

# SHJM

## TRI-EFFECT DOWNWARD FILM EVAPORATOR

## 三效降模式蒸发器



### 适用范围:

适用于乳品、制药、葡萄糖、淀粉、化工、木糖、柠檬酸、硫酸铵、生化工程、环保工程、废液回收处理等。

### 设备特点:

- A、由一、二、三效分离器，一、二、三效蒸发器、预热器、冷凝器和热压泵组成。
- B、蒸发耗量低，1kg蒸汽可蒸发3.5kg水。
- C、蒸发温度低，部分二次蒸汽经喷射式热压泵重新吸入一效加热器，热量得到充分利用，蒸发温度低。
- D、浓缩比大，降模式蒸发，使粘度较大的料液容易流动蒸发，不容易结垢，浓缩时间短，浓缩比可达到1:5。
- E、本设备可以实现全自动化生产，智能化系统管理，符合GMP标准要求。

### 蒸发能力:

1000 ~ 50000kg/h (系列)

### Applicable range:

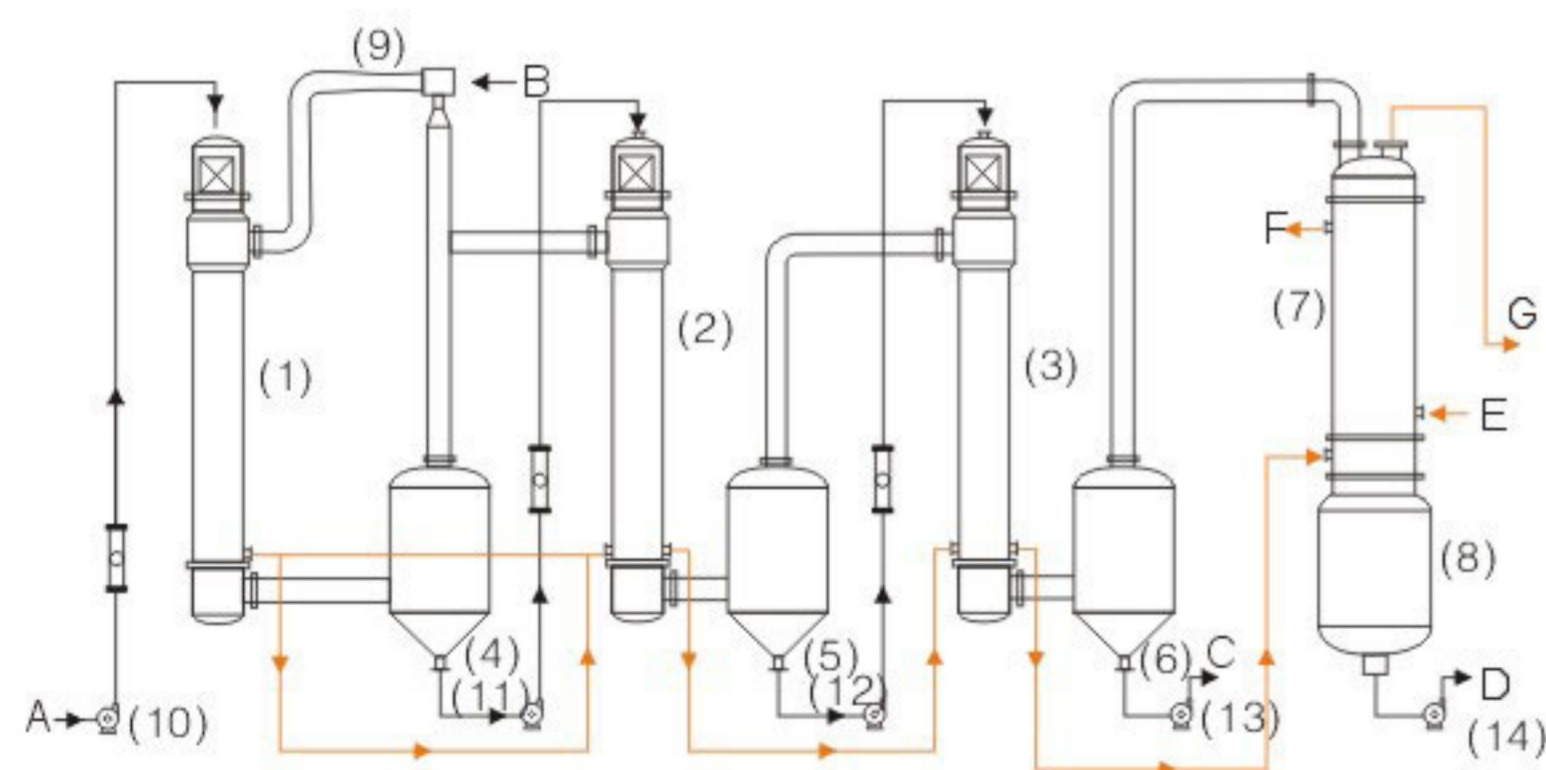
It is applicable for dairy products, pharmacy, glucose, starch, chemical industry, xylose, citric acid, ammonium sulfate, biological engineering, environmental engineering and waste liquid recovery and treatment etc.

### Equipment characteristics:

- A. It consists of single-effect, dual-effect and tri-effect evaporators, single-effect, dual-effect and tri-effect separators, preheater, condenser and hot pressure pump etc.
- B. Low evaporation consumption, 1kg steam can evaporate 3.5kg water.
- C. Low evaporation temperature. Part of twice steam can be inhaled into single-effect heater through spray type hot pressure pump. The heat quantity can be fully used and the evaporation temperature is low.
- D. Large concentration ratio with downward film type evaporation, which can make material liquid with larger viscosity be easy to flow and evaporate. Hard to agglomerate with short concentration time. The concentration ratio can reach 1:5.
- E. The equipment can realize automatic production, intellectual system management, which is in conformity with GMP standard.

### Evaporation capacity:

1000~50000kg/h (Series)



- 1. Single-effect evaporator
- 2. Dual-effect evaporator
- 3. Tri-effect evaporator
- 4. Single-effect separator
- 5. Dual-effect separator
- 6. Tri-effect separator
- 7. Condenser

- 1. 一效蒸发器
- 2. 二效蒸发器
- 3. 三效蒸发器
- 4. 一效分离器
- 5. 二效分离器
- 6. 三效分离器
- 7. 冷凝器

- 8. Condensed water tank
- 9. Hot pressure pump
- 10. Inlet pump
- 11. Circulative pump
- 12. Circulative pump
- 13. Outlet pump
- 14. Condensed water pump

- 8. 冷凝水罐
- 9. 热压泵
- 10. 进料泵
- 11. 循环泵
- 12. 循环泵
- 13. 出料泵
- 14. 冷凝水泵

- A. Inlet of concentrated liquid
- B. Inlet of live steam
- C. Outlet of concentrated liquid
- D. Outlet of condensed water
- E. Inlet of cooling water
- F. Outlet of cooling water
- G. Connect vacuum pump

- A. 浓缩液进口
- B. 生蒸汽进口
- C. 浓缩液出口
- D. 冷凝水出口
- E. 冷却水进口
- F. 冷却水出口
- G. 接真空泵