

RCT basic IKAMAG® safety control

The new improved version of the laboratory bestseller with revolutionary technology and new functions:



- new: Integrated temperature control
- new: Incl. PT 1000 temperature sensor (PT 1000.60)
- new: Exact temperature and speed setting via digital display, even when switched off
- new: Set safety temperature limit displayed digitally
- new: Hot Top indicator >> hot surface warning to prevent burns!
- new: 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
- High magnetic adhesion

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	20
Speed deviation of individual stirring positions [%]	5	Stirring quantity max. (H2O) [l]	20
Motor rating input [W]	9,5	Motor rating output [W]	3,5
Speed display [-]	LED	Speed range [1/min]	50 - 1200
Stirring bar length max. [mm]	80	Heat output [W]	600
Heating rate (1 l H2O in H15) [K/min]	6,5	Heating temperature range [°C]	50 - 310
Heat control [-]	LED	Heat control accuracy [±K]	1
Speed control [-]	stepless	Adjustable safety circuit min. [°C]	50
Adjustable safety circuit max. [°C]	360	Connection for ext. temperature sensor [-]	DIN 12 878
Control accuracy with sensor [±K]	1	Temperature constancy in medium [±K]	1
Set-up plate material [-]	Aluminium alloy	Set-up plate dimensions [mm]	Ø 135
Dimensions (W x H x D) [mm]	165 x 85 x 275	Weight [kg]	2,5
Permissible ambient temperature [°C]	5 - 40	Permissible relative moisture [%]	80
Protection class according to DIN EN 60529 [-]	IP 42	Voltage [V]	220 - 230 / 115 / 100
Frequency [Hz]	50/60	Power input [W]	650

RET basic IKAMAG® safety control



Newly improved magnetic stirrer with sophisticated heating and stirring technologies. The RET basic (with stainless steel surface) and the RET basic C (with white coated surface, chemical resistant) are exemplified by:

- Extremely fast heating times
- Very broad temperature range (RT - 340 °C)
- Adjustable safety circuit (50 - 380 °C)
- Electronic speed control
- Speed range from 0 - 1,500 rpm
- Bushing according to DIN 12878 for the use of contact thermometers (e.g. ETS-D 4 fuzzy)
- Incl. protection cover H 99

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	20
Stirring quantity max. (H2O) [l]	20	Motor rating input [W]	12
Motor rating output [W]	5	Speed display [-]	scale
Speed range [1/min]	0 - 1500	Stirring bar length max. [mm]	80
Heat output [W]	600	Heating rate (1 l H2O in H15) [K/min]	7
Heating temperature range [°C]	room temp. - 340	Heat control [-]	stepless
Heat control accuracy [±K]	10	Speed control [-]	stepless
Adjustable safety circuit min. [°C]	50	Adjustable safety circuit max. [°C]	380
Connection for ext. temperature sensor [-]	ETS-D 4 fuzzy	Control accuracy with sensor [±K]	1
Temperature constancy in medium [±K]	1	Set-up plate material [-]	stainless steel 1.4301
Set-up plate dimensions [mm]	Ø 135	Dimensions (W x H x D) [mm]	160 x 97 x 280
Weight [kg]	2.4	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
Voltage [V]	220 - 230 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	630		

RET basic C IKAMAG® safety



Newly improved magnetic stirrer with sophisticated heating and stirring technologies. The RET basic (with stainless steel surface) and the RET basic C (with white coated surface, chemical resistant) are exemplified by:

- Extremely fast heating times
- Very broad temperature range (RT - 340 °C)
- Adjustable safety circuit (50 - 380 °C)
- Electronic speed control
- Speed range from 0 - 1,500 rpm
- Bushing according to DIN 12878 for the use of contact thermometers (e.g. ETS-D 4 fuzzy)
- Incl. protection cover H 99

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	20
Stirring quantity max. (H2O) [l]	20	Motor rating input [W]	12
Motor rating output [W]	5	Speed display [-]	scale
Speed range [1/min]	0 - 1500	Stirring bar length max. [mm]	80
Heat output [W]	600	Heating rate (1 l H2O in H15) [K/min]	7
Heating temperature range [°C]	room temp. - 340	Heat control [-]	stepless
Heat control accuracy [±K]	10	Speed control [-]	stepless
Adjustable safety circuit min. [°C]	50	Adjustable safety circuit max. [°C]	380
Connection for ext. temperature sensor [-]	ETS-D 4 fuzzy	Control accuracy with sensor [±K]	1
Temperature constancy in medium [±K]	1	Set-up plate material [-]	stainless steel 1.4301
Set-up plate dimensions [mm]	Ø 135	Dimensions (W x H x D) [mm]	160 x 97 x 280
Weight [kg]	2.4	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
Voltage [V]	220 - 230 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	630		

Product Data Sheet



RET control visc IKAMAG® safety control



- Safety magnetic stirrer with heating, suitable for unsupervised operation.
- 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
 - With stainless steel surface
 - Setting acc. medium temperature: 0,5 K
 - HOT warning display indicating presence of any residual heat when the unit is switched off
 - Easy-to-read backlit LCS display
 - Display resolution actual medium temperature: 0,1 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 measuring values via PC
 - HOT visual warning for hot heating plate
 - 3 modes of operation, e.g. stirring and heating functions can be secured against inadvertent changes of set parameters
 - Viscosity trend display
 - Enclosed assembly (IP 42) guarantees long service life
 - Incl. Protection cover H 99

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	20
Stirring quantity max. (H2O) [l]	20	Motor rating input [W]	12
Motor rating output [W]	5	Speed display [-]	LCD
Speed range [1/min]	0 - 1500	Stirring bar length max. [mm]	80
Heat output [W]	600	Heating rate (1 l H2O in H15) [K/min]	7
Heating temperature range [°C]	room temp. - 340	Heat control [-]	stepless
Heat control accuracy [±K]	1	Speed control [-]	stepless
Adjustable safety circuit min. [°C]	50	Adjustable safety circuit max. [°C]	350
Connection for ext. temperature sensor [-]	PT 100	Control accuracy with sensor [±K]	0.2
Set-up plate material [-]	stainless steel 1.4301	Set-up plate dimensions [mm]	Ø 135
Dimensions (W x H x D) [mm]	160 x 97 x 280	Weight [kg]	2.8
Permissible ambient temperature [°C]	5 - 40	Permissible relative moisture [%]	80
Protection class according to DIN EN 60529 [-]	IP 42	RS 232 interface [-]	yes
Analog output [-]	yes	Voltage [V]	220 - 230 / 115
Frequency [Hz]	50/60	Power input [W]	630

RET control visc C IKAMAG® safety control

Safety magnetic stirrer with heating, suitable for unsupervised operation.

- 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
- With white coated surface (chemical resistant)
- Setting acc. medium temperature: 0,5 K
- HOT warning display indicating presence of any residual heat when the unit is switched off
- Easy-to-read backlit LCS display
- Display resolution actual medium temperature: 0,1 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 measuring values via PC
- HOT visual warning for hot heating plate
- 3 modes of operation, e.g. stirring and heating functions can be secured against inadvertent changes of set parameters
- Viscosity trend display
- Enclosed assembly (IP 42) guarantees long service life
- Incl. Protection cover H 99



Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	20
Stirring quantity max. (H2O) [l]	20	Motor rating input [W]	12
Motor rating output [W]	5	Speed display [-]	LCD
Speed range [1/min]	0 - 1100	Stirring bar length max. [mm]	80
Heat output [W]	600	Heating rate (1 l H2O in H15) [K/min]	6
Heating temperature range [°C]	room temp. - 300	Heat control accuracy [±K]	1
Fixed safety circuit [°C]	370	Adjustable safety circuit min. [°C]	100
Adjustable safety circuit max. [°C]	300	Connection for ext. temperature sensor [-]	PT 100
Control accuracy with sensor [±K]	0,2	Set-up plate material [-]	technical enamel
Set-up plate dimensions [mm]	Ø 135	Dimensions (W x H x D) [mm]	160 x 97 x 280
Weight [kg]	2,8	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
RS 232 interface [-]	yes	Analog output [-]	yes
Voltage [V]	220 - 230 / 115	Frequency [Hz]	50/60
Power input [W]	630		

RH basic 2 IKAMAG®



RH basic 2
Economic magnetic stirrer with stainless steel heating plate.
- Fixed safety circuit 400 °C
- Soft-start stirring motor

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	10
Stirring quantity max. (H2O) [l]	10	Motor rating input [W]	15
Motor rating output [W]	2	Speed range [1/min]	100 - 2000
Heat output [W]	400	Heating temperature range [°C]	room temp. - 320
Heat control [-]	scale 1 - 6	Speed control [-]	scale 0 - 6
Fixed safety circuit [°C]	400	Set-up plate material [-]	stainless steel 1.4301
Set-up plate dimensions [mm]	Ø 125	Dimensions (W x H x D) [mm]	168 x 105 x 220
Weight [kg]	2.4	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 21
Voltage [V]	220 - 240 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	415		

RH basic KT/C IKAMAG® safety control



RH basic KT/C safety control

New, universal magnetic stirrer with heating and bushing according to DIN 12878 for connecting an electronic temperature controller, e.g. ETC 1.

- Heating plate with excellent chemical resistance
- Heat output 500 W
- Long life cycle due to foil heating and solid-state switching for heat control
- Adjustable safety circuit for heating plate temperature
- Soft-start stirring motor
- Safety feature: in the event of motor failure the heating switches off automatically

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H2O) [l]	15
Stirring quantity max. (H2O) [l]	15	Motor rating input [W]	15
Motor rating output [W]	2	Speed range [1/min]	100 - 2000
Heat output [W]	500	Speed control [-]	scale 0 - 6
Adjustable safety circuit min. [°C]	100	Adjustable safety circuit max. [°C]	400
Connection for ext. temperature sensor [-]	DIN 12 878	Set-up plate material [-]	technical enamel
Set-up plate dimensions [mm]	130 x 130	Dimensions (W x H x D) [mm]	168 x 105 x 220
Weight [kg]	2.4	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 21
Voltage [V]	220 - 240 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	515		

RH basic KT/C IKAMAG® safety control



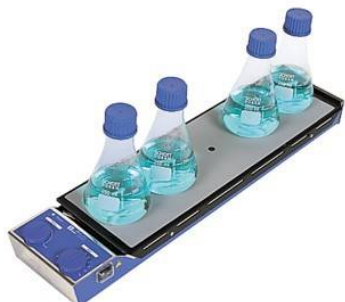
RH basic KT/C safety control

New, universal magnetic stirrer with heating and bushing according to DIN 12878 for connecting an electronic temperature controller, e.g. ETC 1.

- Heating plate with excellent chemical resistance
- Heat output 500 W
- Long life cycle due to foil heating and solid-state switching for heat control
- Adjustable safety circuit for heating plate temperature
- Soft-start stirring motor
- Safety feature: in the event of motor failure the heating switches off automatically

Technical Data			
Number of stirring positions [-]	1	Stirring quantity max. per stirring position (H ₂ O) [l]	15
Stirring quantity max. (H ₂ O) [l]	15	Motor rating input [W]	15
Motor rating output [W]	2	Speed range [1/min]	100 - 2000
Heat output [W]	500	Speed control [-]	scale 0 - 6
Adjustable safety circuit min. [°C]	100	Adjustable safety circuit max. [°C]	400
Connection for ext. temperature sensor [-]	DIN 12 878	Set-up plate material [-]	technical enamel
Set-up plate dimensions [mm]	130 x 130	Dimensions (W x H x D) [mm]	168 x 105 x 220
Weight [kg]	2.4	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 21
Voltage [V]	220 - 240 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	515		

RT 5 power IKAMAG®



The RT 5 power is a high-performance multi-position magnetic stirrer with 5 stirring positions and integrated temperature control plate. Precise temperature distribution on the heating plate makes it possible to perform series experiments.

- Simultaneously operating stirrers
- Absolute consistency over sample conditions for the individual samples

Technical Data			
Number of stirring positions [-]	5	Stirring quantity max. per stirring position (H ₂ O) [l]	0.4
Stirring position distance [mm]	90	Speed deviation of individual stirring positions [%]	5
Stirring quantity max. (H ₂ O) [l]	2	Motor rating input [W]	7.2
Motor rating output [W]	1.8	Speed range [1/min]	0 - 1100
Stirring bar length max. [mm]	30	Heat output [W]	175
Heating temperature range [°C]	room temp. - 120	Heat control [-]	scale 1-10
Speed control [-]	scale 1-10	Temperature constancy in medium [±K]	2
Temperature medium max. (dep. on vessel) [°C]	70	Set-up plate material [-]	silicone
Set-up plate dimensions [mm]	120 x 450	Dimensions (W x H x D) [mm]	138 x 65 x 552
Weight [kg]	3	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
RS 232 interface [-]	no	Analog output [-]	no
Voltage [V]	230 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	185		

RT 10 power IKAMAG®



The RT 10 power is a high-performance multi-position magnetic stirrer with 10 stirring positions and integrated temperature control plate. Precise temperature distribution on the heating plate makes it possible to perform series experiments.

- Simultaneously operating stirrers
- Absolute consistency over sample conditions for the individual samples

Technical Data			
Number of stirring positions [-]	10	Stirring quantity max. per stirring position (H ₂ O) [l]	0.4
Stirring position distance [mm]	90	Speed deviation of individual stirring positions [%]	5
Stirring quantity max. (H ₂ O) [l]	4	Motor rating input [W]	14.4
Motor rating output [W]	3.6	Speed range [1/min]	0 - 1100
Stirring bar length max. [mm]	30	Heat output [W]	375
Heating temperature range [°C]	room temp. - 120	Heat control [-]	scale 1-10
Temperature constancy in medium [±K]	2	Temperature medium max. (dep. on vessel) [°C]	70
Set-up plate material [-]	silicone	Set-up plate dimensions [mm]	180 x 450
Dimensions (W x H x D) [mm]	198 x 65 x 552	Weight [kg]	4.2
Permissible ambient temperature [°C]	5 - 40	Permissible relative moisture [%]	80
Protection class according to DIN EN 60529 [-]	IP 42	Voltage [V]	230 / 115 / 100
Frequency [Hz]	50/60	Power input [W]	395

RT 15 power IKAMAG®



The RT 15 power is a high-performance multi-position magnetic stirrer with 15 stirring positions and integrated temperature control plate. Precise temperature distribution on the heating plate makes it possible to perform series experiments.

- Simultaneously operating stirrers
- Absolute consistency over sample conditions for the individual samples

Technical Data			
Number of stirring positions [-]	15	Stirring quantity max. per stirring position (H ₂ O) [l]	0.4
Stirring position distance [mm]	90	Speed deviation of individual stirring positions [%]	5
Stirring quantity max. (H ₂ O) [l]	6	Motor rating input [W]	21.6
Motor rating output [W]	5.4	Speed range [1/min]	0 - 1100
Stirring bar length max. [mm]	30	Heat output [W]	580
Heating temperature range [°C]	room temp. - 120	Heat control [-]	scale 1-10
Speed control [-]	scale 1-10	Temperature constancy in medium [±K]	2
Temperature medium max. (dep. on vessel) [°C]	70	Set-up plate material [-]	silicone
Set-up plate dimensions [mm]	270 x 450	Dimensions (W x H x D) [mm]	288 x 65 x 552
Weight [kg]	6	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
Voltage [V]	230 / 115 / 100	Frequency [Hz]	50/60
Power input [W]	600		