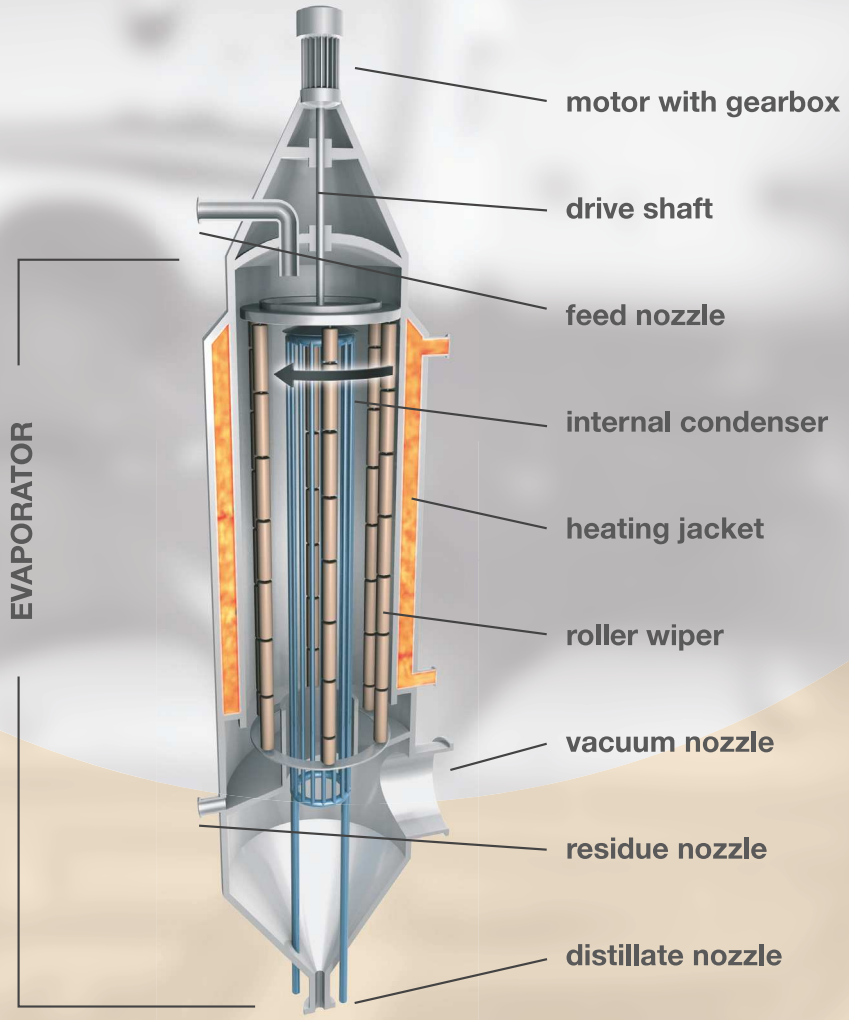
SHORT PATH **DISTILLATOR KD 300**



Evaporator with internal condenser of a KD 300

Heating surface .....3 m²
Material 1.4571
Weight..... 1.160 kg
Total height.....4 m
Diameter.....0.6 m
Estimated feedrate .....500 kg/h
Operating pressure .....0.001 mbar

The product to be treated flows along the inside wall of the evaporator as a liquid film from the supply point to the discharge point. The residence time in the apparatus is very short which means that thermal stress is minimal. We have developed a unique wiper system for the operation inside the evaporator which ensures even distribution of liquid on the evaporator surface and ideal mixing of the product which flows downwards. This means that light volatile substances are continuously moved to the film surface and evaporate more efficiently. Heating of the evaporator is made via heat transfer medium, e.g. thermal oil or steam.

Short Path Distillators
A special feature of this apparatus is that the vapors are condensed in an internally positioned condenser. The 'short path' of the vapor phase to the condenser results in only little pressure loss, meaning that extremely low pressures can be achieved. The UIC Short Path Distillators normally operate within a pressure range of 0.001 mbar and 1 mbar. Therefore, in Short Path Distillators, in comparison to Thin Film Evaporators, distillation can take place at considerably lower temperatures. This process is most gentle for the product.