IKA

designed for scientists

LAB ESSENTIALS FOR PHARMACEUTICAL INDUSTRY

Overhead Stirrer

EUROSTAR 60 control

> 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

Mills

Tube Mill 100 control

> Grind dry samples such as active pharmaceutical ingredients (APIs), bulk pharmaceuticals and excipients to optimise drug delivery and performance

> Gamma-sterilised disposable grinding chambers available

Viscometer

ROTAVISC lo-vi Complete

> Measure viscosity changes in pharmaceutical formulations for vaccines, ointments and suspensions

> Quality control of liquid pharmaceutical products after formulation and production

Disperser | Homogenizer

T 25 easy clean control ULTRA-TURRAX®

> High-shear homogenization and/or emulsification of liquid pharmaceuticals products (suitable for cleanroom use)

> Safety temperature setting to prevent degradation of temperature-sensitive APIs during the process

Drying Oven

OVEN 125 control - dry glass

> Moisture removal from granules, wet powders or herbs prior to extraction and production

> Heat sterilisation to remove microorganisms from raw materials and glassware

Temperature Control

CBC 5 control

> Programmable cooling rate for crystallisation

> Support organ baths with a temperature stability of +/- 0.01 °C

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

reddot award 2018
winner

COMPARED TO CONVENTIONAL CHEMICAL SYNTHESIS METHODS, ELECTRASYN 2.0 OFFERS :

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

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

A complete system for your pharmaceutical formulation

/// Heating, cooling, mixing, dispersing, vacuum control, real-time pH, temperature and torque trend measurement in a closed vessel

Benefits of using the IKA LR 1000 lab reactor system for pharmaceutical formulations

- Mixing to ensure mixture is uniform and homogenous (support up to 150,000mPa.s)
- Incorporating with high-shear disperser to form stable emulsion/suspension
- Heating and cooling function
- Strong vacuum for defoaming even while mixing
- Real-time pH measurement
- Torque trend measurement to indicate viscosity changes
- Optional documentation and control via labworldsoft® software
- Ensuring reproducibility and repeatability
- Easier scale-up with clearly defined parameters

EXAMPLES OF APPLICATIONS IN PHARMACEUTICALS

Ointments, gels, eye drops, eye ointment, cough mixtures, sugar/salt solutions, suppository masses, coatings, antiseptics, lipid emulsions

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IKAworldwide // #lookattheblue