

Data Sheet

Mixing / Overhead Stirrers



EUROSTAR 60 control

Universal 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 - 2000 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
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Accessories: R 1342 Propeller stirrer, 4-bladed, R 1345 Propeller stirrer, 4-bladed, R 1381 Propeller stirrer, 3-bladed, R 1382 Propeller stirrer, 3-bladed, R 1385 Propeller stirrer, 3-bladed, R 1388 Propeller stirrer, 3-bladed, R 1389 (PTFE-coated) Propeller stirrer, 3-bladed, R 1311 Turbine stirrer, R 1312 Turbine stirrer, R 1313 Turbine stirrer, R 1300 Dissolver stirrer, R 1302 Dissolver stirrer, R 1303 Dissolver stirrer, R 1352 Centrifugal stirrer, R 1355 Centrifugal stirrer, R 1375 Paddle stirrer, R 1330 Anchor stirrer, R 1331 Anchor stirrer, H 66.53 Temperature sensor, coated, H 62.51 Stainless steel sensor, H 66.51 Stainless steel sensor, glass-coated, H 70 Extension cable, FK 1 Flexible coupling, R 60 Keyless chuck, R 301 Stirring shaft protection, R 270 Boss head clamp, R 271 Boss head clamp, RH 5 Strap

| Technical Data | |
|---|---|
| Stirring quantity max. (H ₂ O) [l] | 40 |
| Motor rating input [W] | 168 |
| Motor rating output [W] | 131 |
| Motor principle | Brushless DC |
| Speed display | TFT |
| Speed range [rpm] | 0/30 - 2000 |
| Reversible direction of rotation | no |
| Intermittent operation | yes |
| Viscosity max. [mPas] | 50000 |
| Output max. at stirring shaft [W] | 126 |
| Permissible ON time [%] | 100 |
| Torque max. at stirring shaft [Ncm] | 60 |
| Speed control | stepless |
| Setting accuracy speed [±rpm] | 1 |
| deviation of speed measurement n > 300rpm [±rpm] | 3 |
| deviation of speed measurement n < 300rpm [±%] | 1 |
| Stirring element fastening | chuck |
| Connection for ext. temperature sensor | PT1000 |
| Temperature display | yes |
| Chuck range min. diameter [mm] | 0.5 |
| Chuck range max. diameter [mm] | 10 |
| Hollow shaft, inner diameter [mm] | 11 |
| Hollow shaft (push-through ζ when stopped) | yes |
| Fastening on stand | extension arm |
| Extension arm diameter [mm] | 16 |
| Extension arm length [mm] | 220 |
| Torque display | yes |
| Nominal torque [Nm] | 0.6 |
| Torque measurement | trend |
| deviation of torque measurement I [±Ncm] | 6 |
| Timer | yes |
| Timer display | TFT |
| Time setting range [min] | 1 - 6000 |
| Temperature measuring range min. [°C] | -10 |
| Temperature measuring range max. [°C] | +350 |
| Temperature measurement resolution [K] | 0.1 |
| Accuracy of temperature measurement [K] | ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) |
| Limit deviation temperature sensor [K] | ≤ ± (0.15 + 0.002x T) |
| housing material | alu-cast coating / thermoplastic polymer |
| clean room qualified | no |
| explosion proofed | no |
| communication distance (depend onbuilding) 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 moisture [%] | 80 |
| Protection class according to DIN EN 60529 | IP 40 |
| RS 232 interface | yes |
| USB interface | yes |
| Analog output | no |
| Voltage [V] | 230 / 100 - 115 / 100 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 176 |
| Ident. No. | 4440000 |

clamp, R 2722 H-Stand, R 2723 Telescopic stand,
labworldsoft®