

IKA®

Magnetic Stirrers



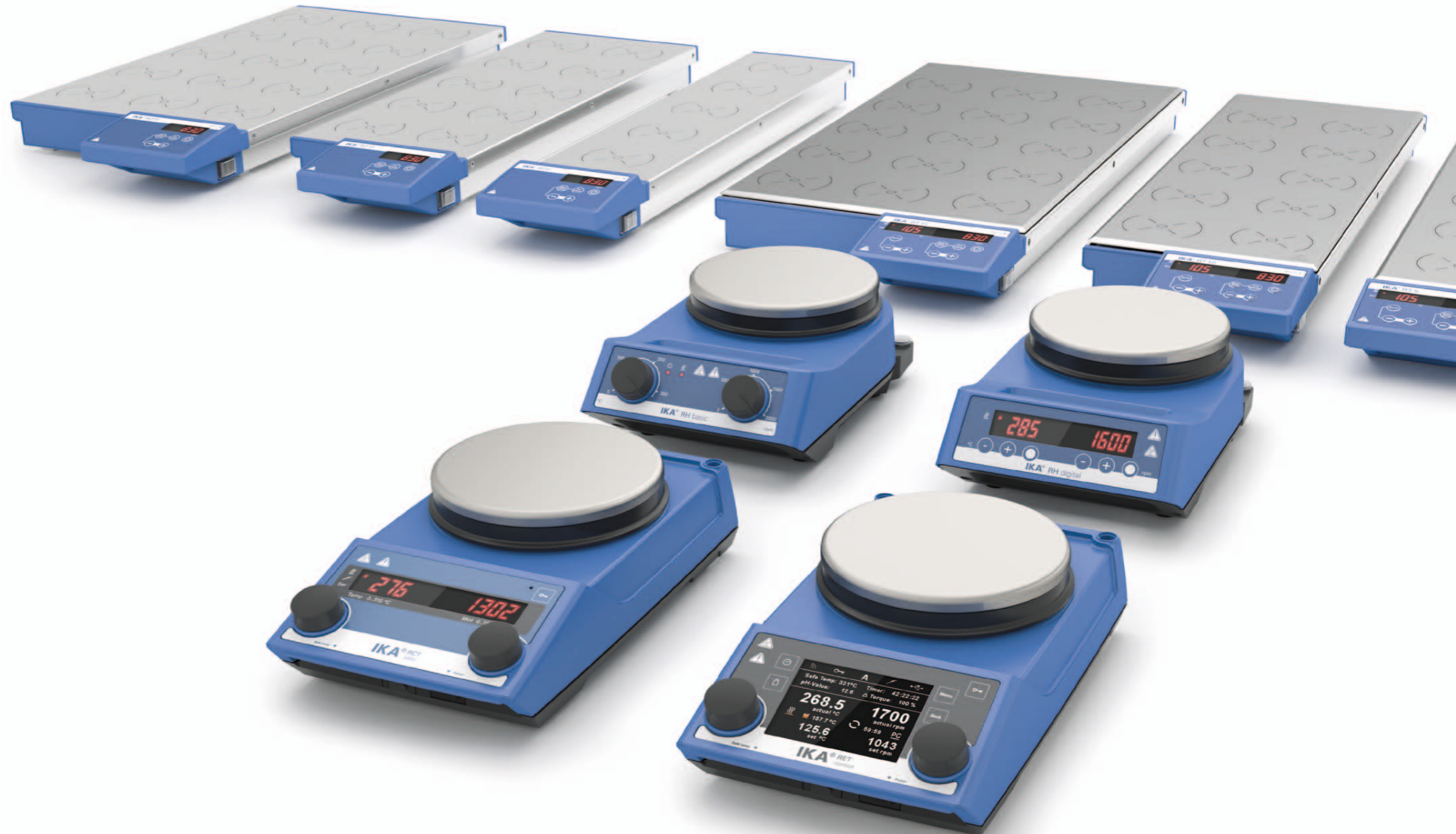
designed
to work perfectly

Stirring technology redefined!

IKA® offers an extensive magnetic stirrer portfolio worldwide.

The new generation of magnetic stirrers offer many unique features, such as an innovative RET control with patented integrated weighing function. In addition, the bestselling RCT basic is equipped with a USB interface to reproduce and document trials at any time.

Furthermore, the new and advanced multi-position magnetic stirrers are now equipped with digital displays and wear free magnetic coil technology. The newly designed, unbelievably affordable magnetic stirrers are now available with enhanced features to ensure better performance and exceptional heating solutions.



3 Year warranty*

* 2+1 years after registering at www.ika.com/register, glassware and wearing parts excluded

Protection class according to DIN EN 60529: Min. IP 21



RET control | Advanced safety & stirring!



BNC socket to connect a pH electrode



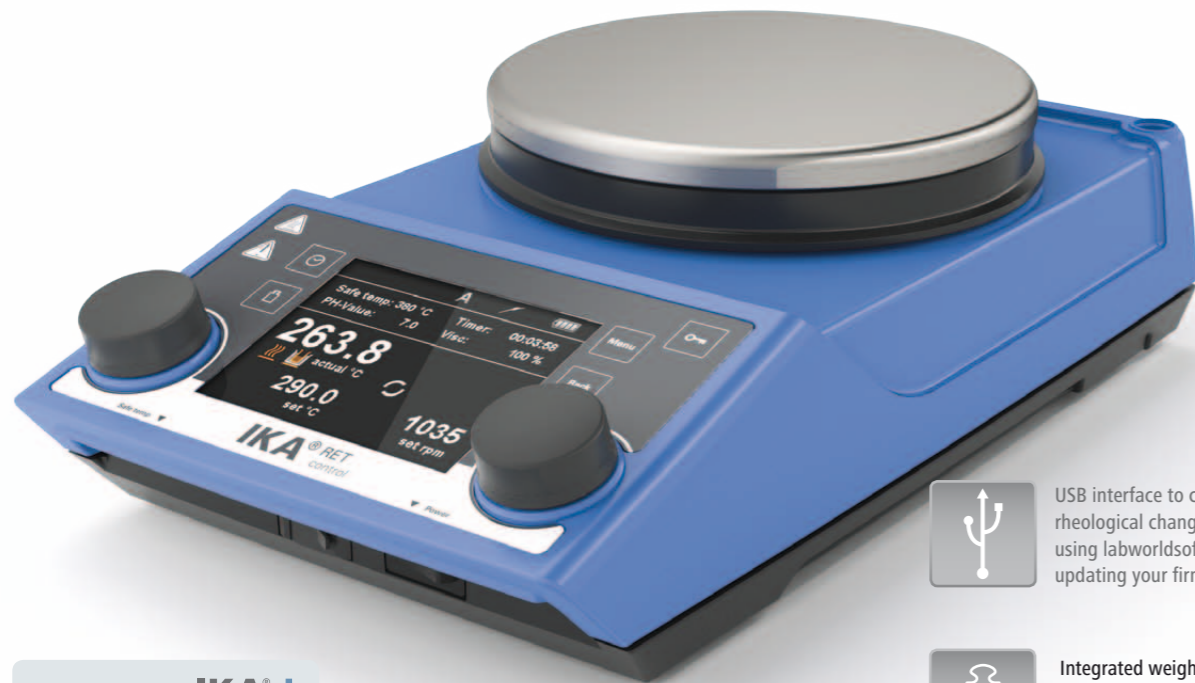
TFT Display for better image quality and easy navigation



Integrated temperature sensor for precise temperature control



RS 232 interface for PC connection



USB interface to control and document rheological changes and other parameters using labworldsoft® software and for updating your firmware



Integrated weighing function with max. weighing range of up to 2 kg

IKA+



RET control with white coated heating plate!

- > Offers excellent chemical resistance
- > Easy to clean

IKA® introduces the world's first hotplate magnetic stirrer with patented integrated weighing function.

The new RET control comes equipped with enhanced safety features ideal for all standard and temperature sensitive applications. It stands out due to indispensable features including stainless steel hotplate for rapid heating, safety circuit, torque trend display, error code display, timer and countdown functions. Indeed, the perfect solution for all your laboratory stirring needs.



RET control | Exquisite technology!



**IKA® Patent!
Weighing
function**

RCT basic | Advanced technology



Best-seller!



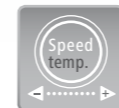
"HOT" sign warning to prevent burns



Digital display for precise monitoring of speed and temperature



Integrated temperature sensor for precise temperature control



Rotating Knob for adjusting the speed and the temperature



USB interface to control and document rheological changes and other parameters using labworldsoft® software and for updating your firmware

The bestseller RCT basic is now available in an upgraded version. New ergonomic design incorporates the latest technology. Integrated temperature control feature enables connection of a temperature probe for precise temperature control. Additionally, this device comes equipped with a USB interface to reproduce and document trials at any time. Thus making the stirrer more user-friendly, versatile, reliable and safe.

RH basic & digital | Highly efficient & economical!

Perfect and precise temperature control!



Soft start prevents the spraying of medium



Adjustable safety temperature



"HOT" sign warning to prevent burns



Digital display for precise monitoring of speed and temperature

IKA+



RH basic/digital with white coated heating plate!

- > Offers excellent chemical resistance
- > Easy to clean

The newly designed low-cost magnetic stirrers RH basic and digital are now available with enhanced features ensuring better performance and exceptional heating solutions. The strong magnetic field and wide speed range ensures usage for volumes up to 15 liters with ease.

RH digital is an innovatively designed magnetic stirrer featuring a composite hot plate and a high heat output of 600 watts ensuring rapid heating. Bushing according to DIN 12878 for connecting an electronic contact thermometer, such as the ETS-D5 enables precise temperature control. With ETS-D5 in the solution, the RH digital will not overshoot the adjusted temperature.



IKA+

The convenient carrying handle and the compact design makes the unit ultra-portable and offers easy transportation

RT 5 | 10 | 15 | Magnetic coil & Heating foil


The new RT series of multi-position digital magnetic hotplate stirrers are ideal for synchronous heating and stirring applications. The wear-free magnetic coil technology provides consistent and noiseless stirring on all positions. The RT series of magnetic stirrers are available with 5, 10 and 15 stirring positions and can be used for volumes up to 6 l (H₂O).





RO 5 | 10 | 15 | Magnetic coil technology


The new RO series of multi-position digital magnetic stirrers without heating are ideal for synchronous stirring. The closed and compact design allows easy cleaning and protects the equipment against the penetration of liquids. The RO series of magnetic stirrers are available with 5, 10 and 15 stirring positions and can be used for volumes up to 6 l (H₂O).





 **Digital display** for precise monitoring of the speed


 **Heating foil** for homogeneous temperature distribution of the heating plate


 **Reverse rotation switch** for better mixing results


 **Wear-free magnetic coils** for consistent and silent operation


 **ECO mode** for a low self-warming of the surface

 **Digital display** for precise monitoring of speed and temperature

 **Foil keypad** for easy operation

 **Reverse rotation switch** for better mixing results

 **Wear-free magnetic coils** for consistent and silent operation

 **ECO mode** for a low self-warming of the surface

IKA⁺

The magnetic coil technology works on the inductive principle with alternative current (AC) as its driving force. The generated magnetic field drives the magnetic bar into vessels.

The drive is 100% wear and maintenance-free and has no moving parts, for example belts, bearings, engine parts etc. The flat and space-saving design requires only limited space and fits in all lab settings.

C-MAG HS 4 | 7 | 10 IKAMAG®

C-MAG HS digital 4 | 7 | 10 | Highly safe & accurate!

Ceramic heating plate offers excellent chemical resistance to acids, bases and solvents

Digital display for precise temperature control

DIN bushing for connecting a digital contact thermometer such as ETS-D5

NEW 2012

NEW 2012



Hot Top indicator to prevent burns



Elevated control panel for protection against spilled liquids

The new C-MAG HS digital magnetic stirrers with heating come equipped with a ceramic heating plate which offers excellent chemical resistance and an LCD display. A connection for a PT 1000 temperature sensor enables precise temperature control of the medium temperature (PT 1000 sensor included in delivery).



LCD display for simultaneous display of target and actual temperatures



Integrated temperature sensor for precise temperature control

Magnetic stirrers without heating



Mini MR standard IKAMAG®

- > For stirring quantities of 1000 ml (H₂O)
- > Infinitely variable speed from 0 – 2500 rpm
- > White set-up plate suitable for observing color reactions



topolino IKAMAG®

- > Durable brushless motor
- > Continuously adjustable speed range
- > High magnetic adhesion



topolino mobil

- > Short charging time (2 – 3 h)
- > Portable unit with long operating time (8 – 12 h)



lab disc IKAMAG®

- > Ultra-flat for stirring quantities of up to 800 ml (H₂O)
- > Modern wear-free magnetic coil technology
- > Automatic reverse rotation every 30 seconds for better mixing results
- > Set-up plate and casing made of chemically resistant materials
- > Slip-proof and safe stand

C-MAG MS 4 | 7 | 10 IKAMAG®

- > Ceramic plate offers excellent chemical resistance to acid, bases and solvents
- > Powerful motor for stirring quantities up to 15 l (H₂O)
- > Elevated control panel for protection against spilled liquids
- > Available in 3 different sizes: 4", 7" and 10"



big squid IKAMAG®

- > For maximum stirring quantity of 1.5 l (H₂O)
- > Digital display for precise speed setting
- > Electronically controlled motor for more capacity
- > Higher speed range from 0 – 2500 rpm
- > Glass plate for excellent resistance to acids, bases and solvents



color squid IKAMAG®

- > For maximum stirring quantity of 1 l (H₂O)
- > Available in various interesting motives



KMO 2 basic IKAMAG®

- > Small, powerful magnetic stirrer for stirring quantities up to 5 l (H₂O)
- > Motor with optoelectronic speed control
- > Infinitely variable speed from 0 – 1100 rpm
- > Stainless steel casing facilitates cleaning and sterilization

Midi MR 1 digital IKAMAG®

- > For stirring quantities up to 50 l (H₂O)



Maxi MR 1 digital IKAMAG®

- > For stirring quantities up to 150 l (H₂O)
- > Flat, sturdy stainless steel casing
- > Non-locking motor
- > Infinitely adjustable speed with digital display
- > Timer (0 – 56 min) or continuous operation

Magnetic stirrers with heating | Technical data



Available
Q1/2013

RCT basic



Available
Q1/2013

RET control



Available
Q1/2013

RH basic | digital

Technical data

Max. stirring quantity (H ₂ O)	20 l
Motor rating input / output	16 / 9 W
Speed range	50 – 1500 rpm
Speed display	LED
Max. stirring bar length	80 mm
Heat output	600 W
Heating rate (1 l H ₂ O in H15)	7 K/min
Temperature range	RT – 340 °C
Setting accuracy	1 ±K
Adjustable safety circuit	50 – 370 °C
Connection for ext. temp. sensor	DIN 12878
Control accuracy with sensor	0.5 ±K
Set-up plate material	stainless steel 1.4301
Set-up plate dimensions	Ø 135 mm
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 42
Voltage	220 – 240 V
Frequency	50/60 Hz
Interface	USB

Price 566,- EUR

Ident. No. 5019900

Max. stirring quantity (H ₂ O)	20 l
Motor rating input / output	16 / 9 W
Speed range	50 – 1700 rpm
Speed display	TFT
Max. stirring bar length	80 mm
Heat output	600 W
Heating rate (1 l H ₂ O in H15)	7 K/min
Temperature range	RT – 340 °C
Setting accuracy	0.1 ±K
Adjustable safety circuit	50 – 370 °C
Connection for ext. temp. sensor	DIN 12878
Control accuracy with sensor	0.2 ±K
Set-up plate material	stainless steel 1.4301
Set-up plate dimensions	Ø 135 mm
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 42
Voltage	220 – 240 V
Frequency	50/60 Hz
Interface	USB / RS 232

Price 830,- EUR

Ident. No. 5020000

Max. stirring quantity (H ₂ O)	15 l
Motor rating input / output	15 / 2 W
Speed range	50 – 2000 rpm
Speed display	scale LED
Max. stirring bar length	80 mm
Heat output	600 W
Heating rate (1 l H ₂ O in H15)	6 K/min
Temperature range	50 – 320 °C
Setting accuracy	– 5 ±K
Adjustable safety circuit	50 – 370 °C
Connection for ext. temp. sensor	DIN 12878
Control accuracy with sensor	1 ±K
Set-up plate material	stainless steel 1.4301
Set-up plate dimensions	Ø 135 mm
Dimensions (W x D x H)	160 x 246 x 90 mm
Weight	2 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21
Voltage	220 – 240 V
Frequency	50/60 Hz
Interface	–

Price 290,- EUR | 399,- EUR

RH basic: Ident. No. 5019700

RH digital: Ident. No. 5019800



C-MAG HS 4 | 7 | 10 IKAMAG®

Technical data

Max. stirring quantity (H ₂ O)	5 l 10 l 15 l
Motor rating input / output	15 / 1.5 W
Speed range	100 – 1500 rpm
Speed display	scale
Max. stirring bar length	80 mm
Heat output	250 W 1000 W 1500 W
Heating rate (1 l H ₂ O in H15)	2.5 K/min 5 K/min 5 K/min
Temperature range	50 – 500 °C
Temperature display	LED
Setting accuracy	10 ±K
Adjustable safety circuit	550 °C (fixed)
Connection for ext. temp. sensor	– DIN 12878 DIN 12878
Control accuracy with sensor	– 0.5 ±K 0.5 ±K
Set-up plate material	Ceramic
Set-up plate dimensions	100 x 100 mm 180 x 180 mm 260 x 260 mm
Dimensions (W x D x H)	150 x 260 x 105 mm 220 x 330 x 105 mm 300 x 415 x 105 mm
Weight	3 kg 5 kg 6 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21
Voltage	230 V
Frequency	50/60 Hz
Interface	–

Price

370,- EUR | 391,- EUR | 599,- EUR

C-MAG HS 4 IKAMAG®: Ident. No. 3581000

C-MAG HS 7 IKAMAG®: Ident. No. 3581200

C-MAG HS 10 IKAMAG®: Ident. No. 3581400

NEW
2012



C-MAG HS 4 | 7 | 10 digital IKAMAG®

Max. stirring quantity (H ₂ O)	5 l 10 l 15 l
Motor rating input / output	15 / 1.5 W
Speed range	100 – 1500 rpm
Speed display	scale
Max. stirring bar length	30 mm 80 mm 80 mm
Heat output	250 W 1000 W 1500 W
Heating rate (1 l H ₂ O in H15)	2.5 K/min 5 K/min 5 K/min
Temperature range	50 – 500 °C
Temperature display	LCD
Setting accuracy	1 ±K
Adjustable safety circuit	550 °C (fixed)
Connection for ext. temp. sensor	DIN 12878
Control accuracy with sensor	0.5 ±K
Set-up plate material	Ceramic
Set-up plate dimensions	100 x 100 mm 180 x 180 mm 260 x 260 mm
Dimensions (W x D x H)	150 x 260 x 105 mm 215 x 330 x 105 mm 300 x 415 x 105 mm
Weight	3 kg 5 kg 6 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21
Voltage	230 V
Frequency	50/60 Hz
Interface	–

Price 449,- EUR | 499,- EUR | 629,- EUR

C-MAG HS 4 digital IKAMAG®: Ident. No. 4240200

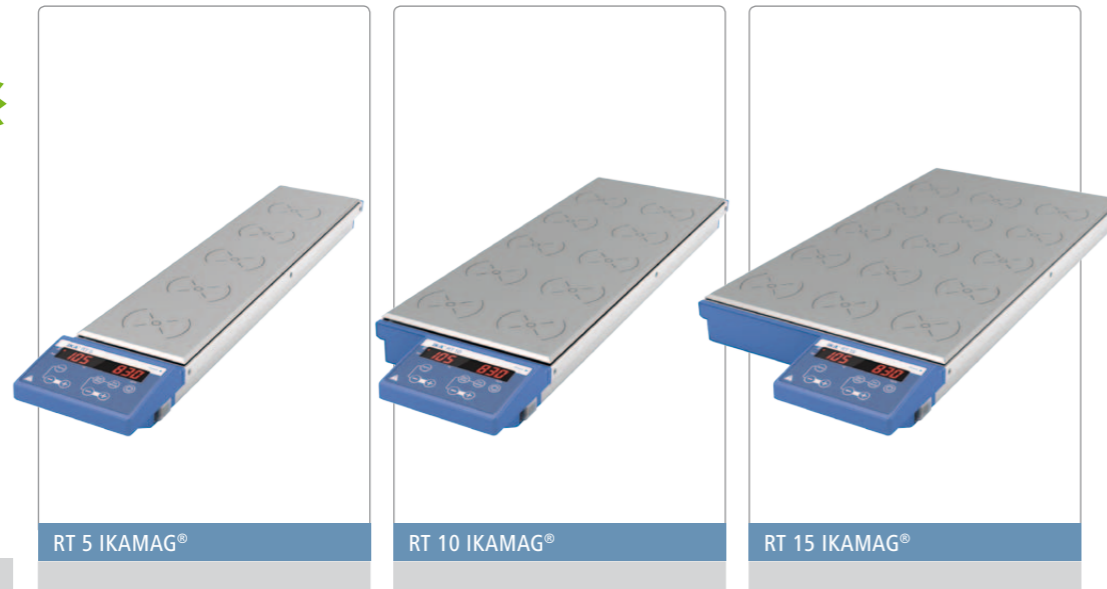
C-MAG HS 7 digital IKAMAG®: Ident. No. 3487000

C-MAG HS 10 digital IKAMAG®: Ident. No. 4240400

Multi-position stirrers with heating | Technical data

Multi-position stirrers without heating | Technical data

Available
Q1/2013



RT 5 IKAMAG®

RT 10 IKAMAG®

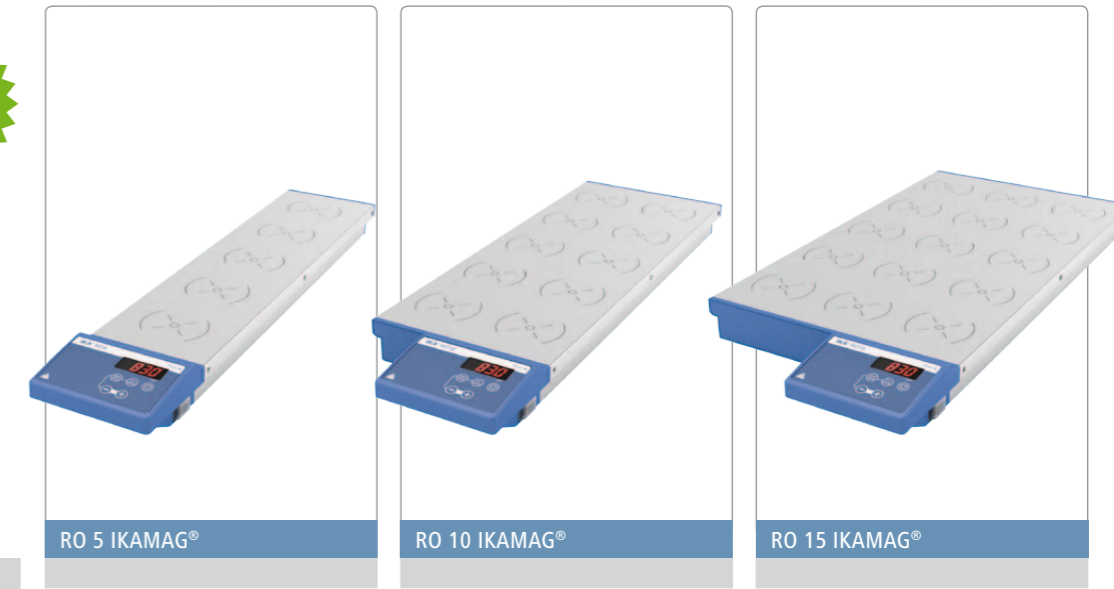
RT 15 IKAMAG®

Technical data	
Number of stirring positions	5
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	2 l
Speed range	0 – 1000 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Heat output	175 W
Heating rate (1 l H ₂ O in H15)	3 K/min
Temperature range heating plate	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C
Temperature display	LED
Heat control accuracy	1 ±K
Set-up plate material	Aluminium alloy
Set-up plate dimensions	110 x 495 mm
Dimensions (W x D x H)	120 x 610 x 60 mm
Weight	4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 40
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	1073,- EUR
	Ident. No. 3690600

Number of stirring positions	10
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	4 l
Speed range	0 – 1000 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Heat output	375 W
Heating rate (1 l H ₂ O in H15)	3 K/min
Temperature range heating plate	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C
Temperature display	LED
Heat control accuracy	1 ±K
Set-up plate material	Aluminium alloy
Set-up plate dimensions	180 x 495 mm
Dimensions (W x D x H)	190 x 610 x 60 mm
Weight	7.5 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 40
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	1405,- EUR
	Ident. No. 3691100

Number of stirring positions	15
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	6 l
Speed range	0 – 1000 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Heat output	580 W
Heating rate (1 l H ₂ O in H15)	3 K/min
Temperature range heating plate	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C
Temperature display	LED
Heat control accuracy	1 ±K
Set-up plate material	Aluminium alloy
Set-up plate dimensions	270 x 495 mm
Dimensions (W x D x H)	280 x 610 x 60 mm
Weight	10.5 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 42
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	1718,- EUR
	Ident. No. 3692600

Available
Q1/2013



RO 5 IKAMAG®

RO 10 IKAMAG®

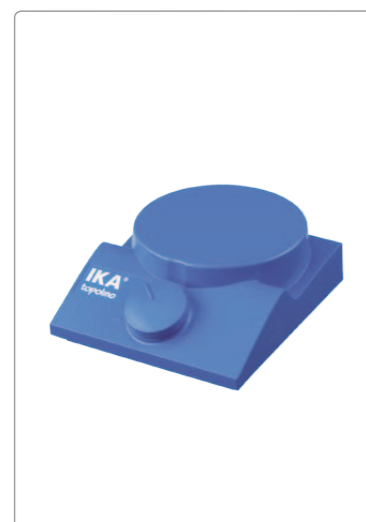
RO 15 IKAMAG®

Technical data	
Number of stirring positions	5
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	2 l
Speed range	0 – 1200 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Set-up plate material	Stainless steel 1.4301
Set-up plate dimensions	120 x 470 mm
Dimensions (W x D x H)	120 x 570 x 60 mm
Weight	3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 40
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	989,- EUR
	Ident. No. 3690500

Number of stirring positions	10
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	4 l
Speed range	0 – 1200 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Set-up plate material	Stainless steel 1.4301
Set-up plate dimensions	190 x 470 mm
Dimensions (W x D x H)	190 x 570 x 60 mm
Weight	5 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 40
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	1225,- EUR
	Ident. No. 3691000

Number of stirring positions	15
Max. stirring quantity per stirring position (H ₂ O)	0.4 l
Distance between stirring places	90 mm
Deviation for individual stirring positions	0%
Max. stirring quantity (H ₂ O)	6 l
Speed range	0 – 1200 rpm
Speed display	LED line
Speed adjustment	10 rpm steps
Max. stirring bar length	30 mm
Set-up plate material	Stainless steel 1.4301
Set-up plate dimensions	280 x 470 mm
Dimensions (W x D x H)	280 x 570 x 60 mm
Weight	7 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 40
Voltage	100 – 240 V
Frequency	50/60 Hz
Price	1545,- EUR
	Ident. No. 3692500

Magnetic stirrers without heating | Technical data



topolino IKAMAG®

Technical data

Max. stirring quantity (H ₂ O)	0.25 l
Motor rating input / output	1 / 0.8 W
Speed range	300 – 1800 rpm
Speed display	–
Max. stirring bar length	30 mm
Speed adjustment	stepless
Set-up plate material	synthetic (PP)
Set-up plate dimensions	Ø 80 mm
Dimensions (W x D x H)	95 x 115 x 37 mm
Weight	0.32 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21
Voltage	100 – 240 V
Frequency	50/60 Hz

Price 78,- EUR

Ident. No. 3368000



topolino mobil

Max. stirring quantity (H ₂ O)	0.25 l
Motor rating input / output	1 / 0.8 W
Speed range	300 – 1800 rpm
Speed display	–
Max. stirring bar length	30 mm
Speed adjustment	stepless
Set-up plate material	synthetic (PP)
Set-up plate dimensions	Ø 80 mm
Dimensions (W x D x H)	Ø 140 x 42 mm
Weight	0.60 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 21

Price 157,- EUR

Ident. No. 3381300



Mini MR standard IKAMAG®

Max. stirring quantity (H ₂ O)	1 l
Motor rating input / output	3 / 2 W
Speed range	0 – 2500 rpm
Speed display	–
Max. stirring bar length	30 mm
Speed adjustment	stepless
Set-up plate material	polyester
Set-up plate dimensions	115 x 115 mm
Dimensions (W x D x H)	114 x 127 x 37 mm
Weight	0.25 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 42

Price 264,- EUR

Ident. No. 3674000



lab disc IKAMAG®

Technical data

Max. stirring quantity (H ₂ O)	0.8 l
Motor rating input / output	5 / 3 W
Speed range	15 – 1500 rpm
Speed display	–
Max. stirring bar length	25 mm
Speed adjustment	stepless
Set-up plate material	polyester
Set-up plate dimensions	Ø 100 mm
Dimensions (W x D x H)	117 x 180 x 12 mm
Weight	0.3 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 65
Voltage	100 – 240 V
Frequency	50/60 Hz

Price 201,- EUR

Ident. No. 3907500	white
Ident. No. 3765000	pattern
Ident. No. 3916100	stream
Ident. No. 3920700	meadow
Ident. No. 3920900	maracuja



color squid IKAMAG®

Max. stirring quantity (H ₂ O)	1 l
Motor rating input / output	3 / 2 W
Speed range	0 – 2500 rpm
Speed display	LED
Max. stirring bar length	30 mm
Speed adjustment	50 rpm steps
Set-up plate material	glass
Set-up plate dimensions	Ø 115 mm
Dimensions (W x D x H)	145 x 160 x 45 mm
Weight	0.54 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 54

Price 199,- EUR

Ident. No. 3671000	white
Ident. No. 3698200	zebra
Ident. No. 3698300	bubbles
Ident. No. 3698400	wave
Ident. No. 3698500	palm tree
Ident. No. 4175300	solar sphere
Ident. No. 4175100	Stars and Stripes
Ident. No. 4175200	Union Jack
Ident. No. 4175400	Red flag
Ident. No. 4175500	Selecao



big squid IKAMAG®

Max. stirring quantity (H ₂ O)	1.5 l
Motor rating input / output	3 / 2 W
Speed range	0 – 2500 rpm
Speed display	LED
Max. stirring bar length	30 mm
Speed adjustment	50 rpm steps
Set-up plate material	glass
Set-up plate dimensions	Ø 160 mm
Dimensions (W x D x H)	180 x 195 x 40 mm
Weight	0.7 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 54

Price 218,- EUR

Ident. No. 3672000	white
Ident. No. 3857200	frozen
Ident. No. 3857400	hibiscus
Ident. No. 3857300	twist
Ident. No. 3857100	leaves

Magnetic stirrers without heating | Technical data

			
	KMO 2 basic IKAMAG®	Midi MR 1 digital IKAMAG®	Maxi MR 1 digital IKAMAG®
Technical data			
Max. stirring quantity (H ₂ O)	5 l	50 l	150 l
Motor rating input / output	14 / 4 W	70 / 19 W	80 / 35 W
Speed range	0 – 1100 rpm	0 – 1000 rpm	0 – 600 rpm
Speed display	scale	LCD	LCD
Max. stirring bar length	50 mm	80 mm	155 mm
Speed adjustment	stepless	stepless	stepless
Set-up plate material	stainless steel 1.4301	stainless steel 1.4301	stainless steel 1.4301
Set-up plate dimensions	140 x 120 mm	350 x 350 mm	500 x 500 mm
Dimensions (W x D x H)	140 x 200 x 75 mm	360 x 430 x 110 mm	505 x 585 x 110 mm
Weight	1.4 kg	10.7 kg	16 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21
Voltage	230 V	230 V	230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	569,- EUR	2207,- EUR	2436,- EUR
	Ident. No. 2812000	Ident. No. 2621900	Ident. No. 2621800

			
	C-MAG MS 4 IKAMAG®	C-MAG MS 7 IKAMAG®	C-MAG MS 10 IKAMAG®
Technical data			
Max. stirring quantity (H ₂ O)	5 l	10 l	15 l
Motor rating input / output	15 / 1.5 W	15 / 1.5 W	15 / 1.5 W
Speed range	100 – 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
Speed display	scale	scale	scale
Max. stirring bar length	80 mm	80 mm	80 mm
Speed adjustment	scale 0 – 6	scale 0 – 6	scale 0 – 6
Set-up plate material	ceramic	ceramic	ceramic
Set-up plate dimensions	100 x 100 mm	180 x 180 mm	260 x 260 mm
Dimensions (W x D x H)	150 x 260 x 105 mm	220 x 330 x 105 mm	300 x 415 x 105 mm
Weight	3 kg	5 kg	6 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21
Voltage	230 V	230 V	230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	391,- EUR	512,- EUR	594,- EUR
	Ident. No. 3582200	Ident. No. 3582400	Ident. No. 3582600

Magnetic stirrers | Accessories

IKA®+

COMING SOON:
Dry Heating Blocks for
C-MAG HS 7 IKAMAG®



Dry Heating Block-Square Series		
Dry Heating Block-Square Series	Ident. No. 4043500	389,- EUR
Square Carrier with Handle		
Block 16 x 4 ml	Ident. No. 4448200	Price on request
Block 16 x 8 ml	Ident. No. 4046000	32,- EUR
Block 9 x 16 ml	Ident. No. 4046200	35,- EUR
Block 4 x 20 ml	Ident. No. 4045700	30,- EUR
Block 4 x 30 ml	Ident. No. 4045800	35,- EUR
Block 4 x 40 ml	Ident. No. 4045900	39,- EUR
Block 100 ml	Ident. No. 4044000	31,- EUR
Block 250 ml	Ident. No. 4044500	37,- EUR



100 ml Flask Heating Block Series		
100 ml Flask Heating Block Series	Ident. No. 4041700	156,- EUR
Flask Carrier 100 ml with Handle		
Flask inlay 10 ml	Ident. No. 4041800	18,- EUR
Flask inlay 25 ml	Ident. No. 4041900	18,- EUR
Flask inlay 50 ml	Ident. No. 4043600	18,- EUR

500 ml Flask Heating Block Series		
500 ml Flask Heating Block Series	Ident. No. 4042600	197,- EUR
Flask Carrier 500 ml with Handle		
Flask inlay 100 ml	Ident. No. 4042200	40,- EUR
Flask inlay 250 ml	Ident. No. 4042000	41,- EUR

1000 ml Flask Heating Block Series		
1000 ml Flask Heating Block Series	Ident. No. 4043700	238,- EUR
Flask Carrier 1000 ml with Handle		
Flask inlay 500 ml	Ident. No. 4042500	70,- EUR

2000 ml Flask Heating Block Series		
2000 ml Flask Heating Block Series	Ident. No. 4045100	310,- EUR
Flask Carrier 2000 ml with Handle		
Flask inlay 1000 ml	Ident. No. 4042100	103,- EUR

3000 ml Flask Heating Block Series		
3000 ml Flask Heating Block Series	Ident. No. 4045600	464,- EUR
Flask Carrier 3000 ml with Handle		
Flask inlay 2000 ml	Ident. No. 4045500	163,- EUR

5000 ml Flask Heating Block Series		
5000 ml Flask Heating Block Series	Ident. No. 4045200	737,- EUR
Flask Carrier 5000 ml with Handle		
Flask inlay 3000 ml	Ident. No. 4044800	285,- EUR

Electronic Contact Thermometer ETS-D5

For all magnetic stirrers with contact thermometer bushing according to DIN 12878, class 2

Ident. No. 3378000

Electronic Contact Thermometer ETS-D6

Similar to ETS-D5, additionally:
- with integrated pH measuring instrument (without pH electrode)
- large, graphic LCD display with multi-lingual user guide

Ident. No. 3378100

H 62.51 Stainless steel sensor

Spare sensor for use with ETS-D5 / ETS-D6

Ident. No. 2735451



H 66.51 Stainless steel sensor glass-coated

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

Ident. No. 2735551



H 70 Extension cable

To separate the casing from the sensor (for use with ETS-D5)

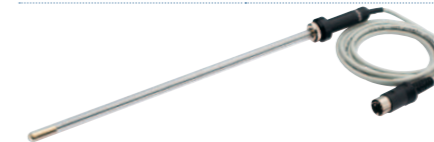
Ident. No. 2735600



PT 100.51 Temperature sensor

For use with RET control, glass coated

Ident. No. 2600300



PT 1000.60 Temperature sensor

Made of stainless steel, for use with RCT basic

Ident. No. 3516800



PT 100.50 Temperature sensor

For use with RET control

Ident. No. 2601900



PT 1000.70 Temperature sensor glass-coated

For use with RCT basic

Ident. No. 3736000



IKA®+

Coated temperature sensors
PFA coated, for work with
aggressive media

PT 1000.90

For use with RCT basic Ident. No. 4480600

PT 100.53

For use with RET control Ident. No. 4499700

PT 1000.53

For use with RET control Ident. No. 4499800

H 66.53

For use with ETS-D5 or ETS-D6 Ident. No. 4499900

Magnetic stirrers | Accessories



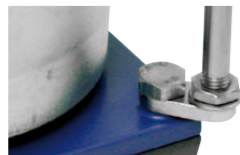
H 16 V Support rod

Stainless steel support rod for all magnetic stirrers with M 10 threaded bushing Ident. No. 1545100



H 16.1 Extension

For work with bath attachment over 180 mm Ø Ident. No. 5000500



H 44 Boss head clamp

For fastening the H 38 holding rod to the H 16 V support rod Ident. No. 2437700



H 38 Holding rod

For fastening ETS-D5 and PT 1000 with H 44 to the H 16 V support rod Ident. No. 3547700



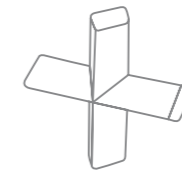
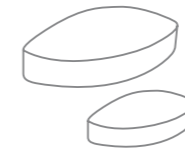
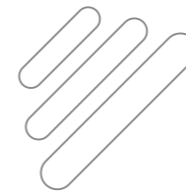
H 11 Mains cable

Spare	Euro plug	Ident. No. 1091500
	USA plug	Ident. No. 3564500
	UK plug	Ident. No. 2410700
	CH plug	Ident. No. 1091600



IKA+

New manual lab lift!
Suitable for all kind of laboratory applications



Individual		Packages		Dimensions (L x Ø)
IKAFLON® 10*	Ident. No. 1572000	IKAFLON® 10 Set (5 Pcs) round PTFE-coated	Ident. No. 4488600	10 x 6 mm
IKAFLON® 15*	Ident. No. 1572100	IKAFLON® 15 Set (5 Pcs) round PTFE-coated	Ident. No. 4488700	15 x 6 mm
IKAFLON® 20*	Ident. No. 1572200	IKAFLON® 20 Set (5 Pcs) round PTFE-coated	Ident. No. 4488800	20 x 8 mm
IKAFLON® 25*	Ident. No. 1572300	IKAFLON® 25 Set (5 Pcs) round PTFE-coated	Ident. No. 4488900	25 x 8 mm
IKAFLON® 30*	Ident. No. 1572400	IKAFLON® 30 Set (5 Pcs) round PTFE-coated	Ident. No. 4489000	30 x 8 mm
IKAFLON® 40*	Ident. No. 1572500	IKAFLON® 40 Set (5 Pcs) round PTFE-coated	Ident. No. 4489100	40 x 8 mm
IKAFLON® 50*	Ident. No. 1572600	IKAFLON® 50 Set (5 Pcs) round PTFE-coated	Ident. No. 4489200	50 x 8 mm
IKAFLON® 80*	Ident. No. 1572800	IKAFLON® 80 Set (5 Pcs) round PTFE-coated	Ident. No. 4489300	80 x 10 mm
IKAFLON® 110	Ident. No. 0793300	IKAFLON® 110 Set (5 Pcs) round PTFE-coated	Ident. No. 4489400	110 x 27 mm
IKAFLON® 155	Ident. No. 1129000	IKAFLON® 155 Set (5 Pcs) round PTFE-coated	Ident. No. 4489500	155 x 27 mm
IKAFLON® glass 25 round	Ident. No. 4492100	IKAFLON® glass 25 Set (5 Pcs) round	Ident. No. 4492200	25 x 8 mm
IKAFLON® glass 30 round	Ident. No. 4492300	IKAFLON® glass 30 Set (5 Pcs) round	Ident. No. 4492400	30 x 8 mm
IKAFLON® glass 40 round	Ident. No. 4492500	IKAFLON® glass 40 Set (5 Pcs) round	Ident. No. 4492600	40 x 8 mm
IKAFLON® glass 50 round	Ident. No. 4492700	IKAFLON® glass 50 Set (5 Pcs) round	Ident. No. 4492800	50 x 8 mm
IKAFLON® 15 power SmSo PTFE-coated	Ident. No. 4492900	IKAFLON® 15 Set (5 Pcs) power SmSo PTFE-coated	Ident. No. 4493000	15 x 9 mm
IKAFLON® 30 power SmSo PTFE-coated	Ident. No. 4493100	IKAFLON® 30 Set (5 Pcs) power SmSo PTFE-coated	Ident. No. 4493200	30 x 12 mm
IKAFLON® 50 power SmSo PTFE-coated	Ident. No. 4493300	IKAFLON® 50 Set (5 Pcs) power SmSo PTFE-coated	Ident. No. 4493400	50 x 21 mm
IKAFLON® 90 power SmSo PTFE-coated	Ident. No. 4493500	IKAFLON® 90 Set (5 Pcs) power SmSo PTFE-coated	Ident. No. 4493600	90 x 25 mm
IKAFLON® 25 slide round PTFE-coated	Ident. No. 4493700	IKAFLON® 25 Set (5 Pcs) slide round PTFE-coated	Ident. No. 4493800	25 x 6 mm
IKAFLON® 30 slide round PTFE-coated	Ident. No. 4493900	IKAFLON® 30 Set (5 Pcs) slide round PTFE-coated	Ident. No. 4494000	30 x 6 mm
IKAFLON® 40 slide round PTFE-coated	Ident. No. 4494100	IKAFLON® 40 Set (5 Pcs) slide round PTFE-coated	Ident. No. 4494200	40 x 8 mm
IKAFLON® 50 slide round PTFE-coated	Ident. No. 4494300	IKAFLON® 50 Set (5 Pcs) slide round PTFE-coated	Ident. No. 4494400	50 x 8 mm
IKAFLON® 20 ellipse PTFE-coated	Ident. No. 4494500	IKAFLON® 20 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4494600	20 x 10 mm
IKAFLON® 25 ellipse PTFE-coated	Ident. No. 4494700	IKAFLON® 25 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4494800	25 x 12 mm
IKAFLON® 30 ellipse PTFE-coated	Ident. No. 4494900	IKAFLON® 30 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4495000	30 x 15 mm
IKAFLON® 35 ellipse PTFE-coated	Ident. No. 4495100	IKAFLON® 35 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4495200	35 x 15 mm
IKAFLON® 40 ellipse PTFE-coated	Ident. No. 4495300	IKAFLON® 40 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4495400	40 x 20 mm
IKAFLON® 50 ellipse PTFE-coated	Ident. No. 4495500	IKAFLON® 50 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4495600	50 x 20 mm
IKAFLON® 60 ellipse PTFE-coated	Ident. No. 4495700	IKAFLON® 60 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4495800	60 x 20 mm
IKAFLON® 70 ellipse PTFE-coated	Ident. No. 4495900	IKAFLON® 70 Set (5 Pcs) ellipse PTFE-coated	Ident. No. 4496000	70 x 20 mm
IKAFLON® 10 cross PTFE-coated	Ident. No. 4496100	IKAFLON® 10 Set (5 Pcs) cross PTFE-coated	Ident. No. 4496200	10 x 10 mm
IKAFLON® 20 cross PTFE-coated	Ident. No. 4496300	IKAFLON® 20 Set (5 Pcs) cross PTFE-coated	Ident. No. 4496400	20 x 20 mm
IKAFLON® 25 cross PTFE-coated	Ident. No. 4496500	IKAFLON® 25 Set (5 Pcs) cross PTFE-coated	Ident. No. 4496600	25 x 25 mm
IKAFLON® 30 cross PTFE-coated	Ident. No. 4496700	IKAFLON® 30 Set (5 Pcs) cross PTFE-coated	Ident. No. 4496800	30 x 30 mm
IKAFLON® 38 cross PTFE-coated	Ident. No. 4496900	IKAFLON® 38 Set (5 Pcs) cross PTFE-coated	Ident. No. 4497000	38 x 38 mm

* Package unit consists of 5 pieces, except for beaker line 1 piece

Individual		Packages		Dimensions (L x Ø)
				(length x Rod Ø x Disc Ø)
IKAFLON® 37 bone PTFE-coated	Ident. No. 4497100	IKAFLON® 37 Set (5 Pcs) bone PTFE-coated	Ident. No. 4497200	37 x 8 x 20 mm
IKAFLON® 54 bone PTFE-coated	Ident. No. 4497300	IKAFLON® 54 Set (5 Pcs) bone PTFE-coated	Ident. No. 4497400	54 x 8 x 20 mm
TRIKA® 25 PTFE-coated	Ident. No. 0356600	TRIKA® 25 Set (5 Pcs) PTFE-coated	Ident. No. 4499300	25 x 8 mm
TRIKA® 40 PTFE-coated	Ident. No. 0356500	TRIKA® 40 Set (5 Pcs) PTFE-coated	Ident. No. 4499400	40 x 8 mm
TRIKA® 55 PTFE-coated	Ident. No. 0356400	TRIKA® 55 Set (5 Pcs) PTFE-coated	Ident. No. 4499500	55 x 14 mm
TRIKA® 80 PTFE-coated	Ident. No. 0356300	TRIKA® 80 Set (5 Pcs) PTFE-coated	Ident. No. 4499600	80 x 18 mm
				(Ø x Height in mm, for beaker)
IKAFLON® 67 beaker PTFE-coated	Ident. No. 4497500	IKAFLON® 67 Set (1 Pc) beaker PTFE-coated	Ident. No. 4497600	67 x 21 mm with 50 x 8
IKAFLON® 74 beaker PTFE-coated	Ident. No. 4497700	IKAFLON® 74 Set (1 Pc) beaker PTFE-coated	Ident. No. 4497800	74 x 29 mm with 60 x 9
IKAFLON® 103 beaker PTFE-coated	Ident. No. 4497900	IKAFLON® 103 Set (1 Pc) beaker PTFE-coated	Ident. No. 4498000	103 x 32 mm with 80 x 10
IKAFLON® 125 beaker PTFE-coated	Ident. No. 4498100	IKAFLON® 125 Set (1 Pc) beaker PTFE-coated	Ident. No. 4498200	125 x 48 mm with 106 x 25
				(Ø x Height in mm)
IKAFLON® 9 crown PTFE-coated	Ident. No. 4498300	IKAFLON® 9 Set (5 Pcs) crown PTFE-coated	Ident. No. 4498400	9 x 6 mm
IKAFLON® 10 crown PTFE-coated	Ident. No. 4498500	IKAFLON® 9 Set (5 Pcs) crown PTFE-coated	Ident. No. 4498600	10 x 6 mm
IKAFLON® 20 crown PTFE-coated	Ident. No. 4498700	IKAFLON® 9 Set (5 Pcs) crown PTFE-coated	Ident. No. 4498800	20 x 10 mm
IKAFLON® 30 crown PTFE-coated	Ident. No. 4498900	IKAFLON® 9 Set (5 Pcs) crown PTFE-coated	Ident. No. 4499000	30 x 12 mm

* Package unit consists of 5 pieces, except for beaker line 1 piece

RS 1 Set of magnetic stirring bars
 Consisting of the IKAFLON® and TRIKA® Magnetic stirring bars. Ident. No. 1358600

RSE Stirring bar remover
 For all stirring bars up to 80 mm in length, PTFE-coated. Ident. No. 1293100



RS 2 Set of magnetic stirring bars

RS 2				Ident. No. 4499100
IKAFLON® 40	40 x 8 mm	round PTFE-coated		Ident. No. 1572500
IKAFLON® glass 40	40 x 8 mm	round		Ident. No. 4492500
IKAFLON® 30	30 x 12 mm	power, SmSo PTFE-coated		Ident. No. 4493100
IKAFLON® 40	40 x 8 mm	slide round PTFE-coated		Ident. No. 4494100
IKAFLON® 40	40 x 20 mm	ellipse PTFE-coated		Ident. No. 4495300
TRIKA® 40	40 x 8 mm	TRIKA®		Ident. No. 0356500
IKAFLON® 25	25 x 25 mm	cross PTFE-coated		Ident. No. 4496500
IKAFLON® 25	20 x 10 mm	crown		Ident. No. 4498700
IKAFLON® 25	37 x 8 x 20 mm	bone PTFE-coated		Ident. No. 4497100



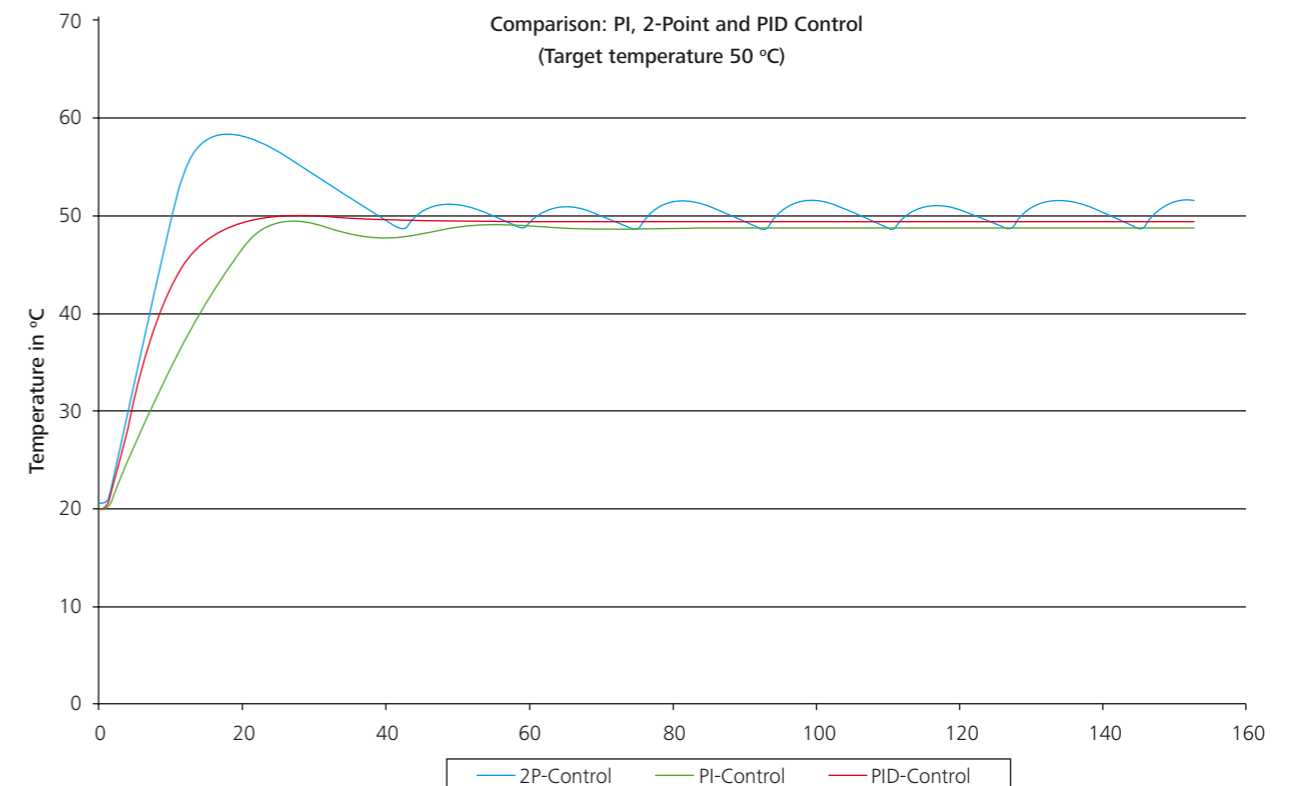
Excellent temperature control is a critical factor in heating operations to effectively address rheological changes in samples. The ETS-D5 can be attached to all IKA® magnetic stirring and heating devices with DIN bushing 12878 class 2, and also from other providers.

The ETS-D5 is an electronic contact thermometer with 3 operating modes. The electronic thermometer with optimized PID control ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating.

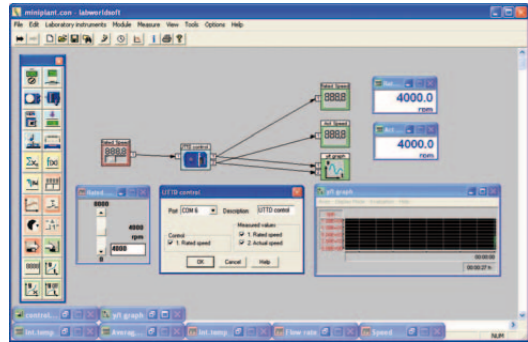
PID control

PID stands for Proportional-Integral-Derivative, referring to the three terms operating on the error signal to produce a control signal. Some applications may require using only one or two actions to provide the appropriate system control. P (Proportional) control can provide a stable process temperature but there will always be a deviation between the required set point and the actual process temperature. I (Integral) control represent the steady state error of the system and will remove set point / measured value errors. For many applications, P + I control will be satisfactory with good stability and at the desired set point. D control is usually used for processes with rapidly changing process outputs.

For example, if you heated up a liquid to a certain set temperature, the liquid no longer gets heated up. If the liquid cools down slowly, the PI control reacts immediately and slightly heats up the liquid. So it appears as though the liquid can hold this temperature without any deviation. In reality, the controller responds to the slightest temperature fluctuations. If you add ice water to this liquid, the temperature changes very quickly. The D control responds to the rapid changes until the desired temperature is reached. Then, the difference of the temperature to be achieved is not too big and the last fine tuning is controlled by the PI control. By tuning P, I and D, a very fast and accurate temperature control can be achieved!



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IKA® laboratory software labworldsoft® is an advanced software for all your laboratory needs. With the help of this software, you can network up to 64 laboratory devices via one PC. All test parameters can be documented ensuring complete automation of your laboratory experiments. Measurements and processes may be run independently. Long waits and processing times are reduced, which increases productivity



Comprehensive Worldwide Service!



Our dedicated team of engineers provides comprehensive worldwide technical service. Please feel free to contact your dealers or IKA® directly in case of any service queries. Hotline: In the event of an equipment malfunction or technical questions regarding devices and spare parts: call 00 8000 4524357 (00 8000 IKAHELP)



IKA® Application Support



Our Application Center spans 400 sqm and offers modern facilities for presenting and testing lab devices and processes. This brings us even closer to our customers and improves our service. Here, prospective buyers and customers can test out processes that involve stirring, shaking, dispersing, grinding, heating, analyzing and distilling. In addition, it also further extends the opportunity to test your own devices and to develop new models.



Can IKA® magnetic stirrers run 24 hrs for several days?
Yes, a maximum ON time is not prescribed.

Is there a minimum, maximum or optimum distance from the stirrer surface to the vessel for magnetic stirrers?
The maximum distance depends on the volume and the viscosity of the corresponding medium. For example, a small amount of water up to 5 cm can be reached. The optimum distance is 0 cm, when the vessel is in contact with the magnetic stirrer surface.

What is the right size for stirring bars being used in common beakers for stirring water or aqueous solutions?
In general, 30 mm stirring bars are suitable for most applications.

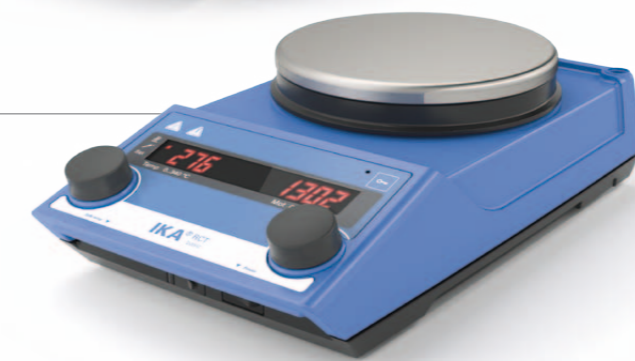
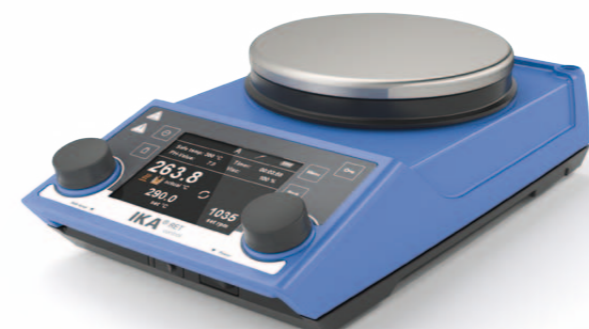
How can IKA® stirring bars be sterilized?
IKA® magnetic stirring bars are PTFE (Teflon) coated and can be sterilized in many ways: e.g. autoclaving or treatment with alcohol or fungicide is possible.

Is there a maximum load prescribed for IKA® magnetic stirrers?
The magnetic stirrer carries definitely the maximum volume of water plus the weight of a common vessel. E.g., the RCT carries 20 kg water plus a 20 liter vessel (about 5 – 10 kg), altogether about 25 – 30 kg!

What is the maximum viscosity that can be operated with an IKA® magnetic stirrer?
A magnetic stirrer is constructed for working with aqueous solutions or low viscous medium up to 100 mPas.

Is there a recommended speed for magnetic stirrers?
To reach a steady mixture, the speed should not be too slow. The most common applications require speed ranging from 400 to 800 rpm.

What are the required environmental conditions for the operation of an IKA® magnetic stirrer?
The relative humidity should not exceed 80%. The ambient temperature should be within + 5 °C and + 40 °C.



IKA+

Application Support!

For questions regarding applications and processes, you can call our hotline number:
00 8000 4522777 (00 8000 IKAAPPS)*
E-Mail: applicationsupport@ika.de

* Monday – Thursday from 8:30 - 16:30
Friday from 8:30 - 15:30

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201206_magnetic_Stirrers_Brochure_EN

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