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## 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.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
Reactor vessel openings (units/standard)	2x NS 29/32, 3x NS 14/23, 2x GL 14, 1x 2" Clamp flange, 1x M24 x 1,5
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