

# Prism Membrane Separation Technology Chemical Environmental Prism PB Membrane Separator

## Basic Information

USA

prism

ccs ce PB

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



### **Product Specification**

Highlight:

PB Membrane Separator, Environmental Prism Membrane Separator, Chemical Prism Membrane Separator



### More Images





**Our Product Introduction** 

#### **Product Description**

Prism membrane separation application

Prism membrane separation technology is an efficient and energy-saving separation technology widely used in chemical, biochemical, environmental protection and other fields.

Prism membrane separation technology is based on the partial pressure difference between gas molecules and corresponding components on both sides of the membrane, and achieves gas separation through the different dissolution and diffusion rates of polymer molecules. This technology does not undergo phase changes and is therefore carried out at room temperature, making it particularly suitable for the separation, concentration, and refining of thermosensitive substances. The characteristics of Prism membrane separation technology include:

It does not undergo phase changes, therefore it is an energy-saving technology.

Separation at room temperature is suitable for the separation, concentration, and refining of thermosensitive substances. The range of applicable separation is extremely wide, from particle level to microbial cells, and even ion level. Using pressure difference as the driving force, the device is simple and easy to operate. The application areas of Prism membrane separation technology include:

In the chemical industry, for example, the American company MONSANTO launched a commercial Prism gas membrane separation device in 1977 for regulating the H2/CO ratio of synthesis gas.

In the field of environmental protection, Prism membrane separation technology is also applied to the tail hydrogen recovery of hydrogenation units, as well as the industrial purification of kitchen waste fermentation and fecal fermentation biogas. Biochemical separation engineering: As a highly efficient separation method, Prism membrane separation technology can completely replace traditional separation technologies such as filtration, adsorption, evaporation, and condensation. In addition, Prism membrane separation technology has also shown excellent performance in improving hydrogen purity and hydrogen recovery rate, which is of great significance for improving energy efficiency and environmental protection. For example, in the application of circulating hydrogen treatment in hydrogen recovery rate of 5.

In summary, Prism membrane separation technology has shown wide application prospects and important practical value in multiple fields due to its advantages of high efficiency, energy saving, and environmental protection.







