



German Engineering

## VACUDEST ZLD. Sustainability creates added value.

## Even better results in your wastewater-free production. With the technology of tomorrow.

Our experts for wastewater-free production are continuously working on innovative solutions for your wastewater-free factory. With the help of the VACUDEST ZLD it is now possible to significantly improve the results of vacuum distillation with VACUDEST and to reduce costs even further.

The used wastewater produced in production processes repeatedly presents companies with the challenge of economical and sustainable disposal. With the wastewater treatment with VACUDEST, companies can reduce their wastewater volume and already lower the disposal costs by up to 70 %. However, the remaining residual water content of the residue can make complete disposal difficult.

Here, the VACUDEST ZLD technology sets new standards.

Through efficient energy recycling, high-quality energy is used in a second downstream evaporation stage to achieve a reduction of the residual water content to up to 20 %. The residue obtained can be processed into

compact concentrate. This results in savings in disposal costs of up to 50 %\* and reduces operating costs to a minimum.

Often, the resulting residues also contain valuable raw materials in the form of oils or dissolved salts, the reuse of which has economic potential. In this case, the recovered concentrate can be sold, for example in the form of auxiliary fuels, or reused in the company's own production.

A specially developed mixer-system prevents deposits to ensure optimum process performance. This means that the ZLD is permanently efficient and the maintenance effort remains low.

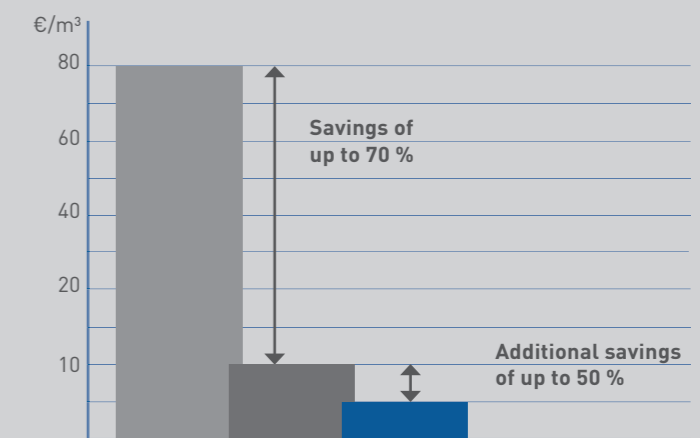
- ZLD**
- Low operating costs
  - Residual water content reduced to up to 20 %
  - 50 % less disposal costs
  - High process reliability
  - Low operating effort

\* In addition to wastewater treatment with VACUDEST



The VACUDEST ZLD is the perfect complement to our VACUDEST vacuum distillation systems. Thanks to the post-concentration, important raw materials can be recovered and partly used sustainably in production, for example as auxiliary fuels.

Reduction of disposal costs by up to another 50 %



- Disposal costs **before** treatment with VACUDEST
- Disposal costs **after** treatment with VACUDEST
- Disposal costs **after** treatment with VACUDEST and the post-concentrator ZLD