

IKA®

New Product Overview 2013



designed
to work perfectly

IKA®-Werke GmbH & Co. KG in Staufen, Germany can now look back on a century of history.

The company, which was founded in 1910 as a distributor for pharmacies and hospitals, relocated from bombed-out Cologne to Staufen in 1942. There it quickly became the global market leader for laboratory technology as well as dispersing, stirring, and kneading instruments. Today, IKA® employs over 800 people at eight different locations on four continents.

IKA® laboratory technology offers a vast spectrum of innovative devices for numerous applications in research and development. For mixing, tempering, distilling or crushing, market leaders in varying fields of application rely on IKA®'s innovative and proven technology.

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www.ika.com

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Magnetic Stirrers with heating



The new generation of magnetic stirrers offer many unique features, such as an innovative RET control with patented integrated weighing function. In addition, the RCT basic is equipped with a USB interface. The multi-position magnetic stirrers are now equipped with digital displays and wear free magnetic coil technology.

RH digital

- > Strong magnetic field for volumes up to 15 liters
- > Digital display for precise monitoring of speed and temperature
- > "HOT" sign warning to prevent burns

RET control



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

TFT Display

TFT Display for better image quality and easy navigation



Integrated temperature sensor for precise temperature control



USB interface with the possibility to update the firmware



IKA® Patent!
Weighing function

Available
Q1/2013



Available
Q2/2013



Available
Q2/2013

Technical data	RH basic digital	RCT basic	RET control
Max. stirring quantity (H ₂ O)	15 l	20 l	20 l
Motor rating input / output	15 / 2 W	16 / 9 W	16 / 9 W
Speed range	50 – 2000 rpm	50 – 1500 rpm	50 – 1700 rpm
Heat output	600 W	600 W	600 W
Temperature range	50 – 320 °C	RT – 340 °C	RT – 340 °C
Adjustable safety circuit	50 – 370 °C	50 – 370 °C	50 – 370 °C
Control accuracy with sensor	ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K	PT 1000: ± 1 K / ETS-D5: ± 0.5 K / ETS-D6: ± 0.2 K	± 0.2 K
Set-up plate material	stainless steel 1.4301	Aluminium	stainless steel 1.4301
Set-up plate dimensions	Ø 135 mm	Ø 135 mm	Ø 135 mm
Dimensions (W x D x H)	160 x 246 x 90 mm	160 x 270 x 85 mm	160 x 270 x 85 mm
Weight	2 kg	3 kg	3 kg
	RH basic: Ident. No. 5019700 RH digital: Ident. No. 5019800	Ident. No. 5019900 PT 1000 included in the delivery	Ident. No. 5020000 PT 100 included in the delivery

Magnetic Stirrers with heating



LCD display for simultaneous display of target and actual temperatures



Integrated temperature sensor for precise temperature control



Elevated control panel for protection against spilled liquids



Hot Top indicator to prevent burns



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

**NEW
2012**

Technical data

	C-MAG HS 4 digital	C-MAG HS 7 digital	C-MAG HS 10 digital
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
Heat output	250 W	1000 W	1500 W
Temperature range	50 – 500 °C	50 – 500 °C	50 – 500 °C
Max. stirring bar length	30 mm	80 mm	80 mm
Adjustable safety circuit	550 °C (fixed)	550 °C (fixed)	550 °C (fixed)
Control accuracy with sensor	± 0.5 K	± 0.5 K	± 0.5 K
Set-up plate material	Ceramic	Ceramic	Ceramic
Set-up plate dimensions	100 x 100 mm	180 x 180 mm	260 x 260 mm
Weight	3 kg	5 kg	6 kg
	Ident. No. 4240200	Ident. No. 3487000	Ident. No. 4240400

PT 1000 included in the delivery



For information about accessories, visit www.ika.com

Multi-position magnetic stirrers



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



Available
Q1/2013

Technical data	RO 5	RO 10	RO 15
Number of stirring positions	5	10	15
Max. stirring quantity (H ₂ O)	0.4 l	0.4 l	0.4 l
Distance between stirring places	90 mm	90 mm	90 mm
Deviation for individual stirring positions	0%	0%	0%
Speed display	LED	LED	LED
Speed range	0 – 1200 rpm	0 – 1200 rpm	0 – 1200 rpm
Speed adjustment	10 rpm steps	10 rpm steps	10 rpm steps
Max. stirring bar length	30 mm	30 mm	30 mm
Set-up plate material	stainless steel 1.4301	stainless steel 1.4301	stainless steel 1.4301
Set-up plate dimensions	120 x 470 mm	190 x 470 mm	280 x 470 mm
Dimensions (W x D x H)	120 x 570 x 60 mm	190 x 570 x 60 mm	280 x 570 x 60 mm
Weight	3 kg	5 kg	7 kg
	Ident. No. 3690500	Ident. No. 3691000	Ident. No. 3692500

Available
Q1/2013

Technical data	RT 5	RT 10	RT 15
Number of stirring positions	5	10	15
Max. stirring quantity (H ₂ O)	0.4 l	0.4 l	0.4 l
Distance between stirring places	90 mm	90 mm	90 mm
Deviation for individual stirring positions	0%	0%	0%
Speed range	0 – 1000 rpm	0 – 1000 rpm	0 – 1000 rpm
Speed / Temperature display	LED	LED	LED
Heat output	175 W	375 W	580 W
Temperature range heating plate	RT – 120 °C	RT – 120 °C	RT – 120 °C
Set-up plate material	Aluminium alloy	Aluminium alloy	Aluminium alloy
Set-up plate dimensions	110 x 495 mm	180 x 495 mm	270 x 495 mm
Dimensions (W x D x H)	120 x 610 x 60 mm	190 x 610 x 60 mm	280 x 610 x 60 mm
Weight	4 kg	7.5 kg	10.5 kg
	Ident. No. 3690600	Ident. No. 3691100	Ident. No. 3692600

Overhead Stirrers

Designed to optimize complex stirring applications, IKA® offers the very best in overhead stirrer technology. Our overhead stirrers stand out because of their extraordinary features, which include: electronic safety circuit, digital display, two speed ranges, USB interface, removable wireless controller and many more.



External probe for connection to a temperature sensor for accurate temperature control (only EUROSTAR control)



Brushless EC motor for longer life span, low maintenance and higher efficiency



Digital display for precise monitoring of set and actual speeds



Available
Q1/2013

EUROSTAR 20 digital

Technical data
Stirring quantity max. (H ₂ O)
Max. viscosity
Motor rating input / output
Speed range
Max. torque at stirring shaft
Display
Chuck range
Timer
Temperature measurement
Dimensions (W x D x H)
Weight

15 l
10,000 mPas
56 / 44 W
0/30 – 2000 rpm
20 Ncm
LED
0.5 – 10 mm
no
no
86 x 208 x 248 mm
4.4 kg

Ident. No. 4442000

EUROSTAR 40 digital

25 l
30,000 mPas
112 / 87 W
0/30 – 2000 rpm
40 Ncm
LED
0.5 – 10 mm
no
no
86 x 208 x 248 mm
4.4 kg

Ident. No. 4444000

EUROSTAR 60 digital | control

40 l
50,000 mPas
168 / 131 W
0/30 – 2000 rpm
60 Ncm
LED TFT
0.5 – 10 mm
no yes
no yes
86 x 208 x 248 mm 86 x 230 x 267 mm
4.4 kg 4.7 kg

Ident. No. 4446000 | 4440000



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winner 2012

For information
about accessories,
visit www.ika.com

Overhead Stirrers



Clockwise and counter clockwise rotation



Wireless Controller (WiCo)
Removable wireless controller for easy and user-friendly operation



Laboratory stirrer designed for highly viscous applications and intensive mixing



Extremely powerful laboratory stirrer designed with high torque



EUROSTAR 100 control

- > USB interface with the possibility to update the firmware
- > Brushless EC motor for longer life



The wireless controller can be separated from the overhead stirrer. This allows for working in a fume hood or safety cabinet without lifting the protective screen, which in turn helps protect the user from toxic material exposure in addition to preserving sample integrity.



Available Q1/2013



Available Q2/2013



Available Q2/2013

Technical data

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	70,000 mPas
Motor rating input / output	174 / 142 W
Speed range	0/30 – 1300 rpm
Max. torque at stirring shaft	100 Ncm
Torque trend display	LED
Chuck range	0.5 – 10 mm
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	86 x 208 x 248 mm
Weight	4.4 kg

EUROSTAR 100 digital

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	70,000 mPas
Motor rating input / output	174 / 142 W
Speed range	0/30 – 1300 rpm
Max. torque at stirring shaft	100 Ncm
Torque trend display	LED
Chuck range	0.5 – 10 mm
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	86 x 208 x 248 mm
Weight	4.4 kg

Ident. No. 4238100

EUROSTAR 100 control

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	70,000 mPas
Motor rating input / output	174 / 142 W
Speed range	0/30 – 1300 rpm
Max. torque at stirring shaft	100 Ncm
Torque trend display	TFT
Chuck range	0.5 – 10 mm
Timer	yes
Temperature measurement	yes
Dimensions (W x D x H)	86 x 230 x 267 mm
Weight	4.7 kg

Ident. No. 4028500

EUROSTAR 200 digital | control

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	100,000 mPas
Motor rating input / output	121 / 99 W
Speed range	0/6 – 2000 rpm
Max. torque at stirring shaft	200 Ncm
Torque trend display	LED TFT
Chuck range	0.5 – 10 mm
Timer	no yes
Temperature measurement	no yes
Dimensions (W x D x H)	91 x 209 x 274 mm 91 x 231 x 274 mm
Weight	4.6 kg 4.9 kg

Ident. No. 3990000 | 3992000

EUROSTAR 20 high speed digital

Stirring quantity max. (H ₂ O)	20 l
Max. viscosity	10,000 mPas
Motor rating input / output	171 / 133 W
Speed range	0/150 – 6000 rpm
Max. torque at stirring shaft	20 Ncm
Torque trend display	LED
Chuck range	fixed
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	86 x 208 x 325 mm
Weight	5.3 kg

Ident. No. 4028600

EUROSTAR 200 P4 control

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	150,000 mPas
Motor rating input / output	121 / 99 W
Speed range	0/4 – 530 rpm
Max. torque at stirring shaft	660 Ncm
Torque trend display	TFT
Chuck range	0.5 – 10 mm
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	91 x 230 x 379 mm
Weight	5.8 kg

Ident. No. 4090000

RW 28 digital

Stirring quantity max. (H ₂ O)	80 l
Max. viscosity	50,000 mPas
Motor rating input / output	220 / 90 W
Speed range	60 – 1400 rpm (50 Hz)
Max. torque at stirring shaft	900 Ncm
Torque trend display	LED
Chuck range	1 – 10 mm
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	123 x 252 x 364 mm
Weight	7.5 kg

Ident. No. 5040000

RW 47 digital

Stirring quantity max. (H ₂ O)	200 l
Max. viscosity	100,000 mPas
Motor rating input / output	513 / 370 W
Speed range	57 – 1300 rpm (50 Hz)
Max. torque at stirring shaft	3000 Ncm
Torque trend display	LED
Chuck range	3 – 16 mm
Timer	no
Temperature measurement	no
Dimensions (W x D x H)	145 x 358 x 465 mm
Weight	16 kg

Ident. No. 4050000



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Rockers & Rollers

IKA® is proud to introduce a brand new series of Rollers, Rockers and Overhead Rotators. The wide range of Rocking, Rolling, Rotating and Shaking covers the entire spectrum of motions in mixing technology. IKA® has also added a sibling to its' voluminous incubator shaker KS 4000 i control and ic control.

Rocker 3D digital



Dual platform option expands workspace



Timer display for accurate and reproducible conditions



Three-dimensional tumbling rocking/see-saw motion



Touch keypad for easy operation



Rocking action



Rocking and rolling action



Timer display for accurate and reproducible conditions



C/T button for choosing the counter or the timer function



Removable rolls allow for the use of larger tubes

Rocking and Rolling



Roller 10 digital



Available Q2/2013

Available Q2/2013

Technical data	Rocker 2D basic	Rocker 2D digital	Rocker 3D basic	Rocker 3D digital
Type of movement	rocking	rocking	tumbling	tumbling
Shaking diameter	8° (angle)	0 – 15° (angle)	8° (angle)	0 – 15° (angle)
Permissible shaking weight (incl. attachment)	2 kg	2 kg	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W	16 / 9 W	16 / 9 W
Permissible ON time	100%	100%	100%	100%
Speed range	5 – 80 rpm	5 – 80 rpm	30 rpm (fixed)	5 – 80 rpm
Speed display	7 segment LED	7 segment LED	none	7 segment LED
Timer	no	∞ / 1 s – 99.9 h	no	∞ / 1 s – 99.9 h
Timer display	none	7 segment LED	none	7 segment LED
Dimensions (W x D x H)	280 x 330 x 150 mm	280 x 330 x 150 mm	280 x 330 x 165 mm	280 x 330 x 185 mm
Weight	2.2 kg	2.2 kg	2.2 kg	2.2 kg
	Ident. No. 4002000	Ident. No. 4003000	Ident. No. 4000000	Ident. No. 4001000

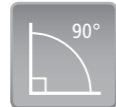
Technical data	Roller 6 basic	Roller 6 digital	Roller 10 basic	Roller 10 digital
Type of movement	rocking and rolling	rocking and rolling	rocking and rolling	rocking and rolling
Shaking diameter	24.5 mm (high)	24.5 mm (high)	24.5 mm (high)	24.5 mm (high)
Permissible shaking weight (incl. attachment)	2 kg	2 kg	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W	16 / 9 W	16 / 9 W
Permissible ON time	100%	100%	100%	100%
Speed range	30 rpm (fixed)	5 – 80 rpm	30 rpm (fixed)	5 – 80 rpm
Speed display	none	7 segment LED	none	7 segment LED
Timer	no	∞ / 1 s – 99.9 h	no	∞ / 1 s – 99.9 h
Timer display	none	7 segment LED	none	7 segment LED
Dimensions (W x D x H)	240 x 545 x 115 mm	240 x 545 x 115 mm	380 x 545 x 115 mm	380 x 545 x 115 mm
Weight	4.5 kg	4.5 kg	7 kg	7 kg
	Ident. No. 4010000	Ident. No. 4011000	Ident. No. 4012000	Ident. No. 4013000

Trayster, Loopster & Incubator shakers

Loopster digital



Choice of tube holders to hold a number of different sized tubes



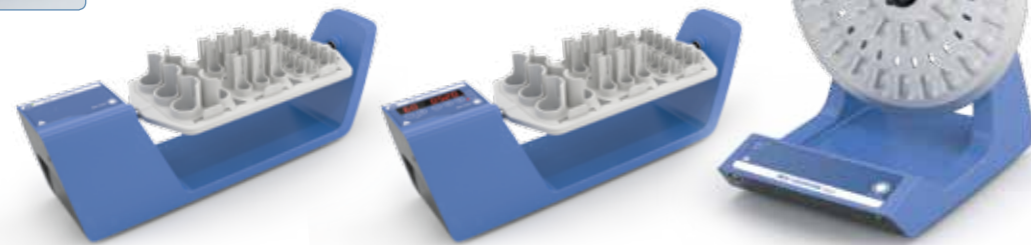
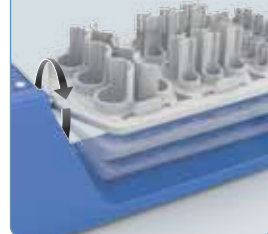
90 degree adjustable mixing angle



Touch keypad for easy operation



Type of motion



Available Q3/2013

Technical data	Trayster basic	Trayster digital	Loopster basic	Loopster digital
Type of movement	rotating	rotating	rotating	rotating
Permissible shaking weight (incl. attachment)	2 kg	2 kg	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W	16 / 9 W	16 / 9 W
Permissible ON time	100%	100%	100%	100%
Speed range	20 rpm (fixed)	5 – 80 rpm	20 rpm (fixed)	5 – 80 rpm
Speed display	none	7 segment LED	none	7 segment LED
Timer	no	∞ / 1 s – 99.9 h	no	∞ / 1 s – 99.9 h
Timer display	none	7 segment LED	none	7 segment LED
Dimensions (W x D x H)	460 x 160 x 150 mm	460 x 160 x 150 mm	300 x 300 x 360 mm	300 x 300 x 360 mm
Weight	1.7 kg	1.7 kg	3 kg	3 kg
	Ident. No. 4005000	Ident. No. 4006000	Ident. No. 4015000	Ident. No. 4016000

Orbital action



For information about accessories, visit www.ika.com



KS 3000 i control

Available Q1/2013



Assure highly accurate temperature control



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



Wide range of attachments allows for using almost all shapes and sizes of vessels



Built-in cooling coil for connection to an external cooling unit

Technical data

Orbital diameter	20 mm
Motor rating input / output	45 / 10 W
Speed range	10 – 500 rpm
Timer display	LED
Time setting range	1 s – 999 h
Heating temperature range	RT +5 – 80 °C
Heat output	1000 W
Dimensions (W x D x H)	465 x 695 x 430 mm
Weight	35 kg
Interface	RS 232, USB

KS 3000 i control

Orbital diameter	20 mm
Motor rating input / output	45 / 10 W
Speed range	10 – 500 rpm
Timer display	LED
Time setting range	1 s – 999 h
Heating temperature range	RT +5 – 80 °C
Heat output	1000 W
Dimensions (W x D x H)	465 x 695 x 430 mm
Weight	37 kg
Interface	RS 232, USB

Ident. No. 3940000

Ident. No. 3940100



Dispersers

The IKA® range of dispersers are used for volumes ranging from 0.5 to 50,000 ml (H₂O). Due to their broad spectrum of dispersing tools, IKA® dispersers are highly effective for a variety of uses. The unique and patented ULTRA-TURRAX® Tube Drive system is the world's first disperser system with disposable and sealed sample tubes.



T 25 digital

Digital Display



Digital display for precise monitoring of set and actual speeds

Wide selection of dispersing tools to suit your application



Motor protection against overload



Quick-connect coupling to exchange dispersing tools easily



Available Q1/2013

Technical data

Motor rating input / output
Volume range (H₂O)
Speed range
Speed display
Noise without element
Dimensions (W x D x H)
Weight
Protect. class DIN EN 60529

T 10 basic

125 / 75 W
0.5 – 100 ml
8000 – 30,000 rpm
scale
65 dB(A)
56 x 66 x 178 mm
0.5 kg
IP 30

Ident. No. 3737000

T 18 digital

500 / 300 W
1 – 1500 ml
500 – 25,000 rpm
LED
75 dB(A)
87 x 106 x 271 mm
2.5 kg
IP 20

Ident. No. 3720000

T 25 digital

800 / 500 W
1 – 2000 ml
500 – 25,000 rpm
LED
75 dB(A)
87 x 106 x 271 mm
2.5 kg
IP 20

Ident. No. 3725000

Dispersing tools are not included in delivery



reddot design award winner 2012



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Dispersers



Technical data

Motor rating input / output
Volume range (H ₂ O)
Speed range
Speed display
Noise without element
Dimensions (W x D x H)
Weight
Protect. class DIN EN 60529

T 50 digital
1100 / 700 W
0.25 – 30 l
500 – 10,000 rpm
LED
72 dB(A)
115 x 139 x 355 mm
5.76 kg
IP 20
Ident. No. 3787000

T 65 basic
1800 / 1500 W
2 – 50 l
7200 rpm (fixed)
–
75 dB(A)
185 x 400 x 450 mm
26 kg
IP 54
Ident. No. 4023500

T 65 digital
2600 / 2200 W
2 – 50 l
1000 – 9500 rpm
LED
75 dB(A)
300 x 400 x 390 mm
29 kg
IP 54
Ident. No. 4234500

Dispersing tools are not included in delivery

Mills

IKA® introduces the world's first disposable grinding tube system which eliminates the possibility of cross-contamination and saves on associated cleaning costs. Anticipate our newly created A 10 basic mill with enhanced safety features.



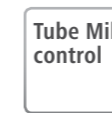
Interval operation



Special safety features



Adjustable safety speed and time



Tube Mill control

World's first



Available Q3/2013



Available Q1/2013

Tube Mill control

- > Disposable grinding chamber
- > Stops cross-contamination
- > No cleaning required
- > USB interface with the possibility to update the firmware

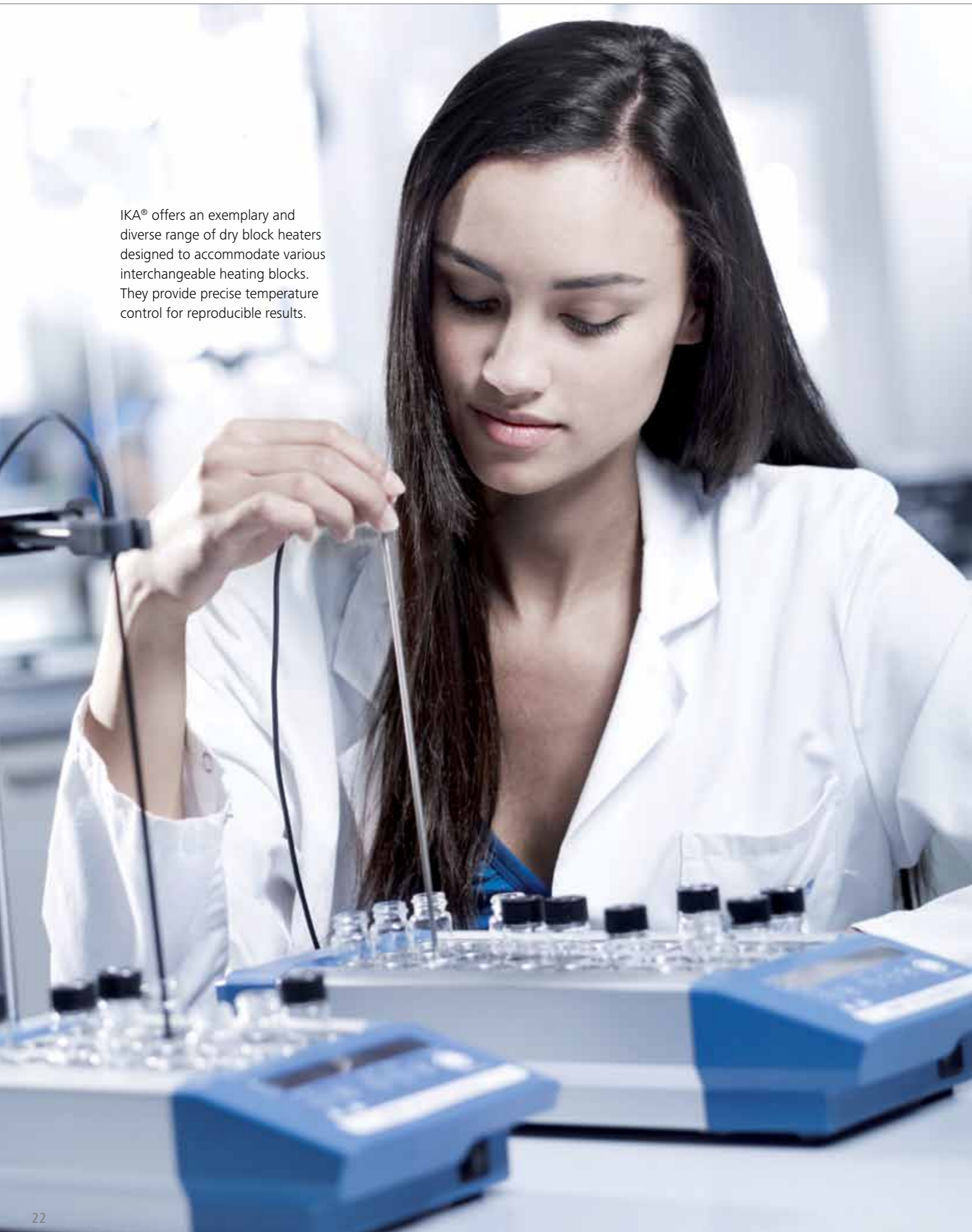
Technical data

Motor rating input / output
Speed range
Speed display
Useful volume
Duty cycle (ON / OFF)
Overload protection
Circumferential speed
Max. feed hardness
Max. feed grain size
Grinding chamber material
Dimensions (W x D x H)
Weight

A 10 basic
500 / 400 W
22,000 rpm (fixed)
no
50 ml
10 min
yes
63 m/s
9 Mohs
6 mm
stainless steel (AISI 14301)
130 x 145 x 250 mm
3.0 kg
Ident. No. 4020700

Tube Mill control
175 / 123 W
5000 – 25,000 rpm
digital
40 ml
5 s – 3 min (timer)
yes
65 m/s
5 Mohs
10 mm
Transparent plastic (PP)
180 x 300 x 170 mm
2.7 kg
Ident. No. 4180000





IKA® offers an exemplary and diverse range of dry block heaters designed to accommodate various interchangeable heating blocks. They provide precise temperature control for reproducible results.

Dry Block Heaters



Temperature display for the actual/set-point temperatures, up/down arrows for set-point control

Dry Block Heater 3



A wide range of interchangeable heating blocks to fit any sample tube or plate



External probe for accurate temperature control

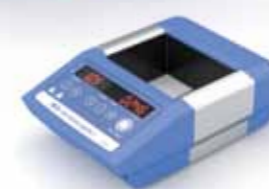


Timer display for accurate and reproducible conditions, up/down arrows for set-point control



For information about accessories, visit www.ika.com

Available Q1/2013



Technical data	Dry Block Heater 1	Dry Block Heater 2	Dry Block Heater 3	Dry Block Heater 4
Number of blocks	1	2	3	4
Heat output	150 W	250 W	300 W	375 W
Heating temperature range	RT to 120 °C	RT to 120 °C	RT to 120 °C	RT to 120 °C
Heat control	LED	LED	LED	LED
Heat control accuracy	± 1 K	± 1 K	± 1 K	± 1 K
Connection for ext. temperature sensor	DIN 12878	DIN 12878	DIN 12878	DIN 12878
Control accuracy with sensor	± 1 K	± 1 K	± 1 K	± 1 K
Material of the blocks	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Timer	1 min to 99h 59min	1 min to 99h 59min	1 min to 99h 59min	1 min to 99h 59min
Dimensions (W x D x H)	151 x 228 x 73 mm	151 x 304 x 73 mm	151 x 380 x 73 mm	151 x 456 x 73 mm
	Ident. No. 4025100	Ident. No. 4025200	Ident. No. 4025300	Ident. No. 4025400

Thermostats

IKA® is proud to introduce several high-precision temperature control systems from -30 °C to +250 °C. This new product range consists of heating baths and immersion circulators, refrigerated circulators and combined refrigerating and heating bath circulators. The sophisticated combination of precise technology and user-friendly design simplifies the temperature control of every application.



IC control



Removable wireless controller (WiCo) for easy and safe operation



Flexible bath bridge enables easy mounting to different water baths



USB / RS 232 interface for PC control and documentation using labworldsoft® software and for online firmware-update



Large easy-to-read TFT display

Available Q2/2013



Available Q4/2013



Available Q2/2013



Available Q2/2013



Available Q2/2013



Technical data	ICC basic control	IC basic control	HBC 5 basic control	HBC 10 basic control
Appliance type	compact immersion circulator	immersion circulator	heating bath circulator	heating bath circulator
Cooling capacity at 20 °C	–	–	–	–
Heat output	2000 / 1000 W	2500 / 1200 W	2500 / 1200 W	2500 / 1200 W
Temperature range	RT – 100 °C RT – 150 °C (20 °C with cooling coil*)	RT – 200 °C RT – 250 °C (20 °C with cooling coil*)	20 – 200 °C 20 – 250 °C (with integrated cooling coil*)	20 – 200 °C 20 – 250 °C (with integrated cooling coil*)
Temperature display	LED TFT	LED TFT	LED TFT	LED TFT
Temperature stability DIN 12876	± 0.03 K ± 0.01 K	± 0.02 K ± 0.01 K	± 0.02 K ± 0.01 K	± 0.02 K ± 0.01 K
Bath volume range	depends on used bath	depends on used bath	5 – 7 l	8 – 13 l
Max. flow rate (at 0 bar)	20 l/min	20 l/min 26 l/min	20 l/min 26 l/min	20 l/min 26 l/min
Max. pump pressure	0.2 bar	0.5 bar 0.7 bar	0.5 bar 0.7 bar	0.5 bar 0.7 bar
Min. suction	0.18 bar	0.3 bar 0.4 bar	0.3 bar 0.4 bar	0.3 bar 0.4 bar
Dimensions (W x D x H)	147 x 158 x 340 mm	245 x 260 x 300 mm	245 x 260 x 300 mm	275 x 510 x 455 mm
USB interface	yes	yes	yes	yes
	Ident. No. 4134400 4136600	Ident. No. 3861000 3863000	Ident. No. 4125000 4127000	Ident. No. 4135000 4137000

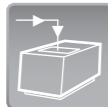
* Lower working temperatures possible with connection of a chiller

Thermostats

Available
Q4/2013



RC 5
control



Easily accessible filling port at the top of the unit with a protective lid



Removable venting grid for easy cleaning



Large easy-to-read TFT display



Quiet operation



Removable wireless controller (WiCo) for convenient and user-friendly operation

Available
Q3/2013



Available
Q4/2013



Technical data	RC 2 basic control	RC 5 basic control	CBC 5 basic control	CBC 10 basic control
Appliance type	refrigerated circulator	refrigerated circulator	combined refrigerating and heating bath circulator	combined refrigerating and heating bath circulator
Cooling capacity at 20 °C	350 W	600 W	350 W	600 W
Heat output	–	–	2500 / 1200 W	2500 / 1200 W
Temperature range	-20 – 40 °C	-20 – 40 °C	-30 – 200 °C	-30 – 200 °C
Temperature display	LED TFT	LED TFT	LED TFT	LED TFT
Temperature stability DIN 12876	± 0.5 K	± 0.5 K	–	–
Bath volume range	1.4 – 4 l	–	–	–
Max. flow rate (at 0 bar)	20 l/min	–	–	–
Max. pump pressure	0.2 bar	–	–	–
Min. suction	0.18 bar	–	–	–
Dimensions (W x D x H)	220 x 450 x 478 mm	–	–	–
USB interface	yes	yes	yes	yes
	Ident. No. 4171000 4173000	Ident. No. 4181000 4183000	Ident. No. 4165000 4167000	Ident. No. 4175000 4177000





IKA® is pleased to introduce the RV 8 rotary evaporator. The RV 8, a functional basic model with manual lift and adjustable immersion angle, is the most economic option in our range. For fully automated distillation, IKA® has developed a new RV 10 control with direct connection to a speed controlled pump and automatic boiling point detection.

Rotary Evaporators | RV 8



IKA®
Patent

One-hand lifting mechanism with ambidextrous design

240 rpm
58.4 °C

Two digital displays for an optimal overview



Key-button with locking function for the heating bath temperature



Adjustable immersion angle and height

Available
Q2/2013

RV 8



Compatible with the complete range of IKA® RV 10 glassware



One-hand lifting mechanism with ambidextrous design



Heating bath can be used as a stand-alone unit and has integrated ergonomic carrying handles

Technical data

Drive

Motor type	brushless DC drive motor
Motor rating input	50 W
Speed range	5 – 300 rpm
Speed display	digital
Clockwise and counter-clockwise	no
Smooth start	yes
Head angle adjustable	0 to 45°
Stroke displacement	130 mm, manual
Setting of lower end stop	no
Vacuum controller	optional

Heating bath

Bath volume max.	3 l
Temperature range	RT to 180 °C
Heating power	1300 W

- P1 Package 1 with vertical glassware
Ident. No. 8033800
- P2 Package 2 with vertical coated glassware
Ident. No. 8034200
- P3 Package 3 without glassware (FLEX)
Ident. No. 8033400

Rotary Evaporators | RV 10 control



RV 10 control

IKA+

- > RV 10 control with enhanced features
- > Automatic solvent boiling point detection
- > Integrated solvent library (extendible by the customer)
- > Direct connection to a speed-controlled pump
- > Online-firmware update via USB or RS 232 possible

Available Q1/2013



RV 10 control +
RV 10.4002 Magnetic valve

RV 10 control +
N 920 Speed controlled pump

Technical data

Drive

Motor type	brushless DC drive motor
Motor rating input	50 W
Speed range	20 – 280 rpm
Speed display	digital
Clockwise and counter-clockwise	yes
Smooth start	yes
Head angle adjustable	0 to 45°
Stroke displacement	140 mm, motorised
Setting of lower end stop	60 mm, contact free
Vacuum controller	integrated

Heating bath

Bath volume max.	3 l
Temperature range	RT to 180 °C
Heating power	1300 W

- P1 RV 10 control V
Ident. No. 8037700
- P2 RV 10 control V-C
Ident. No. 8037900
- P3 RV 10 control FLEX
Ident. No. 8038100

Motor type	brushless DC drive motor
Motor rating input	50 W
Speed range	20 – 280 rpm
Speed display	digital
Clockwise and counter-clockwise	yes
Smooth start	yes
Head angle adjustable	0 to 45°
Stroke displacement	140 mm, motorised
Setting of lower end stop	60 mm, contact free
Vacuum controller	integrated

Bath volume max.	3 l
Temperature range	RT to 180 °C
Heating power	1300 W

- P1 RV 10 control V auto
Ident. No. 8037800
- P2 RV 10 control V-C auto
Ident. No. 8038000
- P3 RV 10 control FLEX auto
Ident. No. 8038200

For information about accessories, visit www.ika.com



Pipettes

IKA® offers the most comprehensive range of fixed and variable volume pipettes: single channel (0.1 – 10,000 µl) and multichannel (0.5 – 300 µl) for assured versatility. The effortlessly operated pipettes provide superior accuracy, precision and safety. Easy to sterilize, the ultra light-weight pipettes are ergonomically designed for efficacy and efficiency.



Pipettes | ALPHA



Fully autoclavable for easy sterilization



Ultra light weight and ergonomic design for comfortable control



Resistant to UV radiation for enhanced durability



Volume range color coding for easy pipette selection

IKA® ALPHA fix



Variants

IKA® ALPHA fix 2.5 µl	●
IKA® ALPHA fix 5 µl	●
IKA® ALPHA fix 10 µl	●
IKA® ALPHA fix 20 µl	●
IKA® ALPHA fix 25 µl	●
IKA® ALPHA fix 50 µl	●
IKA® ALPHA fix 100 µl	●
IKA® ALPHA fix 200 µl	●
IKA® ALPHA fix 250 µl	●
IKA® ALPHA fix 500 µl	●
IKA® ALPHA fix 1,000 µl	●
IKA® ALPHA fix 2,000 µl	●
IKA® ALPHA fix 5,000 µl	●
IKA® ALPHA fix 10,000 µl	●

Ident. No.

Ident. No. 4391300
Ident. No. 4390000
Ident. No. 4390100
Ident. No. 4390200
Ident. No. 4390300
Ident. No. 4390400
Ident. No. 4390500
Ident. No. 4390600
Ident. No. 4390700
Ident. No. 4390800
Ident. No. 4390900
Ident. No. 4391000
Ident. No. 4391100
Ident. No. 4391200

IKA® ALPHA vario



Variants










IKA® ALPHA vario 0.1 – 2.5 µl	●
IKA® ALPHA vario 0.5 – 10 µl	●
IKA® ALPHA vario 2 – 20 µl	●
IKA® ALPHA vario 5 – 50 µl	●
IKA® ALPHA vario 10 – 100 µl	●
IKA® ALPHA vario 20 – 200 µl	●
IKA® ALPHA vario 50 – 200 µl	●
IKA® ALPHA vario 100 – 1,000 µl	●
IKA® ALPHA vario 200 – 1,000 µl	●
IKA® ALPHA vario 500 – 5,000 µl	●
IKA® ALPHA vario 500 – 10,000 µl	●
IKA® ALPHA vario 1,000 – 5,000 µl	●
IKA® ALPHA vario 1,000 – 10,000 µl	●

Ident. No.

Ident. No. 4393100
Ident. No. 4392000
Ident. No. 4392600
Ident. No. 4392100
Ident. No. 4392400
Ident. No. 4392700
Ident. No. 4392200
Ident. No. 4392500
Ident. No. 4392300
Ident. No. 4392900
Ident. No. 4393100
Ident. No. 4392800
Ident. No. 4393000

Pipettes | PRECISION

Pipettes | PRECISION Multichannel

-  IKA® PRECISION Series
-  Ultra light weight and ergonomic design for comfortable control
-  UV Resistant
Resistant to UV radiation for enhanced durability
-  Fully autoclavable for easy sterilization
121°C
-  Locking mechanism prevents accidental volume change (Only for IKA® PRECISION series)
-  Specially engineered plastics increase resistance to chemical and physical corrosion
-  Clear 4 digit display for volume setting
1 0 0 0
-  ISO 8655
Supplied with individual quality certificate (QC) and calibration report as per ISO 8655
-  Volume range color coding for easy pipette selection



IKA® Multichannel series

- > Comfortable finger rest and soft comfort grip
- > Durable and shock proof tip cone
- > Can be freely rotated 360 degrees for flexible use



IKA® range of pipette tips includes both filter and non-filter tips. They provide more accurate sample dispensing and increased level of reproducibility.

In addition, they are easier to load and eject for reduced hand fatigue. The filtered tips are essential in critical applications, such as PCR, forensics, DNA amplification, clinical diagnostics, etc to ensure protection of samples and pipettes against cross-contamination.

IKA® PRECISION fix

Variants	Ident. No.
IKA® PRECISION fix 2.5 µl	Ident. No. 4394000
IKA® PRECISION fix 5 µl	Ident. No. 4394100
IKA® PRECISION fix 10 µl	Ident. No. 4394200
IKA® PRECISION fix 20 µl	Ident. No. 4394300
IKA® PRECISION fix 25 µl	Ident. No. 4394400
IKA® PRECISION fix 50 µl	Ident. No. 4394500
IKA® PRECISION fix 100 µl	Ident. No. 4394600
IKA® PRECISION fix 200 µl	Ident. No. 4394700
IKA® PRECISION fix 250 µl	Ident. No. 4394800
IKA® PRECISION fix 500 µl	Ident. No. 4394900
IKA® PRECISION fix 1,000 µl	Ident. No. 4395000
IKA® PRECISION fix 2,000 µl	Ident. No. 4395100
IKA® PRECISION fix 5,000 µl	Ident. No. 4395200
IKA® PRECISION fix 10,000 µl	Ident. No. 4395300

IKA® PRECISION vario

Variants	Ident. No.
IKA® PRECISION vario 0.1 – 2.5 µl	Ident. No. 4396000
IKA® PRECISION vario 0.5 – 10 µl	Ident. No. 4396100
IKA® PRECISION vario 2 – 20 µl	Ident. No. 4396500
IKA® PRECISION vario 5 – 50 µl	Ident. No. 4396200
IKA® PRECISION vario 10 – 100 µl	Ident. No. 4396300
IKA® PRECISION vario 20 – 200 µl	Ident. No. 4396600
IKA® PRECISION vario 100 – 1,000 µl	Ident. No. 4396400
IKA® PRECISION vario 500 – 5,000 µl	Ident. No. 4396700
IKA® PRECISION vario 1,000 – 10,000 µl	Ident. No. 4396800

IKA® PRECISION MC 8

Variants	Ident. No.
IKA® PRECISION MC 8 0.5 – 10 µl	Ident. No. 4398000
IKA® PRECISION MC 8 2 – 20 µl	Ident. No. 4398500
IKA® PRECISION MC 8 5 – 50 µl	Ident. No. 4398100
IKA® PRECISION MC 8 10 – 100 µl	Ident. No. 4398200
IKA® PRECISION MC 8 20 – 200 µl	Ident. No. 4398300
IKA® PRECISION MC 8 30 – 300 µl	Ident. No. 4398400

IKA® PRECISION MC 12

Variants	Ident. No.
IKA® PRECISION MC 12 0.5 – 10 µl	Ident. No. 4399000
IKA® PRECISION MC 12 2 – 20 µl	Ident. No. 4399500
IKA® PRECISION MC 12 5 – 50 µl	Ident. No. 4399100
IKA® PRECISION MC 12 10 – 100 µl	Ident. No. 4399200
IKA® PRECISION MC 12 20 – 200 µl	Ident. No. 4399300
IKA® PRECISION MC 12 30 – 300 µl	Ident. No. 4399400

Laboratory Reactors

The IKA® LR 1000 system is a modular, expandable laboratory reactor designed for optimizing chemical reaction processes as well as mixing, dispersing and homogenization applications at the laboratory scale. The system can be adapted for a wide range of applications and specific requirements especially in the cosmetic and pharmaceutical industry.

IKA® LR 1000 basic | control

Technical data

Usable volume	300 – 1000 ml
Max. working temperature	120 °C
Attainable vacuum	25 mbar
Max. viscosity	100,000 mPas
Speed range	10 – 150 rpm
Min. adjustable speed	10 rpm
Display	LED TFT
Material in contact with medium	AISI 316L, borosilicate glass 3.3, PTFE, FKM
Heat output	1000 W
Heat control accuracy	± 1 K
Connection for ext. temperature sensor	PT 100
Temperature measurement resolution	0.1 K
Min. cooling medium temperature	3 °C
Support rod diameter (with integrated fastening on stand)	16 mm
Dimensions (W x D x H)	443 x 295 x 360 mm
Weight	16 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class according to DIN EN 60529	IP 21
USB and RS 232 interface	no yes
Voltage	230 V
Frequency	50/60 Hz
Power input	1200 W

Ident. No. 3600000 | 3601000



Large, easy-to-read TFT display for better image quality and easy navigation



Integrated weighing function



Possibility to connect pH electrode



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

Calorimeter | C 1



The C 1 oxygen bomb calorimeter is a little giant that sets new standards for the industry. The C 1 represents the smallest isoperibol static jacket calorimeter in the world. However, the new C 6000 global standards and C 6000 isoperibol calorimeters follow the traditional calorimetric approach.



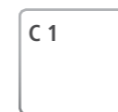
The traditional heavy screw threaded bomb is now replaced by a light combustion chamber



Automatic oxygen filling, venting and flushing



Interfaces for PC (USB-B), printer (serial interface), balance (serial interface)



World's first



Available Q2/2013

For information about accessories, visit www.ika.com

Technical data	
Maximum energy input	40,000 J
Power ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	color display
Multifunctional push & turn dial	yes
Operator time	< 1 min
Measurements per hour	Isoperibolic (Regnault Pfaundler) 5

C 1	
Maximum energy input	40,000 J
Power ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	color display
Multifunctional push & turn dial	yes
Operator time	< 1 min
Measurements per hour	Isoperibolic (Regnault Pfaundler) 5
Ident. No. 3825000	

Calorimeter | C 6000



Easy and convenient touch screen operation



SD Card slot for additional data management



Ethernet interface for data management via FTP Server



Decomposition vessel with spherical top allows better heat transfer and results in shorter measurement times



Software provides control chart view and correction calculation of globally used standards



RFID technology used for decomposition vessel identification



Available
Q2/2013



C 6000 global standards

- > Easy bomb preparation due to new "turned around" crucible holder technology
- > Decomposition vessel with spherical top for faster heat transfer

Technical data

Maximum energy input	40,000 J
Powe ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	touch screen
Operator time	< 1 min
Measurements per hour	Adiabatic (Only global standards) 4 Isoperibolic (Regnault Pfaundler) 3 Dynamic 7

C 6000 isoperibol | C 6000 global standards

C 6000 isoperibol Package 2/10
Ident. No. 8804700
C 6000 global standards Package 2/10
Ident. No. 8804300

For more packages, please contact us at
sales@ika.de

Technical data

Maximum energy input	40,000 J
Resolution of temperature sensor PT 1000	0.0001
Powe ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	TFT
Multifunctional push & turn dial	yes

Measuring modes

Isoperibol (Regnault Pfaundler)

Start temperature settings

2 possible settings: 22 °C or 30 °C

Operator time

< 1 min

Measurements per hour

Isoperibol (Regnault Pfaundler) 5

Jacket control

static, dry

Reproducibility (using NIST benzoic acid 39j)

Isoperibol (Regnault Pfaundler) 0.1% RSD

Number of decomposition vessel per unit

up to 4

Halogen resistant and catalytic activated vessels available?

yes

Decomposition vessel ID

manual

Interfaces

PC	USB-B
Printer	9 pin (M) RS 232 serial
Balance	9 pin (M) RS 232 serial
Ethernet	–
for external keyboard or mouse	–
sample rack	–
Update & service interfacet	yes
SD-Card	–
external water heater	yes
Automatic oxygen filling	yes
Automatic oxygen venting	yes
Automatic oxygen flushing	yes
Automatic water filling	yes
Automatic water drain	yes
Automatic ignition and ignition energy determination for each experiment	yes

Operated with KV 600

Water pressure from Chiller	0.3 bar
Temperature setting: isoperibol 22 °C	20.5 °C
Temperature setting: isoperibol 30 °C	28.5 °C
Cooling medium	tap water

Operated with tap water and C 1.20 waterheater

Tap water temperature range	12 – 28 °C
Water pressure max.	1 – 1.5 bar
Water pressure min.	–
Water consumption per experiment	approx. 4 l

General Data

Languages	D, E, Fr, Sp, Chi, Rus, Pol, I
Dimensions opened (W x D x H)	290 x 350 x 400 mm
Dimensions closed (W x D x H)	290 x 350 x 270 mm
Weight	15 kg
Ambient temperature	20 – 25 °C
Ambient humidity	80%
Protection class according to DIN EN 60529	IP 20
Voltage	100 – 240 V
Frequency	50 / 60 Hz
Power Input	150 W
DC Voltage	24 V

C 1

Maximum energy input	40,000 J
Resolution of temperature sensor PT 1000	0.0001
Powe ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	TFT with touch screen
Multifunctional push & turn dial	–

Measuring modes

Isoperibol (Regnault Pfaundler)

Start temperature settings

2 possible settings: 22 °C or 30 °C

Operator time

< 1 min

Measurements per hour

Isoperibol (Regnault Pfaundler) 5

Jacket control

static, dry

Reproducibility (using NIST benzoic acid 39j)

Isoperibol (Regnault Pfaundler) 0.1% RSD

Number of decomposition vessel per unit

up to 4

Halogen resistant and catalytic activated vessels available?

yes

Decomposition vessel ID

automatic (RFID)

Interfaces

PC	USB-B
Printer	9 pin (M) RS 232 serial
Balance	9 pin (M) RS 232 serial
Ethernet	yes
for external keyboard or mouse	yes
sample rack	yes
Update & service interfacet	–
SD-Card	yes
external water heater	–
Automatic oxygen filling	yes
Automatic oxygen venting	yes
Automatic oxygen flushing	yes
Automatic water filling	yes
Automatic water drain	yes
Automatic ignition and ignition energy determination for each experiment	yes

C 6000 isoperibol | C 6000 global standards

Maximum energy input	40,000 J
Resolution of temperature sensor PT 1000	0.0001
Powe ON-time	continuous operation
Operating oxygen pressure	30 bar
Display	TFT with touch screen
Multifunctional push & turn dial	–
Measuring modes	Adiabatic (Only global standards) Isoperibol Dynamic
Start temperature settings	3 possible settings: 22 °C, 25 °C, 30 °C
Operator time	< 1 min
Measurements per hour	Adiabatic (Only global standards) 4 Isoperibolic (Regnault Pfaundler) 3 Dynamic 7
Jacket control	controlled, water
Reproducibility (using NIST benzoic acid 39j)	Adiabatic (Only global standards) 0.05% Isoperibol (Regnault Pfaundler) 0.05% Dynamic 0.1%
Number of decomposition vessel per unit	up to 4
Halogen resistant and catalytic activated vessels available?	yes
Decomposition vessel ID	automatic (RFID)
Interfaces	9 pin (M) RS 232 serial USB-B 9 pin (M) RS 232 serial
PC	9 pin (M) RS 232 serial
Printer	USB-B
Balance	9 pin (M) RS 232 serial
Ethernet	yes
for external keyboard or mouse	yes
sample rack	yes
Update & service interfacet	–
SD-Card	yes
external water heater	–
Automatic oxygen filling	yes
Automatic oxygen venting	yes
Automatic oxygen flushing	yes
Automatic water filling	yes
Automatic water drain	yes
Automatic ignition and ignition energy determination for each experiment	yes

Centrifuge | mini G

IKA® introduces a brand new mini centrifuge ideal for applications which do not require ultra high speeds e.g., micro-filtrations and cell separation. The unit features a compact design and a small footprint which requires minimal bench space. It can be used for both microcentrifuge and PCR strip tubes.



Technical data

Capacity	8 x 2.0 ml
Permitted density	1.2 kg / dm ³
Centrifugal acceleration	2000 G
Max. kinetic energy	20 Nm
Motor rating input / output	12 / 8 W
Fixed speed	6000 rpm
Reversible direction of rotation	no
Dimensions (W x D x H)	155 x 175 x 105 mm
Weight	1.4 kg

mini G

Ident. No. 3958000

Available
Q1/2013

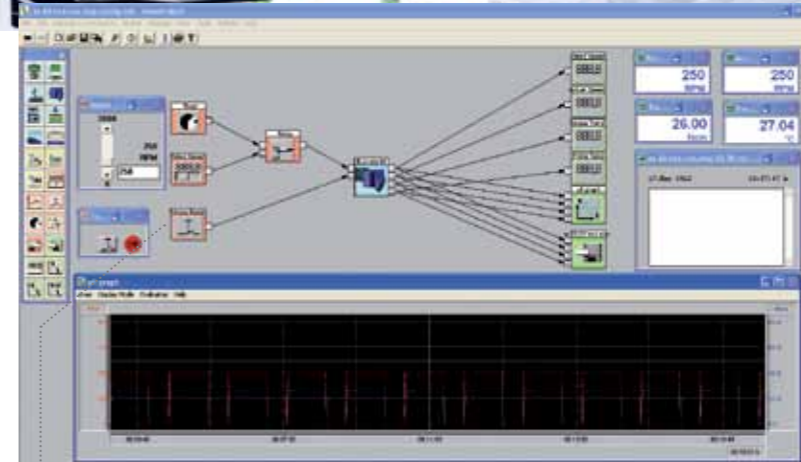
For information
about accessories,
visit www.ika.com






Software



Software | labworldsoft®



-  **Red module** represents manual and automatic control
-  **Blue module** signifies that the laboratory device is interfaced
-  **Green module** is for numeric or graphic displays of measured values



Ident. No. 2970000

Manufacturers with interface devices compatible to labworldsoft®:

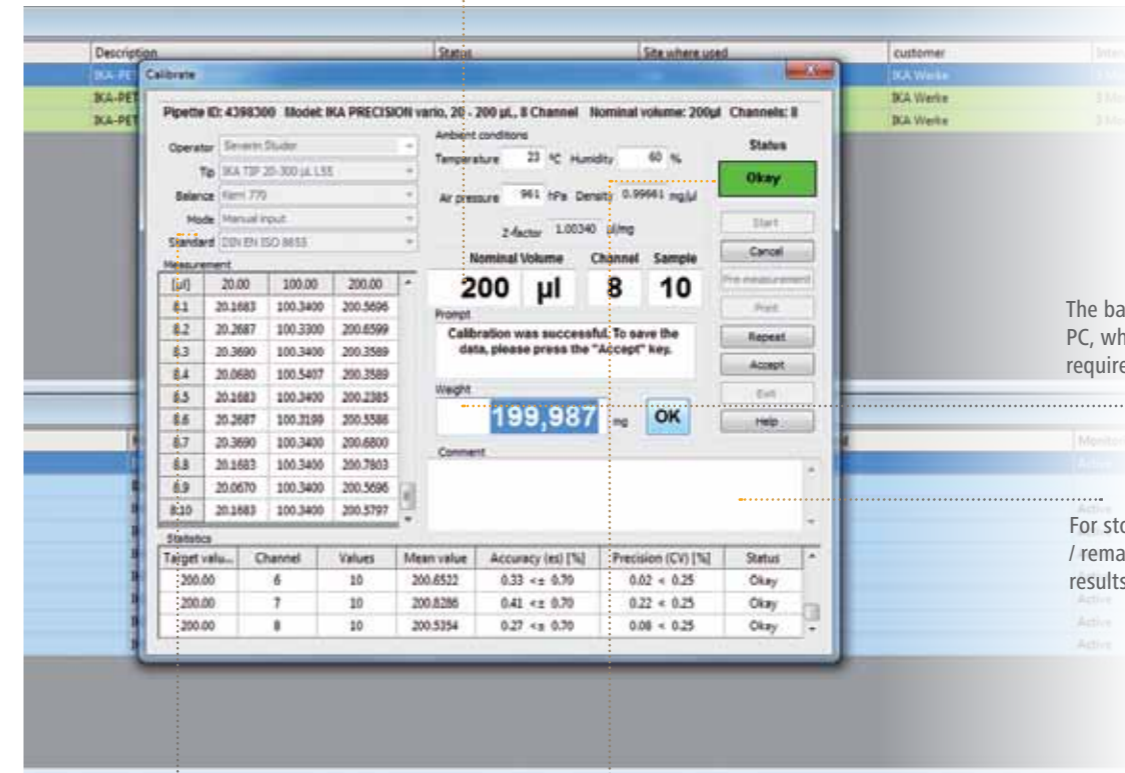
- Ahlborn
- Delphin Technology AG
- Ehret
- Eyela
- Fluid / Ekato Group
- Fritsch
- Gerhardt
- GFL
- Hach Lange
- Harvard
- Heidolph
- Hermle
- Huber
- IKA®-Werke
- ILMVAC / Gardner Denver
- Infors
- ISMATEC
- Julabo
- Kern
- KNF Flodos
- KNF Neuberger
- Knick
- Lauda
- Martin Christ
- Metrohm
- Mettler Toledo
- MLT
- Nova Analytics
- PM Tamson Instruments
- Poly Science
- Sartorius mechatronics
- Sartorius stedim biotech
- Scaltec / Denver Instruments
- Sigma
- Telab
- Thermo / Haake
- Thermo / Neslab
- Thyracont Vacuum Instruments GmbH
- Troemner
- Vacuubrand

Software | Calwin



Software | Pipette Calibration

The volume to be set by the user and specified by the manufacturer; used for identifying and specifying the measurement range



The balance transmits the weight to the PC, where the software performs all the required calculations automatically

For storing any comments / remarks about the test results

Allows you to select the standards to be used for calibration

Displays 'Okay' for successful or 'Not okay' for unsuccessful calibration



Ident. No. 4040500

Modern Calorimetry requires modern Data handling...

Calwin C 6040 – PC control and evaluation software for the IKA® calorimeters.

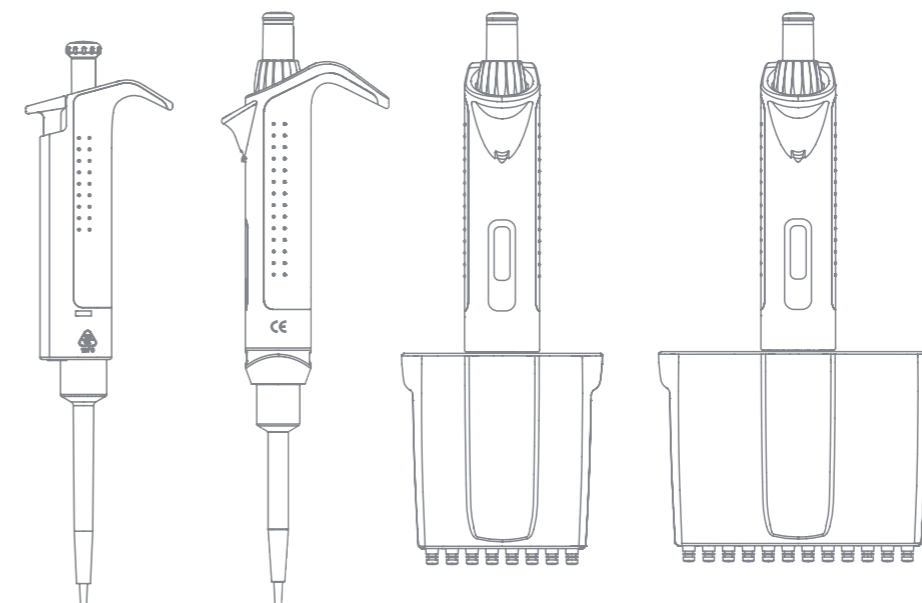
The new IKA® calorimeter software Calwin C 6040 follows in the footsteps of our Calwin C 5040 with a vast array of modern solutions, ideas and possibilities for managing the measurements from our calorimeters. This software can be connected with the C 5000 (firmware 2.22), C 2000 (firmware 2.22), C 200 as well as the new calorimeters C 6000 global standards, C 6000 isoperibol and C 1.

- Data management with Microsoft SQL Server
- Clearly arranged layout of all measurements, results, and connected calorimeters on one screen
- Printing and saving calibration protocols with control chart view

- Library and grouping functions with extended data filtering options
- Correction calculations to obtain the net calorific value according to various ISO, ASTM, DIN, GB, GOST standards
- Data transfer to pre-configured work sheets for Excel (configurable by the user)

System requirements

Windows XP (SP2), Windows Vista, Windows 7, Microsoft SQL Server and at least one free USB or RS 232 (9 pin Sub-D (M)) serial interface. Processor with min. 1.6 GHz (single core-Processor); 2 GB RAM; 2.5 GB free hard-disc space; DVD-ROM-drive



To ensure the accuracy and precision of each pipette, regular calibration of these instruments are necessary. IKA® provides a user-friendly pipette calibration software for scheduling, performing and documenting all calibration checks.

Prices valid until 31st of December 2013
All prices exclusive to VAT
Subject to alteration of prices
Subject to technical changes
Indications not binding for delivery

IKA®+

Ordering made easy!

For more information
about our products and
to place your order,
please visit:

www.ika.com

201210_Product_Overview_2013_EN_wop



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IKA® German technology