



## 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: 10~500Nm<sup>3</sup>/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 N<sub>2</sub> 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 <sup>3</sup> /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
- O<sub>2</sub> ppm :< 3 ppm
- H<sub>2</sub> 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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