



1kw Nitrogen Purification System For Nitrogen Generator For Atmosphere Vacuum Furnace

Our Product Introduction

Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: ISO9001, CE, BV, SGS, TUV, ASME, GOST,NB,NR ETC
- Model Number: OSP-C
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 30-45 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



Product Specification

- Purity: 99.999-99.9999%
- Flow: 5-5000Nm3/hr
- Pressure: 5-8 Bar(g)
- Application: Food, Heat Treatment, Electron, Pharmacy, Steel, Chemical, Oil And Gas Field
- Material: Stainless Steel
- Certificates: CE, ISO, ASME, GOST, KGS, NB Etc
- Pipeline: Seamless Steel
- Working Duration: 24 Hrs Non-stop
- Operation Mode: Fully Automatic
- Instrument: Included
- Oxygen Anaylzer: Included
- Display: HMI
- PLC: Siemens S7-1200
- Temperature Controller: Schneider

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Product Description

Nitrogen 99.9999% Plant for Atmosphere furnace/vacuum furnace Bright quenching used for steel/cooper industry

Product Name: Nitrogen Purifier Via Carbon DeOxo Method

I Main Technical Parameters :

This equipment is suitable for high purity nitrogen customers, especially for techniques exercising strict control over oxygen and hydrogen in magnetic materials and electronic industries.

I Purity of nitrogen: 99.9995% ($O_2 \leq 5\text{ppm}$, $CO_2 \leq 5\text{ppm}$)

Handling capacity of air flow: 10~500Nm³/h

Purity of raw nitrogen: $\geq 99.9\%$

Dew point: $\leq -60^\circ\text{C}$

Outlet pressure of nitrogen: 0.1~0.6Mpa

I Main Characters:

- 1, The stability is good and the oxygen content is always below 5ppm at any time.
- 2, The N₂ purity is high and keep long time stable at 99.9995%.
- 3, The reliability is excellent and the production is in strict accordance with the ISO9001 International Standard.

Application Range:

Metallurgy: For anneal protection, agglomeration protection, furnace washing and blowing ,etc. Used in fields such as metal heating treatment, powder metallurgy, magnetic material,copper process, metallic mesh, galvanized wire, semiconductor, etc.

Chemical and new material industries: For chemical material gas, pipeline blowing, gas replacement,gas protection, product transport, etc. Used in fields such as chemical ,urethane elastic fiber, rubber, plastic, tyre, polyurethane, biological technology, intermediate, etc.

Electronic industry: For encapsulation, agglomeration, anneal, deoxygenation, storage of electronic products. Used in fields such as peak welding, circumfluence welding, crystal, piezoelectricity, electronic porcelain, electronic copper tape, battery, electronic alloy material, etc.



TECHNICAL SPECIFICATIONS OF OSP-C

NO	Model	Capacity (Nm ³ /hr)	Install Power (KW)	Inlet (mm)	Outlet (mm)	Weight (KG)	Dimensions (L*W*H mm)
1	OSP-H-100	100	39	DN25	DN25	800	Customized
2	OSP-H-120	120	43.5	DN32	DN32	900	
3	OSP-H-150	150	52.5	DN32	DN32	1200	
4	OSP-H-180	180	63	DN40	DN40	1500	
5	OSP-H-200	200	63	DN40	DN40	1700	
6	OSP-H-250	250	87	DN40	DN40	1950	
7	OSP-H-300	300	87	DN40	DN40	2350	
8	OSP-H-350	350	108	DN50	DN50	2500	
9	OSP-H-400	400	114	DN50	DN50	2800	
10	OSP-H-450	450	120	DN50	DN50	3200	
11	OSP-H-500	500	135	DN65	DN65	3500	

Design reference:

- Crude Nitrogen : purity @ 99.9% pressure @ 7 bar (g)
- Nitrogen quality 1.2.1 according to ISO 8573-1:2010
- Designed working temperature max 350 °C
- Dew point at Nitrogen outlet - 70 °C
- O₂ ppm :< 3 ppm
- H₂ free

Notes:

- ※ OSP-C models suitable for strict requirements for hydrogen & oxygen content field
- ※ Dimensions will be customized
- ※ Other special requirements as per site conditions



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