



designed for scientists



EUROSTAR 100 control

/// Data Sheet

Powerful laboratory stirrer designed with a removable wireless controller and a digital TFT display. It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 - 1300 rpm. The stirrer comes equipped with a RS 232 and a USB interface to control and document all parameters. An integrated torque trend display is provided for the measurement of viscosity changes. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Multilingual TFT display



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- Programmable functions
- Integrated temperature measurement
- Interval operation
- Reverse function
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Quiet operation
- Error code Display
- H 67.60 temperature sensor and WH 11 WiCo holder included in delivery





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Technical Data

| | |
|--------------------------------------------------------|------------------------------------------------|
| Stirring quantity max. per stirring position (H2O) [l] | 100 |
| Motor rating input [W] | 174 |
| Motor rating output [W] | 142 |
| Motor principle | Brushless DC |
| Speed display | TFT |
| Speed range [rpm] | 0/30 - 1300 |
| Reversible direction of rotation | yes |
| Intermittent operation | yes |
| Viscosity max. [mPas] | 70000 |
| Output max. at stirring shaft [W] | 136 |
| Permissible ON time [%] | 100 |
| Torque max. at stirring shaft [Ncm] | 100 |
| Speed adjustment | stepless |
| Setting accuracy speed [rpm] | ±1 |
| Deviation of speed measurement n > 300rpm [%] | ±1 |
| Deviation of speed measurement n < 300rpm [rpm] | ±3 |
| Stirring element fastening | chuck |
| Connection for ext. temperature sensor | PT1000 |
| Temperature display | yes |
| Chuck range diameter [mm] | 0.5 - 10 |
| Hollow shaft, inner diameter [mm] | 11 |
| Hollow shaft (push-through - when stopped) | yes |
| Fastening on stand | extension arm |
| Extension arm diameter [mm] | 16 |
| Extension arm length [mm] | 220 |
| Torque display | yes |
| Speed control | electronic |
| Nominal torque [Nm] | 1 |
| Torque measurement | trend |
| Deviation of torque measurement I [Ncm] | ±6 |
| Timer | yes |
| Timer display | TFT |
| Time setting range [min] | 1 - 6000 |
| Temperature measuring range [°C] | -10 - +350 |
| Temperature measurement resolution [K] | 0.1 |
| Accuracy of temperature measurement [K] | ±0.5 + tolerance PT1000 (DIN EN 60751 Class A) |
| Limit deviation temperature sensor [K] | ≤ ± (0.15 + 0.002x T) |
| Housing material | alu-cast coating / thermoplastic polymer |
| Communication distance (depend on building) max. [m] | 150 |
| Dimensions (W x H x D) [mm] | 86 x 267 x 230 |
| Weight [kg] | 4.7 |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 40 |
| RS 232 interface | yes |
| USB interface | yes |
| Voltage [V] | 115 |
| Frequency [Hz] | 50/60 |



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Power input [W]

186

