

IKA Eurostar 100 Control Overhead Stirrer



MODEL	Eurostar 100 Control
Stirring quantity max. (H2O)	100 l
Motor rating input	174 W
Motor rating output	142 W
Motor principle	Brushless DC
Speed display	TFT
Speed range	0/30 - 1300 rpm
Reversible direction of rotation	yes
Intermittent operation	yes
Viscosity max.	70000 mPas
Output max. at stirring shaft	136 W
Permissible ON time	100 %
Torque max. at stirring shaft	100 Ncm
Speed control	stepless
Setting accuracy speed	1 \pm 3/4 rpm
deviation of speed measurement n > 300rpm	3 \pm 3/4 rpm
deviation of speed measurement n < 300rpm	1 \pm 3/4 %
Stirring element fastening	chuck
Connection for ext. temperature sensor	PT1000
Temperature display	yes
Chuck range min. diameter	0.5 mm
Chuck range max. diameter	10 mm



Hollow shaft, inner diameter	11 mm
Hollow shaft (push-through \varnothing when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter	16 mm
Extension arm length	220 mm
Torque display	yes
Nominal torque	1 Nm
Torque measurement	trend
deviation of torque measurement I	$6 \pm \frac{3}{4} \text{Ncm}$
Timer	yes
Timer display	TFT
Time setting range	1 - 6000 min
Temperature measuring range min.	$-10 \pm \text{AEC}$
Temperature measuring range max.	$+350 \pm \text{AEC}$
Temperature measurement resolution	0.1 K
Accuracy of temperature measurement	$\pm \frac{3}{4} 0.5 + \text{tolerance PT1000 (DIN IEC 751 Class A) K}$
Limit deviation temperature sensor	$\pm \text{A} \pm \frac{3}{4} (0.15 + 0.002 \times \text{ITI}) \text{ K}$
housing material	alu-cast coating / thermoplastic polymer
clean room qualified	no
explosion proofed	no
communication distance (depend on building) max.	150 m
Dimensions (W x H x D)	86 x 267 x 230 mm
Weight	4.7 kg
Permissible ambient temperature	$5 - 40 \pm \text{AEC}$
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	yes
Analog output	no
Voltage	230 / 115 / 100 - 115 / 100 V
Frequency	50/60 Hz
Power input	186 W

