

TECHNICAL DATA SHEET

NANO lab
ENABLING DEVELOPMENT

NANOLab® apparatus

Benchtop device for nanoparticle formulation process development.



TECHNICAL DATA

| | |
|----------------------|--|
| Scope | Non-clinical pharmaceutical nanoparticle formulations* |
| Dimensions | W 45.5 cm × D 62.0 cm × H 45.5 cm |
| Weight | Approx. 30 kg |
| Features | <ul style="list-style-type: none">• FR-JET reactor (included) for mixing two solutions• FR-JET system offers combination of pinholes, cores and outlets to tune process• Flow-controlled feed of starting material streams using microgear pumps with low internal volumes• Manual operation mode for protocol development• Customizable protocols for automated process runs• Export function for process parameter logs (flow rates, total flow rates or TFR, pressure) |
| Operation parameters | <ul style="list-style-type: none">• Flow rate of single pump: 3-250 mL/min• Total flow rate: 6-500 mL/min (FRR 1:1)**• Pressure rating: ≤ 40 bar• Samples can be dispensed automatically (≤1 mL applicable at low TFRs only)• Minimized waste volume: 1 mL per side (starting material)• Compatible with typical oils, some silicones, soft paste, or thin honey-like viscous substances† |
| Output | <ul style="list-style-type: none">• Minimum product volume: starting at 1 mL• Maximum product volume: N/A (continuous operation mode) |
| Connections | 1/8"ISO |

*Optional GMP use possible, please contact our team to learn more.

**Total flow rate ranges vary with reactor configurations. See [NANOLab® Total Flow Rates Technical Data Sheet](#).

†See [Operating LEON equipment with high-viscous solutions](#). Contact our team for further details.

For more information, contact us:

info@leon-nanodrugs.com

leon-nanodrugs GmbH (IZB), Am Klopferspitz 19, D-82152 Planegg, Germany