



# IKA®

## Catalog 2007 / 2008

### **Labo Baza**

**nowoczesne wyposażenie laboratorium**

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Designed  
to work perfect

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IKA®-Werke Staufen, Germany

## Success through Creativity

The IKA® group is a manufacturer of laboratory and analytical technology as well as mechanical engineering with world-wide locations. Over decades, we have built a close relationship to our international customers. This is based on our commitment to the highest quality and innovation of our products and our dedication to the development of solutions for complex applications. With an extraordinary research and development program, the company was able to achieve its leading world market position. IKA® has received many design and innovation awards for its innovative, leading edge products.

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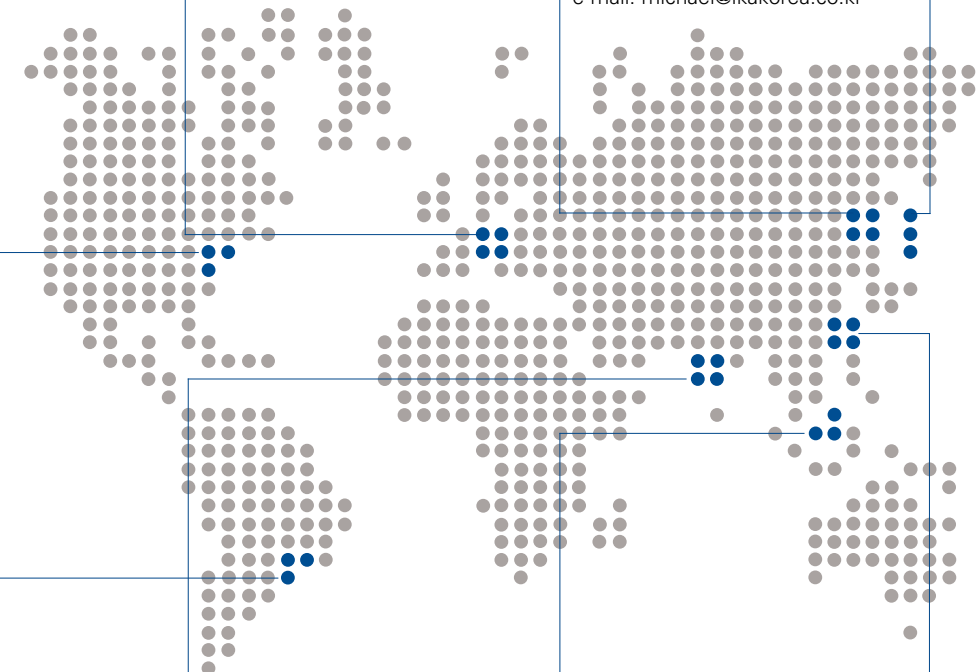
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**RCT basic**  
*safety control* p. 10 – 12

**Magnetic stirrer with digital display**  
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)



**ULTRA-TURRAX®**  
**Tube Drive** p. 63

**World first:** Universal disposable disperser system  
- Disperse, stir and grind using a single drive unit  
- High level of user safety  
- No possibility of cross-contamination  
- Hermetically sealable disposable sample tubes



**MS 3 basic**  
**MS 3 digital** p. 45

**Small shakers**  
Compact, universal small shaker suitable for shaking tasks with all small vessels and microtiter plates.  
- Attachment detection  
- Continuous or touch operation

**MS 3 digital additionally:**  
- Timer with countdown function



**ETS-D5**  
**ETS-D6** p. 117

**Electronic contact thermometers**  
With optimised PID control and RESET function.

**ETS-D6 additionally:**  
- With integrated pH measuring instrument (without pH electrode) and with multilingual user guide



**T 25 digital** p. 66

**High-performance dispersing instrument**  
Standard version with digital display  
- For volumes from 1 - 2.000 ml (H<sub>2</sub>O)  
- Three types of shaft bearings



**C 200** p. 155

**Calorimeter system**  
Recommended for learning and teaching purposes as well as for laboratories with low sampling volumes



**HCT basic**  
*safety control* p. 96

**Heating plate with digital display**  
With revolutionary technology and new functions:  
**new:** Integrated temperature control  
**new:** Incl. PT 1000 temperature sensor (PT 1000.60)



**RW 20 digital** p. 38

**Overhead stirrer with digital display**  
Technical improvements on the trusted RW 20 series designs  
**new:** With digital display



**»fun at work«** p. 19 – 22

**These are the new motifs for 2007:**  
- COLOR SQUID  
- BIG SQUID  
- lab disc





## lab dancer

Economic, compact test tube shaker with touch function. Its compact and clever design makes it an indispensable tool for every laboratory.  
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**NEW!**

**RCT basic safety control IKAMAG®**  
The laboratory bestseller:  
New with digital display for speed and temperature

**ETS-D6**

Electronic contact thermometer with PID control and RESET function, incl stainless steel temperature sensor H 62.51, **page 24**  
Ident. No. 3378100

**H 44**

Boss head clamp, **page 27**  
Ident. No. 2437700

**H 38**

Holding rod for fastening ETS-D5 or ETS-D6 with H 44 to the support rod H 16 V, **page 27**  
Ident. No. 3547700

**H 16 V**

Support rod for all magnetic stirrers with M 10 threaded bushing, **page 27**  
Ident. No. 1545100

**RCT basic safety control IKAMAG®**

Magnetic stirrer with digital display, incl. protection cover H 100, **page 12**  
Ident. No. 3380000





# IKA® Mixing

12 Magnetic stirrers with heating



Ident. No.	
3380000	230 V 50/60 Hz
3380001	115 V 50/60 Hz

**NEW!**



included with unit  
Ident. No. 3516800

## RCT basic *safety control* IKAMAG®

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
- Incl. protection cover H 100

### Accessories (page):

Electronic contact thermometers (24): ETS-D5, ETS-D6, IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RS 1 Set of stirring bars (29), RSE Stirring bar remover (29), Bath attachments (28): H 15, H 28, Oil bath attachments (28): H 29, H 30

Technical data	
Stirring quantity (H <sub>2</sub> O)	20 l
Motor rating input	9,5 W
Motor rating output	3,5 W
Speed display	digital
Speed range	50 – 1.200 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H <sub>2</sub> O)	6,5 K/min
Temperature range	RT – 310 °C
Setting accuracy	± 1 K
Temperature undulation without temperature sensor	± 2 K
Adjustable safety circuit	50 – 360 °C
Digital temperature limit display	50 – 360 °C
Control accuracy with sensor	PT 1000 / ± 1 K ETS-D5 / ± 0,5 K ETS-D6 / ± 0,2 K
Heating plate	
Material	aluminium alloy
Dimensions	Ø 135 mm
General data	
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	2,5 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Technical data	
Stirring quantity (H <sub>2</sub> O)	20 l
Motor rating input	12 W
Motor rating output	5 W
Speed display	scale
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H <sub>2</sub> O)	7 K/min
Temperature range	RT – 340 °C
Setting accuracy	± 10 K
Adjustable safety circuit	50 – 380 °C
Sensor for temperature in medium	ETS-D5, ETS-D6
Control accuracy with sensor	ETS-D5 ± 0,5 K ETS-D6 ± 0,2 K
Heating plate	
Material RET basic s. c.	stainless steel
RET basic C s. c.	stainless steel white coated
Dimensions	Ø 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

## RET basic *safety control* IKAMAG® RET basic C *safety control* IKAMAG®

Magnetic stirrer with new heating and stirring technology for fast, accurate temperature control. 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-D5 or ETS-D6)
- Incl. protection cover H 99

### Accessories (page):

Electronic contact thermometers (24): ETS-D5, ETS-D6, IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RS 1 Set of stirring bars (29), RSE Stirring bar remover (29), R 380 Stand support (27), Bath attachments (28): H 15, H 28, Oil bath attachments (28): H 29, H 30

# IKA® Mixing

Magnetic stirrers with heating

13



RET basic *safety control*

Ident. No.	
3188800	230 V 50/60 Hz
3188801	115 V 50/60 Hz



RET basic C *safety control*

Ident. No.	
3197600	230 V 50/60 Hz
3197601	115 V 50/60 Hz



RET control-visc safety control  
Ident. No.  
3364000 230 V 50/60 Hz  
3364001 115 V 50/60 Hz



RET control-visc C safety control  
Ident. No.  
3364100 230 V 50/60 Hz  
3364101 115 V 50/60 Hz



## RET control-visc safety control IKAMAG® RET control-visc C safety control IKAMAG®

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 or 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 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 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

### Accessories (page):

Temperature sensors (26): PT 100.50, PT 100.51, PT 100.52, PT 1000.50, PT 1000.51, IKAFLON®-Stirring bars (29), TRIKA®-Stirring bars (29), RS 1 Set of stirring bars (29), RSE Stirring bar remover (29), R 380 Stand support (27), Bath attachments (28): H 15, H 28, labworldsoft® (143), Oil bath attachments (28): H 29, H 30, AM 1 Analog module (120)

Technical data	
Stirring quantity (H <sub>2</sub> O)	20 l
Motor rating input	12 W
Motor rating output	5 W
Speed display	digital
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H <sub>2</sub> O)	7 K/min
Temperature range	RT – 340 °C
Setting accuracy	0,5 K (bis 100 °C) 1 K (ab 100 °C)
Adjustable safety circuit	50 – 350 °C
Digital temperature limit display	50 – 350 °C
Sensor for temperature in medium	1 x PT 100 or 2 x PT 1000
Control accuracy with sensor	± 0,2 K
Heating plate	
Material RET control-visc s. c.	stainless steel
RET control-visc C s. c.	stainless steel white coated
Dimensions	Ø 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,8 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog

Technical data	
Stirring quantity (H <sub>2</sub> O)	10 l
Motor rating input	15 W
Motor rating output	2 W
Speed display	scale (0 – 6)
Speed range	100 – 2.000 rpm
Max. magnetic bar (L x Ø)	40 x 8 mm
Heating function	
Heat output	400 W
Heating rate (1 l H <sub>2</sub> O in H15)	3 K/min
Temperature range	RT – 320 °C
Heating plate	
Material	stainless steel (AISI 304)
Dimensions	Ø = 125 mm
General data	
Dimensions (W x D x H)	168 x 220 x 105 mm
Weight	2,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Technical data	
Stirring quantity (H <sub>2</sub> O)	15 l
Motor rating input	15 W
Motor rating output	2 W
Speed display	scale (0 – 6) / digital
Speed range	100 – 2000 rpm
Max. magnetic bar (L x Ø)	40 x 8 mm
Heating function	
Heat output	500 W
Heating rate (1 l H <sub>2</sub> O)	4,5 K/min
Temperature range	RT – 320 °C
Adjustable safety circuit	100 – 400 °C
Sensor for temperature in medium	ETS-D5, ETS-D6
Control accuracy with sensor	ETS-D5 ± 0,5 K ETS-D6 ± 0,2 K
Heating plate	
Heating plate, stainless steel	white coated
Dimensions	130 x 130 mm
General data	
Dimensions (W x D x H)	168 x 220 x 105 mm
Weight	2,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

## RH basic 2 IKAMAG®

Economic magnetic stirrer with stainless steel heating plate.

- Fixed safety circuit 400 °C
- Soft-start stirring motor

### Accessories (page):

IKAFLON®-Stirring bars (29), TRIKA®-Stirring bars (29), RSE Stirring bar remover (29), Bath attachments (28): H 15, H 28



Ident. No.  
3339000 230 V 50/60 Hz  
3339001 115 V 50/60 Hz

## RH basic KT/C safety control IKAMAG® RH digital KT/C safety control IKAMAG®

Universal magnetic stirrers with heating and bushing according to DIN 12878 for connecting an electronic temperature controller, e.g. ETS-D5, ETS-D6.

RH digital KT/C safety control complete with digital display for set and actual temperature and actual speed.

- 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

### Accessories (page):

Electronic contact thermometers: ETS-D5, ETS-D6 (24), IKAFLON®-Stirring bars (29), TRIKA®-Stirring bars (29), RSE Stirring bar remover (29), Bath attachments (28): H 15, H 28



RH basic KT/C safety control  
Ident. No.  
3207100 230 V 50/60 Hz  
3207101 115 V 50/60 Hz



RH digital KT/C safety control  
Ident. No.  
3207000 230 V 50/60 Hz  
3207001 115 V 50/60 Hz





Ident. No.	
2930300	230 V 50/60 Hz
2930301	115 V 50/60 Hz

## 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

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring positions	5
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Distance between stirring places	90 mm
Motor rating input	7,2 W
Motor rating output	1,8 W
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5 %
Max. magnetic bar (L x Ø)	30 x 8 mm
Heating function	
Heat output	175 W
Temperature range (surface)	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C
Heat control	scale (1 – 10)
Temperature consistency in the medium	± 2 K
Heating plate	
Material	silicone
Dimensions	120 x 450 mm
General data	
Dimensions (W x D x H)	138 x 552 x 65 mm
Weight	3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42



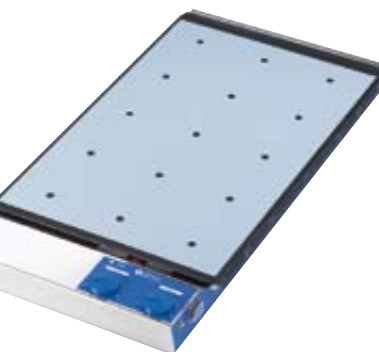
Ident. No.	
2930500	230 V 50/60 Hz
2930501	115 V 50/60 Hz

## RT 10 power IKAMAG®

Same features as RT 5 power, but with 10 stirring positions.

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring positions	10
Motor rating input	14,4 W
Motor rating output	3,6 W
Heating function	
Heat output	375 W
Heating plate	
Dimensions	180 x 450 mm
General data	
Dimensions (W x D x H)	198 x 552 x 65 mm
Weight	4,2 kg



Ident. No.	
2930700	230 V 50/60 Hz
2930701	115 V 50/60 Hz

## RT 15 power IKAMAG®

Same features as RT 5 power, but with 15 stirring positions.

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring positions	15
Motor rating input	21,6 W
Motor rating output	5,4 W
Heating function	
Heat output	580 W
Heating plate	
Dimensions	270 x 450 mm
General data	
Dimensions (W x D x H)	288 x 552 x 65 mm
Weight	6 kg



Ident. No.	
2930200	230 V 50/60 Hz
2930201	115 V 50/60 Hz

## RO 5 power IKAMAG®

Multi-position magnetic stirrer with 5 stirring positions, without heating. The stainless steel surface covers the unit allowing easy cleaning and providing protection against the penetration of liquids.

- Optimum use of laboratory space
- Including removable PUR cover

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring positions	5
Max. stirring quantity per stirrer (H <sub>2</sub> O)	0,4 l
Distance between stirring places	90 mm
Motor rating input	7,2 W
Motor rating output	1,8 W
Speed display	scale (1 – 10)
Speed range	0 – 1.100 rpm
Deviation for individual stirring positions	5 %
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	stainless steel (AISI 304)
Dimensions	120 x 450 mm
General data	
Dimensions (W x D x H)	122 x 552 x 65 mm
Weight	2,3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

## RO 10 power IKAMAG®

Same features as RO 5 power, but with 10 stirring positions.

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)



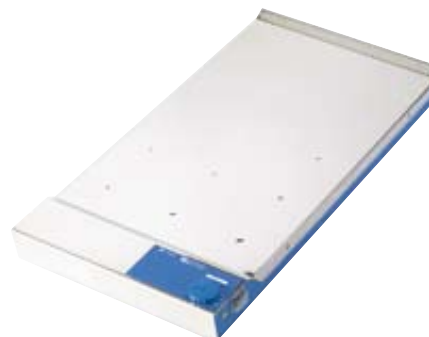
Ident. No.	
2930400	230 V 50/60 Hz
2930401	115 V 50/60 Hz

Technical data	
Stirring positions	10
Motor rating input	14,4 W
Motor rating output	3,6 W
Set-up plate	
Dimensions	180 x 450 mm
General data	
Dimensions (W x D x H)	182 x 552 x 65 mm
Weight	3,2 kg

## RO 15 power IKAMAG®

Same features as RO 5 power, but with 15 stirring positions.

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)



Ident. No.	
2930600	230 V 50/60 Hz
2930601	115 V 50/60 Hz

Technical data	
Stirring positions	15
Motor rating input	21,6 W
Motor rating output	5,4 W
Set-up plate	
Dimensions	270 x 450 mm
General data	
Dimensions (W x D x H)	272 x 552 x 65 mm
Weight	4,7 kg

# IKA® Mixing

18 Magnetic stirrers without heating



Ident. No. 2677000 100 – 240 V 50/60 Hz

## Mini MR standard IKAMAG®

Magnetic stirrer without heating, for stirring quantities up to 800 ml (H<sub>2</sub>O).  
 - Infinitely variable speed from 0 - 1.500 rpm  
 - White set-up plate suitable for observing color reactions

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring quantity (H <sub>2</sub> O)	0,8 l
Motor rating input	4 W
Motor rating output	0,5 W
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	polyester
Dimensions	115 x 115 mm
General data	
Dimensions (W x D x H)	115 x 130 x 40 mm
Weight	0,23 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42



Ident. No. 2812000 230 V 50/60 Hz  
 2812001 115 V 50/60 Hz

## KMO 2 basic IKAMAG®

Small, powerful magnetic stirrer without heating.  
 - Strong magnetic field  
 - Motor with optoelectronic speed control  
 - Infinitely variable speed from 0 - 1.100 rpm  
 - Stainless steel casing facilitates cleaning and sterilization  
 - Includes M 10 thread for H 16 V support rod

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RS 1 Set of stirring bars (29), RSE Stirring bar remover (29), H 16 V Support rod (27)

Technical data	
Stirring quantity (H <sub>2</sub> O)	5 l
Motor rating input	14 W
Motor rating output	4 W
Speed display	scale
Speed range	0 – 1.100 rpm
Max. magnetic bar (L x Ø)	50 x 8 mm
Set-up plate	
Material	stainless steel (AISI 304)
Dimensions	140 x 120 mm
General data	
Dimensions (W x D x H)	140 x 200 x 75 mm
Weight	1,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21



Ident. No. Motif 3277700 white 100 – 240 V 50/60 Hz

## lab disc IKAMAG®

Ultra-flat compact magnetic stirrer, guaranteed with modern magnet coil technology. Wear-free drive with no moving parts. The lab disc can reverse direction of rotation automatically every 30 seconds to ensure better mixing.  
 - Explosion hazard zone 2 (see techn. data)  
 - Rotation direction is reversible  
 - High IP protection class (IP 65)  
 - Wear-free  
 - Set-up plate and casing made from chemically resistant materials  
 - Slip-proof, safe stand

**Accessories (page):**  
 IKAFLON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring quantity (H <sub>2</sub> O)	800 ml
Motor rating input	5 W
Motor rating output	3 W
Speed range	15 – 1.500 rpm
Reversion of rotation direction (switchable)	every 30 s
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	polyester
Dimensions	Ø 90 mm
General data	
Dimensions (W x D x H)	114 x 161 x 12 mm
Weight	0,3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 65
Ex-proof	EX II 3 G EE x nC IIB T6



IKA® Mixing  
 Magnetic stirrers without heating

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## lab disc IKAMAG® – the ultra-flat magnetic stirrer with new motifs

Height only  
 12 mm



Ident. No.	Motif	Ident. No.	Motif
1 3277700	white	4 3578600	brown
2 3362300	Sunny Side Up	5 3578200	green
3 3578000	orange	6 3578400	pink



1 white



2 Sunny Side Up



3 orange



4 brown



5 green



6 pink





## COLOR SQUID IKAMAG® – the compact magnetic stirrer with attractive designs

Technical data on page 22.



1 Number one

Ident. No.	Motif	Ident. No.	Motif
1 2669917	Number one	6 3576600	bighead
2 2669936	Mighty Mouse	7 3576900	balloon
3 2669922	Wildcat	8 3576000	curly
4 2669913	Zip	9 3576300	sunny
5 2669910	Harry's notes		



2 Mighty Mouse



3 Wildcat



4 Zip



5 Harry's notes



6 bighead



7 balloon



8 curly



9 sunny

## BIG SQUID IKAMAG® – the magnetic stirrer with the extra large set-up plate

Technical data on page 22.



1 White

Ident. No.	Motif	Ident. No.	Motif
1 3050009	White	6 3573000	pineapple
2 3050002	Froggy	7 3573200	strawberry
3 3050001	Star	8 3573600	orange
4 3050005	IKAmäleon	9 3573400	kiwi
5 3050004	Ocean		



2 Froggy



3 Star



4 IKAmäleon



5 Ocean



6 pineapple



7 strawberry



8 orange



9 kiwi



Ident. No. Motif  
2669917 number one 100 – 240 V 50/60 Hz

## COLOR SQUID IKAMAG®

Small magnetic stirrers without heating, in a variety of motifs.

- Recyclable materials
- Very good chemical resistance due to glass top and synthetic bottom made of Hytrel®
- Electronically controlled motor with infinitely variable speed from 0 - 1.500 rpm

Accessories (page):

IKAFILON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)

Motifs on page 20.

Technical data	
Stirring quantity (H <sub>2</sub> O)	0,8 l
Motor rating input	2 W
Motor rating output	1 W
Speed display	none
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	glass
Dimensions	Ø 110 mm
General data	
Dimensions (W x D x H)	130 x 135 x 50 mm
Weight	0,48 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54



Ident. No. Motif  
3050009 White 100 – 240 V 50/60 Hz

## BIG SQUID IKAMAG®

Magnetic stirrer in five motifs. Same features as COLOR SQUID, but with a larger set-up plate:

- Diameter: 160 mm
- Stirring quantity (H<sub>2</sub>O) up to 1,5 l

Accessories (page):

IKAFILON®- Stirring bars (29), TRIKA®-Stirring bars (29), RSE Stirring bar remover (29)

Motifs on page 21.

Technical data	
Stirring quantity (H <sub>2</sub> O)	1,5 l
Motor rating input	2 W
Motor rating output	1 W
Speed display	none
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	glass
Dimensions	Ø 160 mm
General data	
Dimensions (W x D x H)	180 x 180 x 48 mm
Weight	1 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54



REO basic IKAMAG®

Ident. No.  
3384200 230 V 50/60 Hz  
3384201 115 V 50/60 Hz

## REO basic IKAMAG® REO basic C IKAMAG®

Classic magnetic stirrer without heating.

- Digital speed display
- Non-locking, electronically controlled motor
- Constant speed even during changes in load
- Infinitely variable speed
- Incl. protection cover H 101

REO basic C with white coated set-up plate on request.

REO basic IKAMAG® available 3. quarter 2007.

Accessories (page):

IKAFILON®- Stirring bars (29), TRIKA®- Stirring bars (29), RS 1 Set of stirring bars (29), RSE Stirring bar remover (29)

Technical data	
Stirring quantity (H <sub>2</sub> O)	20 l
Motor rating input / output	9,5 W / 3,5 W
Speed display	digital
Speed range	0 – 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Set-up plate	
Material	stainless steel
Dimensions	Ø 135 mm
General data	
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	2,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Technical data	
Stirring quantity (H <sub>2</sub> O)	50 l
Motor rating input	70 W
Motor rating output	19 W
Speed display	digital
Speed range	0 – 1.000 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Set-up plate	
Material	stainless steel (AISI 304)
Dimensions	350 x 350 mm
General data	
Dimensions (W x D x H)	360 x 430 x 110 mm
Weight	9 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

## Midi MR 1 digital IKAMAG®

Powerful magnetic stirrer without heating.

- Flat, sturdy stainless steel casing
- Non-locking motor
- Infinitely variable speed
- Digital LED speed display
- Timer (0 - 56 min) or continuous operation
- For stirring quantities up to 50 liters (H<sub>2</sub>O)

Accessories (page):

IKAFILON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)



Ident. No.  
2621900 230 V 50/60 Hz  
2621901 115 V 50/60 Hz

Technical data	
Stirring quantity (H <sub>2</sub> O)	150 l
Motor rating input	80 W
Motor rating output	35 W
Speed display	digital
Speed range	0 – 600 rpm
Max. magnetic bar (L x Ø)	155 x 27 mm
Set-up plate	
Material	stainless steel (AISI 304)
Dimensions	500 x 500 mm
General data	
Dimensions (W x D x H)	505 x 585 x 110 mm
Weight	16 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

## Maxi MR 1 digital IKAMAG®

Same features as Midi MR 1 digital.

- For stirring quantities up to 150 l (H<sub>2</sub>O)

Accessories (page):

IKAFILON®- Stirring bars (29), TRIKA®- Stirring bars (29), RSE Stirring bar remover (29)



Ident. No.  
2621800 230 V 50/60 Hz  
2621801 115 V 50/60 Hz





ETS-D5  
Ident. No.  
3378000

NEW!



ETS-D6  
Ident. No.  
3378100

NEW!

### Electronic Contact Thermometers ETS-D5 and ETS-D6

Ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating. With optimised PID control and RESET function, incl. stainless steel sensor H 62.51. For all magnetic stirrers with contact thermometer bushing according to DIN 12878, class 2 (e.g. IKA®, Heidolph and Corning with adapter AD-C1, Ident. No. 3414000, please order separately).

#### ETS-D6 additionally:

- With integrated pH measuring instrument (without pH electrode)
- Large, graphic LCD display with multilingual user guide

**Patented: 3 modes of operation** guarantee optimum adjustment to your working method:

#### Operating mode A

Suitable for work with varying parameters (from -50 °C to 450 °C). Safety temperature adjustable.

#### Operating mode B

Suitable for series operation under uniform conditions.

#### Operating mode C

Suitable for unsupervised operation.

All values are taken from the memory. This ensures perfect protection against inadvertent improper adjustment.

#### Accessories ETS-D5 and ETS-D6 (page):

Sensor (25): H 62.51, H 66.51, H 70 Extension cable (25), H 52 Power pack set (25), H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

Temperature	
Temperature measuring range	-50 – 450 °C
Resolution	0,1 K
Measuring accuracy	± 0,2 K + Sensor tolerance PT 1000 DIN IEC 751 class A
Setting accuracy	0,1 K
Control deviation	± 0,5 K
General data	
Supply voltage	8 – 16 VDC
Power consumption	10 mA (at 9 V)
Max. ON time	100 %
Plug	6 pin DIN 45322
Connection	DIN 12878 class 2
Dimensions (W x D x H)	82 x 22 x 83 mm (without sensor)
Weight	0,2 kg
Permissible ambient temperature	0 – 60 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

Temperature	
Temperature measuring range	-50 – 450 °C
Resolution	0,01 K
Measuring accuracy	± 0,05 K + Sensor tolerance PT 1000 DIN IEC 751 class A
Setting accuracy	0,1 K
Control deviation	± 0,2 K
pH measurement	
Measuring range	0 – 14 pH
Accuracy	± 0,1 pH
Resolution	± 0,01 pH
pH connection	BNC-bushing
General data	
Supply voltage	8 – 16 VDC
Power consumption	15 mA (at 9 V)
Max. ON tim	100 %
Plug	6 pin DIN 45322
Connection	DIN 12878 class 2
Dimensions (W x D x H)	96 x 45 x 98 mm (without sensor)
Weight	0,2 kg
Permissible ambient temperature	0 – 60 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

General data	
Depth of immersion	230 mm
Diameter	3 mm
Length	260 mm

### H 62.51 Stainless steel sensor

Spare sensor for use with ETS-D5 and ETS-D6.



Ident. No.  
2735451

General data	
Depth of immersion	230 mm
Diameter	6 mm
Length	260 mm

### H 66.51 Stainless steel sensor glass-coated

For use with ETS-D5 and ETS-D6, for work with aggressive media such as acid and alkaline solutions.



Ident. No.  
2735551

General data	
Length	1 m

### H 70 Extension cable

To separate the casing from the sensor. The casing with the electronics may thus be kept away from dangerous vapor released by the medium (for use with ETS-D5 and ETS-D6).



Ident. No.  
2735600

General data	
Analog output	10 mV/K

### H 52 Power pack set

The power pack set is required in order to operate older magnetic stirrer models (prior to 1990) with ETS-D5 and ETS-D6. If you have any questions, please contact our service department.

In addition, the power pack set features an analog output to document signals on a recorder.

#### Accessories (page):

labworldsoft® (143), DC 2 DATACONTROL (147), AK 2.1 Analog cable (148)



Ident. No.  
8010600 230 V 50/60 Hz  
8010601 115 V 50/60 Hz

PC documentation is also possible in combination with DC 2 DATACONTROL and labworldsoft®.

General data	
Depth of immersion	230 mm
Diameter	3 mm

### PT 1000.60 Temperature sensor

Made of stainless steel, for use with RCT basic safety control.



Ident. No.  
3516800



Ident. No.  
2601900

### PT 100.50 Temperature sensor

For use with RET control-visc *safety control* and RET control-visc C *safety control*.

**Accessories (page):**  
H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

General data	
Depth of immersion	230 mm
Diameter	3 mm



Ident. No.  
2600300

### PT 100.51 Temperature sensor

For use with RET control-visc *safety control* and RET control-visc C *safety control*, glass-coated for work with aggressive media such as acid and alkaline solutions.

**Accessories (page):**  
H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

General data	
Depth of immersion	230 mm
Diameter	8 mm



Ident. No.  
2847700

### PT 100.52 Temperature sensor

Made of stainless steel, for use with RET control-visc *safety control* and RET control-visc C *safety control*.

**Accessories (page):**  
H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

General data	
Depth of immersion	60 mm
Diameter	3 mm



Ident. No.  
3367600

### PT 1000.50 Temperature sensor

2 separate steel sensors for heat transfer fluid and medium. Ideal for the magnetic stirrers RET control-visc *safety control* and RET control-visc C *safety control*.

**Accessories (page):**  
H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

General data	
Depth of immersion	230 mm
Diameter	3 mm



Ident. No.  
3377700

### PT 1000.51 Temperature sensor

As per PT 1000.50, but glass-coated for work with corrosive media such as acids and lyes.

**Accessories (page):**  
H 16 V Support rod (27), H 44 Boss head clamp (27), H 38 Holding rod (27)

General data	
Depth of immersion	230 mm
Diameter	3 mm

General data	
Diameter	10 mm
Length	450 mm
Thread	M 10
Material	stainless steel (AISI 304)

### H 16 V Support rod

Stainless steel support rod for all magnetic stirrers with M 10 threaded bushing.

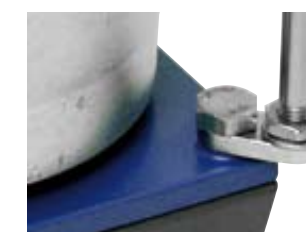
**Accessories (page):**  
R 380 Stand support (27), H 16.1 Extension (27), H 44 Boss head clamp (27), H 38 Holding rod (27)



Ident. No.  
1545100

### H 16.1 Extension

For work with bath attachment over 180 mm Ø.

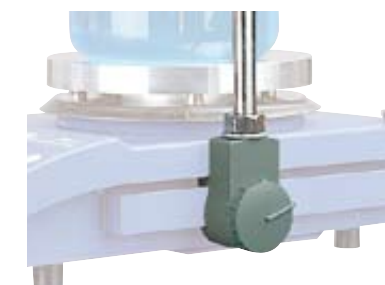


Ident. No.  
5000500

### R 380 Stand support

For fitting along the multifunction strips of the magnetic stirrers RET basic *safety control*, RET basic C *safety control*, RET control-visc *safety control*, RET control-visc C *safety control* and REO basic C. It allows the support rod H 16 V to be fixed at any given position. This makes it possible to use several support rods.

**Accessories (page):**  
H 16 V Support rod (27)



Ident. No.  
2636700

### H 44 Boss head clamp

For fastening the holding rod H 38 (p. 27) to the support rod H 16 V (p. 27).



Ident. No.  
2437700

### H 38 Holding rod

For fastening ETS-D5 or ETS-D6 with H 44 (p. 27) to the support rod H 16 V (p. 27).



Ident. No.  
3547700

## Labo Baza

### nowoczesne wyposażenie laboratorium

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