

DV-Evaporator on a food-waste AD plant: measured operating data

How does a thermal vacuum evaporator perform in day-to-day operation on food-waste digestate?

On a food-waste AD plant in Central Europe, a 4-stage DV-Evaporator has been running on CHP waste heat for more than 5 years. Across 48 fully documented operating days (Jul to Sep 2026) it was evaporating **87 % of the time**, produced **4.7 litres of distillate per kWh of heat** at around **1,580 l/h**, and reduced the volume to be stored and spread by **74 %**. The design value for this machine is 4.3 l/kWh.

The plant

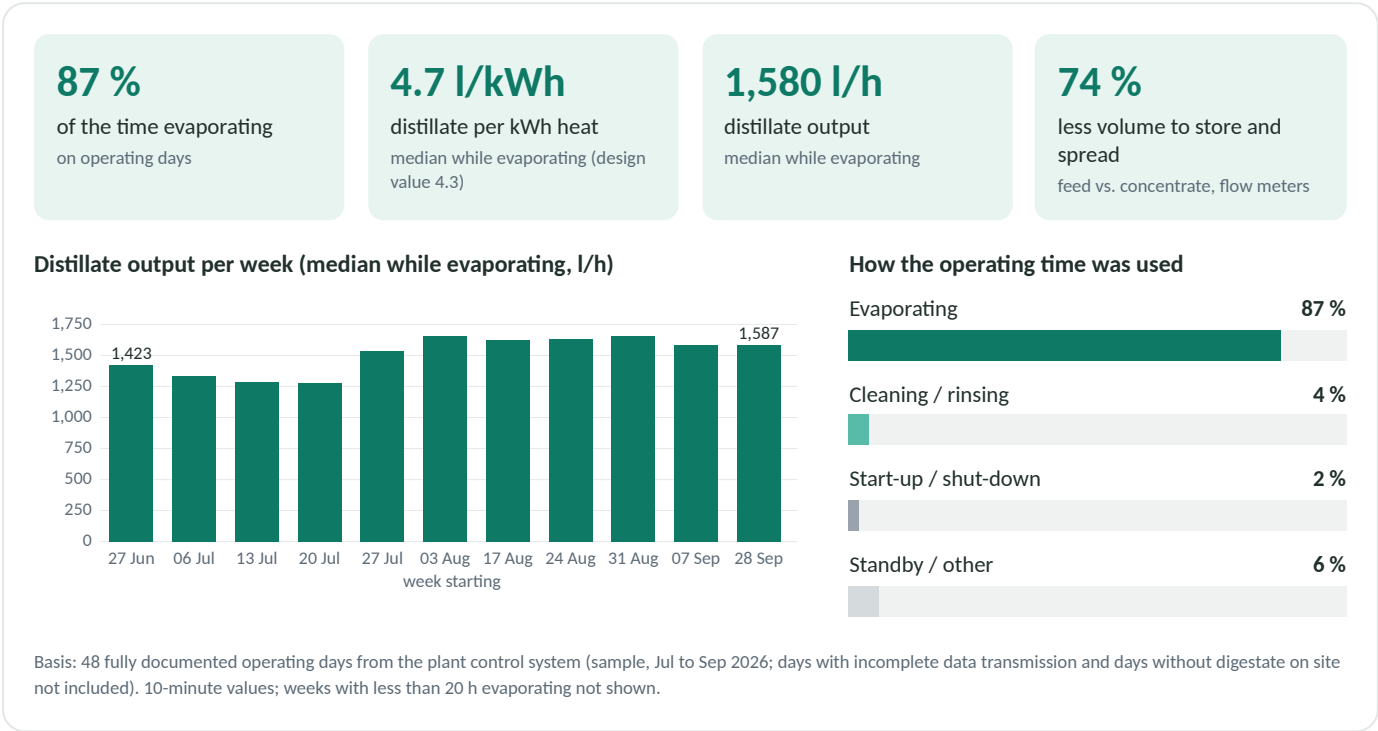
Input	food waste and food-industry residues
Machine	DV-Evaporator, 4-stage thermal vacuum evaporator with vapour scrubber for ammonium sulphate solution (ASL)
Heat source	CHP waste heat, approx. 320 kW average heat input while evaporating
In operation	for more than 5 years



The DV-Evaporator on site, during a customer visit

Where the products go

Distillate	collected and reused as process water in the depackaging line
Concentrate and ASL	taken over by a service provider as feedstock for further fertiliser production



Want to know what your digestate would do? Every project starts with a **framework concept and budget offer**. Before the binding offer, we run a **trial evaporation** with your own material in our laboratory.