

IKA

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LR-5.ST the Versatile Laboratory reactor

/// Data Sheet

Modularly configured laboratory reactor for the optimization and reproduction of various chemical reactions, mixing and homogenization processes on a 5 liter lab scale.

The system is particularly characterized by the stirrer mounting, which allows for a safe transfer of the higher motor torque. In addition, the overhead stirrer used allows the direction of rotation to be reversed, making this reactor system particularly suitable for aqueous solutions. The mixing of these solutions will be improved by the change in direction of rotation.

ULTRA-TURRAX® dispersers, temperature sensors, flow breakers and other accessories can be attached to the open ports of the reactor cover.



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- Suitable for vacuum operation up to 25 mbar
- Seals in contact with the sample are made of solvent- and temperature-resistant perfluoroelastomer (FFPM)
- Infinitely variable speed
- Torque trend display for measuring changes in viscosity
- Microprocessor-controlled speed regulation, enables steady speed, also under load
- Removable Wireless Controller (WiCo) for remote and safe use in a fume hood

For highly viscous media, we recommend using the LR-5.ST the High-Performer.

The LR-5.ST laboratory reactor system consists of:

- Stand system
- EUROSTAR 100 control laboratory stirrer
- Safety shutdown
- Reactor cover



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Technical Data

Useable volume [ml]	2000 - 5000
Useable volume with disperser tool min. [ml]	2300
Working temperature [°C]	-50 - 230
Viscosity max. [mPas]	70000
Speed range [rpm]	30 - 1300
Telescope stand stroke [mm]	390
Material in contact with medium	AISI 316L, 1.4571, borosilicate glass 3.3, PTFE, PEEK, FFKM
Torque max. at stirring shaft [Ncm]	100
Dimensions (W x H x D) [mm]	460 x 1320 x 430
Weight [kg]	26
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80