

## Desiccant Hydrogen Dryer Manufacturer Nitriding Process 100Nm<sup>3</sup>/Hr 99.999% 10 Bar

### 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: OSD-F
- 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

- Capacity: 5-10000 Nm<sup>3</sup>/hr
- Dew Point: -70°C
- Material: Carbon Steel /Stainless Steel
- Regeneration Duration: 8 Hr
- Pressure: Customized
- Inlet Temperature: Max 40°C
- HMI: Included
- Flow Meter: Included
- Control: Siemens PLC
- Manometer: Included
- Dry Air Dew Point: ≤-80°C
- Inlet Pressure: 0.2-0.8MPa
- Material: Stainless Steel
- Noise Level: ≤70dB(A)
- Power Supply: AC220V/50Hz

## Product Description

### Hydrogen dryer for Nitriding process with capacity 100Nm<sup>3</sup>/hr purity 99.999% 10 bar stainless steel vessels & pipelines

Hydrogen dryers mainly used for remove the water of the main raw gas(Hydrogen) , adsorption of hydrocarbon, halogenated hydrocarbons, organic sulfurous,nitrogenous and oxygenous compounds.

The dryers working process : Raw gas-water removing & removing other impurities-filtering-outlet .

This equipment including dryers, filters etc, the raw material will enter into dryers for removing water and impurities, two dryers working in turn , fully automatic switching (one working ,one standby), to finalize continuous drying . This process requires high efficient and quality adsorbent, strong, regenerated repeatedly, longer Worklife.After filtering Remove the dust then send the clean/pure hydrogen for working site.

#### 1. Index

Flow : 10-10000 Nm<sup>3</sup>/Hr

Pressure : 5-10 bar (adjustable) Power supply : 380-460V/50-60Hz

Dew point : depends on the raw gas conditions

Not above -85 °C (at dew point temperature initial not above -70 °C)

Not above -80 °C (at dew point temperature initial not above -65 °C) Not above -72 °C (at dew point temperature initial not above -20 °C) Explosive-proof class: EXdIICT4(Instrument etc)

Regeneration Consumption : < 3 %



#### 2. Control system with its function

Fully automatic regeneration procedures control

PLC via the programming and parameter for operation, import and export signal, to control valves, heating elements start up and shut. To realize two dryers fully automatic switching working and regeneration .

##### 2.1 Temperature control

Temperature controlled by PLC, SCR, thermocouples, heaters etc. All the parts will be via thermocouples inspected and

transfer signal to PLC, PLC will according to programming , control SCR electric current thus control each parts. With temperature settings , alarming and blocking protection to guarantee equipment safety working .

## **2.2 Alarming & blocking protection**

Alarming functions including : temperature alarming, flow alarming, index alarming



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