

Single-Effect External Circulation Evaporator

The single-effect external circulation evaporator concentrates solutions using an external circulation loop to enhance heat transfer. It is designed for gentle evaporation at low temperatures, making it suitable for heat-sensitive materials.



Overview

Single-Effect External Circulation Evaporator

The single-effect external circulation evaporator is specialized pharmaceutical equipment designed for efficient solution concentration. By utilizing an external circulation loop, the system significantly enhances heat transfer and evaporation efficiency while maintaining gentle processing conditions. Its robust design, featuring a vertical cylindrical vessel and integrated vapor-liquid separator, ensures uniform evaporation, making it ideal for processing heat-sensitive materials in pharmaceutical applications.

Technical Specifications

Process Type	Single-Effect External Circulation
Primary Application	Pharmaceutical Industry, Heat-sensitive Materials, Solution Concentration

System Components

Included Components

- Vertical cylindrical vessel
- External heat exchanger
- Vapor-liquid separator
- Condensate recovery unit

Key Features

Enhanced Heat Transfer • Low Temperature Operation • Uniform Evaporation • Easy Cleaning