



Short-path Evaporator (LiquiMol)

- 1 Heating surface from 0.1 to 60 m²
- 2 Heating temperature up to 450°C
- 3 Operating pressure up to 0.001 mbar
- 4 Specially customised rotor systems for the product

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Short-path evaporation is a thermal separation process. Generally, the short-path evaporator is very similar to the thin-film evaporator. The only difference is the fact that a condensation unit is already integrated. The medium to be separated is fed at the head, flows downward as a result of gravitational force, and is separated into distillate and residue. The vapour streams inward to the condenser where it is liquefied and subsequently discharged as distillate. The non-evaporating share runs downward along the heated wall and is drained off as concentrate. To ensure a high mass transfer, the film is agitated by means of a wiper system, thus creating high turbulence. Non-condensed vapours are caused to precipitate in the downstream cold trap. Non-condensing gases are withdrawn by the high-vacuum pumping unit.

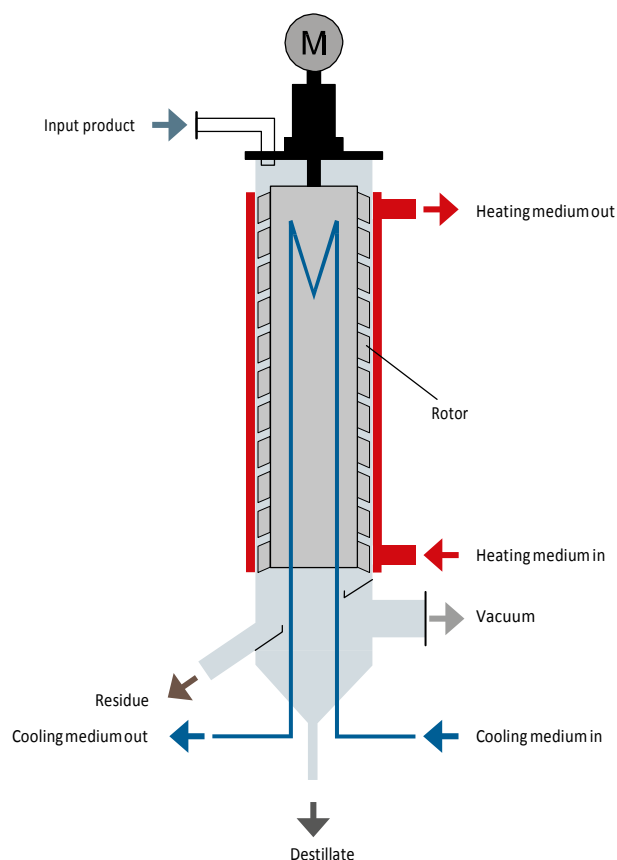
The direct installation of the condenser in the evaporator allows short paths of the vapours between the film surface and the condensation surface. Thus, the pressure loss can be reduced enormously, and operating pressures up to 0.001 mbar (0.1 Pa) are absolutely possible. This allows the separation of substances which cannot be distilled under higher pressure.

Due to Kremsmueller's special know-how, a multitude of elaborate rotor systems are available which significantly influence the performance of a separation task.

In this field, Kremsmueller offers a wide range of applications in its in-house technology centre, starting from feasibility studies to laboratory and semi-industrial tests to the production of sample quantities. In all this, Kremsmueller can rely on its expert employees with decades of experience.

Typical applications

- + Vitamins
- + Isocyanates
- + Fatty acids
- + Biodiesel
- + Lactic acid
- + Monoglycerides
- + Glycols and glycol derivatives



Functional principle Shortpath Evaporator (LiquiMol)

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