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EUROSTAR 400 control

/// Data Sheet

Powerful laboratory stirrer for high viscous applications and intensive mixing for quantities up to 150 l (H2O). It automatically adjusts the speed within the range of 0/6 – 2000 rpm (two speed ranges) through microprocessor controlled technology. The control 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, as well as integrated safety circuits ensure automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft to desired speed is performed and variations are adjusted automatically. This ensures 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
-Push-through agitator shafts
-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

Scope of delivery
•EUROSTAR 400 control
•H 67.60 Temperature sensor, stainless steel
•WH11
•OS 1.0 WiCo power supply unit
•USB Cable - USB A to Micro-B, 2 m
•USB cable micro A – micro B 2.0
•Screw driver
•Protective cover for WiCo contact
•Chuck key

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Technical Data

Stirring quantity max. per stirring position (H2O) [l]	150
Motor rating input [W]	220
Motor rating output [W]	176
Motor principle	Brushless DC
Speed display	TFT
Speed range [rpm]	0/6 - 2000
Intermittent operation	yes
Viscosity max. [mPas]	100000
Output max. at stirring shaft [W]	167
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	400
Torque I max. [Ncm]	400
Torque II max. [Ncm]	80
Speed range I (50 Hz) [rpm]	6 - 400
Speed range II (50 Hz) [rpm]	30 - 2000
Speed range I (60 Hz) [rpm]	6 - 400
Speed range II (60 Hz) [rpm]	30 - 2000
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]	3 - 16
Hollow shaft, inner diameter [mm]	10.3
Hollow shaft (push-through - when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter [mm]	16
Extension arm length [mm]	160
Torque display	yes
Speed control	electronic
Nominal torque [Nm]	4
Torque measurement	trend
Deviation of torque measurement I [Ncm]	±40
Deviation of torque measurement II [Ncm]	±12
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]	114 x 345 x 268
Weight [kg]	8.8
Permissible ambient temperature [°C]	5 - 40

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Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 42
RS 232 interface	yes
USB interface	Micro-USB
Voltage [V]	230
Frequency [Hz]	50/60
Power input [W]	226