IKA

designed for scientists

Reactor systems

IKA reactor systems are modular systems for optimizing and reproducing chemical reactions, mixing and homogenization processes in the laboratory. They can be individually adapted to numerous tasks and are designed to meet the requirements of a wide range of industries in order to achieve optimum results.

High Viscosity Reactors

These reactors are specially developed to work with substances that have a viscous consistency. These include, for example, the production of creams and lotions as well as the grinding and defibering of solids in liquids or polymers.

> Mixing, heating/cooling and dispersing in a single step
> Optimum mixing of viscous materials thanks to anchor stirrer with scrapers and flow breaker
> No air bubble formation in emulsions due to dispersing under vacuum
> Reduced cooling time thanks to active cooling with cooling water or refrigerated circulator
> High torque for efficient stirring (up to 150 000 mPas)
> Cover receptacles for disperser, temperature sensor, flow breaker and other accessories

	LR 1000 basic | control /// The compact all-rounder for your lab	LR-2.ST | LR-5.ST /// Modular systems for precise process optimization
	> Flexibility thanks to easily interchangeable mixing vessels > Easy cleaning for maximum efficiency > Integrated heating and stirring function > Integrated weighing function and connection for pH electrode (control version only)	> Use of double-walled vessels (glass or stainless steel) with or without bottom drain valve > Available in 2- and 5-liter versions for different needs > Conversion of existing LR-2.ST (2 liters) to LR-5.ST (5 liters) possible with conversion kit (available as accessory)
Volume	1 liter	2 liter | 5 liter
Stirring	integrated anchor stirrer	mounted overhead stirrer, anchor stirrer
Heating	integrated (bottom)	circulator connection to double-walled vessels
Dispersing	compatible	compatible
Vacuum	suitable, up to 25 mbar	suitable, up to 25 mbar
Viscosity	max. 100 000 mPas	max. 150 000 mPas

Synthesis Reactors

Individually tailored solution

Synthesis reactors are designed to perform organic or aqueous syntheses under controlled conditions. The use of chemically robust materials (borosilicate glass 3.3, PTFE, FEP) makes them suitable for a wide range of applications such as reflux condensations, reactions under vacuum, crystallizations, (pH-controlled) precipitation reactions, nanoparticle or catalyst syntheses as well as the transfer from laboratory to process scale.

EasySyn

/// Ideal for organic and aqueous syntheses

> Large selection of reactor vessels (100 – 5000 ml)
> One stand system for all vessel sizes for easy upscaling
> Quick change of vessels for efficient operation
> No dead spaces for complete mixing and draining of the reaction solution
> High chemical resistance for demanding reaction conditions
> Specially developed stand system for easy alignment of the overhead stirrer and height adjustment for any body size

100 milliliter volume	250 milliliter volume	500 milliliter volume	1000 milliliter volume	2000 milliliter volume	5000 milliliter volume

100 – 5000 milliliter volume

Would you like your own desired configuration? Or an individual offer?

With our online configurator, you can put together a reactor system that is individually tailored to your needs. You can choose between different reactor vessels, overhead stirrers, stirring tools, circulators and automation levels.

Click here for the configurator:
ika.com/easysyn-config

Automate your synthesis with labwordsoft®

Automate, control, monitor: With our labworldsoft® 6 laboratory software, you operate your entire reactor system from your PC. You define dependencies, automate routine tasks and define measured value recordings or real-time calculations.

Try it for free for 30 days!

IKA-Werke GmbH & Co. KG
Janke & Kunkel-Straße 10, 79219 Staufen, Germany
Phone: +49 7633 831-0, eMail: sales@ika.de

IKA
www.ika.com

IKAworldwide // #lookattheblue

202610_Reactor systems_EN_94000767