

# Universal Reactor

Multipurpose reflux reaction, distillation and Azeotropic distillation plant

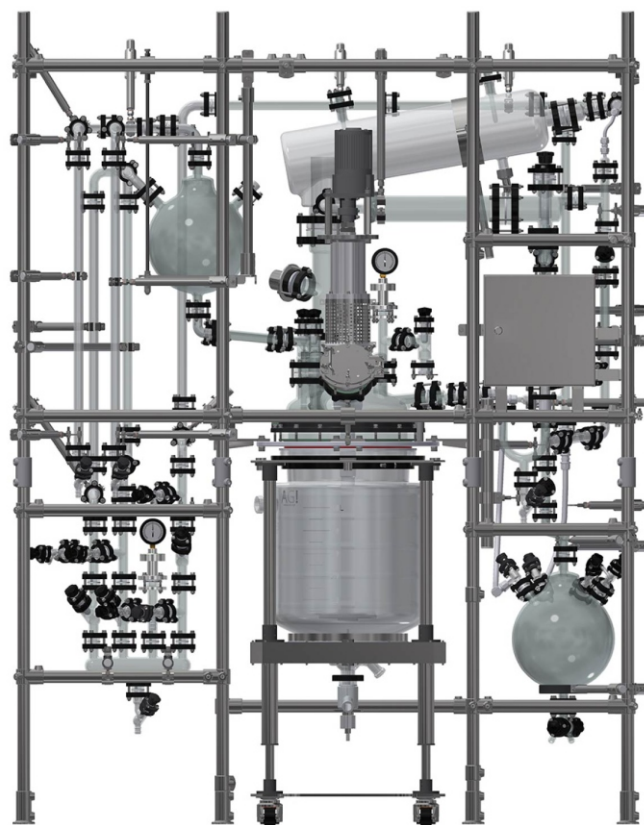
Global Universal Reactor is a very versatile system with a variety of features that meets the needs of most reaction processes including distillation, phase separation and dosing. We pour our knowledge and experience into its construction, resulting in a multifunctional chemical processing system that offers excellent value. Each system is built to order and so can be totally configured to meet your specific process needs.

## General specifications

Glass reactor	:	5,10,20, 30, 50,100,200 liter
Pressure	:	-1.0 (FV) to +0.8bar (0.5bar)
Temperature	:	-60 °C (-90 °C) to +200 °C
Material	:	Borosilicate glass 3.3, PTFE

## Highlights

- Reaction unit including instrumentation
- Robust stirrer drive
- Baffles
- Triple walled reactor
- Inert gas connection
- Vacuum connection including PSV and bursting disc
- CIP-Nozzle made of PTFE
- RPM-Measurement
- pH-Measurement
- Can be fabricated for operation in EX-rated areas
- Certificates for material in contact with product



We produce complete solutions for chemical processing: Reactor systems including accessories like sampling devices, pH probes, rectification columns with structured packing, process monitoring and control as well as integration of auxiliary equipment such as temperature control units, nutsche filters / dryers, gas scrubbers or mixing vessels.

## Typical applications

- Chemical synthesis
- Extraction / evaporation
- Purification / crystallization
- Separation
- API manufacturing
- Peptide production
- Process development
- Scale-up
- Cryogenic reactions
- Small scale production
- Pilot plant / kilo lab