



designed for scientists



## MICROSTAR 15 digital

/// Data Sheet

The space-saving high performers from IKA MICROSTAR and MINISTAR series have been complemented by additional models. The new and easy-to-use stirrers convince with perfect basic functionalities, as well as with a compact design.

Combining high performance with particular excellence, they require minimum space and come with a lifetime guarantee. See for yourself:

Compact design

The reduced design and the focus on the most essential aspects make the new IKA MICROSTAR and MINISTAR



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stirrers reliable laboratory companions.

#### Constant torque

All models of the IKA MICROSTAR and MINISTAR series guarantee a constant torque over the entire rpm range. The new devices are available in six different versions with rpms of up to 2,000 rpm and a torque of up to 80 Ncm.

#### Ease of operation

Operation takes place using a stable rotary knob. The display clearly shows the rotational speed.

#### Rapid updates

Regular software updates can be undertaken rapidly and simply via the USB interface.

## Technical Data

Stirring quantity max. per stirring position (H2O) [l]	10
Motor rating input [W]	32
Motor rating output [W]	22
Motor principle	Brushless DC
Speed display	LED
Speed min. [rpm]	50
Speed min. [rpm]	0/50
Speed max. [rpm]	1000
Viscosity max. [mPas]	8000
Output max. at stirring shaft [W]	15.7
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	15
Torque max. at stirring shaft at 60 1/min (overload) [Ncm]	15
Torque max. at stirring shaft at 100 1/min [Ncm]	15
Torque max. at stirring shaft at 1.000 1/min [Ncm]	15
torque I max. [Ncm]	30
Speed range I (50 Hz) [rpm]	50 - 1000
Speed range I (60 Hz) [rpm]	50 - 1000
Speed control	Turning knob
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
Plug-in coupling ( $\varnothing$ ) [mm]	5.5
Chuck range diameter [mm]	0.5 - 8
Hollow shaft, inner diameter [mm]	8.5
Hollow shaft (push-through - when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter [mm]	13
Extension arm length [mm]	160
Nominal torque [Nm]	0.15
Timer display	none
housing material	alu-cast coating / thermoplastic polymer
Dimensions (W x H x D) [mm]	60 x 173 x 126
Weight [kg]	1.26
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 54
USB interface	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	32
Power input standby [W]	0.3
DC Voltage [V=]	24
Current consumption [mA]	1300