

SUZHOU, CHINA SUMAIRUI GAS

GOST,NB,NR ETC

OSH-100

Negotiable

30-45 days

100 sets/months

1 set

ISO9001, CE, BV, SGS, TUV, ASME,

Exporting wooden case /Film packing

L/C, T/T, Western Union, MoneyGram

Psa Pressure Swing Adsorption Hydrogen Psa Dryer For Cooper Production Line

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:



Product Specification

 Material: 	Mild Steel			
Capacity:	100 Nm3/hr			
• Purity:	99.99-99.999%			
• Pressure:	10 Bar			
Dew Point:	-60 °C			
• Towers:	4			
Operation Mode:	Fully Automatic			
• IP Grade:	IP54			
 Explosion-Proof: 	Customized			
Application:	Green & New Field			
Control Method:	PLC Control			
Cooling Method:	Air Cooling			
Noise Level:	≤65dB			
 Operating Humidity: 	≤90%RH			
Operating Temperature:	5-45°C			

Our Product Introduction

Cooper production line PSA hydrogen generator used for the bell type furnace /continuous furnace technics

Description:

Pressure swing adsorption (PSA) is a technology used to separate some gas species from a mixture of gases under pressure according to the species' molecular characteristics and affinity for an adsorbent material. It operates at near-ambient temperatures and differs significantly from cryogenic distillation techniques of gas separation.

Specific adsorptive materials (e.g., zeolites, activated carbon, molecular sieves, etc.) are used as a trap, preferentially adsorbing the target gas species at high pressure. The process then swings to low pressure to desorb the adsorbed material.

Pressure swing adsorption processes rely on the fact that under high pressure, gases tend to be attracted to solid surfaces, or "adsorbed". The higher the pressure, the more gas is adsorbed; when the pressure is reduced, the gas is released, or desorbed. PSA processes can be used to separate gases in a mixture because different gases tend to be attracted to different solid surfaces more or less strongly.

If a gas mixture such as air, for example, is passed under pressure through a vessel containing an adsorbent bed of zeolite that attracts nitrogen more strongly than it does oxygen, part or all of the nitrogen will stay in the bed, and the gas coming out of the vessel will be enriched in oxygen. When the bed reaches the end of its capacity to adsorb nitrogen, it can be regenerated by reducing the pressure, thereby releasing the adsorbed nitrogen. It is then ready for another cycle of producing oxygen enriched air.

This is the process used in medical oxygen concentrators used by emphysema patients and others who require oxygenenriched air to breathe.

Using two adsorbent vessels allows near-continuous production of the target gas. It also permits so-called pressure equalisation, where the gas leaving the vessel being depressurised is used to partially pressurise the second vessel. This results in significant energy savings, and is common industrial practice.

Features:

1. It operates quickly, qualified Hydrogen can be made immediately

2. The machine can fully automatic operate, without workers during the whole course

3. High efficiency molecular sieves filling, more compress, more solid, more lifelong

4. Pressure, purity, capacity can be made, to meet different customers needs.

5. Perfect structure, advanced procedure, stable@safety, little investment, lower consumption

Hydrogen gas application :

Stainless steel Cold rolled sheets Cooper production Galvanization line Oil refining line Float Glass production

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TECHNICAL SPECIFICATIONS OF OSH

1 OSH10 10 2 OSH20 20 3 OSH30 30 4 OSH40 40 5 OSH50 50 6 OSH60 60 7 OSH80 80 8 OSH100 100 9 OSH200 200 10 OSH300 300 11 OSH400 500	NO	Model	Capacity (Nm³/hr)	Install Power (KW)	Outlet (mm)	Weight (KG)	Dimensions (L*W*H mm)
3 OSH30 30 4 OSH40 40 5 OSH50 50 6 OSH60 60 7 OSH80 80 9 OSH200 200 10 OSH300 300 11 OSH400 400	1	OSH10	10	1	DN15	300	
4 OSH40 40 5 OSH50 50 6 OSH60 60 7 OSH80 80 8 OSH100 100 9 OSH200 200 10 OSH300 300 11 OSH400 400	2	OSH20	20		DN15	600	
5 OSH50 50 6 OSH60 60 7 OSH80 80 8 OSH100 100 9 OSH200 200 10 OSH300 300 11 OSH400 400	3	OSH30	30		DN20	750	
6 OSH60 60 1 DN32 1100 Customized 7 OSH80 80 DN32 1200 DN40 1350 8 OSH100 100 DN40 1350 DN50 1600 9 OSH300 300 DN65 1900 DN65 2200 11 OSH400 400 DN65 2200 DN65 2200	4	OSH40	40		DN20	880	
7 OSH80 80 DN32 1200 8 OSH100 100 DN40 1350 9 OSH200 200 DN50 1600 10 OSH300 300 DN65 1900 11 OSH400 400 DN65 2200	5	OSH50	50		DN32	1050	
8 OSH100 100 DN40 1350 9 OSH200 200 DN50 1600 10 OSH300 300 DN65 1900 11 OSH400 400 DN65 2200	6	OSH60	60		DN32	1100	Customized
9 OSH200 200 DN50 1600 10 OSH300 300 DN65 1900 11 OSH400 400 DN65 2200	7	OSH80	80		DN32	1200	
10 OSH300 300 DN65 1900 11 OSH400 400 DN65 2200	8	OSH100	100		DN40	1350	
11 OSH400 400 DN65 2200	9	OSH200	200		DN50	1600	
	10	OSH300	300		DN65	1900	
12 OSH500 500 DN80 3500	11	OSH400	400		DN65	2200	
500 DN80 2500	12	OSH500	500		DN80	2500	

Design reference:

- Designed working pressure 1.2 Mpaig)

- PSA technology

Notes:

Following conditions will be customized :

% Crude hydrogen less than 75%

% Other working pressure or special requirements

