



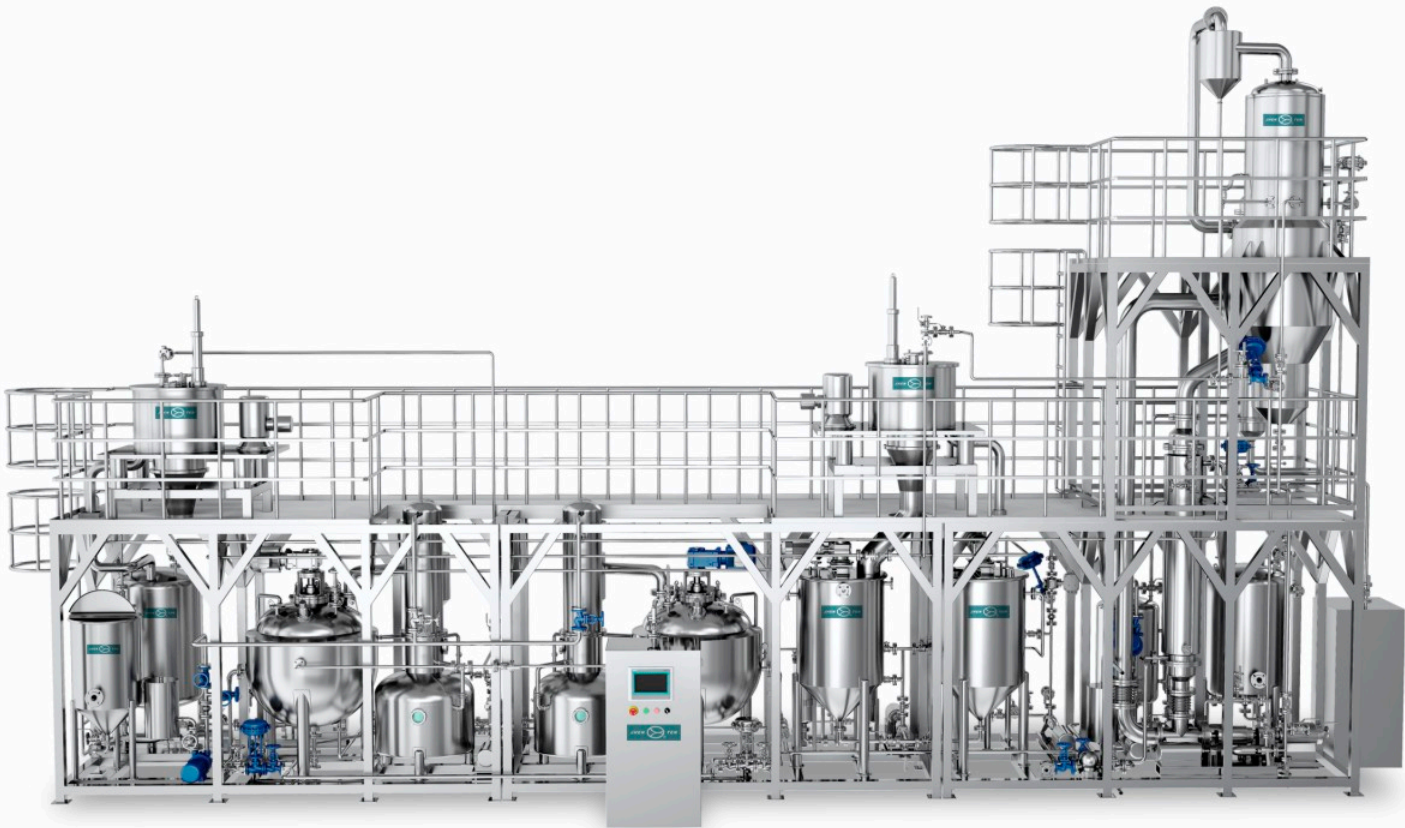
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RTC-Evap  
蒸发系统模块

Evaporation System Module

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关于镇田  
About Jhenten



镇田机械创建于1986年，超过35年的不断积累，我们的业务范围遍及制药工程、食品饮料、精细化工、新能源等行业，并致力于为客户提供最具挑战 and 核心价值的工艺罐体及工艺模块系统解决方案。镇田始终坚持以稳定的产品质量，严谨的工程设计和完善的用户服务，赢得客户的长期信赖，助力全球客户实现高效生产与持续发展。

Zhejiang Jhen Ten Machinery Co.,Ltd, established in 1986, has over 35 years of continuous innovation and expertise accumulation. Our solutions span across pharmaceutical engineering, food & beverage, fine chemicals, and the new energy sector, specializing in delivering highly challenging and value-driven process vessels and modular process systems. Committed to consistent product quality, rigorous engineering design, and comprehensive customer support, Jhen Ten has earned long-term trust from global clients. We empower industries worldwide to achieve efficient production and sustainable growth through cutting-edge technological integration.

RTC-Evap 蒸发系统模块是用于高效实现液体浓缩、溶剂回收及废液减量化的全流程自动化解决方案，通过智能化工艺控制与节能设计，满足制药、化工、食品等行业的严苛生产标准，确保蒸发过程符合GMP、FDA、ISO等国际规范。

The RTC-Evap evaporation system module is an end-to-end automated solution designed to efficiently achieve liquid concentration, solvent recovery, and waste liquid volume reduction. Combining intelligent process control with energy-efficient design, it meets stringent production standards in industries such as pharmaceuticals, chemicals, and food processing. The system ensures compliance with international regulations, including GMP, FDA, and ISO, throughout the evaporation process.



化学和制药工业  
Chemical and Pharmaceutical Industry

有机酸 Organic Acids	维生素C、柠檬酸 Vitamin C, Citric acid
盐溶液 Saline Solution	硝酸铵、硫酸铵、硫酸钠 Ammonium nitrate, Ammonium sulfate, Sodium sulfate
醇 Alcohol	甲醇、乙醇、甘油、乙二醇、异丙醇 Methanol, Ethyl alcohol, Glycerol, Ethylene glycol, Propan-2-ol
有机产品 Organic Products	芳香化合物、丙酮、己内酰胺水溶液、合成胶、香料 Aromatic compounds, Acetone, Caprolactam solution, Spice
制药溶液 Pharmaceutical Solutions	酶、抗生素、药品萃取物、糖代用品、山梨醇山梨糖、葡萄糖酸盐 Enzyme, Antibiotic, Pharmaceutical extracts, Sugar substitutes, Sorbitol, D-(+)-SORBOSE, Gluconate



食品和饮料工业  
Food and Beverage Industry

提取物 Extracts	咖啡和茶提取物、麦芽提取物、酵母提取物、果胶、肉和骨提取物 Coffee and tea extracts, Malt extracts, Yeast extracts, Pectin, Meat and bone extracts
乳制品 Dairy Products	全脂和脱脂奶、炼乳、乳清和乳清衍生物 Whole milk and skimmed milk, Condensed milk, Whey and whey derivatives
果汁蔬菜汁 Fruit and Vegetable Juice	橙汁和其它柑橘汁、苹果汁、甜菜根汁、番茄汁、胡萝卜汁 Orange and other citrus juices, Apple juice, Beetroot juice, Tomato juice, Carrot juice
淀粉和糖 Starch Products and Sugar	葡萄糖、右旋糖、左旋糖、麦芽糖、淀粉糖浆糊精、液体糖 Glucose, Dextrose, Levulose, Maltose, Starch syrup, Dextrins, Liquid sugar



天然有机产品工业  
Natural and Organic Products Industry

发酵液 Fermentation Solution	谷氨酸、赖氨酸、甜菜碱 Glutamic acid, Lysine, Betaine
胶与明胶 Gum & Gelatin	技术明胶、食用明胶、皮胶和骨胶 Technical gelatine, Edible gelatine, Hide glue and Bone glue
乳剂 Emulsions	油与溶剂混合物 Oil-solvent mixtures
釜馏物 Distillate	威士忌、玉米、酵母、马铃薯釜馏物、酒糟 Whiskey, Corn, Yeast, Potato kettle distillate, Distillers' solubles

35+

超35年行业制造经验  
With more than 35 years of industry manufacturing experience

300+

公司现有员工300多名  
The company currently has more than 300 employees

40000+

拥有现代化厂房40000多平方米  
It has a modern factory building of more than 40,000 square meters



RTC-Evap 蒸发系统模块  
Evaporation System Module

01 蒸发器主体模块  
Evaporator Main Module

- 多效蒸发单元：自然循环/降膜/强制循环可选，SUS304/316L/双相钢/钛金属材质，适配高腐蚀性料液。
- 分离器：两级旋风分离+丝网除沫设计，蒸汽洁净度 $\geq 99.8\%$ 。
- Multi-Effect Evaporation Units: Configurable as natural circulation, falling film, or forced circulation. Constructed from SUS304/316L, duplex steel, or titanium for compatibility with highly corrosive fluids.
- Separators: Dual-stage cyclone separation + mesh demister design, ensuring steam purity  $\geq 99.8\%$ .

02 热能循环系统  
Thermal Energy Recovery System

- 热泵压缩机组：MVR(机械蒸汽再压缩)技术，节能50%–70%
- 换热器：板式/管式定制设计，传热系数 $\geq 3000 \text{ W}/(\text{m}^2 \cdot \text{K})$
- Heat Pump Compressor Unit: MVR (Mechanical Vapor Recompression) technology delivers energy savings of 50%–70%.
- Heat Exchangers: Customized plate or tubular designs with heat transfer coefficients  $\geq 3000 \text{ W}/(\text{m}^2 \cdot \text{K})$ .

03 真空与压力控制模块  
Vacuum & Pressure Control Module

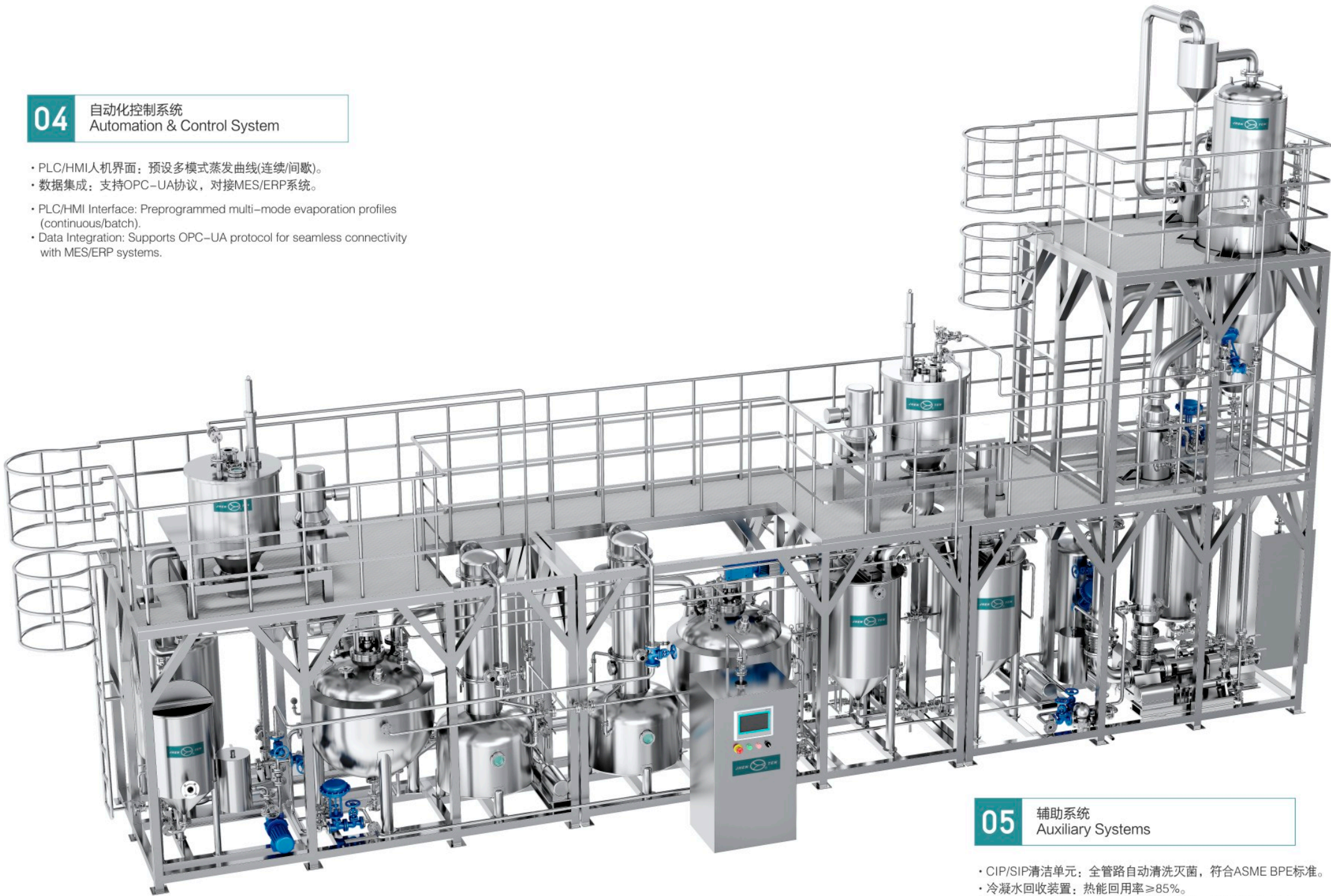
- 真空泵组：干式螺杆真空泵，极限真空度 $\leq 5\text{kPa}$ 。
- 稳压系统：PID自动调节，压力波动 $\pm 1\%$ 。
- Vacuum Pump System: Dry screw vacuum pumps achieve ultimate vacuum  $\leq 5 \text{ kPa}$ .
- Pressure Stabilization System: PID auto-regulation maintains pressure fluctuations within  $\pm 1\%$ .

04 自动化控制系统  
Automation & Control System

- PLC/HMI人机界面：预设多模式蒸发曲线(连续/间歇)。
- 数据集成：支持OPC–UA协议，对接MES/ERP系统。
- PLC/HMI Interface: Preprogrammed multi-mode evaporation profiles (continuous/batch).
- Data Integration: Supports OPC–UA protocol for seamless connectivity with MES/ERP systems.

05 辅助系统  
Auxiliary Systems

- CIP/SIP清洁单元：全管路自动清洗灭菌，符合ASME BPE标准。
- 冷凝水回收装置：热能回用率 $\geq 85\%$ 。
- 结晶分离模块(可选)：离心机/稠厚器联动，结晶纯度 $\geq 95\%$ 。
- CIP/SIP Cleaning Unit: Full-pipeline automated cleaning and sterilization compliant with ASME BPE standards.
- Condensate Recovery Unit: Thermal energy reuse rate  $\geq 85\%$ .
- Crystallization & Separation Module (Optional): Centrifuge/thickener integration ensures crystal purity  $\geq 95\%$ .





降膜蒸发器  
Falling Film Evaporator

产品结构 Product Structure

采用垂直管壳式换热器结构，搭配离心分离器，实现高效的汽液分离。

运行原理 Operating Principle

浓缩液体从加热管顶部进入，在重力作用下沿管内壁形成薄膜向下流动。管外加热促使液膜沸腾、部分蒸发，后续生成的蒸汽带动液膜加速流动。在列管下部及离心分离器中，蒸汽与剩余液体实现分离。

为防止局部干壁和结壳，蒸发器顶部需安装适配的液体分布器，确保加热表面，尤其是加热管下部被液体充分均匀润湿。也可以通过加长加热管、分隔蒸发器室体或产品循环等方式，提升润湿率。

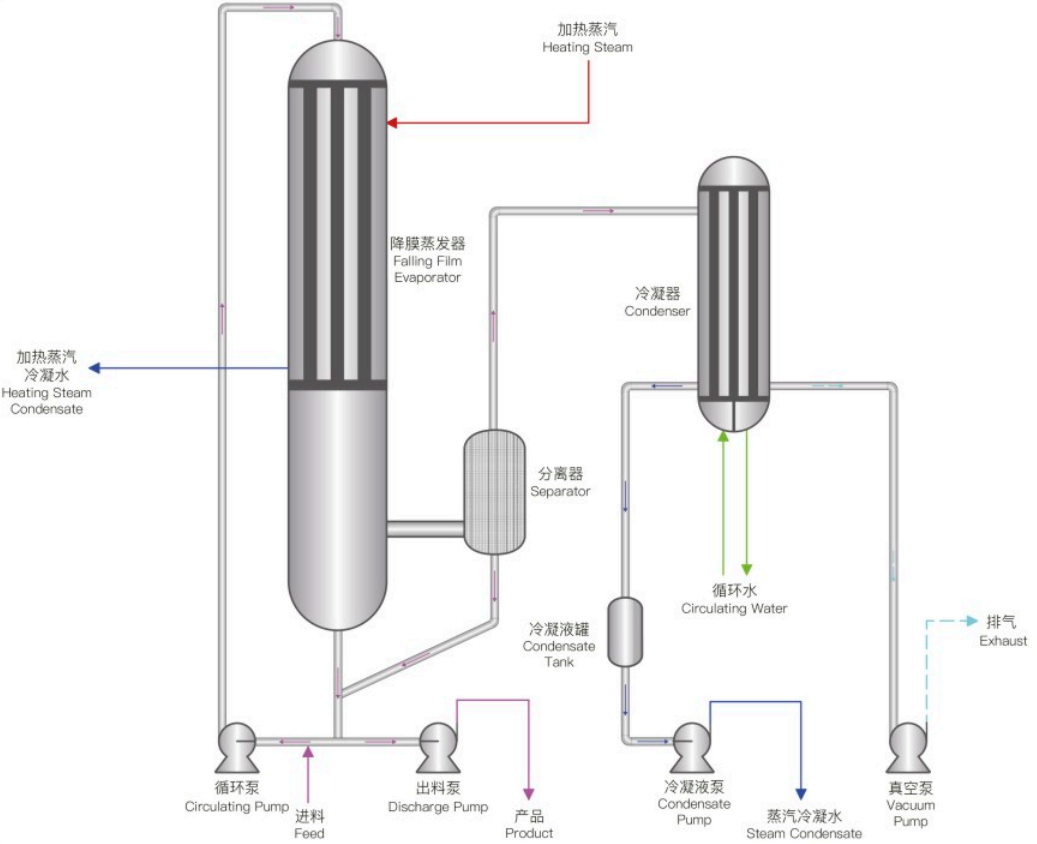
Adopts a vertical shell-and-tube heat exchanger design, integrated with a centrifugal separator to achieve highly efficient vapor-liquid separation.

Concentrated liquid enters from the top of the heating tubes and flows downward along the inner walls under gravity, forming a thin film. External heating induces boiling and partial evaporation of the liquid film. The generated vapor accelerates the downward flow of the liquid film. In the lower section of the tube bundle and the centrifugal separator, vapor is separated from the remaining liquid.

To prevent localized dry walls and scaling, a specialized liquid distributor is installed at the evaporator top to ensure uniform wetting of heating surfaces, particularly in the lower tube sections. Wetting efficiency can also be improved by extending heating tubes, partitioning the evaporator chamber, or implementing product recirculation.

核心优势 Advantage

- 品质卓越：真空低温蒸发，停留时间短，最大程度保证了产品质量。
- 节能高效：支持多效蒸发，或蒸汽再压缩，有效提升能源利用效率。
- 控制便捷：迅速响应，实现过程控制的简单化与自动化。
- 操作灵活：启动迅速，可轻松切换生产模式和清洗模式。
- Superior Quality: Utilizes vacuum low-temperature evaporation with short residence time, preserving product quality to the greatest extent.
- Energy Efficiency: Supports multi-effect evaporation or steam recompression technology, significantly improving energy utilization.
- Simplified Control: Rapid response and streamlined automation enable easy process management.
- Operational Flexibility: Features rapid startup, seamless switching between production and cleaning modes, and adaptability to varying conditions.



# 自然循环蒸发器 Natural Circulation Evaporator

## 产品结构 Product Structure

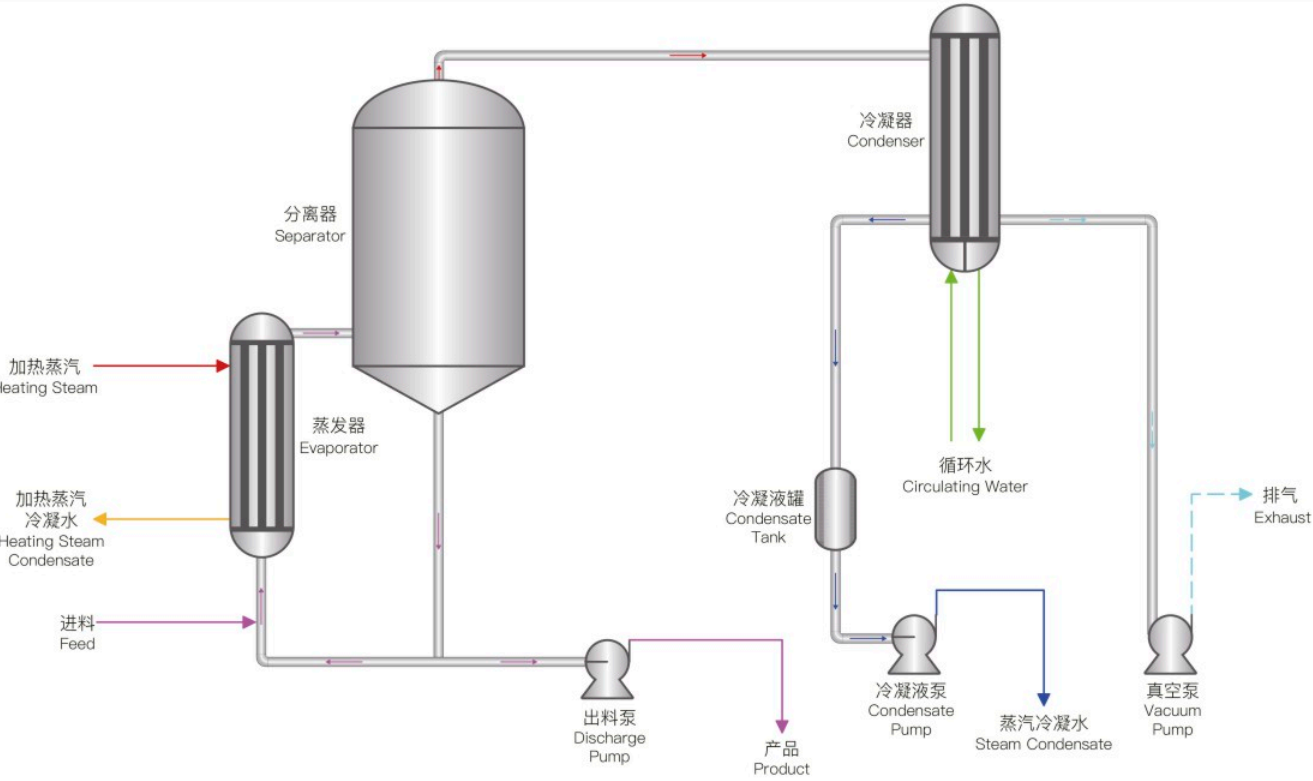
由加热系统、蒸发分离室、自然循环管路、真空系统、智能控制系统组成。加热系统有列管式/板式加热器，蒸发分离室内置除沫装置，自然循环管路利用密度差驱动溶液流动，真空系统采用水环式/蒸汽喷射式真空泵，智能控制系统配置PLC界面。

It consists of a heating system, an evaporation separation chamber, a natural circulation pipeline, a vacuum system, and an intelligent control system. The heating system has a tube/plate heater, a foam removal device is installed in the evaporation and separation chamber, and the natural circulation pipeline uses density differences to drive the solution flow. The vacuum system uses a water ring/steam jet vacuum pump, and the intelligent control system is equipped with a PLC interface.

## 运行原理 Operating Principle

依托温差驱动自然对流，无需外置循环泵。物料加热汽化形成气液混合物，蒸汽冷凝排出，浓缩液因密度差回落至加热器。持续循环至目标浓度，实现连续蒸发。

Relies on temperature-driven natural convection without external circulation pumps. The heated material vaporizes to form a vapor-liquid mixture. Vapor is condensed and discharged, while the denser concentrated liquid flows back to the heater due to density differences. Continuous cycling achieves target concentration through repeated evaporation.



## 核心优势 Advantage

- 节能降耗：无强制循环泵，能耗低；低温蒸发保护热敏性成分。
- 稳定耐用：无运动部件，维护成本低；耐腐蚀材质适配酸碱、盐类工况；自然循环减少结垢。
- 柔性适配：单效/多效组合，处理量50-5000 L/h；模块化设计，快速切换物料；智能控制调节蒸发效率。
- Energy Saving & Low Consumption: No forced circulation pump required, reducing energy costs; low-temperature evaporation protects heat-sensitive components.
- Stable and durable: There are no moving parts, resulting in low maintenance costs. The corrosion-resistant materials are suitable for acidic, alkaline, and saline working conditions. Natural circulation helps to reduce scaling.
- Flexible adaptation: Available in single-effect or multi-effect combinations, with processing capacities ranging from 50 to 5000 L/h. Modular design allows for quick material switching. Intelligent control adjusts evaporation efficiency.



DJTN 单效外循环真空浓缩回收器  
DJTN single effect external circulation vacuum recovery concentrator



DJT 单效外循环板式冷凝真空浓缩器  
DJT single-effect external circulation plate type condensing vacuum concentrator



DJTS 单效外循环真空浓缩回收器(自动防爆型)  
DJTS single effect external circulation vacuum cream reclaim concentrator



# 强制循环蒸发器 Forced Circulation Evaporator

## 产品结构 Product Structure

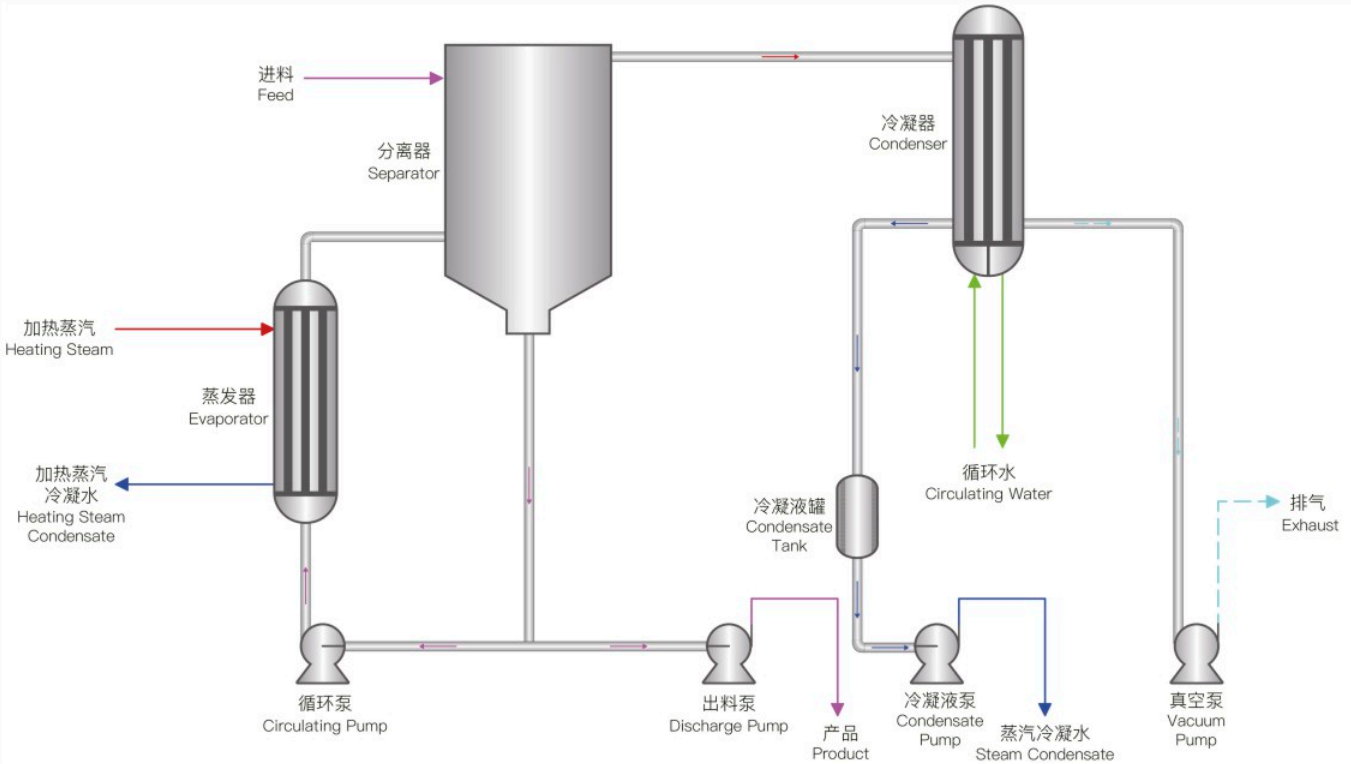
加热列管采用水平/垂直管壳式换热器或板式换热器。闪蒸罐与分离器在换热器和循环泵上方，组成高效蒸发分离系统。

Utilizes horizontal/vertical shell-and-tube heat exchangers or plate heat exchangers for heating tubes. The flash tank and separator are positioned above the heat exchanger and circulation pump, forming a high-efficiency evaporation-separation system.

## 运行原理 Operating Principle

循环泵推动液体在列管内循环流动，液体在高于常压沸点的压力下被加热至过热状态。随后液体进入分离器，压力迅速降低，部分液体瞬间闪蒸沸腾。得益于持续的液体循环，管内流速与温度调控灵活，可适配不同产品特性，摆脱预设温差的限制。

A circulation pump drives liquid flow through heating tubes. The liquid is heated under pressure above its normal boiling point to a superheated state. Upon entering the separator, rapid pressure reduction triggers instantaneous flash evaporation. Adjustable flow velocity and temperature via continuous circulation enable adaptation to diverse product characteristics, eliminating dependency on preset temperature differences.



## 核心优势 Advantage

- 长效稳定：沸腾蒸发在分离器内进行，减少加热表面结壳与沉淀，降低列管结垢风险，延长使用周期。
- 换热高效：循环泵精准控制管内流速，优化换热表面，热量传递高效稳定。
- Long-Term Stability: Flash evaporation occurs within the separator, minimizing scaling and sedimentation on heating surfaces, reducing tube fouling risks, and extending operational cycles.
- High Heat Transfer Efficiency: The circulation pump precisely controls flow velocity, optimizing heat exchange surfaces for efficient and stable thermal transfer.





# 刮板蒸发器 Scraper-Type Evaporator

## 产品结构 Product Structure

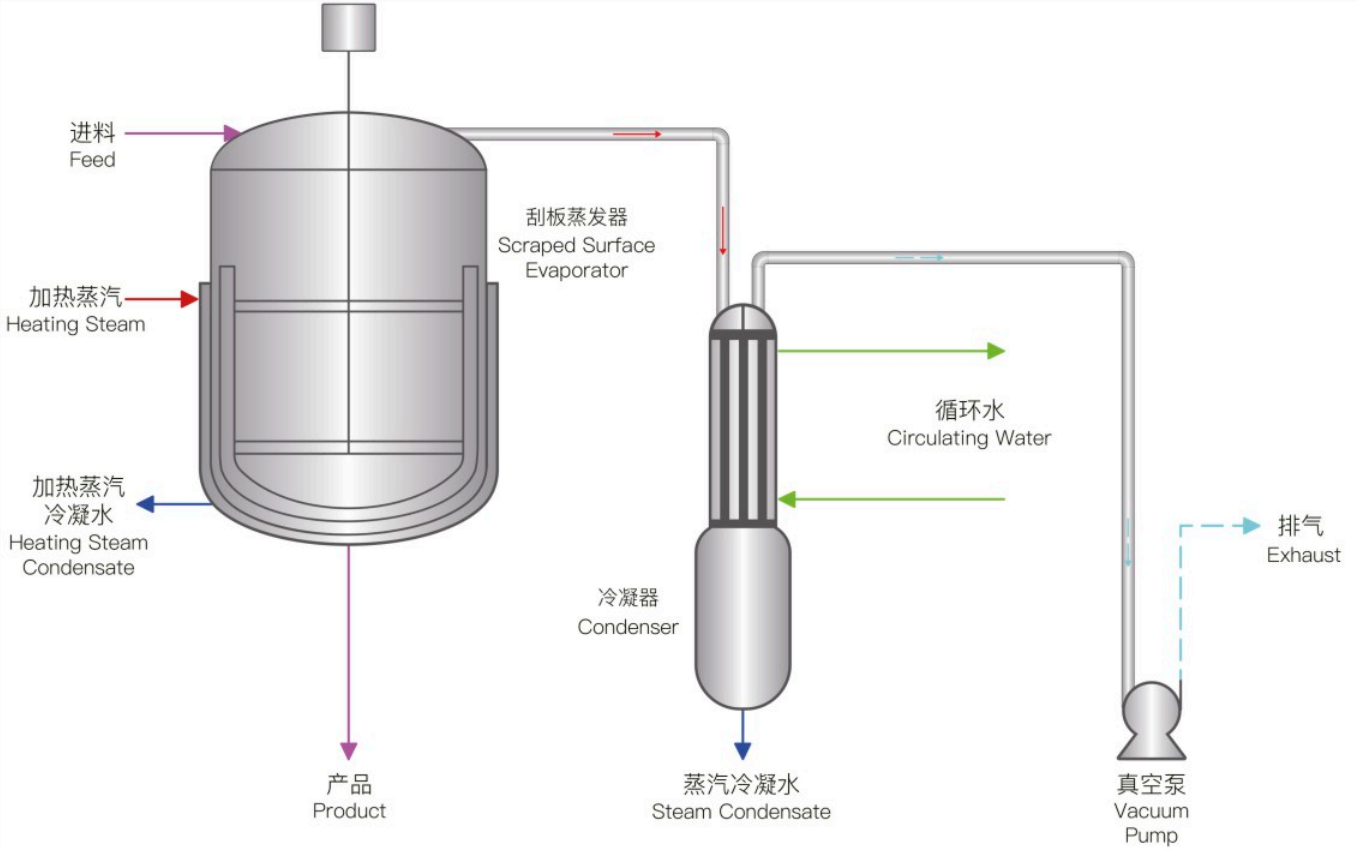
由加热夹套、蒸发筒体、刮板组件、集液装置等组成。加热夹套环绕蒸发筒体，筒体内刮板组件通过旋转轴转动。

Comprises a heating jacket, evaporation cylinder, scraper assembly, and liquid collection system. The heating jacket surrounds the evaporation cylinder, while the scraper assembly inside the cylinder rotates via a central shaft.

## 运行原理 Operating Principle

待浓缩的物料通过进料管道，进入蒸发器顶部，依靠重力和刮板的旋转推动，均匀分布在蒸发筒体内壁，形成厚度均匀的液膜。加热夹套内通入蒸汽或其他热介质，对筒体内物料进行加热。物料在刮板的持续刮动下，迅速蒸发，产生的二次蒸汽从蒸发器顶部排出，进入后续的冷凝回收装置。随着物料不断蒸发，浓缩后的物料沿筒体内壁向下流动，通过底部的出料口排出蒸发器，实现连续化生产。

Material enters the evaporator top via feed pipes and is uniformly distributed along the inner wall by gravity and rotating scraper blades, forming an even film. Heating via steam or thermal media in the jacket promotes rapid evaporation. Continuous scraping action renews the film surface, enhancing heat transfer. Generated secondary vapor exits through the top for condensation, while concentrated product flows downward and discharges through the bottom outlet for continuous operation.



## 核心优势 Advantage

- 适应性强：能处理高粘度、易结晶、易结垢及热敏性物料。
- 高效传热传质：物料在筒体内壁形成薄液膜，增大传热面积，提高传热系数。
- 操作灵活：刮板转速、进料量和加热介质温度灵活调整，满足多样化要求。
- 清洗便捷：拆卸清洗便捷，降低维护成本。
- Strong Adaptability: Handles high-viscosity, crystallization-prone, scaling-prone, and heat-sensitive materials.
- Efficient Heat & Mass Transfer: Thin liquid film on the cylinder wall maximizes heat transfer area and coefficient.
- Operational Flexibility: Adjustable scraper speed, feed rate, and heating medium temperature to meet diverse requirements.
- Easy Maintenance: Simplified disassembly and cleaning reduce downtime and upkeep costs.

# WFE 薄膜蒸发器 Wiped Film / Thin Film Evaporator

## 产品结构 Product Structure

由加热筒体、布料装置、刮膜组件、汽液分离装置和出料系统构成。加热筒体为夹套结构，刮膜组件位于加热筒体内，由电机驱动。汽液分离装置在设备顶部。

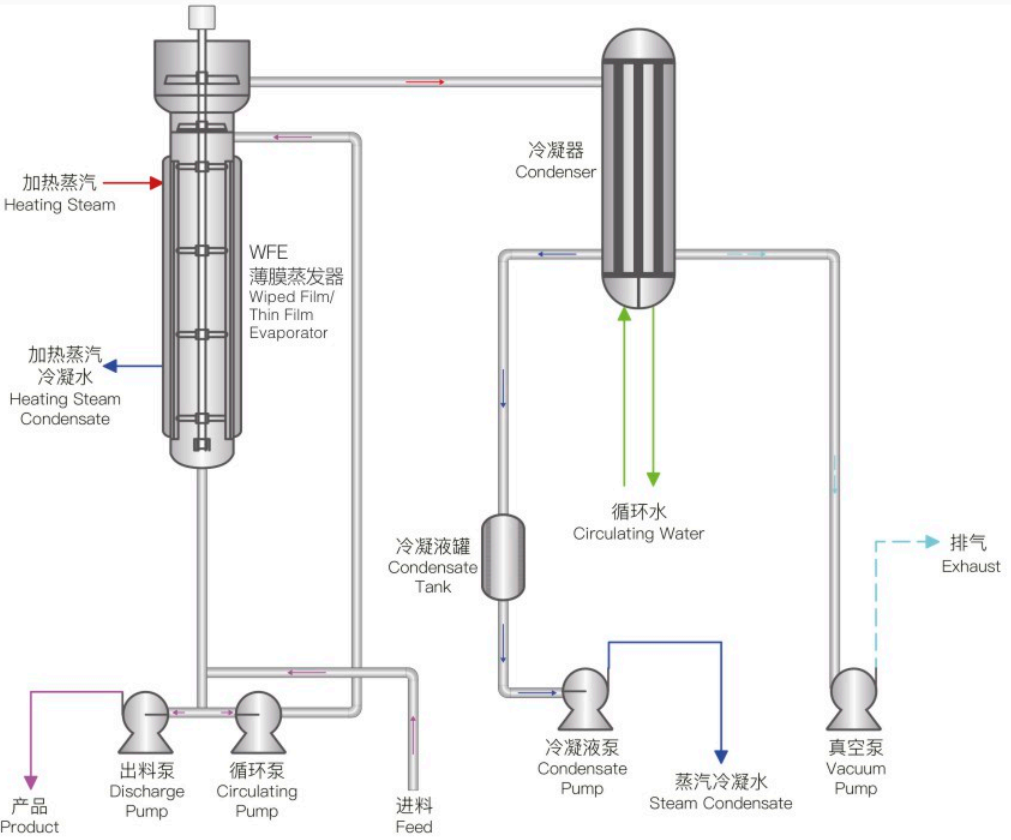
## 运行原理 Operating Principle

物料经进料管道，输送至蒸发器顶部的布料装置。布料装置将物料均匀分配至筒体内壁，在刮膜器的旋转作用下，物料迅速在筒体内壁形成均匀的薄膜。加热夹套内的热媒持续向筒体内传递热量，物料薄膜在热量作用下迅速蒸发。

刮膜器的高速旋转不仅使物料均匀分布，还强化了传热与传质过程。产生的二次蒸汽向上运动，进入汽液分离装置。浓缩后的物料在重力与刮膜器的推动下，沿筒体内壁向下流动，通过底部出料口排出。二次蒸汽经汽液分离装置净化后从顶部排出，进入冷凝回收系统。

Consists of a heating cylinder, material distribution device, film-scraping assembly, vapor-liquid separator, and discharge system. The heating cylinder features a jacketed structure, with the film-scraping assembly inside driven by an electric motor. The vapor-liquid separator is located at the top of the unit.

Material is fed to a distribution device at the evaporator top, where rotating wipers spread it into a uniform thin film on the heated inner wall. Thermal energy from the heating jacket induces rapid evaporation. High-speed wiper rotation optimizes heat/mass transfer while driving the concentrated product downward for discharge. Secondary vapor passes through a vapor-liquid separator for purification before condensation.



驱动装置  
Driver

布膜装置  
Feed distributor

## 核心优势 Advantage

- 适应性强：能处理高粘度、热敏性、易结晶结垢物料。
- 高效传热传质：极薄液膜，提高传热系数。
- 操作灵活：可调节刮膜器转速、进料流量、热媒温度等，精准控制过程。
- 维护便捷：部件拆卸方便，易清洗维护。
- Strong Adaptability: Suitable for high-viscosity, heat-sensitive, crystallization-prone, and scaling-prone materials.
- Efficient Heat & Mass Transfer: Ultra-thin liquid film maximizes heat transfer coefficient.
- Operational Flexibility: Adjustable parameters (scraper speed, feed flow rate, heating medium temperature) enable precise process control.
- Easy Maintenance: Modular design allows quick disassembly, cleaning, and upkeep.

刮膜转子  
Rotor

加热筒体  
Heat Jacket





多效蒸发  
Multi-Effect Evaporation

产品结构 Product Structure

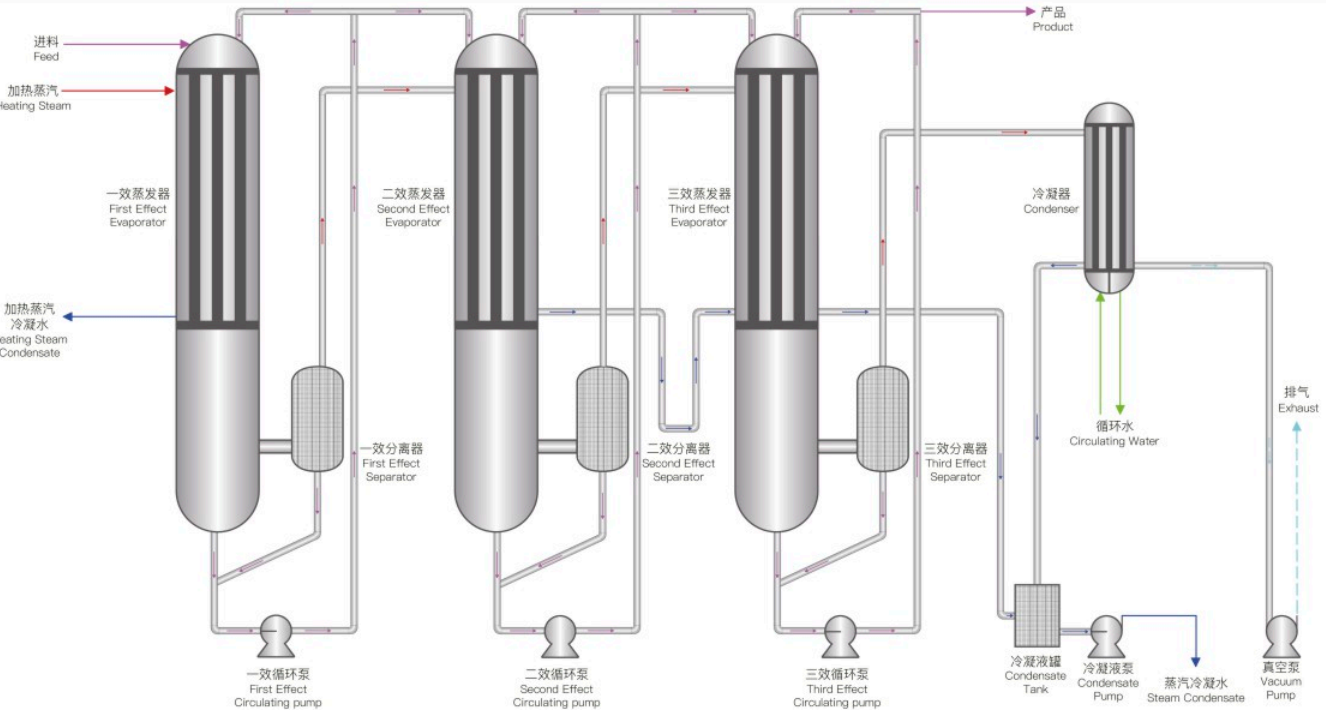
由预热器、蒸发器、分离器、冷凝器、真空系统、控制系统组成。蒸发器多级串联，每级配备加热室和分离室，通过管道和阀门实现物料与蒸汽高效循环。

Comprises preheaters, evaporators, separators, condensers, vacuum systems, and control systems. The evaporators are connected in multiple stages (effects), each equipped with a heating chamber and separation chamber. Piping and valves enable efficient circulation of materials and steam across stages.

运行原理 Operating Principle

物料进入预热器加热，随后进入第一效蒸发器，在加热蒸汽作用下部分蒸发，产生的二次蒸汽作为第二效的热源，依次类推，实现热能多次利用。每一效的蒸发压力逐级降低，使物料在较低温度下高效蒸发，减少热敏性成分破坏。最后浓缩液从未效排出，二次蒸汽经冷凝回收，大幅降低能耗。

Preheated material enters the first effect evaporator, where partial evaporation occurs using primary steam. Subsequent effects utilize secondary vapor from the previous effect as heat sources, progressively lowering operating pressures to enable low-temperature evaporation. This cascading energy reuse minimizes thermal degradation of heat-sensitive components. Final concentrate discharges from the last effect, with condensed vapor recovered to significantly reduce energy consumption.



核心优势 Advantage

- 节能高效：多级串联设计，重复利用二次蒸汽，降低运行成本。
- 温和蒸发：低温逐级蒸发，适合热敏性物料(如食品、药品)。
- 适应性强：可处理高粘度、易结垢、含固量高的物料。
- 自动化控制：配备PLC系统，实时监控温度、压力、浓度等参数。
- Energy Efficiency: Multi-stage design reuses secondary steam, drastically reducing operational costs.
- Gentle Evaporation: Low-temperature, staged evaporation protects heat-sensitive materials (e.g., food, pharmaceuticals).
- Adaptability: Handles high-viscosity, scaling-prone, and high-solid-content solutions.
- Automated Control: Integrated PLC system monitors and adjusts temperature, pressure, concentration, and other parameters in real time.





# MVR 机械蒸汽再压缩技术

## MVR Technology

### 产品结构 Product Structure

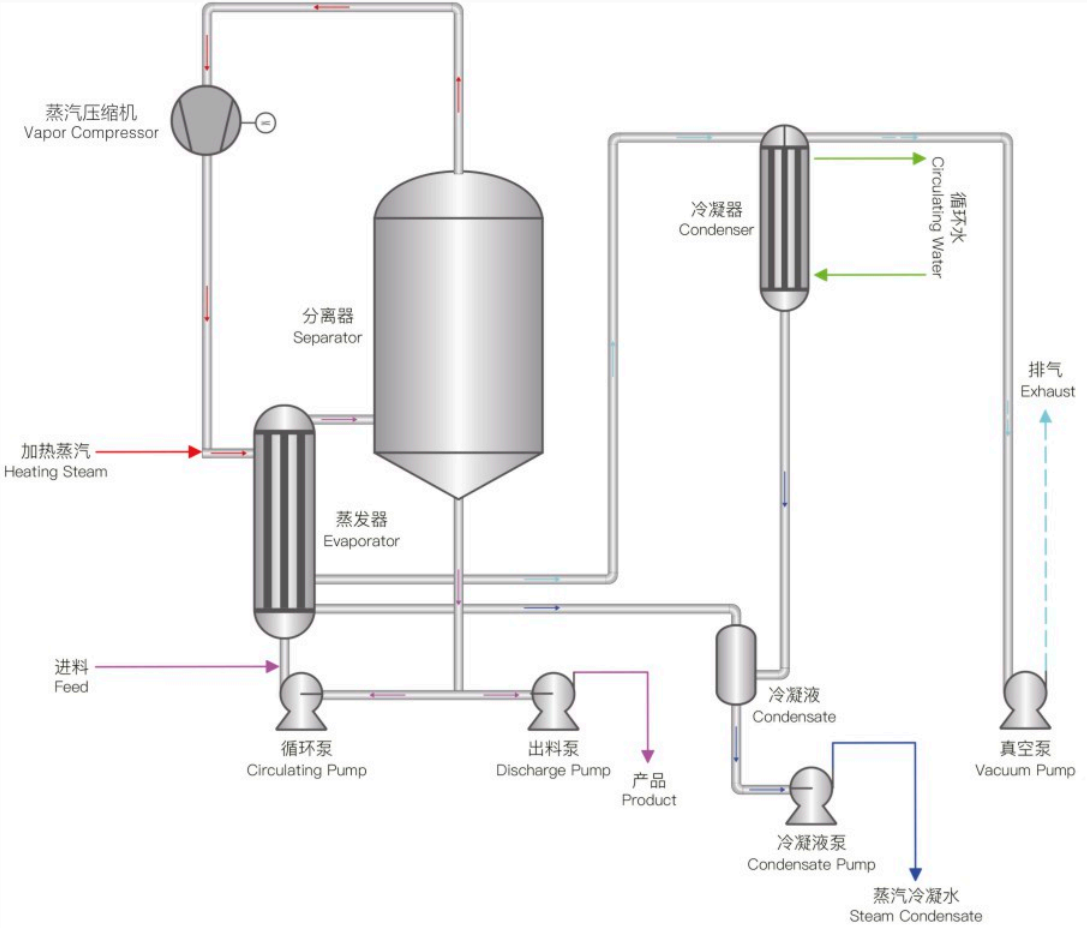
由蒸发器、蒸汽压缩机、预热器、分离器、真空系统及智能控制系统组成，采用高效换热管束和自动化控制设计。

It consists of an evaporator, steam compressor, preheater, separator, vacuum system and intelligent control system, and adopts efficient heat exchange tube bundle and automated control design.

### 运行原理 Operating Principle

物料经预热后进入蒸发器，在换热管束内被加热蒸发，产生的二次蒸汽经蒸汽压缩机压缩，提升其温度和压力后，重新作为热源返回蒸发器，形成闭路循环。系统仅需少量启动蒸汽，后续运行中通过电能驱动压缩机回收热能，大幅降低能耗。蒸发后的浓缩液从底部排出，冷凝水可回收利用，实现近乎零废排放。

Preheated material evaporates in heat exchanger tubes. Secondary vapor is compressed to higher temperature/pressure by a steam compressor and recycled as the primary heat source, forming a closed-loop system. After initial steam startup, continuous operation relies on compressor-driven energy recovery, drastically reducing energy use. Concentrate discharges from the bottom while condensate is reclaimed, achieving near-zero waste emission.



蒸汽压缩机 Vapor Compressor

### 核心优势 Advantage

- 极致节能：热能利用率 > 90%，比多效蒸发节能60%–80%。
- 环保低碳：无锅炉蒸汽，废水减量95%。
- 智能稳定：全自动调节运行参数。
- 紧凑灵活：模块化设计，可扩展(单效或多效组合)。
- Extreme energy saving: The heat energy utilization rate is >90%, saving 60%–80% more than multi-effect evaporation.
- Environmental and low-carbon: no boiler steam, wastewater reduction by 95%.
- Intelligent and stable: fully automatic adjustment of operating parameters.
- Compact and flexible: modular design, scalable (single or multi-effect combination).





# 纯电热泵蒸发 Full Electric Heat Pump Evaporation

## 产品结构 Product Structure

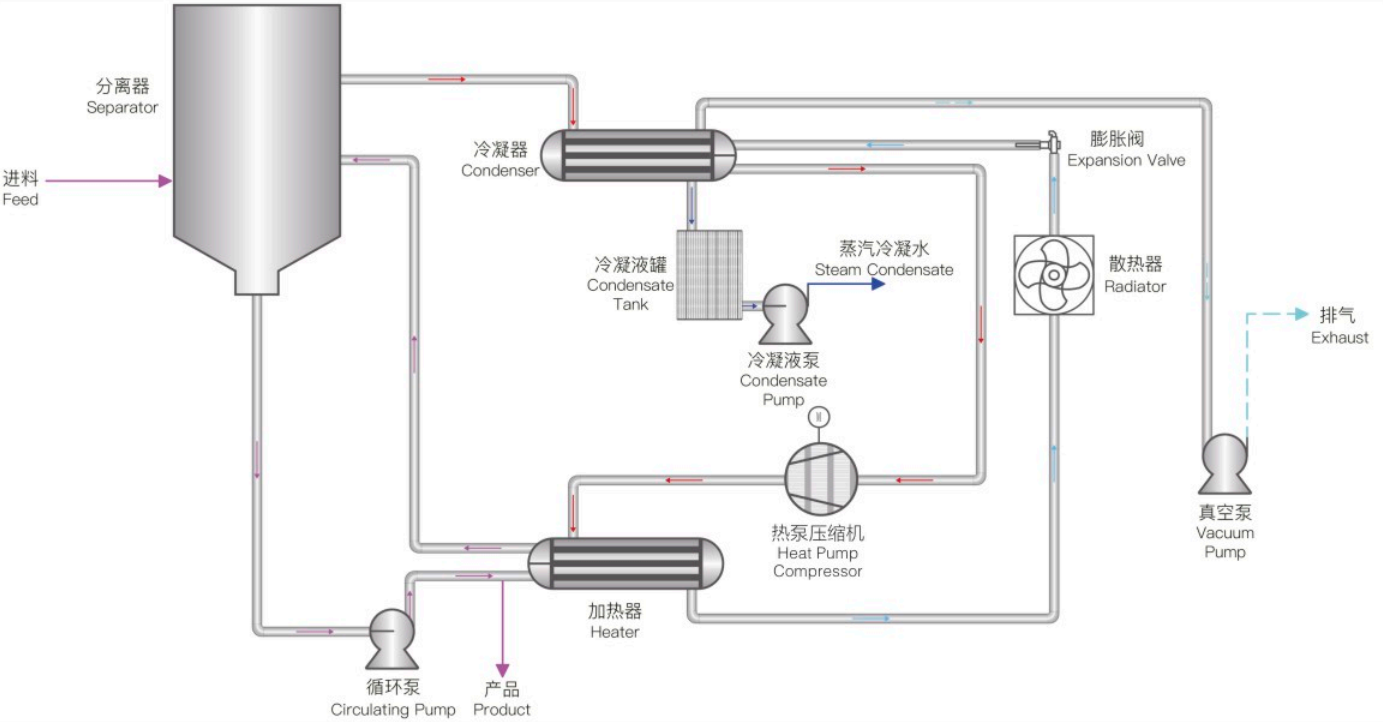
由蒸发器、热泵压缩机、冷凝器及智能控制系统组成，采用高效换热器与热泵机组实现热能循环。

It consists of an evaporator, heat pump compressor, condenser and intelligent control system, and uses high-efficiency heat exchanger and heat pump unit to realize thermal energy circulation.

## 运行原理 Operating Principle

物料经预热后进入蒸发器，在低温条件下蒸发产生二次蒸汽。热泵压缩机将低温二次蒸汽压缩升温，转化为高温热源重新输送到蒸发器加热物料，形成闭式热能循环。蒸发过程中，冷凝水可回收利用，浓缩液从系统底部排出。整个系统仅需少量电能驱动热泵，即可实现高效蒸发，大幅降低能耗。

Material evaporates under low-temperature conditions to generate secondary vapor. A thermal pump compressor upgrades the low-temperature vapor into high-grade heat for reuse in the evaporator, creating a closed thermal cycle. Only minimal electrical energy is required to drive the compressor, enabling high-efficiency evaporation with condensate recovery and concentrated product discharge.



## 核心优势 Advantage

- 超低能耗：能耗仅为传统设备30%–50%。
- 低温蒸发：工作温度可低至30℃，保护热敏成分。
- 环保清洁：无锅炉废气排放，符合绿色生产要求。
- 智能控制：全自动精准调节。
- 紧凑设计：模块化设计，占地小。

- Ultra-low energy consumption: The energy consumption is only 30%–50% of traditional equipment.
- Low temperature evaporation: The working temperature can be as low as 30℃ to protect the thermally sensitive components.
- Environmental and clean: No boiler exhaust emissions, meets green production requirements.
- Intelligent control: fully automatic and precise adjustment.
- Compact design: modular design, small footprint.



智能控制系统  
Intelligent Control System

产品全生命周期服务  
Product Life Cycle Service

RTC-Evap蒸发系统模块集成智能控制平台，以数字化与自动化驱动效能升级。  
Evaporation System Module integrated with Intelligent Control Platform, driven by digitization and automation to enhance operational efficiency.

