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EUROSTAR 660 high torque control

/// Data Sheet

Extremely powerful laboratory stirrer for highly viscous applications for quantities up to 100 l (H2O). It is 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 0/4 - 530 rpm (two speed ranges). 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.

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- Multilingual TFT display
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Overload protection
- Short-term overload operation
- Slim casing
- 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]	134
Motor rating output [W]	76
Motor principle	Brushless DC
Speed display	TFT
Speed range [rpm]	0/4 - 530
Intermittent operation	yes
Viscosity max. [mPas]	150000
Output max. at stirring shaft [W]	76
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	660
Torque I max. [Ncm]	660
Torque II max. [Ncm]	130
Speed range I (50 Hz) [rpm]	4 - 108
Speed range II (50 Hz) [rpm]	16 - 530
Speed range I (60 Hz) [rpm]	4 - 108
Speed range II (60 Hz) [rpm]	16 - 530
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
Fastening on stand	extension arm
Extension arm diameter [mm]	16
Extension arm length [mm]	20
Torque display	yes
Speed control	electronic
Nominal torque [Nm]	6.6
Torque measurement	trend
Deviation of torque measurement I [Ncm]	±60
Deviation of torque measurement II [Ncm]	±10
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 + 0.002xITI)
Housing material	alu-cast coating / thermoplastic polymer
Communication distance (depend onbuilding) max. [m]	150
Dimensions (W x H x D) [mm]	91 x 379 x 231
Weight [kg]	5.8
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 40

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RS 232 interface	yes
USB interface	Micro-USB
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	134