NITROGEN GENERATOR SYSTEM

Marine PSA Nitrogen Generator Purity 99%

ISO9001 Supplier

Class Certificate

Export Supply

The carbon molecular sieves can simultaneously adsorb oxygen and nitrogen in the air, and the amount of adsorption increases with the increase of pressure, and there is no obvious difference in the equilibrium adsorpt...



Key Highlights

Category	Nitrogen Generator System
Standard	EN
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Nitrogen Generator System	**Model / SKU**	Marine-PSA-Nitrogen-Generator-Purity-99
Standard	EN	**Certificate**	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	**Origin**	China

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China Marine PSA Nitrogen Generator Purity 99%:

The carbon molecular sieves can simultaneously adsorb oxygen and nitrogen in the air, and the amount of adsorption increases with the increase of pressure, and there is no obvious difference in the equilibrium adsorption between oxygen and nitrogen under the same pressure.

Therefore, it is difficult to complete the effective separation of oxygen and nitrogen by the change of pressure. If the adsorption velocity is further considered, the adsorption characteristics of oxygen and nitrogen can be effectively separated.

The diameter ratio of nitrogen oxygen molecules is small, so that the diffusion speed hundreds of times faster than nitrogen, so the carbon molecular sieve adsorption oxygen adsorption rate is also very fast, about 1 minutes to reach more than 90%; and only 5% of the nitrogen adsorption capacity, so the general adsorption are oxygen, and the rest of the body. Is nitrogen.

So, if the adsorption time control in less than 1 minutes, it can be preliminarily separated oxygen and nitrogen, that is to say, the adsorption and desorption by differential pressure to achieve, adsorption pressure increased, desorption pressure drop.

However, the difference between oxygen and nitrogen is the difference between the adsorption rate and the adsorption time. The time control is very short, and the oxygen has been fully absorbed, and the adsorption process is stopped before the nitrogen has enough time to adsorb. Therefore, pressure swing adsorption to nitrogen pressure changes, but also to control the time within 1 minutes.



Marine PSA Nitrogen Generator Purity 99% Main Specification

Model	Output (m3/h)	Gas consumption(m3/h)	Air inlet(DN mm)	N2 inlet(DN mm)
JBN10-99	10	30	15	15
JBN20-99	20	60	15	15
JBN30-99	30	90	25	15
JBN40-99	40	120	25	20
JBN50-99	50	150	25	20
JBN80-99	80	240	32	25
JBN100-99	100	300	40	25
JBN150-99	150	450	50	32
JBN200-99	200	600	50	32
JBN250-99	250	750	50	40
JBN300-99	300	900	65	40

JBN400-99	400	1200	65	40
JBN500-99	500	1500	80	50
JBN600-99	600	1800	80	50
JBN800-99	800	2400	100	65
JBN1000-99	1000	3000	125	80
JBN1500-99	1500	4500	150	80
JBN2000-99	2000	6000	150	100
JBN2500-99	2500	7500	200	100
JBN3000-99	3000	9000	200	125