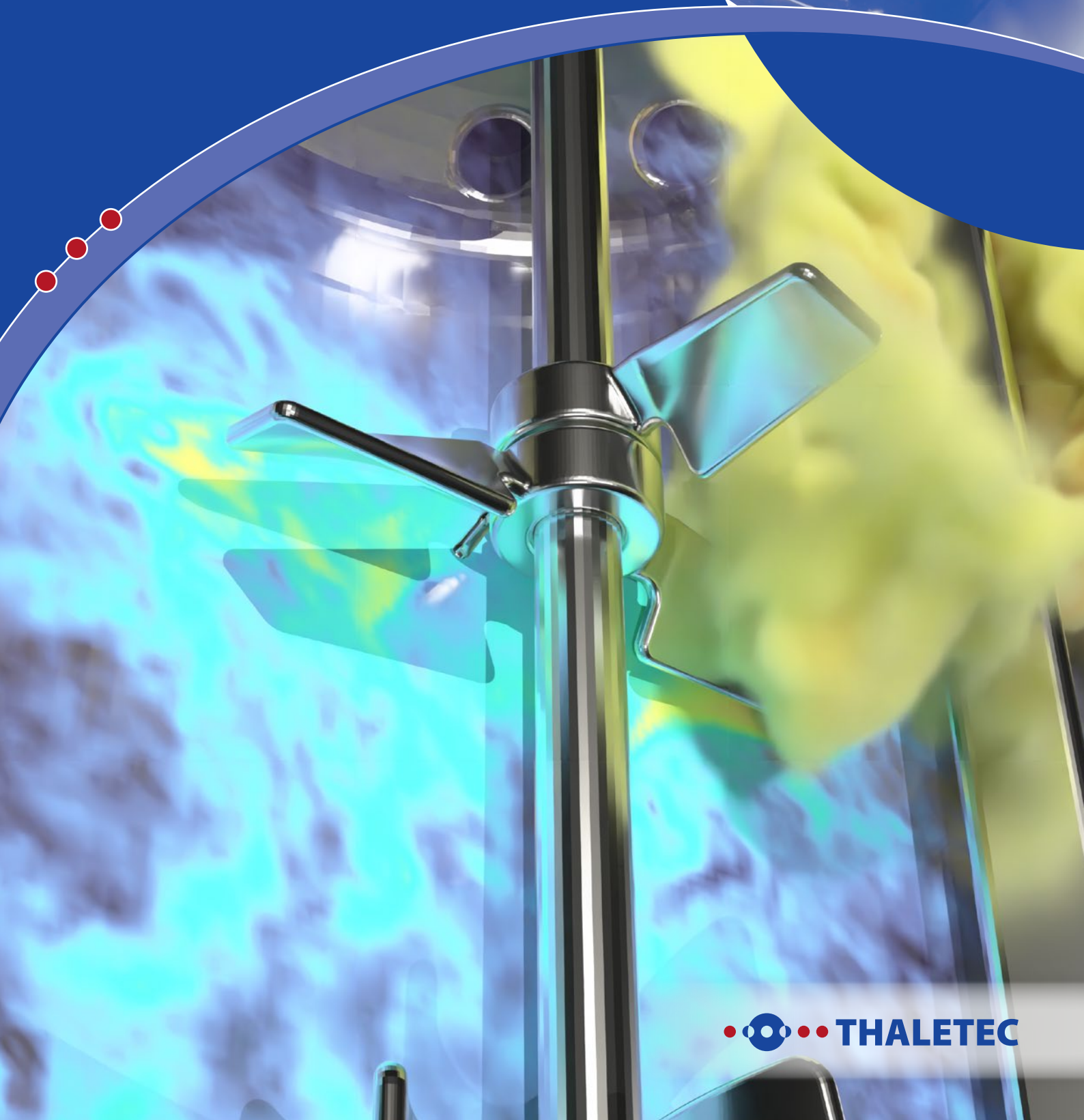
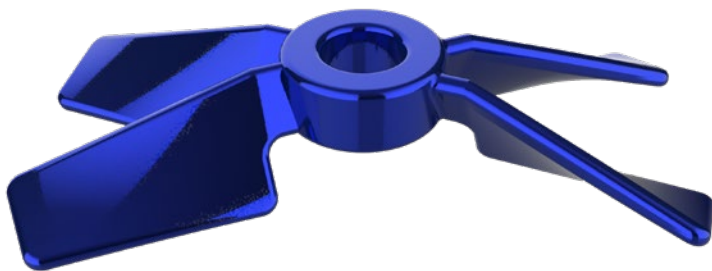


THALETEC UFT and UFX

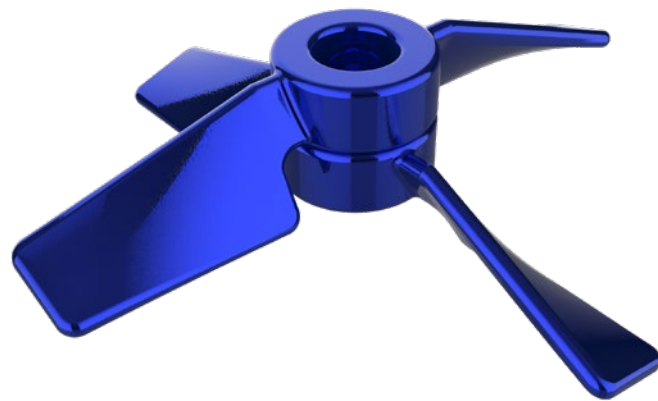
UltraFlowTurbine

**It hardly gets more
universal than this!**





⬆ 01 UFX-turbine

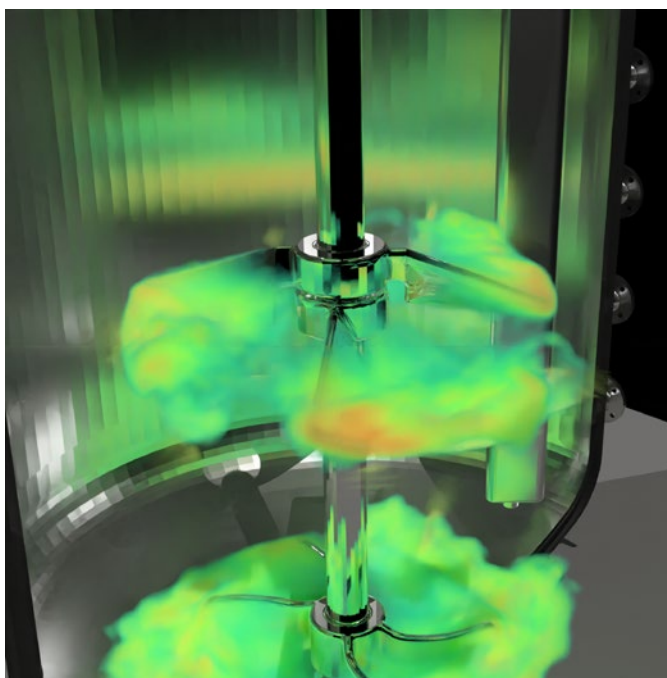


⬆ 02 UFT-turbine

Description

The THALETEC UFT-turbine is the glass-lined agitator **with the highest axial pumping capacity** of all THALETEC agitators. This design is therefore ideally suited for all applications where a pronounced axial flow in the glass-lined reactor is important. This includes, for example, processes such as suspending solids, homogenizing media or heat transfer in low to medium-high viscosity applications.

The THALETEC UltraFlowTurbine »UFT« is therefore particularly suitable for use in multipurpose plants in which different media are processed. The THALETEC UFT can also be optimally used in processes in which the agitating conditions, in particular the viscosity of the media, change in the course of the process.



⬆ 03 Energy distribution of the UFT-turbine as an optimal axial pumping turbine for the upper agitator levels.

UFT or UFX?

The UFT-turbine usually consists of two components: two agitator blades are mounted on each hub. The same stirring effect can also be achieved with a stirring element in which four blades are mounted on a hub in an X-shaped arrangement. This design is available for reactors up to 16,000 l as »UFX«.

Features

- Turbine with two, three or four blades
- Glass-lined with highly corrosion-resistant technical enamel, also electrically conductive (Flyer K098 )
- Optimized shaped agitator blades with variable pitch (protected design)
- Suitable for all shaft-hub connections according to the Multiflex and CryoTec principle (Flyer K165 )
- Available for glass-lined reactors up to 40,000 l nominal volume

Advantages

- Uniform axial flow pattern over entire turbine diameter
- Up to 50% higher pumping capacity or volume flow at the same power input compared to a previous axial conveying agitator, such as the THALETEC TAF-turbine. This results in significantly **higher energy efficiency!**
- Excellent **mixing efficiencies** for low and medium viscosity media
- High **flow velocities** at the bottom of the vessel for suspending solids
- High axial flow velocities at the vessel wall for improved heat transfer
- Ideal for use as second and third stage in multistage agitators in conjunction with bottom-mounted residual agitators
- Well suited for suspending and homogenizing tasks when used as lower stage in single or multi-stage stirrers
- Relatively **low power input** results in particularly **gentle agitation** with comparatively **low shear forces**
- **Lower operating costs** compared to similar other turbines

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