Hydrogenation Plant Process 99.9995% 300Nm3/Hr For Iron Steel Industry Annealing

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

Our Product Introduction

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Product Description

Nitrogen with hydrogeneration purifier made 99.9995% capacity 300Nm3/hr used for Iron and steel industry annealing

Process Principle:

The deoxygenation equipment through hydrogenation makes use of common purity nitrogen as the raw material and through deoxygenation by hydrogenation accompanied by catalysts, cooling, absorption and dryness and finally, filtering of impurity, water and dust in the nitrogen gas to get high purity nitrogen.

Main Characters:

1. Advanced technique------The highly active deovo catalyst which is rather advanced in the country is adopted. The activity is excellent and can be regenerated without heating.
2. Automatic control------This equipment adopt the Siemens PLC control system with automatic switch to control work regeneration, with optional quality flow controller, and with automatic hydrogenation under controlled ratio.
3. Reliable running status-----This equipment adopts German pneumatic valves and Japanese RKC temperature controller.
4. Reasonable design------The totally enclosed design ensures a compact structure, a good looking appearance and a small floor space.

Technical Indicators:

Handling capacity of airflow: 10~500Nm3/h
Purity of nitrogen raw material: >=99%
Purity of nitrogen product: 99.9995% O2< =5ppm H2: Slight amount
Dew point: ≤-70
Outlet pressure of nitrogen product: 0.1~0.6Mpa.

TECHNICAL SPECIFICATIONS OF OSP-H

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	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_2 ppm :< 5 ppm
- CO_2, 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

SUMAIRUI **Suzhou Sumairui Gas System Co.,Ltd.**

+8613812659092 dylan@sumairui.com n2-nitrogengenerator.com

No 161,ZhongfengJie, Suzhou High technology district, Suzhou