

LAB ESSENTIALS FOR CHEMICAL INDUSTRY



Magnetic Stirrer

RCT basic

Market leading magnetic stirrer with heating function

- › The everyday lab essential for synthesis
- › Activation of chemical reactions and synthesis procedures with precise control of the sample temperature



Overhead Stirrer

EUROSTAR 60 control

Powerful stirring with advanced features

- › Dissolving powders, facilitating chemical reactions and ensuring uniform heat transfer with a real-time temperature monitoring function
- › Range of impeller designs to support different mixing applications



Temperature Control

CBC 5 control

Exact temperature control of your reaction

- › Constant temperature control for exothermic reactions through active cooling and programmable cooling rate for crystallisation
- › Support reactor vessels with a temperature stability of ± 0.01 °C



Rotary Evaporator

RV 10 auto pro V-C Complete

Simple liquid separation

- › Start your distillation with a single press of a button
- › Incl. glassware, vacuum pump, controller, bath and chiller



Vacuum Technology

VACSTAR digital

Powerful vacuum source for vacuum filtration procedures

- › For dry and oil-free applications
- › Particularly chemical resistant pump membranes



Drying Oven

IKA OVEN 125 basic dry

Tempering, dry-aging

- › Fast heat up times and a precise temperature control guarantee reproducible test results

ElectraSyn 2.0: Modern breakthrough in drug synthesis

/// Electrochemistry for synthetic chemists

GERMAN TECHNOLOGY. AMERICAN DESIGN.

- > 3-in-1: potentiostat, analytical device and a stir plate
- > Automated data logging and data transfer with the ElectraSyn app
- > Compatibility with new accessories with a simple software update

PATENTED

LIFE-TIME
WARRANTY

DESIGNED FOR MEDICINAL AND ORGANIC CHEMISTS

- > Explore new chemical routes and methods
- > Used for drug design and synthesis
- > Quick cyclic voltammetry analysis
- > Application support and guidance
- > Beginner friendly

COMPARED TO CONVENTIONAL CHEMICAL SYNTHESIS METHODS, ELECTRASYN 2.0 OFFERS :

- | | |
|--------------------|---------------|
| > Novel Reactivity | > Simplicity |
| > Reproducibility | > Scalability |
| > Sustainability | > Safety |



reddot award 2018
winner



MODULARITY WITH ACCESSORIES



E-Hive

- > High throughput screening platform
- > Drug screening and early stage drug discovery



GOGO Module

- > Run reactions under external reaction conditions



Carousel

- > 6 concurrent reactions
- > Easy scale up



Pro-Divide

- > For divided cell reactions

EasySyn 5000 Advanced Reactor system

/// Scale up your reaction by using the EasySyn reactor system

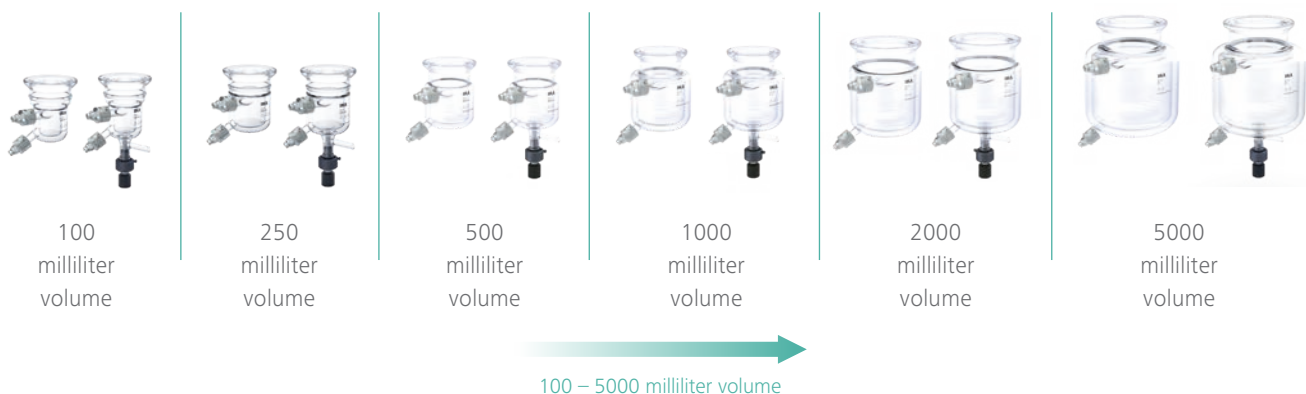
Individually tailored solution

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



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](https://www.ika.com/easysyn-config)

Automate your synthesis
with labwordsoft®

Automate, control, monitor: With our labwordsoft® 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!



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designed for scientists

LAB ESSENTIALS FOR YOUR BOTANICAL APPLICATION



Laboratory Reactor

LR 1000 control

- > 3 in 1: vessel + hot plate + stirring
- > Small batch R&D cream/salve formulation
- > Optional integrated homogenizer + vacuum + cooling + pH measurement



Viscometer

ROTAVISC me-vi Complete

- > Viscosity analysis, quality control, R&D



Disperser | Homogenizer

T 25 easy clean control

ULTRA-TURRAX®

- > Dispersing and homogenizing beverages and infused products



Mill

MultiDrive control

- > Fibrous material processing
- > High flexibility due to a variety of possible grinding chambers



A quality portfolio to support R & D,
extractions and analytical workflows.



Pipettes

IKA PETTE fix and vario

> Analytical testing, precise dosing



Recirculating Chiller

RC 2 GREEN control

> Condenser cooling
> Sample preparation / management
> Double bath batch melting /
re-constitution



Rotary Evaporator

RV 8

> Lab solvent recovery
> Small scale product refinement
& isolation



Magnetic Stirrer

IKA Plate (RCT digital)

> Heated dissolution
> Salve / ointment formulation



Overhead Stirrer

EUROSTAR 60 control

> Large volume mixing, blending
and solutions



Hot Plate

C-MAG HP 7

> Decarboxylation
> Batch melting / re-constitution

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designed for scientists

LAB ESSENTIALS FOR FOOD AND BEVERAGE INDUSTRY



Overhead Stirrer

EUROSTAR 60 control

- > Mix-in thickeners dissolve ingredients and improve sample homogeneity with a variety of different impeller designs
- > Mixing with efficient heat transfer and real-time temperature monitoring to prevent overheating



Disperser | Homogenizer

T 25 easy clean control ULTRA-TURRAX®

- > Break down agglomerates and disperse liquid ingredients to improve food texture and quality
- > Real-time temperature measurement to ensure no spoilage of temperature sensitive food products



Magnetic Hotplate Stirrer

RCT basic

- > Gentle mixing and heating of food samples with integrated sample temperature measurement
- > Temperature range up to 310 °C with an adjustable safety circuit



Temperature Control

ICC control IB R RO 15 eco

- > Extracting vitamins from beverages by homogenous mixing and tempering 15 samples simultaneously
- > Temperature range: RT+10K – 80 °C



Drying Oven

OVEN 125 control - dry glass

- > Accelerating the dehydration process with different fan speeds
- > Stability testing in a temperature-programmed drying oven



Viscometer

ROTAVISC lo-vi Complete

- > Quality control to ensure consistent and sufficient quality and texture for each batch of production

IKA SOLUTIONS FOR EXTRACTING, GRINDING, BLENDING AND DISPERSING



RV 10 auto pro

RV 10.400

RV 10 auto pro Rotary Evaporator

APPLICATION

Concentration of extracts to a specific volume prior sample analysis

Removal of high boiling point solvents after extraction

SOLUTION

> IKA PATENTED volume dependent distillation function: automatically distill out desired volume of solvent before sample analysis

> Integrated solvent library to provide reference distillation conditions and ensure efficient distillation with a powerful speed controlled IKA vacuum pump

RV 10.400 Evaporation cylinder

APPLICATION

Removal of viscous or sticky samples from evaporation flask after distillation for subsequent analysis

SOLUTION

> Wide cylindrical flask opening allows easy removal of viscous samples after distillation

MultiDrive control Mills

APPLICATION

Grinding a variety of wet and dry samples

SOLUTION

> Different vessels for blending, grinding and dispersing on one device

MultiDrive BL 2000 T MultiDrive MI 400 T Mills

APPLICATION

Grinding temperature-sensitive samples

Grinding lightweight powdery samples

Weighing samples prior to grinding

SOLUTION

> Integrated cooling chamber available to cool down temperature-sensitive samples during grinding
> Temperature monitoring during grinding
> Safety temperature setting to prevent sample overheating

> Interval grinding settings for maximum grinding efficiency

> Convenient weighing of samples directly in grinding vessels



MultiDrive control

MultiDrive BL 2000 T
MultiDrive MI 400 T



LAB ESSENTIALS FOR NATURAL PRODUCT INDUSTRY



Magnetic Stirrer

RCT basic

- > Activation of chemical reactions and synthesis procedures with precise control of the sample temperature
- > Gentle mixing under low shear to promote particle collision for accelerated reaction times



Dry Mill

MultiDrive basic M 20 Successor Package

- > Grinding raw materials for isolation and improved extraction efficiency of natural products
- > Real time temperature measuring and integrated cooling chamber to prevent thermal degradation



Drying Oven

IKA OVEN 125 basic - dry

- > Gentle heating to remove moisture from lightweight samples such as leaves and powders
- > Thermal pretreatment of biomass for efficient extraction



Vacuum Pump

VACSTAR control

- > Fast recovery of extraction solvents under strong vacuum and low heating temperature
- > Automatic boiling point detection to provide an optimum pressure for any known or unknown solvents



Incubator Shaker

KS 4000 ic control

- > Used to support natural product extraction procedures from raw materials
- > Cell culture inoculation for microbial assays



Temperature Control

ICC basic eco 18

- > Enzyme kinetics studies and activity testing with a temperature stability of up to ± 0.02 °C
- > Cell culture, extraction and pre-treatment of biomass

IKA RECOMMENDATION

/// For understanding and analyzing natural products



RV 10 auto pro V Rotary Evaporator

APPLICATION

Concentration of natural extracts to a predefined sample volume prior to analysis in HPLC and GC/MS

SOLUTION

> IKA's PATENTED volume dependent distillation function: automatic distillation of the desired volume of natural extracts before sample analysis



RV 10.500 Foam brake (NS 29/32)

APPLICATION

Solvent removal from saponin samples

SOLUTION

> Rising foam produces burst in the glass ball extension. This stops foam from entering the receiving flask and the condenser
> The RV 10 auto pro unit comes with a vent key for instantaneous foam dissipation



RV 10.606 Distilling spider with 5 flasks 50 ml (NS 29/32)

APPLICATION

Distilling many small volume samples at once by removing the same solvent

SOLUTION

> IKA distilling spider reduces operation time by simultaneously distilling many samples (up to 20)



RV 10.400 Evaporation cylinder (NS 29/32, 500 ml)

APPLICATION

Removal of viscous or sticky samples from the evaporation flask after distillation for subsequent analysis

SOLUTION

> Wide cylindrical flask opening allows easy removal of viscous samples after distillation



LAB ESSENTIALS FOR OIL & GAS INDUSTRY



Magnetic Stirrers

IKA Plate (RCT digital)

> General lab mixing and heating



Overhead Stirrer

EUROSTAR 60 control

> Large volume mixing, blending and solutions



Disperser | Homogenizer

T 25 easy clean control ULTRA-TURRAX®

> High-shear emulsification and mixing processes



Viscometers

ROTAVISC me-vi Complete

> Determine the viscosity of liquids in all areas of application ranging from laboratory to quality control



Calorimeters

C 6000 Oxygen Combustion Calorimeter

> Used in quality control, determination of degree of efficiency of engines, and heavy fuel oil testing (HFO), etc.
> Complies to the standard test methods for heat of combustion of ASTM D 240 and ASTM D 4809 (precision method).
> Complies to DIN 51900 on solid and liquid fuels



Pipettes & Accessories

IKA PETTE fix and vario

> Precise dosing, measuring and preparation of liquid samples

