Biogas Membrane Separation And Purification System Producing Natural Gas From Biogas Membrane Separation For 99%

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:

Our Product Introduction

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CHINA



Product Specification

• Cost:	Cost-effective Purification Solution
• Storage:	Easy To Store And Transport
Composition:	Chemical Compounds And Absorbent Materials
• Form:	Liquid, Solid, Or Granular Form
 Environmental Impact: 	Eco-friendly And Sustainable Purification Process
 Regeneration: 	Can Be Regenerated For Multiple Uses
 Application: 	Purification Of Oil, Natural Gas, And Biogas
 Safety: 	Safe To Handle And Use
Application Method:	Can Be Applied Through Injection, Adsorption, Or Filtration
• Туре:	Chemical Purification Products
Compatibility:	Compatible With Various Types Of Oil, Natural Gas, And Biogas

Remove Impurities And Contaminants From

Oil Natural Cas And Dias



• Function:

More Images



Principle Introduction

The biogas produced by anaerobic fermentation process contains about 55% CH 4 and 45% CO 2, as well as a small amount of H 2 S, H 2 O and other gas components. Through separation and purification, the CH 4 concentration can be increased to over 95% to prepare product gas that meets national natural gas standards. The biogas separation and purification system is divided into two parts: pretreatment and membrane separation. The preprocessing part includes multi-stage filtration, refrigerated dryer, heat exchanger, etc., which can filter solid impurities in biogas to 0.01 µ m, away from dew point, and adjust the gas to the appropriate temperature for membrane separation equipment operation. The membrane separation part utilizes the different dissolution and diffusion rates of various gas components in the polymer membrane, resulting in different permeation rates of each gas component through the fiber membrane wall under the action of the pressure difference on both sides of the membrane, thus achieving the goal of separating specific gas components. In biogas, H 2 S, CO 2 and other gases are called "fast gases" and separated through membranes, while CH 4 is called "slow gas" and collected as product gas. Lide Company's membrane separation equipment uses a combination of multi-stage membrane modules with high separation coefficients to improve recovery rates and product gas purity, while reducing losses.

Performance characteristics

• Less moving parts, small footprint, low maintenance requirements, and reliable system After a relatively short startup time, the product's gas design specifications can be met Efficient preprocessing system ensures long-term stable operation of the system The design lifespan of the membrane system exceeds ten years Multi stage membrane combination process to improve recovery rate and product gas purity Excellent after-sales service team support

technical parameter

- Applicable raw gas flow rate: 3000-40000 Nm 3/d
- Inlet temperature: 30
- Inlet pressure: atmospheric pressure
- Product gas recovery rate: ≥ 97%
- Product gas CH ₄ concentration: ≥ 97%

Other indicators meet the Class II gas indicators of the national natural gas standard (GB17820-2012)

2024-08-14 08:15:16 98.32 * CH4 0.00 % CO2 0.03 * 02 1 ppm Enter







