

Microwave Flow-Reactors in Advanced Process Technology

Application:

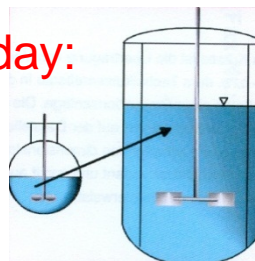
Ultrafast and homogenous Heating
Viscous Products in Microwave Flow
Heaters/Reactors.

Particular Advantages for Reactions:

- Reactions can be driven precisely close to decomposition temperature which gives exponential higher reaction speeds compared to conventional reaction-speeds.
- Due to homogenous **3D heating** **higher yield** and **less side products** compared to conventional reactors

Scale your application easily from lab to production

Yesterday:



Today:

...from Lab to Production...

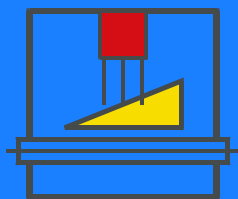
...using microwaves



1kW/2450MHz Mini
Flow-Reactor
for lab use



100kW/915MHz Flow-Reactor
for 1-2 t/h up to 30bar/300°C with a thermal
efficiency $\geq 70\%$



PÜSCHNER Microwaves continuous Flow
Reactor Family from 1 to 100kW Microwave
Power and Temperatures up to 350°C / 100bar

