

## High Purity Psa N2 Plant Nitrogen 99.999%-99.9995% 150 Nm3/Hr

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-H
- 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

- Flow: 100-10000Nm3/hr
- Purity: 99.999-99.9999%
- Ppm: 3
- Consume: Hydrogen And Water
- Raw Nitrogen: 99%
- Hydrogen Required: 99.5%
- Cooling Type: Water
- Application: Steel, Cooper, Galvanization Line,Stainless Steel Production Line, Electron Filed
- Working Duration: 24 Hrs Non-stop
- Operation Mode: Fully Automatic
- Control Type: Remote Start And Stop
- Data Upload: Modbus 485, Ethernet,Profibus, DP Hart,TCP Etc
- Temperature Control: Schneider
- Heating Rod: Included

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## Product Description

On-site 150 Nm<sup>3</sup>/hr Hydrogenation Purifier for High Purity N<sub>2</sub> with 99.999%-99.9995% Purity by ISO9001 & CE certificates

### Technical indicators:

1. Deoxygenation and dehydrogenation catalysts are highly efficient, durable, long life service and good stability.
2. Deoxidization can be carried out at room temperature without heating, which greatly saves energy consumption.
3. Nitrogenous fertilizer has a wide range of requirements, and nitrogen can be selected within 99.999%.
4. The hydrogenation purifying unit is equipped with an automatic nitrogen-hydrogen mixing device according to the working conditions. It can automatically calculate and control the amount of hydrogen added according to the inlet amount and purity of nitrogen gas. It is fully automatic controlled. The equipment is sensitive to reaction, has small lag and has high adjusting precision.
5. The contact part of electric and hydrogen by electrical explosion, safe and reliable.
6. The mixing of nitrogen and hydrogen is accomplished in a static mixer with good mixing effect and less hydrogen consumption.
7. Equipped with automatic interlocking and emptying, multiple fault alarm.



## TECHNICAL SPECIFICATIONS OF OSP-H

| 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                            | 27                 | DN25       | DN25        | 500         | Customized            |
| 2  | OSP-H-120  | 120                            | 28                 | DN32       | DN32        | 650         |                       |
| 3  | OSP-H-150  | 150                            | 29                 | DN32       | DN32        | 950         |                       |
| 4  | OSP-H-180  | 180                            | 41                 | DN40       | DN40        | 1200        |                       |
| 5  | OSP-H-200  | 200                            | 42                 | DN40       | DN40        | 1350        |                       |
| 6  | OSP-H-250  | 250                            | 61                 | DN40       | DN40        | 1650        |                       |
| 7  | OSP-H-300  | 300                            | 62                 | DN40       | DN40        | 1950        |                       |
| 8  | OSP-H-350  | 350                            | 63                 | DN50       | DN50        | 2200        |                       |
| 9  | OSP-H-400  | 400                            | 81                 | DN50       | DN50        | 2350        |                       |
| 10 | OSP-H-450  | 450                            | 84                 | DN50       | DN50        | 2650        |                       |
| 11 | OSP-H-500  | 500                            | 84                 | DN65       | DN65        | 2800        |                       |
| 12 | OSP-H-600  | 600                            | 109                | DN65       | DN65        | 3000        |                       |
| 13 | OSP-H-800  | 800                            | 111                | DN80       | DN80        | 3200        |                       |
| 14 | OSP-H-1000 | 1000                           | 114                | DN80       | DN80        | 3600        |                       |

### Design reference:

- Crude Nitrogen : purity @ 99% pressure @ 7 bar (g)
- Nitrogen quality 1.2.1 according to ISO 8573-1:2010.
- Designed working temperature max 150 °C
- Dew point at Nitrogen outlet - 65 °C
- O<sub>2</sub> ppm : < 5 ppm
- CO<sub>2</sub>, CO free

### Notes:

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



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