



designed for scientists



LR-5.ST the High-Performer 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.

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

- Suitable for vacuum operation up to 25 mbar
- Seals in contact with the sample are made of solvent- and temperature-resistant perfluoroelastomer (FFPM)



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- 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

The reactor system enables stirring, dispersing and tempering in a single step under vacuum. This avoids the introduction of air during dispersion and increases the quality of the resulting product.

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

- Stand system
- EUROSTAR 200 P4 control laboratory stirrer with higher torque
- Safety shutdown
- Reactor cover

Scope of delivery

- LR.ST stand system
- LR-5.ST reactor lid
- EUROSTAR 200 P4 control
- LR-2.SI
- Clamp ring DN200
- Cork ring
- Tools



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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]	100000
Speed range [rpm]	8 - 290
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]	660
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
Voltage [V]	230
Frequency [Hz]	50/60



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.