RET[®] control-visc



The Magnetic Stirrer for Scientists



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.







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









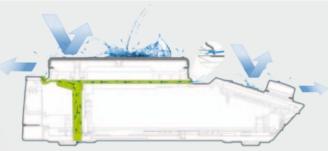
RET® control-visc | Safety

> 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



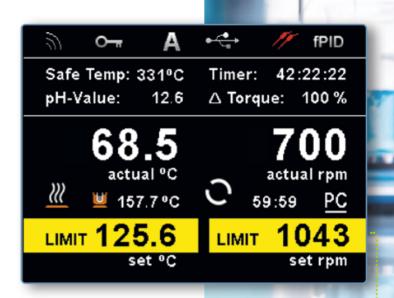


can be adjusted easily.

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.

"Overheating protection"





> 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

Three temperature safety protection features

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

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



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



Heating rate

Heating surface

Compression plate

Heating foil

Insulation

7 K/min for 1l H₂O at 600 W



intelligent product design

RET® control-visc | Intelligence

> 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

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.



> IKA® Magnetic Stirrer with Scientists

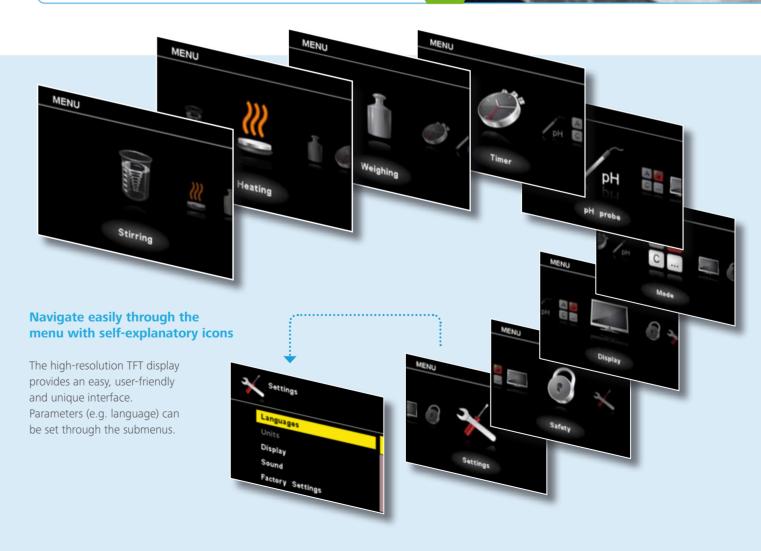
The Scripps Research Institute (TSRI) is a nonprofit research institution whose philosophy emphasizes the creation of basic knowledge in the biosciences for its application in medicine, the pursuit of fundamental scientific advances through inter-disciplinary programs and collaborations, and the education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







RET® control-visc | Intelligence Patented

The heart of the RET® control-visc is the ARMbased 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 possibilty, weighing and torque trend measurement.

> Intelligent features



Integrated and patented weighing function

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



tolerance

Measure weight changes of up to 5,000g

<500 g:+/-1g

>500 g:+/-5g

Torque trend measurement

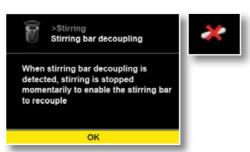
Relative viscosity changes can be measured with this feature by using a torque trend measurement device. Results can be depicted on the display. Useful for long term studies, test results can be documented through labworldsoft®. Reproducibility with max. deviation of +/-1%.

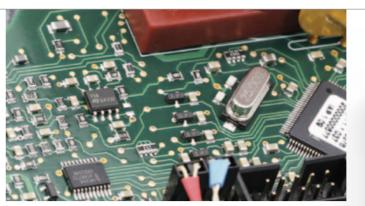


Stirring bar decoupling detection

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.







> 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.

Firmware update tool

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

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



Firmware update tool



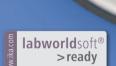
The RET® control-visc has an RS232 and USB interface, connect the unit to a PC for controlling and updating the device

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YOUR BENEFITS

Intelligent solutions

- > User-friendly
- > 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









> Sealed housing

The housing is sealed to protect electronic components inside the device. Protection class IP 42.

> Three different operating

A Mode for regular operation,

parameters by the user from last

operation when unit is powered

after power outage to resume

Menu access can be password

"Key" lock to prevent changes

protected. If enabled, users

cannot change any settings without password.

operation at preset settings.

> Password protection

> Lock function

of set values.

on, C Mode for automatic restart

B Mode maintains preset

modes

> 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.

> Outstanding motor performance

enables more stirring power (motor rating output: RH basic = 2 W, RCT basic = 9 W, RET® control-visc = 12 W)

> Innovative heating plate

Insulated composite heating plate results in efficient heating of the sample with minimal eddy current

Safety temperature has to be confirmed when starting the device (this confirmation function is optional and can be turned off through the task menu).

> Adjustable limits

confirmation

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

> Optional safety-temperature > 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 fPID: 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- integralderivative controller

> 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.

> Torque trend measurement

> Integrated weighing function

the sample off the device.

Perform simple weighing tasks without taking

Intelligence

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.

> Multilingual menu

The user can change the display language, there are 9 languages to choose from.

> High-resolution TFT display

clearly and simultaneously.

Lets the user see all relevant data

> 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.

> Bluetooth interface

Integrated Bluetooth interface (to use with labworldsoft® and PC connection)

> "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. tempereature device and pH buffer solution respectively).

> Timer function

Stop the heating process automatically after a specified time (max. 99:59:59)

Technical data

_	
	RET® control-visc RET® control-visc white
Technical data	replaces RET control-visc and RET control/t
Max. stirring quantity (H ₂ 0)	20
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 1.4301 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

1.043,- EUR | 1.066,- EUR

Ident. No. 0005020000 | 0005030000

Protection class according to DIN EN 60529

Price



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

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.





www.ika.com/register, glassware and



to DIN EN 60529: IP 42

	RH basic 2	RH basic	RH digital
Technical data			
Display	Scale	Scale	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 > labworldsoft	_	_	-
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.

IKA°+

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

RH basic	RH digital
Scale	LED
320°C	320°C
600 W	600 W
15 l	15 l
stainless steel - composite / white ceramic	stainless steel - composite / white ceramic
ETS-D x 🗸	ETS-D x 🗸
_	_
 IP 21	IP 21

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 composite heating plate in stainless steel or white ceramic coated. External temperature control is possible by connecting a contact thermometer (only ETS-D series). Digital LED display for speed and temperature.



Basic stirring and heating









C-MAG HS 7	C-MAG 7 digital	RCT basic	RET® basic	RET® control- visc
LED / Scale	LCD/ Scale	LED	LED	high-res TFT
500°C	500°C	310°C	340°C	340°C
1000 W	1000 W	600 W	600 W	600 W
15 l	15 l	20	20	20
white ceramic	white ceramic	aluminum alloy	stainless steel - composite	stainless steel - composite / white ceramic
ETS-D x 🗸	PT 1000 🗸	PT 1000 🗸	PT 1000 🗸	PT 100 🗸
_	precise 🗸	yes 🗸	yes 🗸	high- precision 🗸
	+/- 0.5 K	+/- 1 K	+/- 1 K	+/- 0.2 K
_	_	-	_	RS 232/ USB 🗸
_	-	-	-	yes 🗸
_	_	_	_	yes 🗸
IP 21	IP 21	IP 42	IP 42	IP 42

functionality with full-ceramic functionality with full-ceramic square plate to achieve square plate to realize higher higher temperatures. External temperatures. External temperature control is possible temperature control is possible by connecting a contact therby connecting the included mometer with precise control temperature sensor (PT 1000) accuracy (ETS-D series). Digital to have precise temperature LED display for heating plate control accuracy of up to +/- 0.5K. Digital LCD display temperature. for set and actual heating plate

temperature.

Basic stirring and heating 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 (+/- 0.2K). High-resolution TFT display enables easy operation.

Accessories



		Ident. No.		Price
(1)	PT 1000.50*	0003367600	-	201,- EUR
$\overline{}$	Temperature sensor, dual,	stainless steel, Ø	3 mm, 230	mm length

(2) PT 1000.51* 0003377700 233,- EUR Temperature sensor, dual, stainless steel, glass-coated, Ø 3 mm

PT 1000.53* 0004499800 243,- EUR Temperature sensor, dual, coated with SafeCoat, 230 mm length

PT 100.50 169,- EUR 0002601900 Temperature sensor, stainless steel, d. 3 mm, 230 mm length

(3) PT 100.51* 0002600300 201,- EUR Temperature sensor, stainless steel, glass-coated, Ø 8 mm, 230 mm length

206,- EUR PT 100.53 0004499700

Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm, 230 mm length

pH 5000.1 0020004404 on request pH sensor, pH 0-14, BNC connector, 1 m cable



Stainless ste	Stainless steel vessels			
	Ident. No.	Price		
1) H 1000	0004444401	274,- EUR		
Beaker, stainless st	eel, 1 l, inner Ø 160 mm, 79 r	nm height		
(2) H 1500	0004444501	265,- EUR		
Beaker, stainless st	eel, 1.5 l, inner Ø 140 mm, 16	60 mm height		
3 H 3000	0004444503	266,- EUR		
D1t-:-1t	eel, 3 l, inner Ø 180 mm, 119	mm baiaht		

4	H 5000	0004444505	329,- EUR
	Beaker, stainless steel, 5 l	, inner Ø 220 mm,	142 mm height

(5) H 8000 0004444508 503,- EUR Beaker, stainless steel, 8 l, inner Ø 265 mm, 162 mm height



Dry heating block square series				
	Hole Ø	Dimensions	Ident. No.	Price
H 135.10 Square carrier without handle	-	160 x 160 mm	0025000832	99,50 EUR
H 135.101 Block 16 x 4 ml	15.2 mm	79 x 79 mm	0025000626	37,- EUR
H 135.102 Block 16 x 8 ml	17.5 mm	79 x 79 mm	0025000627	40,50 EUR
H 135.103 Block 9 x 16 ml	20.5 mm	79 x 79 mm	0025000628	40,50 EUR
1 135.104 Block 4 x 20 ml	28.5 mm	79 x 79 mm	0025000629	34,50 EUR
H 135.105 Block 4 x 30 ml	28.5 mm	79 x 79 mm	0025000630	40,50 EUR
H 135.106 Block 4 x 40 ml	28.5 mm	79 x 79 mm	0025000631	45,- EUR
H 135.107 Block 100 ml	-	79 x 79 mm	0025000632	36,- EUR
H 135.108 Block 250 ml	_	79 x 79 mm	0025000633	42.50 EUR

ask heating block series	
	Max. Ou
ask carrier 100 ml without	1 42

Max. Outer Ø	Inner Ø	Ident. No.	Price
142 mm	_	0025000634	87,- EUR
_	33.8 mm	0025000636	20,50 EUR
_	43.8 mm	0025000637	20,50 EUR
_	52.8 mm	0025000638	20,50 EUR
		142 mm – - 33.8 mm - 43.8 mm	142 mm - 0025000634 - 33.8 mm 0025000636 - 43.8 mm 0025000637

500 ml Flask heating block series				
H 135.30 Flask carrier 500 ml without handle	142 mm	-	0025000639	99,50 EUR
H 135.301 Flask inlay 100 ml	-	66.3 mm	0025000641	46,50 EUR
H 135.302 Flask inlay 250 ml	_	88 mm	0025000642	47,50 EUR

1000 ml Flask heating block series	(2)				
H 135.40 Flask carrier 1000 ml without	166.3 mm	_	0025000833	144 - FIIR	
handle				144,- EUN	
H 135.401 Flask inlay 500 ml	_	108 mm	0025000644	81,50 EUR	

(2)

135.50 Flask carrier 2000 ml without andle	194.7 mm	-	0025000834	178,- EUR
135.501 Flask inlay 1000 ml	_	131.8 mm	0025000645	119,- EUR

H 135.60 Flask carrier 3000 ml without handle	218.3 mm	_	0025000835	258,- EUR
H 135.601 Flask inlay 2000 ml	_	162 mm	0025000648	189,- EUR
5000 ml Flask heating block series				
H 135.70 Flask carrier 5000 ml without handle	259.7 mm	-	0025000836	389,- EUR
H 135.701 Flask inlay 3000 ml		194 5 mm		331 - FUR















		3)	4	(3)
Stirring bars				
IKAFLON® round	(1)	Ident. No.	Dimensions (L x Ø)	Price
IKAFLON® 10 Set (5 Pcs) round PTFE-coated		0004488600	10 x 6 mm	6,40 EUR
IKAFLON® 15 Set (5 Pcs) round PTFE-coated	······································	0004488700	15 x 6 mm	6,40 EUR
IKAFLON® 20 Set (5 Pcs) round PTFE-coated	······································	0004488800	20 x 8 mm	6,40 EUR
IKAFLON® 25 Set (5 Pcs) round PTFE-coated		0004488900	25 x 8 mm	9,70 EUR
IKAFLON® 30 Set (5 Pcs) round PTFE-coated		0004489000	30 x 8 mm	8,10 EUR
IKAFLON® 40 Set (5 Pcs) round PTFE-coated		0004489100	40 x 8 mm	9,80 EUR
IKAFLON® 50 Set (5 Pcs) round PTFE-coated	•••••••••••••••••••••••••••••••••••••••	0004489200	50 x 8 mm	11,70 EUR
IKAFLON® 80 Set (5 Pcs) round PTFE-coated	•••••••••••••••••••••••••••••••••••••••	0004489300	80 x 10 mm	28,- EUR
IKAFLON® glass 25 Set (5 Pcs) round		0004492200	25 x 8 mm	11,40 EUR
IKAFLON® glass 30 Set (5 Pcs) round		0004492400	30 x 8 mm	11,90 EUR
IKAFLON® glass 40 Set (5 Pcs) round		0004492600	40 x 8 mm	13,- EUR
IKAFLON® glass 50 Set (5 Pcs) round		0004492800	50 x 8 mm	14,- EUR
IKAFLON® 15 Set (5 Pcs) power SmSo PTFE-co	oated	0004493000	15 x 9 mm	18,60 EUR
IKAFLON® 30 Set (5 Pcs) power SmSo PTFE-co	oated	0004493200	30 x 12 mm	28,- EUR
IKAFLON® 50 Set (5 Pcs) power SmSo PTFE-co		0004493400	50 x 21 mm	34,- EUR
				,
IKAFLON® Slide round				
IKAFLON® 25 Set (5 Pcs) slide round PTFE-co		0004493800	25 x 6 mm	8,- EUR
IKAFLON® 30 Set (5 Pcs) slide round PTFE-co.	ated	0004494000	30 x 6 mm	8,60 EUR
IKAFLON® 40 Set (5 Pcs) slide round PTFE-co.		0004494200	40 x 8 mm	14,40 EUR
IKAFLON® 50 Set (5 Pcs) slide round PTFE-co.	ated	0004494400	50 x 8 mm	16,60 EUR
IKAFLON® ellipse	(2)			
IKAFLON® 20 Set (5 Pcs) ellipse PTFE-coated		0004494600	20 x 10 mm	12,70 EUR
IKAFLON® 25 Set (5 Pcs) ellipse PTFE-coated		0004494800	25 x 12 mm	13,90 EUR
IKAFLON® 30 Set (5 Pcs) ellipse PTFE-coated		0004495000	30 x 15 mm	18,30 EUR
IKAFLON® 35 Set (5 Pcs) ellipse PTFE-coated	······································	0004495200	35 x 15 mm	23,50 EUR
IKAFLON® 40 Set (5 Pcs) ellipse PTFE-coated	-	0004495400	40 x 20 mm	29,50 EUR
IKAFLON® 50 Set (5 Pcs) ellipse PTFE-coated	•	0004495600	50 x 20 mm	41,50 EUR
IKAFLON® 60 Set (5 Pcs) ellipse PTFE-coated		0004495800	64 x 20 mm	60,50 EUR
IKAFLON® 70 Set (5 Pcs) ellipse PTFE-coated		0004496000	70 x 20 mm	73,- EUR
IKAFLON® cross	(3)			
IKAFLON® 10 Set (5 Pcs) cross PTFE-coated		0004496200	10 x 10 mm	10 00 EUD
	······································		20 x 20 mm	10,90 EUR
IKAFLON® 20 Set (5 Pcs) cross PTFE-coated IKAFLON® 25 Set (5 Pcs) cross PTFE-coated		0004496400	25 x 25 mm	13,90 EUR
IKAFLON® 30 Set (5 Pcs) cross PTFE-coated		0004496800	30 x 30 mm	15,90 EUR 20,50 EUR
IKAFLON® 38 Set (5 Pcs) cross PTFE-coated	······································	0004497000	38 x 38 mm	25,50 EUR
INALEON 36 Set (3 FeS) closs FITE coated		0004437000	30 X 30 IIIIII	25,50 LON
IKAFLON® bone	(4)			
IKAFLON® 37 Set (5 Pcs) bone PTFE-coated		0004497200	37 x 8 x 20 mm	37,50 EUR
IKAFLON® 54 Set (5 Pcs) bone PTFE-coated		0004497400	54 x 8 x 20 mm	45,- EUR
TRIKA®	(5)			
TRIKA® 25 Set (5 Pcs) PTFE-coated		0004499300	25 x 8 mm	8,70 EUR
TRIKA® 40 Set (5 Pcs) PTFE-coated	······································	0004499400	35 x 9 mm	13,50 EUR
TRIKA® 55 Set (5 Pcs) PTFE-coated	······································	0004499500	55 x 14 mm	21,50 EUR
TRIKA® 80 Set (5 Pcs) PTFE-coated		0004499600	80 x 18 mm	30,- EUR
, ,	(6)			50, 2011
IKAFLON® beaker	Ü	0004407000	Dimensions (Ø x H)	200 FUD
IKAFLON® 67 beaker PTFE-coated		0004497600	67 x 21 mm	208,- EUR
IKAFLON® 74 beaker PTFE-coated		0004497800	74 x 29 mm	215,- EUR
IKAFLON® 103 beaker PTFE-coated	-	0004498000	103 x 32 mm	310,- EUR
IKAFLON® 125 beaker PTFE-coated		0004498200	125 x 48 mm	396,- EUR
IKAFLON® crown	(7)			
IKAFLON® 9 Set (5 Pcs) crown PTFE-coated		0004498400	9 x 6 mm	9,- EUR



0004022400 Manual scissor lift



Other a	ccessories		
		Ident. No.	Price
H 16 V	(1)	0001545100	47,50 EUR
Support rod	, Ø 10 mm, 45	0 mm length	
H 16.1	2	0005000500	12,80 EUR
Extension fo	or support rod		•
H 44	3	0002437700	21,- EUR
Boss head o	lamp		
H 38	4	0003547700	21,- EUR
Holding rod			

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

* Only available for RET® control-visc





Worldwide service network – direct contact in your region

The assembly of the printed circuit boards is fully

automated and includes an automated 100%

quality control check of every PCB.

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.

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