

HIGH EFFICIENCY **DIGESTATE CONCENTRATOR**



One of the biggest challenges of operating biogas plants is the treatment of the digestate that is created during the process. Taprogge has developed a high efficient digestate concentrator, based on the KLAREN self-cleaning evaporator.

In the self-cleaning evaporator a fluidized bed of cleaning particles is used that removes developing fouling layers on the tube side and increases heat transfer. The water recovery efficiency is high because the self-cleaning evaporator can concentrate to higher values.



The KLAREN-system

The KLAREN-system is a multi-stage self-cleaning evaporator operating under vacuum. It makes use of the available waste heat, is scalable and can handle a variety of diverse conditions on the respective biogas plants.

Performance Characteristics

Treatment Capacity/Feed	4000 l/h
Distillate capacity	4 l/kWhth
Distillate flow	2900 l/h
Digestate TS content	max. 5%
Concentration Factor	up to 1:47
Heat load	15 kWth

Based on a multi-effect evaporator with 3-stages.

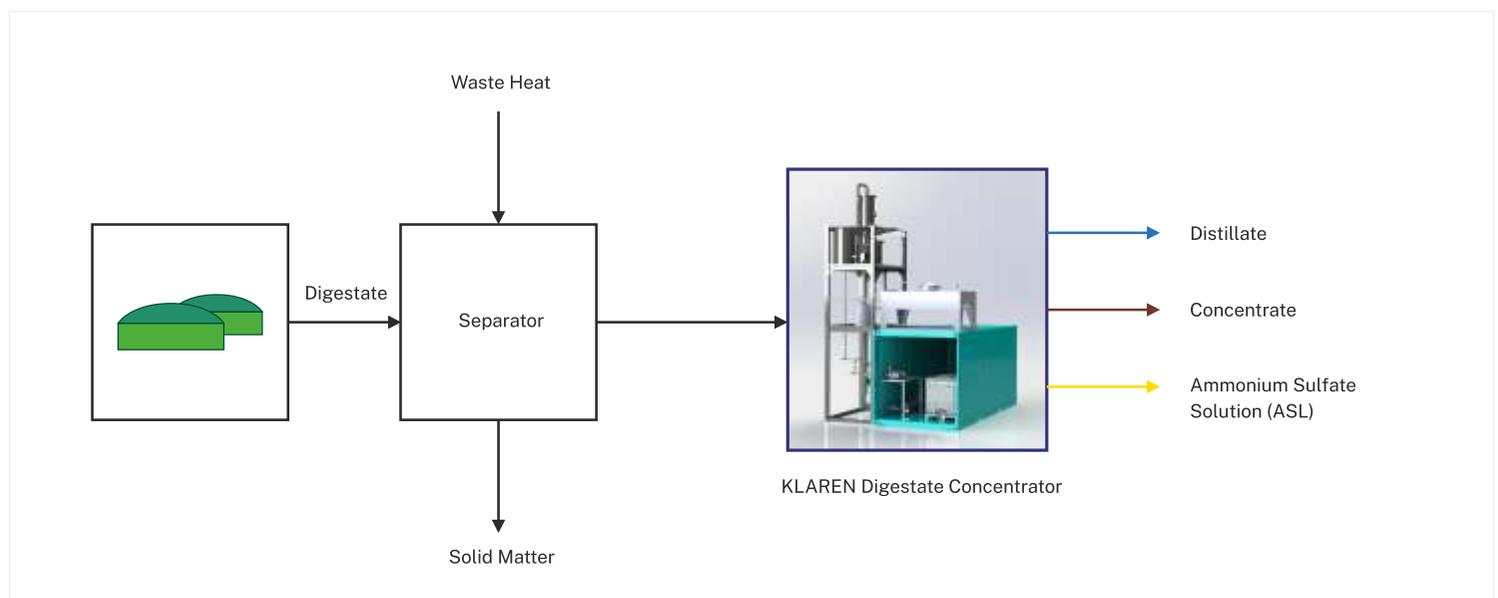


Advantages KLAREN Digestate Concentrator

Flexibility in the quality of the feed > High solid concentrations in the feed can be treated.

Higher Concentration > The self-cleaning technology allows a higher concentration of solids in the final concentrate.

Better heat transfer > Constant and higher heat transfer coefficient.



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