

Product Name :
Astra Wiped Film Molecular Distillation

Product Code :
ASTRALAB-SUPPLYA4010



Description :

Astra Wiped Film Molecular Distillation

Technical Specification :

Molecular distillation equipment is a distillation method that operates under high vacuum. At this time, the mean free path of the vapor molecules is greater than the distance between the evaporation surface and the condensation surface, so the difference in the evaporation speed of each component in the liquid can be used. Separate the mixture.

In a molecular distillation system at a certain temperature, the lower the pressure, the greater the mean free path of gas molecules. When the pressure of the evaporation space is very low (10^{-2} to 10^{-4} mmHg), and the condensation surface is close to the evaporation surface, and the vertical distance between them is less than the mean free path of gas molecules, the vapor molecules evaporated from the evaporation surface may be Other molecules are irrelevant, and collide and directly reach the condensation surface to condense.

Extremely high evaporation efficiency, which can reduce retention time and minimize time delay.

The molecular distillation system is composed of high borosilicate glass, stainless steel and PTFE, so it has excellent corrosion resistance.

The main body of the molecular distillation system is made of high borosilicate glass, which allows you to observe the operation of the whole process well.

The high-precision stationary object makes the liquid form a complete integrated film on the heated surface. The inner wall of the barrel is smooth and clean, the inner wall is smooth and bright, and it is not easy to stick and scale.

Frequency conversion geared motor, safe and reliable operation; with self-cooling fan, can work continuously for a long time.

The entire molecular distillation system has good sealing performance, and the minimum vacuum pressure can reach 0.1Pa.

The maximum temperature of the system can reach 230°C / 300°C.

The maximum theoretical vacuum degree can reach 5Pa or 0.1Pa.

Scraper film forming system and self-cleaning roller film forming system can be used.



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