GIG KARASEK
A Member of Dr. Aichhorn Group

VISCOFILM

Our thin-film evaporator expertise for high viscosity media!

www.gigkarasek.com

The processing of highly viscous media

The high-viscosity evaporator facilitates the efficient evaporation of products with a viscosity of up to 5,000,000 mPas, providing the interface between conventional thin-film evaporator technology and polymer extrusion technology. An individual design as well as the use of a special rotor design offer a wide variety of usage options with a wide field of application.

The technology

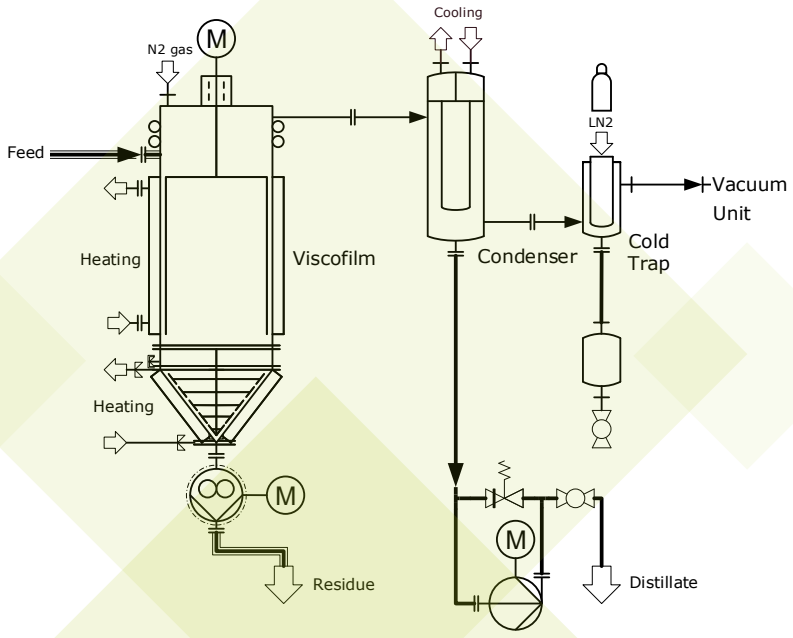
The structure of the high-viscosity evaporator consists of a heated cylindrical shell, a vapour outlet unit and a specially designed rotor for high-viscosity media. The product to be handled is distributed on the heating wall by means of the rotor, sheared by special rotor elements and conveyed downwards to the discharge system, where the vapours are separated by the vapour nozzle.

The benefits

- Robust construction due to special rotor geometry
- Short dwell time and high product quality
- Gentle handling of the product
- High specific heat throughput
- Highest concentrations possible
- Continuous operating method
- High product purities

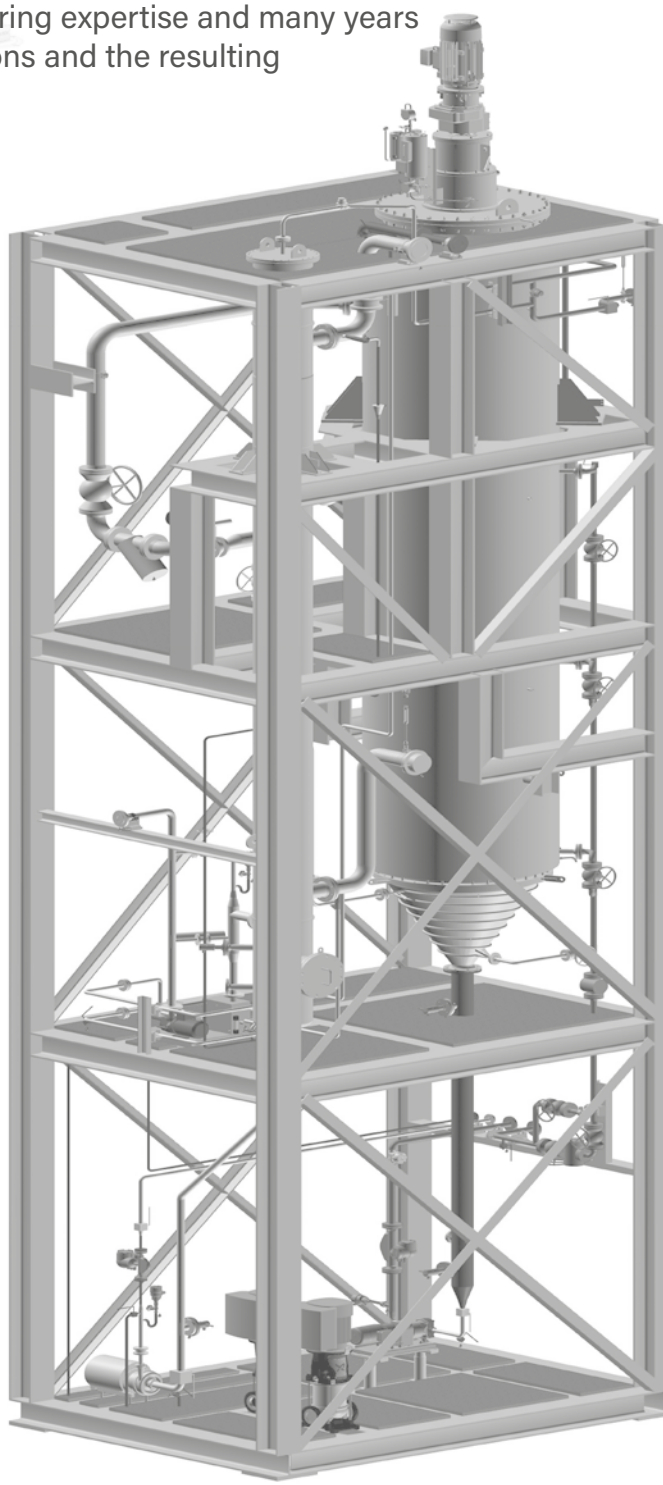
Your benefits with GIG Karasek

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



The customer-specific process solutions

Our in-house technical centre is equipped with pilot plants that bridge the gap between laboratory facilities and production plants. Sample materials are subjected to meaningful laboratory and pilot tests under different process conditions. Convincing engineering expertise and many years of experience form the basis for our customer-specific solutions and the resulting scale-ups.



The areas of application

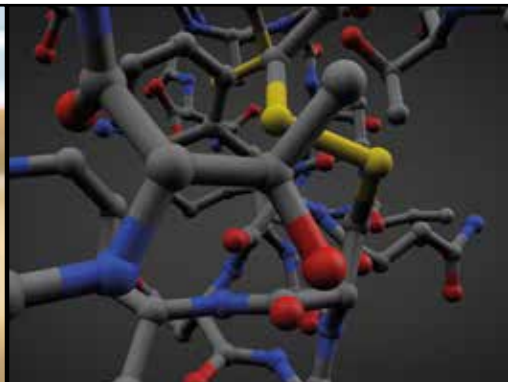
Concentration of highly viscous media
Solvent recovery
Demonomerisation

The typical products

Acrylic resins
Biopolymers (e.g. PLA)
Chemical intermediates
Elastomers
Resins
High-temperature plastics
Rubber
Adhesives
Food ingredients
Nylon
Polydextrose
Polyester
Polyethlyene
Polystyrene
Silicones
Styrene copolymers
Waxes

Our hard facts

Viscosities	from **100,000 mPas**	to **5,000,000 mPas**
Process pressures	from **1 mbara**	to **1000 mbara**
Temperature	from **20°C**	to **340°C**



GIG KARASEK
A Member of Dr. Aichhorn Group

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 thin-film evaporators reach their limits in terms of viscosity, the **Viscofilm** high-viscosity evaporator comes into play. High competence and personal all-round service make GIG Karasek your reliable partner for special challenges.

TÜV AUSTRIA ZERTIFIZIERT
TÜV AUSTRIA CERT GMBH
EN ISO 9001
2010032000252
ISO 45001
20116203007066

Hersteller zertifiziert
TÜV SÜD
EN 13849-1
EN ISO 3834-2

213 E gültig ab 05/2022

GIG Karasek GmbH
Neusiedlerstrasse 15-19
A-2640 Gloggnitz
✆ +43 / 2662 / 42780
office.gigkarasek@gigkarasek.at
www.gigkarasek.com