

Reaction Systems

IKA® Laboratory reactors

Modular and expandable



Configuration example LR-2.ST

The systems LR-2.ST and LR 2000 are modularly expandable laboratory reactors, designed and planned for reproducing and optimising chemical reaction processes as well as mixing, dispersing and homogenisation processes at laboratory scales.

Some examples for these processes are:

- Manufacturing of creams, lotions, emulsion and liposome preparations in the pharmaceutical and cosmetic sector.
- Mixing of solids such as calcium carbonate, talc, titanium oxide, etc. into liquid polymers
- Mixing of additives and solid polymer compounds into mineral oils
- Grinding and disintegrating of solids and fibres in liquids and polymers

The cost efficient LR-2.ST laboratory reactors are available for vacuum applications.

The laboratory reactors of the series LR 2000 P (pressure) and LR 2000 V (vacuum) are especially designed for the use in the pharmaceutical and cosmetic sector.

The systems can be adapted individually to a wide range of different applications and specific requirements. IKA® laboratory devices, e.g. temperature measuring instruments, laboratory stirrers and dispersing instruments, pumps and thermostats can be combined and controlled via PC using labworldsoft®. The torque measuring instruments VK 600 control VISCOKLICK® or VM 600 basic allow for evaluation of rheological properties.

The IKA® laboratory reactors features among others are:

- Modularly expandable to accommodate interchangeable instruments for various applications (3 x NS 29 and 2 x NS 14 ground joints)
- Single and double walled jacketed 2 litre vessels available made of borosilicate glass or stainless steel, with or without bottom discharge valve
- Sealing materials (FFPM) resist solvents and temperatures for applications up to 230°C.