

IKA

designed for scientists



LR-5.ST the Versatile Laboratory reactor

/// Fiche technique

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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Données techniques

Volume d'utilisation [ml]	2000 - 5000
volume utile min. avec l'outil de dispersion [ml]	2300
Température de travail [°C]	-50 - 230
Viscosité max. [mPas]	70000
Plage de vitesse [rpm]	30 - 1300
Levée statif télescopique [mm]	390
Matériel en contact avec le produit	AISI 316L, 1.4571, verre borosilicate 3.3, PTFE, PEEK, FFKM
Couple max. sur l'arbre [Ncm]	100
Dimensions (L x H x P) [mm]	460 x 1320 x 430
Poids [kg]	26
Plage de température du milieu admise [°C]	5 - 40
Humidité relative admissible [%]	80