Climbing film evaporator pdf

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The vaporizer features has a long heating tube (about 5 - 7 m), but the heating chamber and the temperature difference between the boiling room should also be a large, otherwise, steam-flow energy deficit in the transmission of the liquid membrane and rise. The principle of the vaporizer of the climbing film: the structure of the climbing film vaporizer liquid in the heater of the heating tube, on the principle of the siphon pump in the separator of the liquid and steam after separation, through the circular flow of the pipe back to the vaporizer, form a closed cycle, resulting in this type of vaporizer also called the external vaporizer loop. The heating tube consists of a heat exchange tube, a raw liquid after heating reached boiling point or near the boiling point, introduced at the bottom of the heating chamber, a secondary steam drive for high-speed lifting, along the wall of the flow and evaporation of the heat exchange tube, at the top of the heat exchange chamber, can reach the necessary concentration at the bottom of the completion of the liquid separation chamber, the secondary steam is located in the upper steam chamber. , falls, different become after the influence of the heat source. Characteristics of climbing film vaporizer: Normal work is the key to make the rock climbing film vaporizer liquid materials in a continuous liquid film formed on the wall. The climbing film vaporizer structure is actually a single tube side vertically fitting a fixed sheet tube heat heater. The climbing film vaporizer in the heating chamber consists of one or more long vertical tubes, the climbing film vaporizer is a kind of high-efficiency evaporation of the equipment, it can be done by evaporating the liquid in a evaporating liquid film in the form through the heated phase of surface evaporation light, reduce heating time, enhance the evaporation effect. Climbing film vaporizer scope application: Climbing film vaporizer is suitable for handling power more, more, The viscosity solution is small and easy to bubble, but not suitable for high viscosity, crystal precipitation and scale solution. For large amounts of diluted solution. If the concentration of the solution has increased dramatically with the evaporation process. It is recommended to use a falling film vaporizer. 本文网址: Page 2 Page 3 Page 4 After the material liquid is heated, it enters the vaporizer from below, and enter the heating tube to evaporate quickly. The generated steam rises at high speed in the heating pipe. The solution is controlled by a rising steam and rises in film along the tube wall and continues to evaporate during the process. The mixture of steam and liquid is separated in the separator and the liquid is discharged at the bottom of the separator. The steam used gets into the steam compressor. After the compressor process, the pressure rises and the temperature rises. As a new heat source, heat the material that needs to be evaporated. MVR Climbing/growth film vaporizer improved model by MVR technology. By adding a steam compressor and the necessary match parts, the new model of the upward film vaporizer can significantly improve efficiency and reduce the cost of operation. The MVR Climbing/growth film vaporizer mainly consists of a heater, heat exchange, separator, vacuum system, MVR steam compressor, cooling system, cleaning system and control system. Product features for LH MVR Rising Film Evaporator: In order to get rid of gravity and move upwards, the liquid is very turbulent, suitable for medium viscosity products. Based on the product cycles in a wide environment, the work is stable and effective. Suitable for processing the evaporation concentration of diluted liquid with a large amount of evaporation, or a sensitive and easily foaming solution; Not suitable for a solution with high viscosity, crystal precipitation and light scaling. Application: There is a wide range of applications to enhance tube vaporizers, including wastewater treatment, polymer production, food production, thermal desalination, pharmaceuticals, and solvent recovery. Large long-tube vaporizers for seawater distillation. In terms of application in these industries, growth tube vaporizers are mainly used as reboilers for distillation columns, or as preconcentrators or flash vaporizers or pre-heaters designed to remove volatile components before stripping. Volume 34, Issue 6, September 2010, Pages 753-759Vere climbing film evaporationLocal heat transfer factor Academia.edu no longer supports the Internet Explorer.To view Academia.edu and wider internet faster and more securely, please take a few seconds to update Academia.edu uses cookies to personalize content, adapt ads, and improve user experience. Using our website, you agree to our information collection use cookies. To learn more, view our privacy policy.× Details of the climbing film vaporizer: Climbing film vaporizer brief introduction: The Climbing Movie Vaporizer is also called the ascent film vaporizer, it is based on the siphon principle of pump operation, in accordance with the lifting force of steam produced in the process of boiling bubbles, liquid and steam flow and flow, at the same time,

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