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**IKA**

designed for scientists

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SPACE-SAVING STIRRING | IKA NANO-, MICRO- and MINISTAR series

## NANO- MICRO- and MINISTARS

/// The new compact stirrers

The space-saving high performers of the IKA NANOSTAR, MICROSTAR and MINISTAR series convince with perfect basic functionalities, have a compact design and are easy-to-use.

Lifetime warranty for  
MICRO- & MINISTAR



### Compact design

The reduced design and the focus on the most essential aspects make the IKA NANOSTAR, MICROSTAR and MINISTAR stirrers reliable laboratory companions.

### Constant torque

All models of the IKA NANOSTAR, MICROSTAR and MINISTAR series guarantee a constant torque over the entire rpm range. The stirrers MICROSTAR and MINISTAR are available in six different versions with rpms of up to 2 000 rpm and a torque of up to 80 Ncm, each in a digital or control variant. The latest model NANOSTAR is as 7.5 digital version available.

### Ease of operation

Operation takes place using a stable rotary knob. The display of the digital version clearly shows the rotational speed, while the display of the control version shows further information, such as medium temperature or torque. The integrated timer and counter function enables the monitoring of sensitive chemical reactions.



## NANOSTAR



Original size

## MICROSTARS



## MINISTARS





## Special safety precautions

The display of the stirrers is made of hardened and chemical-resistant glass, thus ensuring maximum safety. In addition, the state-of-the-art vibration sensors integrated in the control version detect deviations from permissible thresholds and automatically stop the process. The external, low-voltage power supply unit also contributes to increased safety.

## Fast updates

Periodic software updates can be carried out quickly and easily via the USB interface. In addition, PC control and documentation of the test parameters is possible via the interface of the control devices.

**NANOSTAR 7.5 digital**  
Ident. No. 0025004356

**MICROSTAR 7.5 digital**  
Ident. No. 0025004715

**MICROSTAR 15 digital**  
Ident. No. 0025004883

**MICROSTAR 30 digital**  
Ident. No. 0025004884

**MICROSTAR 7.5 control**  
Ident. No. 0025001984

**MICROSTAR 15 control**  
Ident. No. 0025001986

**MICROSTAR 30 control**  
Ident. No. 0025001987

**MINISTAR 20 digital**  
Ident. No. 0025004885

**MINISTAR 40 digital**  
Ident. No. 0025004886

**MINISTAR 80 digital**  
Ident. No. 0025004887

**MINISTAR 20 control**  
Ident. No. 0025001988

**MINISTAR 40 control**  
Ident. No. 0025001989

**MINISTAR 80 control**  
Ident. No. 0025001990

## Technical data

### TECHNICAL DATA

	NANOSTAR 7.5 DIGITAL
Stirring quantity max. (H <sub>2</sub> O)	5 l
Speed	min.: 0/50 rpm max.: 2 000 rpm
Viscosity max.	4 000 mPas
Torque max. at stirring shaft	7,5 Ncm
Dimensions (W × H × D)	53 × 147 × 130 mm
Weight	0,8 kg



NEW!

### TECHNICAL DATA

	MICROSTAR 7.5 DIGITAL   CONTROL	MICROSTAR 15 DIGITAL   CONTROL	MICROSTAR 30 DIGITAL   CONTROL	MINISTAR 20 DIGITAL   CONTROL	MINISTAR 40 DIGITAL   CONTROL	MINISTAR 80 DIGITAL   CONTROL
Stirring quantity max. (H <sub>2</sub> O)	5 l	10 l	20 l	15 l	25 l	50 l
Speed	digital: 0/50 rpm control: 0/30 rpm max.: 2 000 rpm	digital: 0/50 rpm control: 0/30 rpm max.: 1 000 rpm	digital: 0/50 rpm control: 0/30 rpm max.: 500 rpm	min.: 0/50 rpm max.: 2 000 rpm	digital: 0/50 rpm control: 0/30 rpm max.: 1 000 rpm	digital: 0/50 rpm control: 0/30 rpm max.: 500 rpm
Viscosity max.	4 000 mPas	8 000 mPas	20 000 mPas	10 000 mPas	30 000 mPas	60 000 mPas
Torque max. at stirring shaft	7,5 Ncm	15 Ncm	30 Ncm	20 Ncm	40 Ncm	80 Ncm
Dimensions (W × H × D)	60 × 173 × 126 mm			70 × 193 × 147 mm		
Weight	1,18 kg	1,26 kg	1,26 kg	1,56 kg	1,72 kg	1,72 kg

### GENERAL TECHNICAL DATA

	NANO- MICRO- AND MINISTAR DIGITAL   CONTROL
Speed display	LED   LCD
Permissible ON time	100 %
Motor type	Brushless DC
Setting accuracy speed	± 1 rpm
Deviation of speed measurement n > 300 rpm	± 1 %
Deviation of speed measurement n < 300 rpm	± 3 rpm
Plug-in coupling	5,5 mm (Ø)
Chuck range diameter	min. 0,5 mm max. 8 mm
Hollow shaft (push-through - when stopped)	Yes
Housing material	Alu-cast coating/ thermoplastic polymer
Protection class according to DIN EN 60529	IP 54
Interface	USB



## Additional products

If required, the following IKA devices are available for your lab to enhance stirring with the IKA NANO-, MICRO- and MINISTAR:



IKA [scale]  
Stand scale  
Ident. No. 0025004318



IKA Plate (RCT digital)  
Magnetic stirrer  
Ident. No. 0025004601



T 25 easy clean digital  
High-performance disperser  
Ident. No. 0025002560

## Accessories NANO-, MICRO- and MINISTAR digital



R 1303 Dissolver stirrer  
Radial flow, for drawing the material to be mixed from the top and bottom. High turbulence, high shearing forces. Particle reduction. Used at medium to high speeds.  
Ident. No. 0002746700



R 1381 Propeller stirrer, 3-bladed  
Flow-efficient design. For drawing the material to be mixed from the top and bottom. Minimum shearing forces. Used at medium to high speeds.  
Ident. No. 0001296000



R 1825 Plate stand  
With slip resistant foil. Diameter of support rod: 16 mm; max. load: 5 kg; Dimensions (W x D): 200 x 316 mm; Height: 560 mm.  
Ident. No. 0003160000

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