

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 pharmaceutical 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

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

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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