

## 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 control	stepless
Setting accuracy speed [ $\pm$ rpm]	1
Deviation of speed measurement $n > 300$ rpm [ $\pm$ %]	1
Deviation of speed measurement $n < 300$ rpm [ $\pm$ 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 [ $\pm$ Ncm]	40
Deviation of torque measurement II [ $\pm$ 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]	$\pm 0.5$ + tolerance PT1000 (DIN EN 60751 Class A)
Limit deviation temperature sensor [K]	$\leq \pm (0.15 + 0.002 \times  T )$
Housing material	alu-cast coating / thermoplastic polymer
Communication distance (depend on building) 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



designed for scientists

Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	yes
Voltage [V]	230 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	226

