



designed for scientists



## EUROSTAR 20 high speed digital

/// Data Sheet

The new generation of EUROSTAR overhead stirrers combines modern design, user-friendliness and reliable performance. With up to 23% less space required compared to the previous models they fit perfectly into any laboratory.

EUROSTAR 20 high speed digital is the right solution for mixing tasks requiring high speed up to 6000rpm, volumes up to 20 liters (H<sub>2</sub>O) and viscosities up to 10 000mPas. Its maximum torque of 40 Ncm and linear adjustment to 20 Ncm at maximum speed guarantee reliable and powerful performance.

The innovative torque trend measurement shows the viscosity trend of the sample (+/- 6 Ncm accuracy). The torque



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trend is shown directly on the display and provides important feedback on the mixing process. The desired stirring speed 150-6000rpm is always guaranteed even with changes to the torque demand or viscosity of the material.

#### Maximum safety and reliability

- User-friendly: Large LCD display shows all parameters at a glance
- Lock key: Prevents accidental changes to settings
- Safety Circuits: automatic safety shutoff from stirring impeller blockage or user specified torque limit
- Protection class IP 54: Resistant to splash water and steam for reliable use in demanding environments
- Brushless motor: Durable, clean and quiet in operation

#### Connectivity and documentation

- USB and RS232 interfaces
- Compatible with Labworldsoft® laboratory software for integration into digital workflows and documentation of processes

#### Features

- 23% smaller size than previous models
- Torque Trend Measurement
- Cleanroom ISO 7/8 Classification
- IP 54
- Timer/Counter function
- Lock Key
- LCD Display
- USB Interface
- RS 232

#### Scope of delivery

- EUROSTAR 20 high speed digital
- R 6000 precision shaft
- Open-end wrench
- Hook spanner

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## Technical Data

Stirring quantity max. per stirring position (H2O) [l]	20
Motor rating input [W]	176
Motor rating output [W]	125
Motor principle	Brushless DC
Speed display	LCD
Speed range [rpm]	0/150 - 6000
Viscosity max. [mPas]	10000
Output max. at stirring shaft [W]	125
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	40
Torque max. at stirring shaft at 150-600 rpm [Ncm]	40
Torque max. at stirring shaft at 600-6000 rpm [Ncm]	40-20
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
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]	0.2
Torque measurement	trend
Deviation of torque measurement I [Ncm]	±6
Timer	yes
Timer display	LCD
Time setting range [min]	1 - 6000
Housing material	alu-cast coating / thermoplastic polymer
Dimensions (W x H x D) [mm]	89 x 306 x 191
Weight [kg]	5.2
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 54
RS 232 interface	yes
USB interface	USB-C
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	176