

Magnetic Stirrers IKAMAG® RCT basic, IKAMAG® RET, IKA®

Magnetic stirrer RCT basic IKAMAG® *safety control*

- Stronger motor for a higher range of speeds
- Additional temperature control mode for faster heating of medium
- Integrated temperature control
- Incl. PT 1000 temperature sensor (PT 1000.60)
- Exact temperature and speed setting via digital display, even when switched off
- Set safety temperature limit displayed digitally
- Hot Top indicator >> hot surface warning to prevent burns!
- Digital error code display
- With adjustable safety circuit of heating plate temperature (50 – 360°C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control
- High level of safety thanks to improved heat control technology
- Enclosed assembly (IP 42) guarantees long service life
- Highly polished aluminium heating plate for optimum heat transfer
- Improved magnetic adhesion
- Incl. protection cover H 100

Magnetic stirrer:

Stirring quantity (H ₂ O):	20 l
Motor rating input/output:	16/9 W
Speed display:	LED
Speed range:	50 to 1.500 min ⁻¹
Max. magnetic bar (L × Ø):	80 × 10 mm

Heat function:

Heat output:	600 W
Heating rate (1 l H ₂ O):	6.5 K/min
Temperature range:	RT to 310°C
Setting accuracy:	±1 K
Adjustable safety circuit:	50 to 360°C
Control accuracy with sensor:	±1 K

Heating plate:

Material:	Al alloy
Dimensions:	Ø 135 mm

General data:

Dimensions (W × H × D):	160 × 85 × 270 mm
Weight:	2.5 kg
Permissible ambient temperature:	5 to 40°C
Permissible relative humidity:	80%
Protection class acc. to DIN EN 60529:	IP 42



①

Article	Order No.
① RCT basic IKAMAG® <i>safety control</i>	10 36 03810

Magnetic stirrer RET basic IKAMAG® safety control

- Integrated temperature control
- Incl. PT 1000 temperature sensor (PT 1000.60)
- Exact temperature and speed setting via digital display, even when switched off
- Set safety temperature limit displayed digitally
- Hot Top Indicator >> hot surface warning to prevent burns!
- Digital error code display
- With adjustable safety circuit of heating plate temperature (50 – 380°C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control
- High level of safety thanks to improved heat control technology
- Enclosed assembly (IP 42) guarantees long service life
- Extremely fast heating times
- Very broad temperature range (RT – 340°C)
- Electronic speed control
- Wide speed range from 50 – 1.700 rpm
- High magnetic adhesion
- Incl. protection cover H 100

Magnetic stirrer:

Stirring quantity (H ₂ O):	20 l
Motor rating input/output:	16/9 W
Speed display:	LED
Speed range:	50 to 1.700 min ⁻¹
Max. magnetic bar (L x Ø):	80 x 10 mm

Heating function:

Heat output:	600 W
Temperature range:	RT to 340°C
Adjustable safety circuit:	50 to 360°C
Setting accuracy:	±1 K
Control accuracy with sensor:	±1 K

Heating plate:

Material:	stainless steel 1.4301
Dimensions:	Ø 135 mm

General data:

Dimensions (W x H x D):	160 x 95 x 270 mm
Weight:	2.5 kg
Permissible ambient temperature:	5 to 40°C
Permissible relative humidity:	80%
Protection class acc. to DIN 40050:	IP 42
Voltage/Frequency:	230 V, 50/60 Hz
Voltage/Frequency:	115 V, 50/60 Hz



Article	Order No.
② RET basic IKAMAG® safety control	10 36 03622

Magnetic stirrer RET control/t IKAMAG® safety control

Safety magnetic stirrer with heating, suitable for unsupervised operation.

- Timer: min. 1 min / max. 9 h 59 min
- Option: 1 sensor for medium temperature (PT 100) or 2 separate temperature sensors for heat transfer fluid and medium (PT 1000) available (automatic identification)
- 2 adjustable safety circuits
- Stirring bar crack detection
- Setting acc. medium temperature: 0,5 K
- HOT warning display indicating any residual heat when unit is switched off
- Easy-to-read backlit LCD display
- Actual medium temperature resolution displayed: 0,5 K (RT to 100°C); 1 K (from 100°C upwards)
- Fuzzy control and microprocessor technology guarantee maximum control accuracy
- PC control via RS 232 interface, with optional safety function
- Software labworldsoft® is available to control and document all measured values via PC
- 3 modes of operation, e.g. stirring and heating functions can be secured against inadvertent changes of set parameters
- Enclosed assembly (IP 42) guarantees long service life
- Incl. protection cover H 99

Magnetic stirrer:

Stirring quantity (H ₂ O):	20 l
Motor rating input/output:	12/5 W
Speed display:	LCD
Speed range:	0 to 1.200 min ⁻¹
Max. magnetic bar (L x Ø):	80 x 10 mm

Heating function:

Heat output:	600 W
Heating range (1 l H ₂ O):	7 K/min
Temperature range:	RT to 340°C
Setting increments for medium temperature:	0.5 K (up to 100°C)
1 K (over 100°C)	
Adjustable safety circuit (heating plate):	50 to 350°
Sensor for temperature in medium:	1 x PT 100 or 2 x PT 1000
Control accuracy with sensor:	±0.2 K

Heating plate:

Material:	stainless steel 1.4301
Dimensions:	Ø 135 mm

General data:

Dimensions (W x H x D):	160 x 97 x 280 mm
Weight:	2.8 kg
Permissible ambient temperature:	5 to 40°C
Permissible relative humidity:	80%
Protection class acc. to DIN EN 60529:	IP 42
Interface:	RS 232 / analog



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Article	Order No.
③ RET control/t IKAMAG® safety control	10 36 03964

