN100	DN80
HDFD99.9-800	99.9%	800	DN125	DN80
HDFD99.9-1000	99.9%	1000	DN125	DN100
HDFD99.9-2000	99.9%	2000	DN125	DN100
HDFD99.9-3000	99.9%	3000	DN125	DN100

99.999% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD99.999-1	99.999%	1	DN15	DN15
HDFD99.999-5	99.999%	5	DN25	DN25
HDFD99.999-10	99.999%	10	DN40	DN25
HDFD99.999-20	99.999%	20	DN40	DN40
HDFD99.999-30	99.999%	30	DN40	DN40
HDFD99.999-40	99.999%	40	DN40	DN40
HDFD99.999-50	99.999%	50	DN50	DN40
HDFD99.999-100	99.999%	100	DN65	DN80
HDFD99.999-120	99.999%	120	DN100	DN80
HDFD99.999-150	99.999%	150	DN100	DN80
HDFD99.999-200	99.999%	200	DN100	DN80
HDFD99.999-500	99.999%	500	DN100	DN80
HDFD99.999-800	99.999%	800	DN125	DN80
HDFD99.999-1000	99.999%	1000	DN125	DN80
HDFD99.999-2000	99.999%	2000	DN125	DN100
HDFD99.999-3000	99.999%	3000	DN125	DN100

99.99% NITROGEN PURITY

HDFD MOLECULAR SIEVE NITROGEN GENERATOR

Model	Purity	(Nm ³ /hr) Capacity	DN (mm) Nominal inlet diameter	DN (mm) Nominal outlet diameter
HDFD99.99-1	99.99%	1	DN15	DN15
HDFD99.99-5	99.99%	5	DN15	DN15
HDFD99.99-10	99.99%	10	DN25	DN15
HDFD99.99-20	99.99%	20	DN25	DN25
HDFD99.99-30	99.99%	30	DN32	DN25
HDFD99.99-40	99.99%	40	DN32	DN25
HDFD99.99-50	99.99%	50	DN40	DN40
HDFD99.99-100	99.99%	100	DN50	DN40
HDFD99.99-120	99.99%	120	DN50	DN40
HDFD99.99-150	99.99%	150	DN65	DN40
HDFD99.99-200	99.99%	200	DN80	DN40
HDFD99.99-500	99.99%	500	DN100	DN80
HDFD99.99-800	99.99%	800	DN125	DN80
HDFD99.99-1000	99.99%	1000	DN125	DN100
HDFD99.99-2000	99.99%	2000	DN125	DN100
HDFD99.99-3000	99.99%	3000	DN125	DN100

AMMONIA DECOMPOSITION HYDROGEN PRODUCTION UNIT

PROCESS INTRODUCTION

1. $2\text{NH}_3 \rightarrow 3\text{H}_2 + \text{N}_2$
2. The HDAQ series of ammonia decomposition hydrogen generation units uses liquid ammonia as the raw material, and the gas is decomposed under the action of a catalyst to produce a mixture of hydrogen at 75%, and nitrogen at 25%. The purity of the hydrogen gas can be further increased to 99.999% through the process of pressure swing adsorption.

STRUCTURE INFORMATION

The U-shaped or star-shaped monolithic cracking furnace tubes make the gas flow uniform in all parts of the furnace, resulting in equal service life and maximum utilization of heat efficiency through the use of an external hanging wire structure. The heat exchanger adopts a coil structure, which has a larger heat exchange area to ensure the full utilization of heat efficiency, and at the same time, it guarantees a long service life.

UNIQUE MATERIAL

The furnace material is a rare high-temperature heat-resistant alloy material, which ensures a long service life in high-temperature and highly corrosive environments. The heating element is made of nickel-chromium alloy with excellent mechanical properties at high temperatures, and its surface load is determined to be within a reasonable range. The core insulation material aluminum silicate fiber is formed by vacuum suction filtration and reinforced on the surface more than five times, so it is light and has high strength; at the same time, its unique structure determines that the material coefficient is 15% lower than similar products.

TECHNICAL FEATURES

- The principle is simple, the structure is compact, the area is small, and the operation is easy;
- Low investment, low energy consumption and low operating costs;
- Wide range of applications, meeting most hydrogen usage needs;
- The core components of the furnace body, furnace bladder and heating wire are optimized and have a three-year warranty under normal working conditions;
- Used in conjunction with a gas purification device, high purity protective gas can be obtained.

Applications: oil-free bearings, powder metallurgy, bright annealing, sintering of electronic materials, sintering of high-temperature refractory materials, chemical industry, tin bath protective gas in float glass production, ceramic industry

CIRCULAR FURNACE AMMONIA DECOMPOSITION EQUIPMENT



SQUARE AMMONIA DECOMPOSITION HYDROGEN PRODUCTION UNIT



Model	Capacity	Liquid Hydrogen Consumption	Working Temperature	Catalyst	Voltage	Power	Cooling Water Consumption
HDAQ-5/FC-5	5	2	800~850	Nickel catalyst	220	6	0
HDAQ-10/FC-10	10	4	800~850	Nickel catalyst	380	12	0
HDAQ-20/FC-20	20	8	800~850	Nickel catalyst	380	24	0
HDAQ-30/FC-30	30	12	800~850	Nickel catalyst	380	36	0
HDAQ-40/FC-40	40	16	800~850	Nickel catalyst	380	50	0
HDAQ-50/FC-50	50	20	800~850	Nickel catalyst	380	70	3
HDAQ-60/FC-60	60	24	800~850	Nickel catalyst	380	55	3
HDAQ-70/FC-70	70	28	800~850	Nickel catalyst	380	66	3
HDAQ-80/FC-80	80	32	800~850	Nickel catalyst	380	72	3
HDAQ-100/FC-100	100	39	800~850	Nickel catalyst	380	88	5
HDAQ-150/FC-150	150	59	800~850	Nickel catalyst	380	132	5
HDAQ-200/FC-200	200	77	800~850	Nickel catalyst	380	176	5
HDAQ-300/FC-300	300	120	800~850	Nickel catalyst	380	264	5
HDAQ-500/FC-500	500	200	800~850	Nickel catalyst	380	420	9

LIQUID AMMONIA VAPORIZER

The principle of ammonia vaporizer is a device that vaporizes liquid ammonia into gaseous ammonia under the heating of warm water vapor in the water leg. In brief, it is a process in which liquid ammonia with a boiling point of -33°C is heated by warm water vapor in the water leg and vaporized to become gaseous ammonia; the heating is indirect (steam heating type, hot water heating type, high temperature heat exchange type); the structure of the vaporizer is simple and reliable, and the operation effect is good and the output pressure is stable; the automatic carry position of the vaporizer can be set at will, Accessories include an ammonia pressure gauge, an ammonia safety valve, a liquid level gauge, a sewage discharge room (thermometer optional), etc.



HDAQ SERIES PRESSURE SWING ADSORPTION HYDROGEN EXTRACTION DEVICE

PROCESS INTRODUCTION

The hydrogen purification device is a device used in conjunction with the ammonia decomposition gas generation device. It can also be a thermal regeneration drying and purification device for other gases. It can remove the moisture and residual content in the ammonia decomposition mixed gas, and can deeply dehydrate and dry hydrogen, helium, oxygen and other gases.

PROCESS FLOW

The raw material gas enters a set of adsorbers, is adsorbed and dried and sent to the point of use through the filter. Take a trace amount of product gas and regenerate the adsorbed saturated molecular sieves in another set of adsorbers at a temperature of $250\text{ }^{\circ}\text{C}$ – $300\text{ }^{\circ}\text{C}$. The two sets of adsorbers work and regeneration is performed alternately. Continuous and stable product gas can be obtained.

THE MAIN TECHNICAL PARAMETERS

Gas processing volume: $1\text{--}3000\text{Nm}^3/\text{h}$,
Pressure 0.8Mpa
Gas purity 99.9995%
Dew point $-60\text{ }^{\circ}\text{C}$

TECHNICAL FEATURES

1. The process is simple and low-cost. Because of the use of atmospheric pressure thermal regeneration process, the process of high-pressure purification is eliminated, it can also remove residual ammonia and water impurities.
2. Simple structure and reliable performance.
3. Because of the double tower adsorption process and the long adsorption drying and regeneration cycle, continuous high-purity gas can be obtained.
4. The dew point of the product gas is good and stable, and can be detected online by a dew point meter.

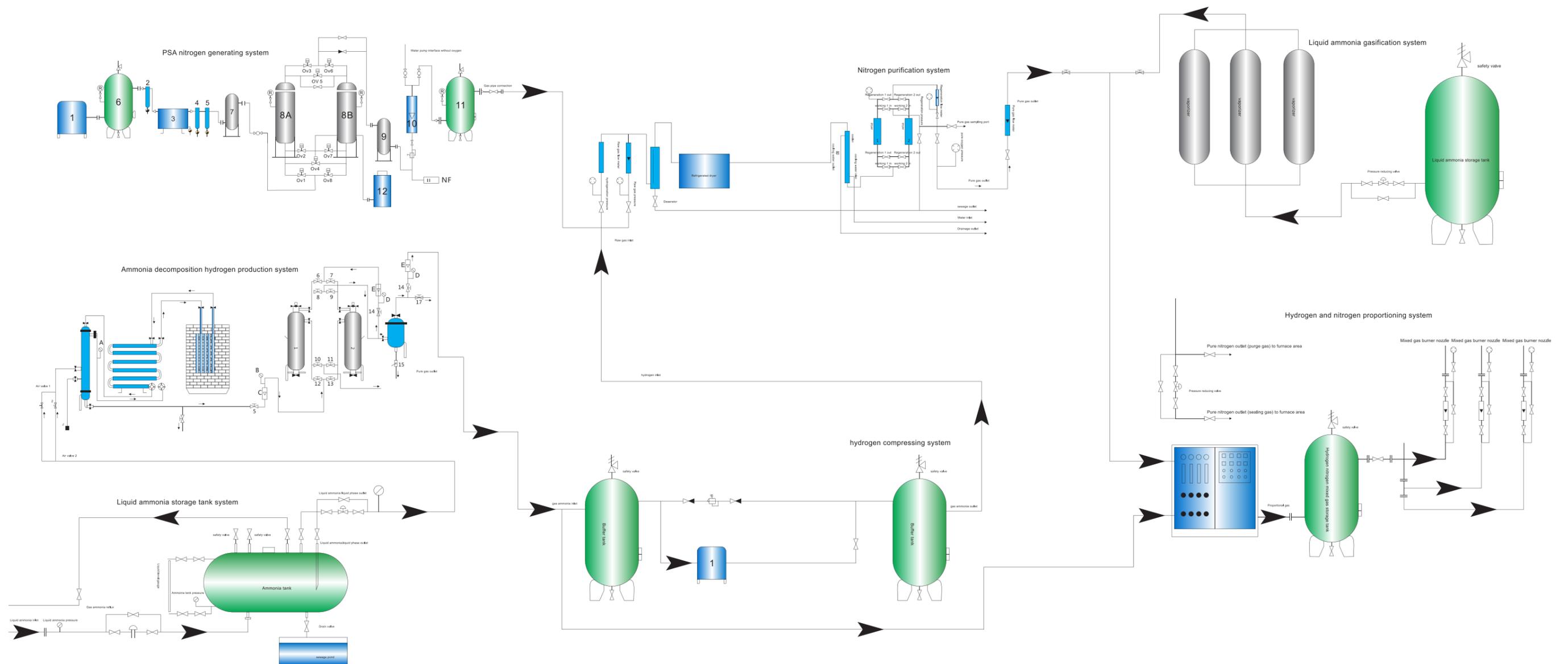
APPLICATION

Pipes, wires and plates used in the ferrous metallurgical industry. Annealing process of precision mechanical parts such as bearings in the machinery industry. Used in float glass production lines and in powder metallurgy sintering processes. Used in chemical hydrogenation reduction process and nanomaterial processing.



PROCESS FLOW DIAGRAM OF PROTECTIVE GAS STATION SYSTEM

The protective gas station is composed of a pressure swing adsorption (PSA) nitrogen production device, a nitrogen purification device, an ammonia decomposition hydrogen production device, a liquid ammonia storage tank device, a hydrogenation, deoxygenation and boosting device, a hydrogen–nitrogen proportioning device, and a liquid ammonia storage device.. It can adjust the system configuration of the protective gas station according to the requirements of the on–site process. Can be easily combined. To reduce customer investment fees and usage costs. It is mainly used for hot–dip galvanizing, nickel plating and copper processing of powder metallurgy steel strips.



HYDROGEN NITROGEN RATIO DEVICE

PRINCIPLE

The nitrogen and hydrogen proportioning device mainly controls the flow rate of hydrogenation or nitrogen addition to achieve the purpose of mixing hydrogen and nitrogen in a certain proportion. Under normal circumstances, it is to control the flow of gas with a small content. A nitrogen and hydrogen proportioning device mainly consists of a nitrogen flow meter, a hydrogen flow meter, a mixed gas flow meter, a hydrogen analyzer, a PID controller, a flow regulating valve, and a pressure gauge, mixing tank, chassis, etc.

The hydrogen analyzer measures the hydrogen content in the mixing tank. The hydrogen analyzer converts the measured content into a 4 – 20mA signal and transmits it to the PID controller. The PID controller converts this signal into a mechanical signal to the flow control valve. Issue anaction command to direct the opening of the flow regulating valve. The opening of the flow regulating valve determines the hydrogen content in the mixing tank. It is continuously adjusted to achieve the purpose of mixing hydrogen and nitrogen in a certain proportion.

PRODUCT DESIGN FEATURES

- (1) It is equipped with an audible and visual alarm device for the upper and lower limits of hydrogen excess.
- (2) When the online hydrogen content exceeds the set index, the hydrogenation pipeline will be automatically cut off.
- (3) There is a manual hydrogenation pipeline, which can be used under special circumstances to ensure the operation of the entire device.
- (4) Designed with ultra-high and low-pressure sound and light alarm devices.

RX GAS GENERATOR

The gas production principle of the RX gas generator is to mix natural gas and air in a certain proportion, and then prepare RX gas through an externally heated reaction tank equipped with a catalyst. The main components of the RX gas generated after the raw gas is mixed, cracked, cooled and other processes are CO, 1-42, N2 and trace amounts of H2O, CO2, CH4, O2, etc. The RX gas generator structure of Suzhou Hengda Purification Equipment Co., Ltd. consists of the following parts: raw gas supply and mixing system, cracking device, product gas cooling device, RX gas output system, detection instruments and control system.



HYDROGEN NITROGEN RATIO DEVICE



RX GAS GENERATOR

ACCESSORY



Filter element



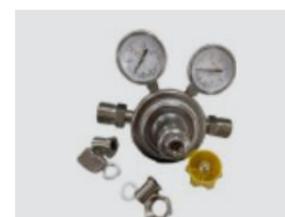
Hengda Filter



Ammonia decomposition furnace



U-shaped furnace



Pressure reducing valve



Dew point meter



Oxygen (nitrogen) analyzer



Micro oxymeter



Palladium catalyst



5A molecular sieve



13X molecular sieve



activated carbon



carbon molecular sieve



Nickel catalyst



silicon controlled



Brass BURKERT Valve



Fisher pressure regulating valve



solid state relay



Heater

PRE-SALE

Our company will arrange professional technical personnel to conduct actual inspections at the customer site, and the sales staff will provide scientific and reasonable layout solutions based on the specific area, environmental conditions and customer needs of the customer site.

ON-SALE

The company arranges experienced installation engineers to go to the site for installation, commissioning and training, including equipment principles, structure and functions, daily maintenance, equipment use and solutions. Enable the user's staff to have the ability to operate, maintain and troubleshoot independently.

AFTER SALES

1. Regular return visits, Hengda has a professional technical team to provide you with the most professional support and services at any time.
2. Provide 24-hour hotline support. Respond within 2 hours after receiving the user's reply, and the equipment provides lifetime free technical consultation.
3. All equipment will be inspected and tested before shipment to ensure they are running well. Hengda provides a 1-year warranty for the device. During the warranty period, any failure caused by the quality of the complete machine and accessories will be repaired and accessories replaced free of charge by our company. And if the warranty period is exceeded, we will provide the materials, accessories and labor services required for daily care and maintenance at cost prices.



 **SCHRAUB**

If you are looking for, a professional manufacturer of gas systems

Please call Schraub: +62 851 6944 0331