

Thin Film Evaporator

Designed
for the most
challenging
separation
tasks



Evaporation
Technology

sms-vt.com

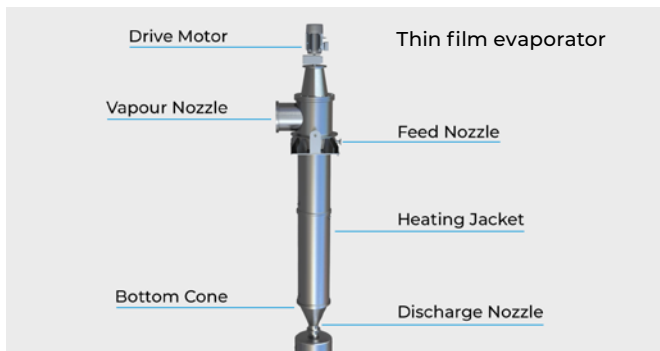
SMS
Inside
Excellence

The Problem Solver



SMS combines more than 60 years of experience in manufacturing and application of thin film evaporators. They are available in an unchallenged variety of different rotor designs, horizontal or vertical orientation as well as cylindrical and conical shape for co-current and counter-current vapour flow. Therefore, they are designed for the most challenging thermal separation tasks.

The evaporator for demanding applications



Unique advantages

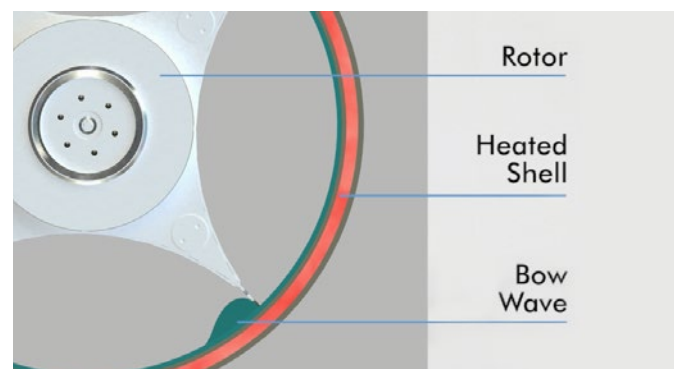
- ✓ Reliable continuous processing of viscous, fouling, soiled, contaminated and temperature-sensitive liquids
- ✓ Gentle treatment due to short residence time and narrow residence time distribution
- ✓ High evaporation performance
- ✓ Low product hold-up with minimal losses in case of product changes
- ✓ Processing of liquids with high boiling points, which are hard to achieve with other evaporation equipment

Perfectly adapted to individual needs

- ✓ Distillation
- ✓ Separation
- ✓ Concentration
- ✓ Stripping
- ✓ Deodorisation
- ✓ Degassing
- ✓ Reaction
- ✓ Continuous processing

Typical applications

- ✓ Bisphenol A
- ✓ Butanediol (BDO)
- ✓ Caprolactam
- ✓ Glycol
- ✓ Acetic acid
- ✓ Epoxy resin
- ✓ Formaldehyde
- ✓ Polyacrylonitrile
- ✓ Lecithin
- ✓ Tall oil
- ✓ Solvent
- ✓ Waste oil
- ✓ Coffee
- ✓ Sorbitol
- ✓ TDI pre-polymer
- ✓ MDI
- ✓ Fruit and vegetable extracts
- ✓ Catalysator recovery
- ✓ Cacao mass



For the thermal separation of a mixture, a thin film is applied to the heated wall of a cylindrical or conical evaporator. SMS achieves an outstanding performance ensuring the full use of this heated wall.



INFO

www.sms-vt.com/technology/evaporation-technology/thin-film-evaporator/