



The IKA® LR-2.ST system is a modularly designed miniplant reactor system, planned and designed to simulate and optimize chemical reaction processes as well as mixing, dispersion and homogenization processes at a model scale with a maximum volume of 2000 ml.

Depending on the seal (FFPM), the medium in the reactor vessel can be heated up to 230 °C. Vacuum operation is possible up to 25 mbar.

The IKA® laboratory software labworldsoft® is providing convenient solutions for measuring, control, regulating tasks and documentation purposes.

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Volume max.: 2000 ml
 Volume min. (stirring): 500 ml
 Volume min. (dispersing): 800 ml

Some applications are:

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

LR-2.ST laboratory system consisting of:

- LR-2 Stand system
- EUROSTAR power control-visc P7: Laboratory stirrer with a high torque (380 Ncm), constant speed, digital display of rated - and actual speed, infinitely adjustable speed range 8 ÷ 290 min⁻¹, integrated torque trend display for viscosity control, RS 232 / analog interface
- LR 2000.11 Anchor stirrer with flow borings, without scraper

Please order reactor vessel separately.

Technical Data			
Usable volume min. [ml]	500	Usable volume max. [ml]	2000
Working temperature min. [°C]	room temp.	Working temperature max. [°C]	230
Pressure max. [bar]	1	Attainable vacuum [mbar]	25
Viscosity max. [mPas]	150000	Speed range [1/min]	8 - 290
Telescope stand stroke [mm]	390	Material in contact with medium [-]	borosilicate glass, FFPM, PTFE, steel 1.4571
Reactor vessel openings (units/standard) [-]	3/NS 29/32 2/NS 14/23"	Dimensions (W x H x D) [mm]	460 x 1240 x 430
Weight [kg]	25	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
RS 232 interface [-]	yes	Analog output [-]	yes
Voltage [V]	230	Frequency [Hz]	50/60
Power input [W]	130		