



BIODIESEL EN 14214

Our short-path evaporator expertise
guarantees you the highest product quality!

www.gigkarasek.com



The biodiesel

Both the demand for biodiesel and its possible applications are steadily increasing. The choice regarding the manufacturing and cleaning process is crucial. With its short-path technology, GIG Karasek offers the possibility of achieving optimum quality in an approach that not only saves resources but is also environmentally friendly. Short path evaporators are used to distill fatty acid methyl esters in the final process step, in order to guarantee maximum product quality and purity. The process can be used for biodiesel from fresh vegetable oils (e.g. from rapeseed, sunflowers, etc.) as well as used edible oils.

The technology

The short-path evaporator delivers a particularly broad performance spectrum and gentle evaporation for sensitive substances. The advantage lies in the design of the short-path evaporator with built-in condenser, which greatly minimises the path the vapours take to the condenser, and leads to a gentler evaporation process in the fine vacuum. It is possible to carry out evaporation processes within a broad range by selecting the optimum heating surface, wiper blades and operating parameters.

The benefits

- ◆ Gentle evaporation technology for temperature-sensitive substances
- ◆ Efficient thermal separation technology due to short reaction and dwell times
- ◆ Constituents with a high boiling point do not reach the condenser thanks to efficient droplet separators
- ◆ Optimal product protection and quality
- ◆ High evaporation rates in fine vacuum
- ◆ Low pressure drop in the system

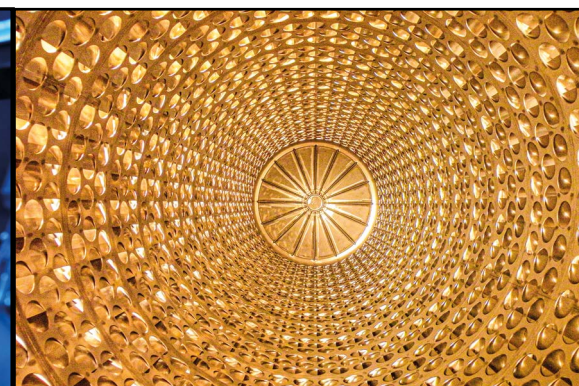
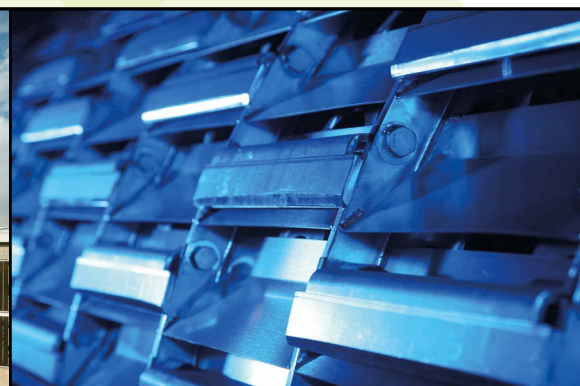
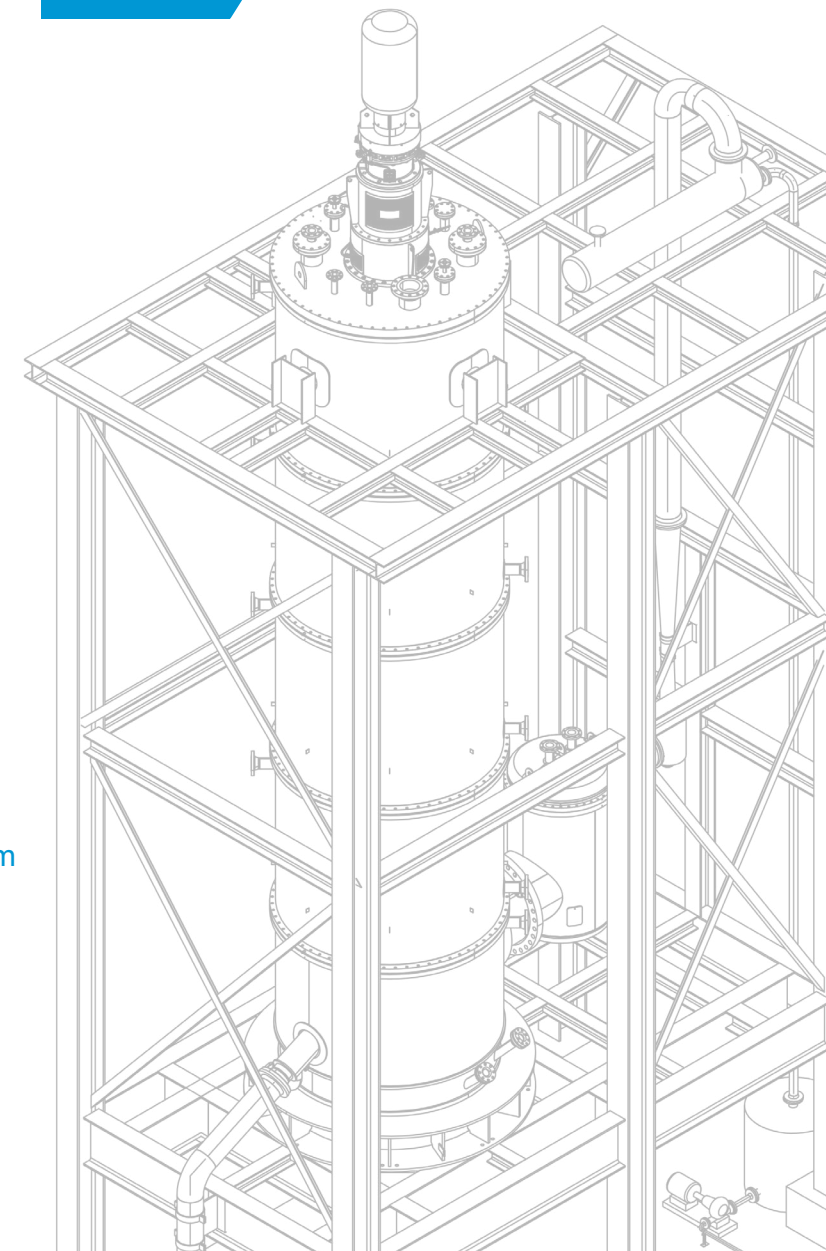
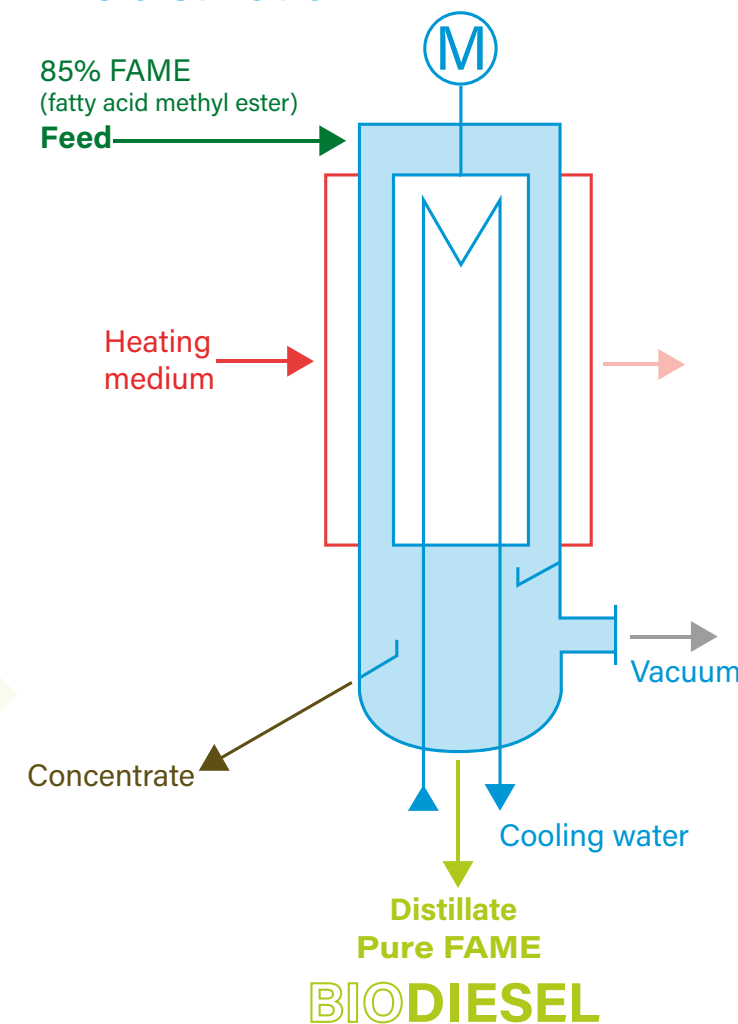
Your benefits with GIG Karasek

- ◆ Many years of engineering expertise
- ◆ Scale-up via internal pilot plant trials
- ◆ Optimum price-performance ratio
- ◆ Individual process solutions
- ◆ Efficient project completion
- ◆ High manufacturing quality
- ◆ Guaranteed spare parts service

The principle of biodiesel production



The distillation





We create individualized process solutions and plants ♦ efficiently ♦ competently ♦ cooperatively
♦ proactively ♦ in a targeted way ♦ reliably and according to your requirements.

Regardless of the scope of services, our goal is to optimise your production facilities
with customised solutions in terms of product quality and processes.

Where traditional evaporation technologies reach their limits, thin-film/short-
path technology is used. High competence and personal all-round service
make GIG Karasek your reliable partner for special challenges.



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