



Success Story

IKA® Laboratory Reactor

An ideal solution for research laboratories!

ITC partners with IKA to enhance its' personal care portfolio

THE CUSTOMER

A multi-business conglomerate which has a diversified presence in FMCG (Fast Moving Consumer Goods), Hotels, Paperboards and Packaging, Agri-Business and Information Technology

ITC is one of India's foremost private sector companies with a market capitalization of over \$33 billion (US) and a turnover of \$7 billion (US). ITC is rated as one of the world's best company by Asia's "Fab 50" and the world's most reputable company by Forbes magazine. It is also among India's most respected companies by Business World. It is rapidly gaining market share even in its' nascent businesses of packaged foods & confectionery, branded apparel, personal care and stationery.

ITC has been using our very own IKA laboratory reactors for research and development in the production of cosmetics and personal care for six years. ITC has placed immense faith in our product line for optimizing, mixing and

homogenization on a laboratory scale. Our laboratory reactors are used in the manufacture of lotions, creams, surfactants, serums and semi-solid formats.

THE CHALLENGE

To achieve higher efficiency and productivity!

During the process of mixing and homogenization, controlling parameters such as temperature under vacuum conditions was one of the challenges faced by ITC. In addition, discovering the right equipment with all the necessary features available in a single unit, such as those for mixing, homogenizing and dispersing, was a daunting task as well. This is where our laboratory reactors came to the rescue; IKA engineers demonstrated the versatility and functionality of the laboratory reactor (**LR 2.ST Package 3**) which helped ITC to customize their needs and analyze their applications on a laboratory scale.

Dr. Mahesh Burshe, Lead Scientist (R&D) from ITC has quoted that,

"IKA laboratory reactors are the most suitable and reliable laboratory device that assists us in developing the thought process for the future full-scale and commercialization of our products. It is of great importance to us to design and develop new products across different rheological spectrums."

THE ADVANTAGES AT A GLANCE

- The system combines features typically required for the cosmetic production such as:
 - Stirring / mixing and dispersing / homogenization
 - Temperature measurement and vacuum control along with pH measurement
 - Heating and cooling through double walled reactor vessel
- Scale-up products available from pilot to production for the same application
- Sealing materials (FFPM) resist solvents and temperatures for applications up to 230 °C
- Mixing of solids such as calcium carbonate, talc and titanium oxide into liquid polymers
- Documentation and control through labworldsoft® software
- Integrated safety shutdown
- Better stability and productivity
- Reduced breakdown and response time



THE SOLUTION

Better quality with reduced breakdown and response time!

IKA laboratory reactors greatly improved the quality of the material, which has drastically reduced the breakdown and response time of the final product. With its' state-of-the-art German Technology, this lab reactor has proved to be an ideal device in their research and development efforts for various personal care products. The reactor, with all its' advanced features and high efficiency, is the mainstay during the processing of samples throughout the production cycle. The reactor can handle batch volume of samples starting from 500 ml up to 2000 ml (800 ml when using the disperser T 25 digital) with a working temperature of 230 °C. In addition, the unit is easily upgradable due to a wide range of accessories that are specifically designed for use in chemical reactions. It is these options which ultimately enhance the quality of the final product.

CUSTOMER BENEFITS

Longevity, Quality and Durability!

Dr. Burshe states, "We have been using IKA laboratory reactors for more than six years now and have not faced any problems thus far". This statement proves the efficacy and efficiency of our instrument during the transition from laboratory to production scale. ITC is currently using four laboratory reactors in the testing and production of soap and cosmetics samples for their personal care division. We are collaborating extensively with ITC in this area of mixing and homogenizing. IKA laboratory reactors are helping ITC save time and resources while providing greater flexibility during the production process.



designed
to work perfectly

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