

IKA®

RET® control-visc

The Magnetic Stirrer for Scientists

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Ph.D.

Recipient of MacArthur
Genius Grant



Baran
uses IKA®
equipment



designed
to work perfectly



RET® control-visc | Safety. Power. Intelligence.

The RET® control-visc is the safest, strongest and most intelligent magnetic stirrer in its class.

The RET® control-visc is a magnetic stirrer whose remarkable technical functions have been developed for demanding applications. The unit mainly focuses on three core competences:

1. Safety.
2. Power.
3. Intelligence.

This is made possible by

- > using high performance electronic components,
- > intelligent heating technology,
- > a motor designed specifically for a variety of applications (including high-viscous fluids) and
- > high quality standards applied during the production process.

Insulated composite heating plate

With the unique structure of the composite heating plate, the RET® control-visc minimizes the loss through eddy currents when heating and stirring. The integrated high-tech insulation optimizes the heat transfer into the medium by minimizing thermal losses. The built-in heating foil ensures an even temperature allocation on the heating plate.



RET® control-visc with high-quality stainless-steel heating plate surface

The stainless steel surface of the composite plate enables the most efficient heat transfer to the medium and results in the fastest possible heating of the medium.

RET® control-visc white with ceramic coated heating plate

The RET® control-visc white offers a ceramic coated heating plate. The white surface helps to recognize color changes of fluids in a glass vessel.



Sealed housing
to protect motor and display



An integrated and patented weighing function allows the user to measure weight changes of up to 5,000 g



Torque trend measurement
Viscosity changes in the medium can be measured by using a torque measurement device. The results can be depicted on the display



An RS 232 and USB interface enable connecting the unit to a PC for operating and updating the device



> The RET® control-visc offers excellent safety

The device comes with a coated and sealed housing which protects liquids from entering into the magnetic stirrer. Overheating is prevented by several integrated technical features. In the case of a malfunction, the device shuts down automatically and shows the error code on the TFT display. The integrated safety features also allow for an unsupervised operation of the RET® control-visc.

> Sealed housing



In case of a liquid overflow a built-in drainage protects the electronic components of the device.

- > Liquids cannot get inside the unit
- > Components are safe
- > Isolated drain



Sealed housing to protect motor and display



> Three temperature safety protection features

"Safety Temperature"

is an adjustable temperature safety circuit that prevents from exceeding a specified set temperature. The safety temperature can be adjusted by using a special tool included in the product delivery



"Overheating protection"

Should the internal temperature of the RET® control-visc exceed the permissible temperature that would damage the internal electronic components, the heating power is reduced automatically.



"Set temperature"

can be adjusted easily. It is used to safely heat the medium until the set temperature is reached



> Safe operation

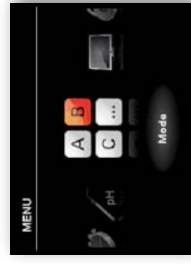
Operating modes

The unit is equipped with three operating modes:

A Mode: regular operation, all values can be directly changed

B Mode: all settings are stored when the device is switched off or loses power, functions are restored when the unit is powered ON again.

C Mode: If operating in C-Mode the set values are not changeable. When restarting the device these values are still fixed. In order to change the parameters, the software mode has to be changed to A or B through the display menu.



Password protection

Menu access can be password protected. If enabled, users cannot change any settings without password.

Adjustable limits

Limits can be set for speed and temperature. It is possible to set a minimum value for each parameter.

Lock button protects set parameters

YOUR BENEFITS

Coated and sealed housing

- > Liquids can not get inside the unit
- > Components are safe
- > Isolated drain
- > Protection class IP42

C Mode advantages

- > Protected against changes to set values
- > Values are still fixed after restarting the device, suitable for serial testing
- > Automated restart after power outage to operating mode and set values

Three temperature safety protection features

- > Highest possible safety especially when working with easily flammable liquids
- > Manually adjustable safety circuit
- > Overheating protection for electronic components





> RET® control-visc is the strongest magnetic stirrer in its class

Three components provide for an extraordinarily powerful magnetic stirrer:

1. high performance EC motor with 12W output
2. high performance internal transformer providing efficient power
3. composite heating plate with minimal eddy current losses

The unique structure of the insulated heating plate results in faster heating than other magnetic stirrers.

> **Stirring performance**
Powerful EC motor with high performance internal transformer



Compact and closed composite heating plate, combined with an advanced heating foil and engineered insulation, ensures an even temperature distribution on the heating plate.



YOUR BENEFITS

- Highly powerful and energy efficient**
- > High stirring speed stability
 - > Fast heating times
 - > High temperature stability
- Motor/transformator/composite heating plate = high performance of stirring and heating**
- > Engineered heating plate: insulation
 - > Optimized heating through intelligent product design

> **Heating performance**
powerful and efficient heat transfer into the sample

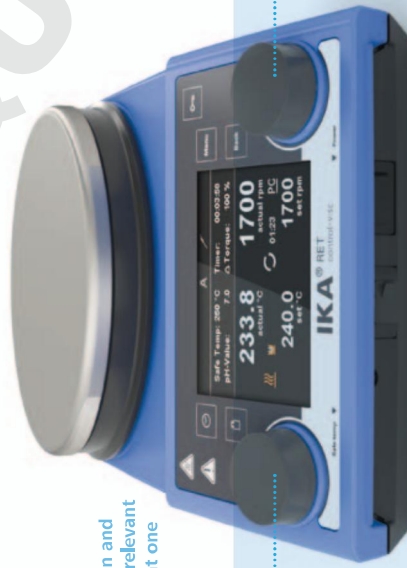
Heating rate
7 K/min for 1l H₂O at 600 W

> Easy operation with user-friendly display

The RET® control-visc continues the user-friendly tradition of operating the unit with two rotating knobs. They enable the easy and direct change of the most important parameters on the display menu.

The high-resolution display has easy to understand icons that allow for simple navigation through the menu, as well as allow for adjusting display settings, using the weighing or torque/trend measurement functions, or changing the display language.

Easy operation and display of all relevant information at one glance



Set temperature

Set speed

Lock function Operating mode Temperature probe connected



Shows safety temperature and up to three user-defined parameters

Actual heating plate or probe temperature

Heating activated

Actual speed

Motor Status

Set temperature

Set speed

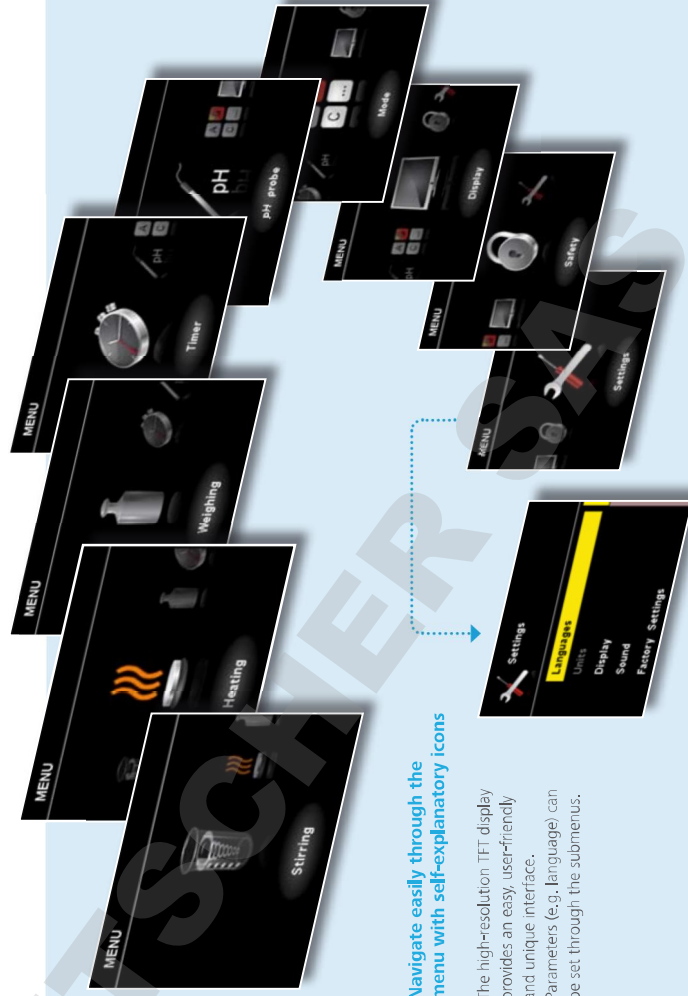
> IKA® Magnetic Stirrer with Scientists

The Scripps Research Institute (TSRI) is a nonprofit, research institution whose philosophy emphasizes the creation of basic knowledge in the biosciences for its application in medicine, the pursuit of fundamental scientific advances through inter-disciplinary programs and collaborations, and the education and training of researchers preparing to meet the scientific challenges of the future.



For more information on The Scripps Research Institute, see: www.scripps.edu

For more information on Phil S. Baran and the Baran Laboratory, see: www.scripps.edu/baran



Navigate easily through the menu with self-explanatory icons

The high-resolution TFT display provides an easy, user-friendly and unique interface. Parameters (e.g. language) can be set through the submenus.



> Advanced technology

Integrated ARM-based microcontroller

The RET® control-visc uses technology which is used in smart phones or tablets. Two integrated ARM-based microcontroller along with a graphic controller are the base for all intelligent functions within the RET® control-visc. They provide for speed, energy efficiency and powerful performance. When selecting components, the IKA® engineers focus on quality, safety and reliability.



The heart of the RET® control-visc is the ARM-based microcontroller which is also used in smart phones and tablets. The use of the ARM-based microcontroller technology provides the intelligence of simple navigation, firmware update possibility, weighing and torque trend measurement.

> Intelligent features



Integrated and patented weighing function

Perform simple weighing tasks without taking the sample off the device.

Measure weight changes of up to 5,000g tolerance
 $\leq 500\text{ g}$: $\pm 1\text{g}</math>
 $> 500\text{ g}</math> : $\pm 5\text{g}</math>$$$



Torque trend measurement

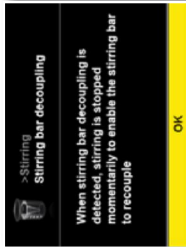
Relative viscosity changes can be measured with this feature by using a torque trend measurement device. Results can be depicted on the display. Useful for long term studies, test results can be documented through labworldsoft®. Reproducibility with max. deviation of $\pm 1\%$.

Unique torque trend measurement



Stirring bar decoupling detection

The stirring function stops briefly when a decoupling occurs. It will automatically resume to the previously set speed when the stir bar is recoupled. Useful for long-term studies and when working with non-transparent fluids.



Firmware update tool



Firmware update tool

- > Keep your device up-to-date
- > Software upgrade features



Interface

The RET® control-visc has an RS232 and USB interface, connect the unit to a PC for controlling and updating the device

The RET® control-visc has various interfaces: USB, RS 232 and Bluetooth

YOUR BENEFITS

Intelligent solutions

- > User-friendly operation
- > Simple navigation and easy operation
- > Multilingual task menu
- > User-defined display settings
- > Integrated patented weighing function
- > Unique torque trend measurement
- > Stirring bar decoupling detection
- > Firmware update tool
- > labworldsoft® compatible



Integrated features

Safety



- > **Sealed housing**
The housing is sealed to protect electronic components inside the device. Protection class IP 42.
- > **Three temperature safety protection features**
Set temperature for sample heating, adjustable safety circuit to avoid overheating of the heating plate, and overheating protection of internal components.

- > **Three different operating modes**
A Mode for regular operation, B Mode maintains preset parameters by the user from last operation when unit is powered on, C Mode for automatic restart after power outage to resume operation at preset settings.
- > **Adjustable limits**
Limits can be set for speed and temperature. It is possible to set a minimum and/or maximum value for each parameter.
- > **Password protection**
Menu access can be password protected. If enabled, users cannot change any settings without password.
- > **Lock function**
"Key" lock to prevent changes of set values.

Power



- > **Outstanding motor performance**
Enables more stirring power (motor rating output: RH basic = 2 W, RCT basic = 9 W, RET[®] control[®]-visc = 12 W)

- > **High-efficient motor power**
More stirring power through high-efficient motor.

- > **Heating plate with white ceramic coating**
Allows for excellent chemical resistance.

- > **Three different temperature control modes**
aPID (PID*); slow, but accurate heating of the medium; no overshooting of the temperature
pPID: rapid heating and high control accuracy, minor overshooting is possible
2-pt: faster than aPID, overshooting of sample temperature of up to 10 °C
* PID: a proportional-integral-derivative controller

- > **Innovative heating plate**
Insulated composite heating plate results in efficient heating of the sample with minimal eddy current losses.

- > **Heating plate with stainless steel surface**
Enables quickest and safest heating of the sample.

- > **Temperature control with dual temperature sensor**
Simultaneous control of the temperature of the heating plate and the sample.

Intelligence



- > **Integrated weighing function**
Perform simple weighing tasks without taking the sample off the device.

- > **Torque trend measurement**
Relative viscosity changes can be measured with this feature.

- > **Stirring bar decoupling detection**
The stirring function stops briefly when a decoupling occurs. It will automatically resume to the previously set speed when the stir bar is recoupled.

- > **pH measurement**
Measuring pH values is possible with pH sensors (BNC-connector), available through IKA[®] or other manufacturers.

- > **Labworldsoft[®]**
Specifically designed and developed by IKA[®], this software allows for the RET[®] control[®]-visc and other lab equipment from other manufacturers to be operated. For more information, please go to <http://www.ika.com>.

- > **Software update**
Keep your device software up-to-date with the integrated firmware update function. You can update through the USB interface of the stirrer and your PC.

- > **High-resolution TFT display**
Lets the user see all relevant data clearly and simultaneously.

- > **Multilingual menu**
The user can change the display language; there are 9 languages to choose from.

- > **Display view**
Can be modified by the user, certain values can be shown or hidden.

- > **Error code display**
When an error occurs, the code is shown on the display. Please refer to the manual for further details.

- > **Reset**
The device can be reset to factory defaults.

- > **Timer function**
Stop the heating process automatically after a specified time (max. 99:59:59)

- > **"HOT" warning**
When the device is off and the heating plate is hot, the display shows the warning "HOT" and the current heating plate temperature. The display turns off completely when the temperature of the heating plate drops below 50 °C.

- > **Interval mode**
The stirring function can be programmed to stop and automatically restart in intervals adjustable by the user.

- > **Sensor calibration**
Temperature and pH sensors can be calibrated through the RET[®] control[®]-visc against a known calibrated source (i. e. temperature device and pH buffer solution respectively).

Technical data

RET® control- <i>visc</i> RET® control- <i>visc</i> white replaces RET control- <i>visc</i> and RET control	
Max. stirring quantity (H ₂ O)	20 l
Motor rating input / output	22 / 12 W
Speed range	50 – 1700 rpm
Heat output	600 W
Temperature range	RT – 340 °C
Adjustable safety circuit	50 – 380 °C
Control accuracy with sensor	PT 100 ± 0.2 K
Heating plate material	stainless steel 4301 white ceramic
Heating 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
Price	1.043,- EUR 1.066,- EUR
Ident. No.	0005020000 0005030000

Protection class according to DIN EN 60529

3 Year warranty*
CE

Protection class according to DIN EN 60529: IP 42

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



- The RET® control-*visc* comes with the following accessories
- 1 PT 100.70 temperature sensor
temperature sensor, stainless steel
 - 2 Safety circuit tool
tool to adjust safety circuit
 - 3 H 104 protective cover (transparent)
Cover for RET® control-*visc*
 - 4 Magnetic stirring bars
IKAFLON® 30 round PTFE-coated
IKAFLON® 40 round PTFE-coated
 - 5 USB Cable
 - 6 Power plug H 11
Mains cable, plug depending on region

Overview IKA® magnetic stirrers

IKA® offers a wide range of magnetic stirrers. Compare the following IKA® hotplate stirrers to help you find the most suitable unit for your application.

Technical data	RH basic 2	RH basic	RH digital
Display			LED
Max. heating plate temperature	320°C	320°C	320°C
Heat output	400 W	600 W	600 W
Max. stirring quantity (H ₂ O)	10 l	15 l	15 l
Heating plate material	stainless steel	stainless steel - composite / white ceramic	stainless steel - composite / white ceramic
Connection for ext. temp. sensor	-	ETS-D x ✓	ETS-D x ✓
Integrated temperature regulation	-	-	-
Control accuracy with integrated temperature regulation	-	-	-
Interface for external control - <i>labware</i> soft	-	-	-
Weighing, torque trend, pH	-	-	-
Firmware update tool	-	-	-
Protection class according to DIN EN 60529	IP 21	IP 21	IP 21

Basic stirring and heating functionality.

Basic stirring and heating functionality with composite heating plate in stainless steel or white ceramic coated. External temperature control possible by connecting a contact thermometer (only ETS-D series).

Basic stirring and heating functionality with full-ceramic square plate to achieve higher temperatures. External temperature control is possible by connecting a contact thermometer with precise control accuracy (ETS-D series). Digital LED display for set and actual heating plate temperature.

IKA+
Please visit www.ika.com for more information on IKA's magnetic stirrers and accessories

Technical data	C-MAG 7	C-MAG 7 digital	RCT basic	RET® basic	RET® control- <i>visc</i>
LED / Scale	500°C	LCD / Scale	LED	LED	high-res TFT
Max. heating plate temperature	500°C	500°C	310°C	340°C	340°C
Heat output	1000 W	1000 W	600 W	600 W	600 W
Max. stirring quantity (H ₂ O)	15 l	15 l	20 l	20 l	20 l
Heating plate material	white ceramic	white ceramic	aluminum alloy	stainless steel - composite	stainless steel - composite / white ceramic
Connection for ext. temp. sensor	ETS-D x ✓	PT 1000 ✓	PT 1000 ✓	PT 1000 ✓	PT 1000 ✓
Integrated temperature regulation	-	precise ✓	yes ✓	yes ✓	high-precision ✓
Control accuracy with integrated temperature regulation	-	+/- 0.5 K	+/- 1 K	+/- 1 K	+/- 0.2 K
Interface for external control - <i>labware</i> soft	-	-	-	-	RS 232 / USB
Weighing, torque trend, pH	-	-	-	-	yes ✓
Firmware update tool	-	-	-	-	yes ✓
Protection class according to DIN EN 60529	IP 21	IP 21	IP 42	IP 42	IP 42

Basic stirring and heating functionality with full-ceramic square plate to achieve higher temperatures. External temperature control is possible by connecting a contact thermometer with precise control accuracy (ETS-D series). Digital LED display for set and actual heating plate temperature.

Basic stirring and heating functionality with full-ceramic square plate to realize higher temperatures. External temperature control is possible by connecting the included temperature sensor (PT 1000). Digital LED display for speed and temperature.

Extended stirring and heating performance with aluminum alloy heating plate. External temperature control is possible by connecting the included temperature sensor (PT 1000). Digital LED display for speed and temperature.

Optimized stirring and extended heating performance with composite stainless steel heating plate. External temperature control is possible by connecting the included temperature sensor. Digital LED display for speed and temperature.

Optimized stirring and heating performance with composite heating plate in stainless steel or white ceramic coated. External temperature control is possible by connecting the included temperature sensor (PT 1000). The unit is capable of high-precision temperature control (+/- 0.2 K). High-resolution TFT display enables easy operation.



Accessories



Sensors		Price
1	PT 1000.50* Temperature sensor, dual, stainless steel, Ø 3 mm, 230 mm length	201,- EUR
2	PT 1000.51* Temperature sensor, dual, stainless steel, glass-coated, Ø 3 mm	233,- EUR
	PT 1000.53* Temperature sensor, dual, coated with SateCoat, 230 mm length	243,- EUR
	PT 100.50 Temperature sensor, stainless steel, Ø 3 mm, 230 mm length	169,- EUR
3	PT 100.51* Temperature sensor, stainless steel, glass-coated, Ø 8 mm, 230 mm length	201,- EUR
	PT 100.53 Temperature sensor, stainless steel, coated with SateCoat, Ø 3 mm, 230 mm length	206,- EUR

on request
pH 5000.1
pH sensor, pH Ø-14, BNC connector, 1 m cable

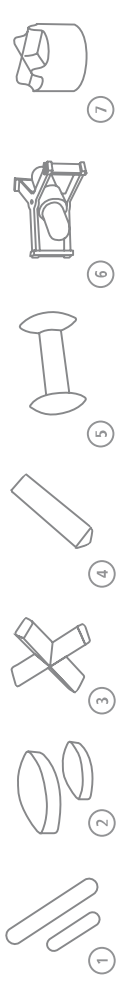


Stainless steel vessels		Price
1	H 1000 Beaker, stainless steel, 1 l, inner Ø 160 mm, 79 mm height	274,- EUR
2	H 1500 Beaker, stainless steel, 1.5 l, inner Ø 140 mm, 160 mm height	265,- EUR
3	H 3000 Beaker, stainless steel, 3 l, inner Ø 180 mm, 119 mm height	266,- EUR
4	H 5000 Beaker, stainless steel, 5 l, inner Ø 220 mm, 142 mm height	329,- EUR
5	H 8000 Beaker, stainless steel, 8 l, inner Ø 265 mm, 162 mm height	503,- EUR

* Only available for RET® control-visc



Synthesis blocks		Price
Dry heating block square series		
1	H 135.10 Square carrier without handle	99.50 EUR
	H 135.101 Block 16 x 4 ml	37,- EUR
	H 135.102 Block 16 x 8 ml	40.50 EUR
	H 135.103 Block 9 x 16 ml	40.50 EUR
	H 135.104 Block 4 x 20 ml	34.50 EUR
	H 135.105 Block 4 x 30 ml	40.50 EUR
	H 135.106 Block 4 x 40 ml	45,- EUR
	H 135.107 Block 100 ml	36,- EUR
	H 135.108 Block 250 ml	42.50 EUR
100 ml Flask heating block series		
	H 135.200 Flask carrier 100 ml without handle	87,- EUR
	H 135.201 Flask inlay 10 ml	20.50 EUR
	H 135.202 Flask inlay 25 ml	20.50 EUR
	H 135.203 Flask inlay 50 ml	20.50 EUR
500 ml Flask heating block series		
	H 135.300 Flask carrier 500 ml without handle	99.50 EUR
	H 135.301 Flask inlay 100 ml	46.50 EUR
	H 135.302 Flask inlay 250 ml	47.50 EUR
1000 ml Flask heating block series		
	H 135.400 Flask carrier 1000 ml without handle	144,- EUR
	H 135.401 Flask inlay 500 ml	81.50 EUR
2000 ml Flask heating block series		
	H 135.500 Flask carrier 2000 ml without handle	178,- EUR
	H 135.501 Flask inlay 1000 ml	119,- EUR
3000 ml Flask heating block series		
	H 135.600 Flask carrier 3000 ml without handle	258,- EUR
	H 135.601 Flask inlay 2000 ml	189,- EUR
5000 ml Flask heating block series		
	H 135.700 Flask carrier 5000 ml without handle	389,- EUR
	H 135.701 Flask inlay 3000 ml	331,- EUR



Stirring bars		Price
IKAFLON® round		
1	IKATON® 10 Set (5 Pcs) round PTFE-coated	6,40 EUR
	IKATON® 15 Set (5 Pcs) round PTFE-coated	6,40 EUR
	IKATON® 20 Set (5 Pcs) round PTFE-coated	7,70 EUR
	IKATON® 25 Set (5 Pcs) round PTFE-coated	8,10 EUR
	IKATON® 30 Set (5 Pcs) round PTFE-coated	9,80 EUR
	IKATON® 40 Set (5 Pcs) round PTFE-coated	11,70 EUR
	IKATON® 50 Set (5 Pcs) round PTFE-coated	28,- EUR
	IKATON® glass 25 Set (5 Pcs) round	11,40 EUR
	IKATON® glass 30 Set (5 Pcs) round	11,90 EUR
	IKATON® glass 40 Set (5 Pcs) round	13,- EUR
	IKATON® glass 50 Set (5 Pcs) round	14,- EUR
	IKATON® 15 Set (5 Pcs) power Sn50 PTFE-coated	18,60 EUR
	IKATON® 20 Set (5 Pcs) power Sn50 PTFE-coated	28,- EUR
	IKATON® 30 Set (5 Pcs) power Sn50 PTFE-coated	34,- EUR
IKAFLON® slide round		
1	IKARON® 25 Set (5 Pcs) slide round PTFE-coated	8,- EUR
	IKARON® 30 Set (5 Pcs) slide round PTFE-coated	8,60 EUR
	IKARON® 40 Set (5 Pcs) slide round PTFE-coated	14,40 EUR
	IKARON® 50 Set (5 Pcs) slide round PTFE-coated	16,60 EUR
IKAFLON® ellipse		
2	IKARON® 20 Set (5 Pcs) ellipse PTFE-coated	12,70 EUR
	IKARON® 25 Set (5 Pcs) ellipse PTFE-coated	13,90 EUR
	IKARON® 30 Set (5 Pcs) ellipse PTFE-coated	18,30 EUR
	IKARON® 35 Set (5 Pcs) ellipse PTFE-coated	23,50 EUR
	IKARON® 40 Set (5 Pcs) ellipse PTFE-coated	29,50 EUR
	IKARON® 50 Set (5 Pcs) ellipse PTFE-coated	41,50 EUR
	IKARON® 60 Set (5 Pcs) ellipse PTFE-coated	60,50 EUR
	IKARON® 70 Set (5 Pcs) ellipse PTFE-coated	73,- EUR
IKAFLON® cross		
3	IKARON® 10 Set (5 Pcs) cross PTFE-coated	10,90 EUR
	IKARON® 20 Set (5 Pcs) cross PTFE-coated	13,90 EUR
	IKARON® 25 Set (5 Pcs) cross PTFE-coated	15,90 EUR
	IKARON® 30 Set (5 Pcs) cross PTFE-coated	20,50 EUR
	IKARON® 38 Set (5 Pcs) cross PTFE-coated	25,50 EUR
IKAFLON® bone		
4	IKARON® 37 Set (5 Pcs) bone PTFE-coated	37,50 EUR
	IKARON® 54 Set (5 Pcs) bone PTFE-coated	45,- EUR
TRIKA®		
5	TRIKA® 25 Set (5 Pcs) PTFE-coated	8,70 EUR
	TRIKA® 40 Set (5 Pcs) PTFE-coated	13,50 EUR
	TRIKA® 55 Set (5 Pcs) PTFE-coated	21,50 EUR
	TRIKA® 80 Set (5 Pcs) PTFE-coated	30,- EUR
IKAFLON® beaker		
6	IKARON® 67 beaker PTFE-coated	208,- EUR
	IKARON® 74 beaker PTFE-coated	215,- EUR
	IKARON® 103 beaker PTFE-coated	310,- EUR
	IKARON® 125 beaker PTFE-coated	396,- EUR
IKAFLON® crown		
7	IKARON® 9 Set (5 Pcs) crown PTFE-coated	9,- EUR

Other accessories		Price
1	H 16 V Support rod, Ø 10 mm, 450 mm length	47,50 EUR
2	H 16.1 Extension for support rod	12,80 EUR
3	H 44 Boss head clamp	21,- EUR
4	H 38 Holding rod	21,- EUR

YOUR BENEFITS

Dual sensors (PT 1000.50, PT 1000.51, PT 1000.53) can be connected

- > Precise temperature control
- > Safe handling of highly temperature sensitive fluids

IKA stainless steel vessels ensure:

- > Optimized heat transfer
- > Outstanding magnetic adhesion and
- > Fits securely on the heating plate

IKA® offers more

**Modern
manufactu-
ring**

**Application
Support**

**Worldwide
service
network**

**Customizing
Center**

Modern manufacturing

During manufacturing, IKA® focuses on high quality, not only with well-trained and experienced personnel, but also with standardized processes and quality checks.

The assembly of the printed circuit boards is fully automated and includes an automated 100% quality control check of every PCB.



Customizing Center

It is important that IKA products work for your application. We are introducing a new program: product solutions tailored to your needs.

Should you not find the appropriate device in our standard product range, please send us your requested specifications through the online form. Our team will determine its feasibility and offer a solution to you.

Please visit www.ika.com/customizingcenter to review already implemented product modifications.

Worldwide service network – direct contact in your region

Our dedicated team of engineers provides comprehensive worldwide technical service. Please feel free to contact IKA® directly or your dealer in case of any service questions.

For spare parts IKA® guarantees 10 years of availability. In the event of an equipment malfunction or technical questions regarding devices, maintenance and spare parts, please call us at 00 8000 4524357 (00 8000 IKAHELP) or send an email to service@ika.com



IKA® Application Support

Our Application Center spans 400sqm 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 processes that involve stirring, shaking, dispersing, grinding, heating, analyzing and distilling.

Call us at 00 8000 4527777 (00 8000 IKAAPPS) or send an email to applicationsupport@ika.com or visit our website at www.ika.com/applicationsupport

Prices valid until December 31st, 2014
Subject to technical changes and
alteration of prices

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your order, please visit:

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Safety
Power
Intelligence



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IKA® German technology

