IKA®

Product Overview 2015

German technology
made in the USA

Welcome to the IKA® group

IKA®-Werke GmbH & Co. KG in Staufen, Germany can 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.

For more information, please visit:
www.ika.com

The cover of this brochure is a collection of images of our IKAworldwide instagram followers. We would like to say Thank You to all of them.

IKAworldwide | #lookattheblue

Mixing

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Crushing

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Magnetic stirrers

IKA® magnetic stirrers are made for Scientists. When a product is developed, the engineers focus on safety, power and intelligence. There is a complete range of magnetic stirrers to handle various tasks, applications and quantities, either with or without heating capabilities and with open or closed vessels. IKA® stirrers require up to 25% less energy than other manufacturer's products.

Patented

RET® control-visc

RET® control-visc with white coated heating plate!

> Offers excellent chemical resistance
> Easy to clean

Integrated temperature sensor for precise temperature control

Integrated 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

RS 232 interface for PC connection

USB interface to control and document all parameters using labworldsoft® software and for updating your firmware

Magnetic stirrers with heating

RH basic / digital with white coated heating plate!

> Offers excellent chemical resistance
> Easy to clean

RH digital

Hot Top indicator to prevent burns

Technical data	RH basic | RH basic white	RH digital | RH digital white
Max. stirring quantity (H_2O)	15 l	15 l
Motor rating input / output	20 / 2 W	20 / 2 W
Speed range	100 – 2000 rpm	100 – 2000 rpm
Speed display	scale	LED
Heat output	600 W	600 W
Temperature range	50 – 320 °C	50 – 320 °C
Max. magnetic bar (L x Ø)	80 mm	80 mm
Safety circuit	100 – 360 °C	100 – 360 °C
Control accuracy with sensor	ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K	ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K
Heating plate material	stainless steel 1.4301 | white ceramic	stainless steel 1.4301 | white ceramic
Dimensions	Ø 135 mm	Ø 135 mm
Weight	2.8 kg	2.8 kg
Price	$ 690 | $ 718	$ 740 | $ 781
	Ident. No. 5019701 Ident. No. 5029701	Ident. No. 5019801 Ident. No. 4678001

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

Adjustable safety temperature

Watch the video:
www.ika.com/video

Technical data	RCT basic
Max. stirring quantity (H_2O)	20 l
Motor rating input / output	16 / 9 W
Speed range	50 – 1500 rpm
Heat output	600 W
Temperature range	RT – 310 °C
Adjustable safety circuit	50 – 360 °C
Control accuracy with sensor	PT 1000: ± 1 K ETS-D5: ± 0.5 K | ETS-D6: ± 0.2 K
Heating plate material	aluminum alloy
Heating plate dimensions	Ø 135 mm
Dimensions (W x D x H)	160 x 270 x 85 mm
Weight	2.5 kg
Price	$ 890 | $ 1,297 | $ 1,171
	RCT basic safety control Ident. No. 3810001* RCT Synthesis Package 1 Ident. No. 8039601* RCT Synthesis Package 2 Ident. No. 8039701*

Package details on page 160

* PT 1000.60 included in delivery.

RCT Synthesis Package 1 Quarter System & RCT Synthesis Package 2 Reaction Block System

> Multiple synthesis with only one magnetic stirrer
> Uniform mixing in every vessel
> High-precision thermal conduction directly into the quarters

Magnetic stirrers with heating

RET® control-visc with white coated heating plate!

> Offers excellent chemical resistance

> Easy to clean

Watch the video:
www.ika.com/video

Technical data	RET basic	RET® control-visc | RET® control-visc white
		replaces RET control/t
Max. stirring quantity (H_2O)	20 l	20 l
Motor rating input / output	16 / 9 W	16 / 9 W
Speed range	50 – 1700 rpm	50 – 1700 rpm
Heat output	600 W	600 W
Temperature range	RT – 340 °C	RT – 340 °C
Adjustable safety circuit	50 – 360 °C	50 – 380 °C
Control accuracy with sensor	PT 1000: ± 1 K ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K	PT 100: ± 0.2 K
Heating plate material	stainless steel	stainless steel 1.4301 | white ceramic
Heating plate dimensions	Ø 135 mm	Ø 135 mm
Dimensions (W x D x H)	160 x 270 x 95 mm	160 x 270 x 85 mm
Weight	2.5 kg	3 kg
Price	**$ 980**	**$ 1,307 | $ 1,525**
	Ident. No. 3622001	Ident. No. 5020001* Ident. No. 5030001*

* PT 100.70 included in delivery

Phil S. Baran Ph.D.
Recipient of MacArthur Genius Grant

The Scripps Research Institute

Baran uses IKA® equipment

TFT display for better image quality and easy navigation

Extra strong heating

Integrated temperature sensor for precise temperature control

RET® control-visc

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

Patented

Integrated weighing function allows the user to measure weight changes of up to 5,000 g

USB interface to control and document all parameters using labworldsoft® software and for updating your firmware

The Magnetic Stirrer for Scientists

Strongest and safest magnetic stirrer in its class with integrated patented weighing function and high sensitive torque trend indication

Magnetic stirrers with heating

Watch the video:
www.ika.com/video

C-MAG HS 7

- DIN Bushing 12878 for connecting an electronic contact thermometer
- **Elevated control panel** for protection against spilled liquids
- **Hot Top indicator** to prevent burns
- Ceramic set-up plate offers excellent chemical resistance to acid, bases and solvents

Technical data	C-MAG HS 4	C-MAG HS 7	C-MAG HS 10
Max. stirring quantity (H_2O)	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
Heat output	250 W	1000 W	1500 W
Temperature range	50 – 500 °C	50 – 500 °C	50 – 500 °C
Display	LED	LED	LED
Max. stirring bar length	30 mm	80 mm	80 mm
Safety circuit	550 °C (fixed)	550 °C (fixed)	550 °C (fixed)
Control accuracy with sensor	–	ETS-D5 / ± 0.5 K	ETS-D5 / ± 0.5 K
Heating 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
Price	$ 505	$ 518 | $ 759	$ 632
	Ident. No. 3581001	Ident. No. 3581201 C-MAG HS 7 Package Ident.No. L005457	Ident. No. 3581401

Package details on page 160

IKA®+

PT 1000.60 temperature sensor included in the delivery.

- **LCD display** for simultaneous display of target and actual temperatures
- **Integrated temperature sensor** for precise temperature control
- Ceramic set-up plate offers excellent chemical resistance to acid, bases and solvents
- **Hot Top indicator** to prevent burns
- **Elevated control panel** for protection against spilled liquids

C-MAG HS 7 digital

Technical data	C-MAG HS 4 digital	C-MAG HS 7 digital	C-MAG HS 10 digital
Max. stirring quantity (H_2O)	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
Heat output	250 W	1000 W	1500 W
Temperature range	50 – 500 °C	50 – 500 °C	50 – 500 °C
Display	LCD	LCD	LCD
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
Heating 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
Price	$ 515	$ 551	$ 809
	Ident. No. 4240201*	Ident. No. 3487001*	Ident. No. 4240401*

* PT 1000.60 included in delivery

Multiposition stirrers with heating

NEW Q2/2015 NEW Q2/2015 NEW Q2/2015

Technical data	RT 5 replaces RT 5 power	RT 10 replaces RT 10 power	RT 15 replaces RT 15 power
Number of stirring positions	5	10	15
Max. stirring quantity (H_2O)	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 – 1000 rpm	0 – 1000 rpm	0 – 1000 rpm
Speed adjustment	10 rpm steps	10 rpm steps	10 rpm steps
Heat output	175 W	375 W	580 W
Temperature range heatig plate	RT – 120 °C	RT – 120 °C	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C	70 °C	70 °C
Set-up plate material	aluminum alloy	aluminum alloy	aluminum 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
Price	$ 1,934	$ 2,277	$ 2,735
	Ident. No. 3690601	Ident. No. 3691101	Ident. No. 3692601

RT 15

Heating foil for homogeneous temperature distribution on the heating plate

Reverse rotation switch for better mixing results

Wear-free magnetic coils for consistent and silent operation

Multiposition stirrers with / without heating

Technical data	RO 5	RO 10	RO 15
Number of stirring positions	5	10	15
Max. stirring quantity (H_2O)	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
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
Price	**$ 1,435**	**$ 1,769**	**$ 2,103**
	Ident. No. 3690500	Ident. No. 3691000	Ident. No. 3692500

Technical data	RT 5 power	RT 10 power	RT 15 power
Number of stirring positions	5	10	15
Max. stirring quantity (H_2O)	0.4 l	0.4 l	0.4 l
Distance between stirring places	90 mm	90 mm	90 mm
Deviation for individual stirring positions	5%	5%	5%
Speed display	scale	scale	scale
Speed range	0 – 1100 rpm	0 – 1100 rpm	0 – 1100 rpm
Speed adjustment	scale	scale	scale
Heat output	175 W	375 W	580 W
Temperature range heatig plate	RT – 120 °C	RT – 120 °C	RT – 120 °C
Max. temperature medium (dep. on vessel)	70 °C	70 °C	70 °C
Set-up plate material	silicone	silicone	silicone
Set-up plate dimensions	120 x 450 mm	180 x 450 mm	270 x 450 mm
Dimensions (W x D x H)	138 x 552 x 65 mm	198 x 552 x 65 mm	288 x 552 x 65 mm
Weight	3 kg	4.2 kg	6 kg
Price	**$ 1,605**	**$ 1,997**	**$ 2,583**
	Ident. No. 2930301	Ident. No. 2930501	Ident. No. 2930701

Magnetic stirrers without heating

Technical data	color squid	big squid
Max. stirring quantity (H_2O)	1 l	1.5 l
Motor rating input / output	3 / 2 W	3 / 2 W
Speed range	0 – 2500 rpm	0 – 2500 rpm
Speed display	LED	LED
Max. stirring bar length	30 mm	30 mm
Speed adjustment	50 rpm steps	50 rpm steps
Set-up plate material	glass	glass
Set-up plate dimensions	Ø 115 mm	Ø 160 mm
Dimensions (W x D x H)	145 x 160 x 45 mm	180 x 195 x 40 mm
Weight	0.54 kg	0.7 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
Protection class acc. to DIN EN 60529	IP 54	IP 54
Voltage	100 – 240 V	100 – 240 V
Frequency	50/60 Hz	50/60 Hz
Price	$ 313	$ 370

(A) Ident. No. 3671000 white
(B) Ident. No. 3698200 zebra
(C) Ident. No. 3698300 bubbles
(D) Ident. No. 3698400 wave
(E) Ident. No. 4175500 seleção
(F) Ident. No. 4175300 solar sphere
(G) Ident. No. 4175100 stars and stripes
(H) Ident. No. 4175200 union Jack
(I) Ident. No. 4175400 red flag

(A) Ident. No. 3672000 white
(B) Ident. No. 3857200 frozen
(C) Ident. No. 3857100 leaves
(D) Ident. No. 3857300 twist

Electronically controlled, high power motor for a higher capacity and higher speed range

Glass plate for excellent chemical resistance to acids, bases and solvents

The digital display enables precise setting of speed

color squid

> For maximum stirring quantity of 1 l (H_2O)
> Available in various designs

big squid

> For maximum stirring quantity of 1.5 l (H_2O)
> Higher speed range from 0 – 2500 rpm

IKA®+

The difference between the color squid and the big squid is the **diameter of the set-up plate.**

color squid: Ø 115 mm
big squid: Ø 160 mm

Magnetic stirrers without heating

IKA®+

Mobile unit with rechargeable batteries with long operating time (8 – 12 h)

Technical data	Mini MR standard	topolino	topolino mobil
Max. stirring quantity (H_2O)	1 l	0.25 l	0.25 l
Motor rating input / output	3 / 2 W	1 / 0.8 W	1 / 0.8 W
Speed range	0 – 2500 rpm	300 – 1800 rpm	300 – 1800 rpm
Max. stirring bar length	30 mm	30 mm	30 mm
Speed adjustment	–	stepless	stepless
Set-up plate material	polyester	synthetic (PP)	synthetic (PP)
Set-up plate dimensions	115 x 115 mm	Ø 80 mm	Ø 80 mm
Dimensions (W x D x H)	114 x 127 x 37 mm	95 x 115 x 37 mm	Ø 140 x 42 mm
Weight	0.25 kg	0.32 kg	0.60 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 42	IP 21	IP 21
Voltage	100 – 240 V	100 – 240 V	100 – 240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	$ 173	$ 77	$ 217
	Ident. No. 3674000	Ident. No. 3368001	Ident. No. 3381301

Switchable reverse rotation every 30 seconds

Modern wear-free magnetic coil technology

lab disc

Ultra-flat for stirring quantities of up to 800 ml (H_2O)

A

lab disc

> Set-up plate and casing made of chemically resistant materials

> Slip-proof and safe stand

Height only 12mm

lab disc
0.8 l
5 / 3 W
15 – 1500 rpm
25 mm
stepless
polyester
Ø 100 mm
117 x 180 x 12 mm
0.3 kg
5 – 40 °C
80%
IP 65
100 – 240 V
50/60 Hz
$ 295

B C

A Ident. No. 3907500 white
B Ident. No. 3765000 pattern
C Ident. No. 3916100 stream

Magnetic stirrers without heating

Maxi MR 1 digital

For stirring quantities up to 150 l (H_2O)

Infinitely adjustable speed with digital display

Timer or continuous operation

Technical data	KMO 2 basic	Midi MR 1 digital	Maxi MR 1 digital
Max. stirring quantity (H_2O)	5 l	50 l	150 l
Motor rating input / output	14 / 4 W	70 / 19 W	80 / 35 W
Speed range	0 – 1100 rpm	0 – 1000 rpm	0 – 600 rpm
Speed display	scale	LCD	LCD
Max. stirring bar length	50 mm	80 mm	155 mm
Speed adjustment	stepless	stepless	stepless
Heating plate material	stainless steel 1.4301	stainless steel 1.4301	stainless steel 1.4301
Set-up plate dimensions	140 x 120 mm	350 x 350 mm	500 x 500 mm
Dimensions (W x D x H)	140 x 200 x 75 mm	360 x 430 x 110 mm	505 x 585 x 110 mm
Weight	1.4 kg	10.7 kg	16 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21
Voltage	115 V	115 V	115 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	**$ 920**	**$ 2,497**	**$ 3,555**
	Ident. No. 2812001	Ident. No. 2621901	Ident. No. 2621801

C-MAG MS 10

Ceramic set-up plate offers excellent chemical resistance to acid, bases and solvents

Powerful motor for stirring quantities up to 15 l (H_2O)

Elevated control panel for protection against spilled liquids

Technical data	C-MAG MS 4	C-MAG MS 7	C-MAG MS 10
Max. stirring quantity (H_2O)	5 l	10 l	15 l
Motor rating input / output	15 / 1.5 W	15 / 1.5 W	15 / 1.5 W
Speed range	100 – 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
Speed display	scale	scale	scale
Max. stirring bar length	30 mm	80 mm	80 mm
Speed adjustment	scale (0 – 6)	scale (0 – 6)	scale (0 – 6)
Heating plate material	ceramic	ceramic	ceramic
Set-up plate dimensions	100 x 100 mm	180 x 180 mm	260 x 260 mm
Dimensions (W x D x H)	150 x 260 x 105 mm	220 x 330 x 105 mm	300 x 415 x 105 mm
Weight	3 kg	5 kg	6 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21
Voltage	115 V	115 V	115 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	**$ 431**	**$ 449**	**$ 660**
	Ident. No. 3582201	Ident. No. 3582401	Ident. No. 3582601

Magnetic Stirrers | Accessories

Electronic contact thermometers

		Ident. No.	Price
1	ETS-D5	3378000	$ 305
	Electronic contact thermometer, -50 – 450 °C, 0.1 K resolution		
2	ETS-D6	3378100	$ 701
	Electronic contact thermometer. Similar to ETS-D5, additionally comes equipped with integrated pH measuring instrument (without pH electrode)		

Temperature sensors for ETS-D5 / D6

		Ident. No.	Price
3	H 62.51	2735451	$ 169
	Temperature sensor, stainless steel, Ø 3 mm, 260 mm length		
4	H 66.51	2735551	$ 210
	Temperature sensor, stainless steel, glass-coated, Ø 6 mm, 260 mm length		
	H 66.53	4499900	$ 286
	Temperature sensor, coated with SafeCoat, Ø 3 mm, 260 mm length		

ETS-D5 / D6 Accessories

		Ident. No.	Price
5	H 70	2735600	$ 111
	Extension cable, 1 m		

Temperature sensors for RCT / RET basic and C-MAG HS digital series

		Ident. No.	Price
6	PT 1000.60	3516800	$ 169
	Temperature sensor, stainless steel, Ø 3 mm, 230 mm length		
7	PT 1000.70	3736000	$ 236
	Temperature sensor, stainless steel, glass-coated, Ø 7 mm, 230 mm length		
8	PT 1000.80	4443000	$ 161
	Temperature sensor, stainless steel, Ø 3 mm, 150 mm length		
	PT 1000.90	4480600	$ 184
	Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm, 230 mm length		

Temperature sensors for RET® control-visc

		Ident. No.	Price
	PT 100.70	0020000440	on request
	Temperature sensor, stainless steel, Ø 3 mm, 230 mm length		
9	PT 1000.50	3367600	$ 357
	Temperature sensor, dual stainless steel, Ø 3 mm, 230 mm length		
10	PT 1000.51	3377700	$ 420
	Temperature sensor, dual stainless steel, glass-coated, Ø 8 mm		
11	PT 100.51	2600300	$ 551
	Temperature sensor, glass-coated, Ø 8 mm, 230 mm length		
	PT 100.53	4499700	$ 338
	Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm, 230 mm length		
	PT 1000.53	4499800	$ 400
	Temperature sensor, dual coated with SafeCoat, 230 mm length		

Magnetic Stirrers | Accessories

Advantages beaker, stainless steel

> No eddy current losses
> High magnetic adhesion force
> Very good heat transfer (3L beaker and up: due to a round deepening area for fitting heating plates with ø 135 mm)

Oil bath attachments

	Ident. No.	Price
H 29	2829400	$ 279
Oil bath attachment, 1 l, aluminum, inner Ø 136 – 180 mm, 81 mm height for use with oil only		
H 30	2829500	$ 328
Oil bath attachment, 1.5 l, aluminum, inner Ø 136 – 190 mm, 110 mm height for use with oil only		

Beakers

10	H 1000	4444401	$ 441
	Beaker, stainless steel, 1 l, inner Ø 160 mm, 79 mm height		
11	H 1500	4444501	$ 383
	Beaker, stainless steel, 1.5 l, inner Ø 140 mm, 160 mm height		
12	H 3000	4444503	$ 427
	Beaker, stainless steel, 3 l, inner Ø 180 mm, 119 mm height		
13	H 5000	4444505	$ 529
	Beaker, stainless steel, 5 l, inner Ø 220 mm, 142 mm height		
14	H 8000	4444508	$ 809
	Beaker, stainless steel, 8 l, inner Ø 265 mm, 162 mm height		

10

11

12

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14

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16

17

18

19

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21

22

Protective covers

	H 102	4281600	$ 37
	Cover for RH basic		
	H 103	4299100	$ 37
	Cover for RH digital		
15	H 100	3409600	$ 37
	Cover for RET basic and RCT basic		
	H 104	4209500	$ 37
	Cover for RET control-visc		

Other accessories

16	H 11 (Euro | USA | UK | CH plug)		
		1091500	$ 34
		3564500	
		2410700	
		1091600	
	Mains cable, spare		
17	H 16 V	1545100	$ 34
	Support rod, Ø 10 mm, 450 mm length		
18	H 16.1	5000500	$ 30
	Extension for support rod		
19	H 44	2437700	$ 23
	Boss head clamp		
20	H 38	3547700	$ 20
	Holding rod		
	HG 600	0020003416	on request
	Heating jacket for beaker 600 ml		
	HG 1000	0020003415	on request
	Heating jacket for beaker 1000 ml		
	BC 1000	0020003417	on request
	Beaker cap		
	C-MAG Adapter	0025001022	on request
	Heating block adapter for C-MAG		

Stirring bars

21	RS 1	1358600	$ 237
	Consisting of IKAFLON® (10 – 80 mm) and TRIKA® (25 and 40 mm) magnetic stirring bars		
	RS 2	4499100	$ 249
	Consisting of IKAFLON® 40 round, 40 glass, 30 power, 40 slide round, 40 ellipse, 40 TRIKA, 25 cross, 9 crown and 25 bone magnetic stirring bars		
22	RSE	1293100	$ 87
	Stirring bar remover		

Magnetic Stirrers | Accessories

Stirring bars

IKAFLON® round

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 10 Set (5 Pcs) round PTFE-coated	10 x 6 mm	4488600	$ 13
IKAFLON® 15 Set (5 Pcs) round PTFE-coated	15 x 6 mm	4488700	$ 13
IKAFLON® 20 Set (5 Pcs) round PTFE-coated	20 x 8 mm	4488800	$ 13
IKAFLON® 25 Set (5 Pcs) round PTFE-coated	25 x 8 mm	4488900	$ 18
IKAFLON® 30 Set (5 Pcs) round PTFE-coated	30 x 8 mm	4489000	$ 15
IKAFLON® 40 Set (5 Pcs) round PTFE-coated	40 x 8 mm	4489100	$ 19
IKAFLON® 50 Set (5 Pcs) round PTFE-coated	50 x 8 mm	4489200	$ 21
IKAFLON® 80 Set (5 Pcs) round PTFE-coated	80 x 10 mm	4489300	$ 51
IKAFLON® 110 round PTFE-coated*	108 x 27 mm	0793300	$ 526
IKAFLON® 155 round PTFE-coated*	153 x 27 mm	1129000	$ 624

*** Used for large magnetic stirrers like Maxi MR 1 digital**

IKAFLON® glass round

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® glass 25 Set (5 Pcs) round	25 x 6 mm	4492200	$ 19
IKAFLON® glass 30 Set (5 Pcs) round	30 x 6 mm	4492400	$ 20
IKAFLON® glass 40 Set (5 Pcs) round	45 x 8 mm	4492600	$ 21
IKAFLON® glass 50 Set (5 Pcs) round	50 x 8 mm	4492800	$ 23

IKAFLON® power SmSo

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 20 Set (5 Pcs) power SmSo PTFE-coated	20 x 6 mm	4493000	$ 34
IKAFLON® 30 Set (5 Pcs) power SmSo PTFE-coated	30 x 6 mm	4493200	$ 45
IKAFLON® 50 Set (5 Pcs) power SmSo PTFE-coated	50 x 8 mm	4493400	$ 57

IKAFLON® slide round

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 25 Set (5 Pcs) slide round PTFE-coated	25 x 6 mm	4493800	$ 15
IKAFLON® 30 Set (5 Pcs) slide round PTFE-coated	30 x 6 mm	4494000	$ 15
IKAFLON® 40 Set (5 Pcs) slide round PTFE-coated	40 x 8 mm	4494200	$ 23
IKAFLON® 50 Set (5 Pcs) slide round PTFE-coated	50 x 8 mm	4494400	$ 30

IKAFLON® ellipse

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 20 Set (5 Pcs) ellipse PTFE-coated	20 x 10 mm	4494600	$ 21
IKAFLON® 25 Set (5 Pcs) ellipse PTFE-coated	25 x 12 mm	4494800	$ 23
IKAFLON® 30 Set (5 Pcs) ellipse PTFE-coated	32 x 16 mm	4495000	$ 30
IKAFLON® 35 Set (5 Pcs) ellipse PTFE-coated	35 x 15 mm	4495200	$ 44
IKAFLON® 40 Set (5 Pcs) ellipse PTFE-coated	40 x 20 mm	4495400	$ 49
IKAFLON® 50 Set (5 Pcs) ellipse PTFE-coated	50 x 20 mm	4495600	$ 69
IKAFLON® 60 Set (5 Pcs) ellipse PTFE-coated	64 x 20 mm	4495800	$ 100
IKAFLON® 70 Set (5 Pcs) ellipse PTFE-coated	70 x 20 mm	4496000	$ 120

IKAFLON® cross

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 10 Set (5 Pcs) cross PTFE-coated	10 x 10 mm	4496200	$ 20
IKAFLON® 20 Set (5 Pcs) cross PTFE-coated	20 x 20 mm	4496400	$ 26
IKAFLON® 25 Set (5 Pcs) cross PTFE-coated	25 x 25 mm	4496600	$ 25
IKAFLON® 30 Set (5 Pcs) cross PTFE-coated	30 x 30 mm	4496800	$ 38
IKAFLON® 38 Set (5 Pcs) cross PTFE-coated	38 x 38 mm	4497000	$ 42

IKAFLON® bone

	Dimensions (L x Ø)	Ident. No.	Price
IKAFLON® 37 Set (5 Pcs) bone PTFE-coated	35 x 8 x 20 mm	4497200	$ 61
IKAFLON® 54 Set (5 Pcs) bone PTFE-coated	55 x 8 x 20 mm	4497400	$ 74

TRIKA®

	Dimensions (L x Ø)	Ident. No.	Price
TRIKA® 25 Set (5 Pcs) PTFE-coated	25 x 8 mm	4499300	$ 15
TRIKA® 35 Set (5 Pcs) PTFE-coated	35 x 9 mm	4499400	$ 22
TRIKA® 55 Set (5 Pcs) PTFE-coated	55 x 14 mm	4499500	$ 40
TRIKA® 80 Set (5 Pcs) PTFE-coated	80 x 17 mm	4499600	$ 56

IKAFLON® beaker

	(Ø x Height in mm, for beaker)	Ident. No.	Price
IKAFLON® 67 beaker PTFE-coated	67 x 21 mm with 50 x 8	4497600	$ 341
IKAFLON® 74 beaker PTFE-coated	74 x 29 mm with 60 x 9	4497800	$ 353
IKAFLON® 103 beaker PTFE-coated	103 x 32 mm with 80 x 10	4498000	$ 508
IKAFLON® 125 beaker PTFE-coated	125 x 48 mm with 106 x 25	4498200	$ 649

IKAFLON® crown

	(Ø x Height in mm)	Ident. No.	Price
IKAFLON® 9 Set (5 Pcs) crown PTFE-coated	9 x 6 mm	4498400	$ 17

Synthesis blocks

Dry heating block square series

		Hole Ø	Dimensions	Ident. No.	Price
1	H 135.10 Square carrier without handle	–	160 x 160 mm	0025000832	$ 117
	H 135.101 Block 16 x 4 ml	15.2 mm	79 x 79 mm	0025000626	$ 55
	H 135.102 Block 16 x 8 ml	17.5 mm	79 x 79 mm	0025000627	$ 60
2	H 135.103 Block 9 x 16 ml	20.5 mm	79 x 79 mm	0025000628	$ 61
3	H 135.104 Block 4 x 20 ml	28.5 mm	79 x 79 mm	0025000629	$ 53
	H 135.105 Block 4 x 30 ml	28.5 mm	79 x 79 mm	0025000630	$ 60
4	H 135.106 Block 4 x 40 ml	28.5 mm	79 x 79 mm	0025000631	$ 67
	H 135.107 Block 100 ml	–	79 x 79 mm	0025000632	$ 54
5	H 135.108 Block 250 ml	–	79 x 79 mm	0025000633	$ 64

6

100 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
6	H 135.20 Flask carrier 100 ml without handle	142 mm	–	0025000634	$ 110
	H 135.201 Flask inlay 10 ml	–	33.8 mm	0025000636	$ 32
	H 135.202 Flask inlay 25 ml	–	43.8 mm	0025000637	$ 33
	H 135.203 Flask inlay 50 ml	–	52.8 mm	0025000638	$ 32

7

500 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
7	H 135.30 Flask carrier 500 ml without handle	142 mm	–	0025000639	$ 117
	H 135.301 Flask inlay 100 ml	–	66.3 mm	0025000641	$ 71
	H 135.302 Flask inlay 250 ml	–	88 mm	0025000642	$ 71

1000 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
8	H 135.40 Flask carrier 1000 ml without handle	166.3 mm	–	0025000833	$ 170
9	H 135.401 Flask inlay 500 ml	–	108 mm	0025000644	$ 122

10

2000 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
10	H 135.50 Flask carrier 2000 ml without handle	194.7 mm	–	0025000834	$ 207
	H 135.501 Flask inlay 1000 ml	–	131.8 mm	0025000645	$ 179

11 12

3000 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
11	H 135.60 Flask carrier 3000 ml without handle	218.3 mm	–	0025000835	$ 305
12	H 135.601 Flask inlay 2000 ml	–	162 mm	0025000648	$ 281

13 14

5000 ml Flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.	Price
13	H 135.70 Flask carrier 5000 ml without handle	259.7 mm	–	0025000836	$ 452
14	H 135.701 Flask inlay 3000 ml	–	194.5 mm	0025000651	$ 495

Overhead Stirrers

IKA® offers overhead stirrers for your stirring and mixing tasks in the lab – for low to high viscosities. Safety, power and intelligence were again at the core of the development of this product range.
IKA® overhead stirrers process stirring quantities of up to 200 liters.

The wireless controller

> Helps protect the user from toxic material exposure
> Preserving sample integrity

EUROSTAR 100 control

TFT Display

TFT Display for better image quality and easy navigation

External probe for connection to a temperature sensor for accurate temperature control

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

Clockwise and counter clockwise rotation

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

Electronic Overhead Stirrers

660 Ncm — **Torque trend display** to get real-time information on viscosity changes

Rotating knob for adjusting the speed and **pressing knob** for navigating through the menu on the wireless controller

EUROSTAR digital

Digital Display — **Digital display** for precise monitoring of set and actual speeds

Technical data	EUROSTAR 20 digital EUROSTAR 40 digital	EUROSTAR 60 digital EUROSTAR 60 control
	replaces RW 14; RW 16; EUROSTAR digital	replaces EUROSTAR power basic; EUROSTAR power control-visc
Stirring quantity max. (H_2O)	15 l | 25 l	40 l
Max. viscosity	10,000 mPas | 30,000 mPas	50,000 mPas
Motor rating input / output	70 / 42 W | 118 / 84 W	176 / 126 W | 168 / 131 W
Speed range	0/30 – 2000 rpm	0/30 – 2000 rpm
Max. torque at stirring shaft	20 Ncm | 40 Ncm	60 Ncm
Temp. sensor connection	no	no | PT 1000
Chuck range	0.5 – 10 mm	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm	86 x 208 x 248 mm | 86 x 230 x 267 mm
Weight	4.4 kg	4.4 kg | 4.7 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
Protection class DIN EN 60529	IP 40	IP 40
Price	**$ 1,134 | $ 1,276**	**$ 1,418 | $ 1,616**
	Ident. No. 4442001 Ident. No. 4444001	Ident. No. 4446001 Ident. No. 4440001*

* H 67.60 and WH 11 included in the delivery of all EUROSTAR control devices

TFT Display — **TFT Display** for better image quality and easy navigation

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

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

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

EUROSTAR control

Technical data	EUROSTAR 100 digital EUROSTAR 100 control	EUROSTAR 200 digital EUROSTAR 200 control
	replaces EUROSTAR control-visc P1	replaces EUROSTAR control-visc P4
Stirring quantity max. (H_2O)	100 l	100 l
Max. viscosity	70,000 mPas	100,000 mPas
Motor rating input / output	186 / 136 W | 174 / 142 W	130 / 84 W
Speed range	0/30 – 1300 rpm	0/6 – 2000 rpm
Max. torque at stirring shaft	100 Ncm	200 Ncm
Temp. sensor connection	no | PT 1000	no | PT 1000
Chuck range	0.5 – 10 mm	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm | 86 x 230 x 267 mm	91 x 209 x 274 mm | 91 x 231 x 274 mm
Weight	4.4 kg | 4.7 kg	4.6 kg | 4.9 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
Protection class DIN EN 60529	IP 40	IP 40
Price	**$ 2,487 | $ 2,766**	**$ 3,196 | $ 3,320**
	Ident. No. 4238101 Ident. No. 4028501*	Ident. No. 3990001 Ident. No. 3992001*

Electronic Overhead Stirrers

Watch the video:
www.ika.com/video

Technical data	EUROSTAR 200 control P4 replaces EUROSTAR control-visc P7	EUROSTAR 20 high speed digital EUROSTAR 20 high speed control replaces EUROSTAR power control-visc 6000
Stirring quantity max. (H_2O)	100 l	20 l
Max. viscosity	150,000 mPas	10,000 mPas
Motor rating input/output	134 / 76 W	176 / 125 W
Speed range	0/4 – 530 rpm	0/150 – 6000 rpm
Max. torque at stirring shaft	660 Ncm	20 Ncm
Temp. sensor connection	PT 1000	no | PT 1000
Chuck range	0.5 – 10 mm	fixed
Dimensions (W x D x H)	91 x 230 x 379 mm	86 x 208 x 325 mm | 86 x 260 x 344 mm
Weight	5.8 kg	5.3 kg | 5.6 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
Protection class DIN EN 60529	IP 40	IP 40
Price	$ 3,985	$ 1,846 | $ 2,683
	Ident. No. 4090001*	Ident. No. 4028601 Ident. No. 0025001463*

* H 67.60 and WH 11 included in the delivery of all EUROSTAR control devices

EUROSTAR 200 control P4

TFT Display

TFT Display for better image quality and easy navigation

Laboratory stirrer designed for **highly viscous applications and intensive mixing**

660 Ncm

Torque trend display to get real-time information on viscosity changes

Extremely powerful laboratory stirrer designed with **high torque**

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

RS 232 interface for PC connection

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

Mechanical Overhead Stirrers

Technical data	RW 20 digital
Stirring quantity max. (H_2O)	20 l
Max. viscosity	10,000 mPas
Motor rating input/output	70 / 35 W
Permissible ON time	100%
Speed range	60 – 2000 rpm (50 Hz)
Max. torque at stirring shaft	150 Ncm
Display	LED
Temp. sensor connection	no
Chuck range	0.5 – 10 mm
Hollow shaft	yes
Dimensions (W x D x H)	88 x 212 x 294 mm
Weight	3.1 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 20
Price	$ 943
	Ident. No. 3593001

RW 28 digital

Protection

Special motor over heating protection

Dual-speed range

Technical data	RW 28 digital	RW 47 digital
	replaces RW 28 basic	replaces RW 47 D
Stirring quantity max. (H_2O)	80 l	200 l
Max. viscosity	50,000 mPas	100,000 mPas
Motor rating input/output	220 / 90 W	513 / 370 W
Permissible ON time	100%	100%
Speed range	60 – 1400 rpm (50 Hz)	57 – 1300 rpm (50 Hz)
Max. torque at stirring shaft	900 Ncm	3000 Ncm
Display	LED	LED
Temp. sensor connection	no	no
Chuck range	1 – 10 mm	3 – 16 mm
Hollow shaft	yes	no
Dimensions (W x D x H)	123 x 252 x 364 mm	145 x 358 x 465 mm
Weight	7.5 kg	16 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
Protection class DIN EN 60529	IP 40	IP 54
Price	$ 4,190	$ 5,999
	Ident. No. 5040001	Ident. No. 4050010

Overhead Stirrers | Accessories

Propeller stirrer, 4-bladed

Standard stirring element for drawing the material to be mixed from the top to the bottom. It creates local shearing forces and axial flow in the vessel. This propeller stirrer is used at medium to high speeds.

Name	R 1342	R 1345	R 2302
Ident. No.	0741000	0741300	0739000
Stirrer (Ø)	50 mm	100 mm	150 mm
Shaft (Ø)	8 mm	8 mm	13 mm
Shaft length	350 mm	540 mm	800 mm
Price	**$ 182**	**$ 210**	**$ 895**
	A B C D F	A B C D F G	H

Propeller stirrer, 3-bladed

Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.

Name	R 1381	R 1382	R 1401	R 1405
Ident. No.	1296000	1295900	1242900	1289800
Stirrer (Ø)	45 mm	55 mm	55 mm	45 mm
Shaft (Ø)	8 mm	8 mm	–	–
Shaft length	350 mm	350 mm	–	–
Price	**$ 456**	**$ 201**	**$ 411**	**$ 327**
	A B C D F	A B C D F	E	E

Propeller stirrer, 3-bladed

Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.

Name	R 1385	R 1388	R 1389 (PTFE-coated)
Ident. No.	0477700	0477800	2343600
Stirrer (Ø)	140 mm	140 mm	75 mm
Shaft (Ø)	10 mm	10 mm	8 mm
Shaft length	550 mm	800 mm	350 mm
Price	**$ 211**	**$ 585**	**$ 837**
	A B C D F G	A B C D F G	A B C

Turbine stirrer

This stirrer is used for drawing the material to be mixed from above while generating axial flow within the vessel. It carries a minimum level of danger of injury when contact is made with vessel. It also creates minimum shearing forces and is used at medium to high speeds.

Name	R 1311	R 1312	R 1313
Ident. No.	2332900	2333000	2333100
Stirrer (Ø)	30 mm	50 mm	70 mm
Shaft (Ø)	8 mm	8 mm	10 mm
Shaft length	350 mm	350 mm	400 mm
Price	**$ 291**	**$ 368**	**$ 476**
	A F C	A B C D F	A B C D F

Centrifugal stirrer

Two-bladed stirrer who's blades open with increasing speed. Perfect for stirring in round vessels with narrow necks and the effect is similar to that of a 4-bladed propeller stirrer. Medium to high speeds required.

Name	R 1352	R 1355
Ident. No.	0756900	1132700
Stirrer (Ø)	60 / 15 mm	100 / 24 mm
Shaft (Ø)	8 mm	8 mm
Shaft length	350 mm	550 mm
Price	**$ 257**	**$ 327**
	A B C D F	A B C D F

Dissolver stirrer

This stirrer provides radial flow for drawing the material to be mixed from the top and the bottom while creating high turbulence and high shearing forces for particle reduction. Medium to high speeds required.

Name	R 1300	R 1302	R 1303	R 1402
Ident. No.	0513500	2387900	2746700	1243300
Stirrer (Ø)	80 mm	100 mm	42 mm	42 mm
Shaft (Ø)	8 mm	10 mm	8 mm	–
Shaft length	350 mm	350 mm	350 mm	–
Price	**$ 424**	**$ 877**	**$ 609**	**$ 477**
	A B C D F G	A B C D F G	A B C D F	E

EUROSTAR 20 | 40
digital

EUROSTAR 60
digital | control

A

EUROSTAR 100
digital | control

B

EUROSTAR 200
digital | control

C

EUROSTAR 200
control P4

D

EUROSTAR 20 high speed digital | control

E

RW 20
digital

F

RW 28
digital

G

RW 47
digital

H

Overhead Stirrers | Accessories

Paddle stirrer

This stirrer creates tangential flow, minimum turbulence, good heat exchange and gentle treatment of the product. Low to medium speeds required.

Name	R 1375	R 1376	R 2311
Ident. No.	0757700	0757800	0739500
Stirrer (Ø)	70 mm	150 mm	150 mm
Shaft (Ø)	8 mm	10 mm	13 mm
Shaft length	550 mm	550 mm	800 mm
Price	**$ 277**	**$ 578**	**$ 1,201**
	A B C D F	B C D F G	H

Anchor stirrer

This stirrer creates tangential flow, high shearing rate at the edges, minimum deposits on the vessel wall making them great for polymer reactions and even distribution of high mineral contents in liquids. Ideal for medium to highly viscous fluids. Low speeds required.

Name	R 1330	R 1331	R 1333
Ident. No.	2022300	2022400	2747400
Stirrer (Ø)	45 mm	90 mm	150 mm
Shaft (Ø)	8 mm	8 mm	10 mm
Shaft length	350 mm	350 mm	550 mm
Price	**$ 273**	**$ 305**	**$ 1,166**
	A B C D F	A B C D F G	B C D F G

Moebius stirrer

Generates axial flow. For drawing the material to be mixed from above. For circulating and handling low to medium viscous liquids. Used at medium speeds.

Name	R 3000.1	R 3001.1
Ident. No.	0020001192	0020001195
Stirrer (Ø)	100 mm	100 mm
Shaft (Ø)	10 mm	10 mm
Shaft length	565 mm	575 mm
Price	**on request**	**on request**
	A B C D F	A B C D F

Spiral stirrer

Generates axial flow. Medium is conveyed from the bottom upwards. For homogeneous mixing and heat exchange of medium to high viscosity media. Used at low to medium speeds.

Name	R 3003	R 3003.1	R 3003.2
Ident. No.	0020001203	0020001204	0020001205
Stirrer (Ø)	50 mm	100 mm	150 mm
Shaft (Ø)	8 mm	10 mm	10 mm
Shaft length	350 mm	550 mm	800 mm
Price	**on request**	**on request**	**on request**
	A B C D F	A B C D F H	A B C D F

Blade stirrer

Generates a radial flow. For drawing the material to be mixed from the top and bottom. For aerating of low viscosity media and for homogenizing solids in liquids. Used at medium to high speeds.

Name	R 3004	R 3004.1	R 3004.2
Ident. No.	0020001206	0020001207	0020001208
Stirrer (Ø)	30 mm	50 mm	70 mm
Shaft (Ø)	8 mm	8 mm	10 mm
Shaft length	359 mm	565 mm	819 mm
Price	**on request**	**on request**	**on request**
	A B F	A B F	A B C D F

EUROSTAR 20 | 40
digital

EUROSTAR 60
digital | control

A

EUROSTAR 100
digital | control

B

EUROSTAR 200
digital | control

C

EUROSTAR 200
control P4

D

EUROSTAR 20 high speed digital | control

E

RW 20
digital

F

RW 28
digital

G

RW 47
digital

H

Overhead Stirrers | Accessories

EUROSTAR 20 high speed digital | control accessories

		Ident. No.	Price
1	R 1401	1242900	$ 411
	Propeller, Ø 55 mm		
2	R 1405	1289800	$ 327
	Propeller, Ø 45 mm		
3	R 1402	1243300	$ 477
	Dissolver, Ø 42 mm		

Accessories for EUROSTAR control series

	Ident. No.	Price
H 62.51*	2735451	$ 169
Temperature sensor, stainless steel, Ø 3 mm, 260 mm length		
H 66.51*	2735551	$ 210
Temperature sensor, stainless steel, glass-coated, Ø 6 mm, 260 mm length		
H 66.53*	4499900	$ 286
Temperature sensor, coated with SafeCoat, Ø 3 mm, 260 mm length		
H 67.60	0025000215	on request
Temperature sensor, stainless steel, Ø 3 mm		
H 67.61	0020003865	on request
Temperature sensor, stainless steel, Ø 3 mm, response time 0.9 = 4 s		
H 70*	2735600	$ 111
Extension cable, 1 m		
WH 11	0025001500	on request
Wall mount for WICo		
labworldsoft®	4720000	$ 190
Laboratory software		

*** For using the temperature sensors, H 70 cable is required**

RW 47 digital accessories

		Ident. No.	Price
7	R 303	0030000257	on request
	Stirring shaft protection for RW 47 digital		
8	SI 400	3294800	$ 2,256
	Safety switch		
9	SI 472	3264000	$ 1,397
	Fixing device for R 472 stand		
10	SI 474	3264400	$ 895
	Fixing device for R 474 and T 653 stand		

RW 20 digital & EUROSTAR series accessories

		Ident. No.	Price
11	FK 1	2336000	$ 319
	Flexible coupling, clamping range 6 – 10 mm		
12	R 60	3889500	$ 112
	Keyless chuck for EUROSTAR 20 / 40 / 60 / 100 series		
13	R 301	2603000	$ 215
	Stirring shaft protection, plexiglass		
14	R 301.1	2604000	$ 264
	Support holder for R 301		

Shakers

IKA® offers a wide range of lab shakers for mixing and shaking applications. Products are equipped with digital display, timer function, and controlling options via the lab software labworldsoft®. Integrated end point positioning allows for automated sampling. An extensive array of attachments is available for the use of different vessels.

Sleek, compact, high-performance shaker

> Controls with antimicrobial coating for reduction of bacteria
> Electronic timer

Assure highly accurate temperature control

Orbital action

KS 3000 ic control

KS 4000 ic control

Built-in cooling coil for connection to an external cooling unit (available only for KS 3000 ic control and KS 4000 ic control)

Wide range of attachments available for different vessels.

Shakers

Technical data	Rocker 2D basic | digital	Rocker 3D basic | digital
Type of movement	rocking	tumbling
Shaking diameter	8° (angle) | 2.5 – 15° (angle)	8° (angle) | 0 – 15° (angle)
Permissible shaking weight (incl. attachment)	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W
Speed range	5 – 80 rpm	30 rpm (fixed) | 5 – 80 rpm
Speed display	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 165 mm 280 x 330 x 185 mm
Weight	2.2 kg | 2.2 kg	2.2 kg
Price	**$ 721 | $ 823**	**$ 886 | $ 961**
	Ident. No. 4002000* Ident. No. 4003000*	Ident. No. 4000000* Ident. No. 4001000*

*** RD 1 Universal mat included in the delivery of all Rockers**

Timer display for accurate and reproducible conditions

Touch keypad for easy operation

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

Technical data	Roller 6 basic | digital	Roller 10 basic | digital
Type of movement	rocking and rolling	rocking and rolling
Shaking diameter	24.5 mm (high)	24.5 mm (high)
Permissible shaking weight (incl. attachment)	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W
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	380 x 545 x 115 mm
Weight	4.5 kg	6 kg
Price	**$ 1,449 | $ 1,682**	**$ 1,716 | $ 2,012**
	Ident. No. 4010000 Ident. No. 4011000	Ident. No. 4012000 Ident. No. 4013000

Shakers

Technical data	Trayster basic | digital	Loopster basic | digital
Type of movement	rotating	rotating
Permissible shaking weight (incl. attachment)	2 kg	2 kg
Motor rating input / output	16 / 9 W	16 / 9 W
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	300 x 300 x 360 mm
Weight	1.7 kg	3 kg
Price	$ 666 | $ 755	$ 584 | $ 721
	Ident. No. 4005000*	Ident. No. 4015000*
	Ident. No. 4006000*	Ident. No. 4016000*

*** Loopster and Trayster accessories have to be ordered seperately**

Loopster digital

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

90°

90 degree adjustable mixing angle

Touch keypad for easy operation

Rotating action

Timer Display

Timer display for accurate and reproducible conditions

Shakers

MS 3 digital

Orbital action

Wide range of attachments

Continuous or touch operation

Technical data	VORTEX 1	lab dancer	MS 3 basic | digital
Type of movement	orbital	orbital	orbital
Shaking diameter	4.5 mm	4.5 mm	4.5 mm
Permissible shaking weight (incl. attachment)	0.1 kg	max. 50 ml (1 test tube)	0.5 kg
Motor rating input / output	1.2 / 0.8 W	1.2 / 0.8 W	10 / 8 W
Speed range	1000 – 2800 rpm	2800 rpm (fixed)	0 – 3000 rpm
Speed display	none	none	scale | digital
Timer display	none	none	none | digital
Operating mode	touch operation	touch operation	continuous / touch operation | timer and continuous / touch operation
Dimensions (W x D x H)	95 x 110 x 70 mm	100 x 70 mm (Ø x H)	148 x 205 x 63 mm
Weight	0.55 kg	0.55 kg	2.9 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Price	**$ 329**	**$ 281**	**$ 471 | $ 539**
	Ident. No. 4047700	Ident. No. 3365000	Ident. No. 3617000 Ident. No. 3319000

VORTEX 3

Orbital action

Wide speed range enables intensive mixing, even for small vessels

Different applications can be done as the attachments and inserts offered by IKA® are interchangeable.

Technical data	VORTEX 3	VXR basic Vibrax®	MTS 2/4 digital Microtiter shaker
Type of movement	orbital	orbital	orbital
Shaking diameter	4 mm	4 mm	3 mm
Permissible shaking weight (incl. attachment)	0.4 kg	2 kg	2/4 MT-Platten kg
Motor rating input / output	58 / 10 W	35 / 13.2 W	35 / 13.2 W
Speed range	500 – 2500 rpm	0 – 2200 rpm	0 – 1100 rpm
Speed display	scale (0 – 6)	scale	scale
Timer	none	none	∞ / 1 – 99 min
Operating mode	continuous / touch operation	continuous operation	timer and continuous operation
Dimensions (W x D x H)	127 x 149 x 136 mm	157 x 247 x 130 mm	185 x 320 x 105 mm
Weight	4.5 kg	6.1 kg	2.7 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Price	**$ 458**	**$ 979**	**$ 1,384**
	Ident. No. 3340001	Ident. No. 2819001	Ident. No. 3208001

Shakers

Technical data	KS 130 basic KS 130 control (NOL*)	HS 260 basic HS 260 control (NOL*)	HS 501 digital
Type of movement	orbital	reciprocating	reciprocating
Shaking diameter	4 mm	20 mm	30 mm
Permissible shaking weight (incl. attachment)	2 kg	7.5 kg	15 kg
Motor rating input / output	45 / 10 W	45 / 10 W	70 / 19 W
Permissible ON time	100 %	100 %	100 %
Speed range	0 – 800 rpm	0 – 300 rpm | 10 – 300 rpm	0 – 300 rpm
Speed display	LED line	LED line | digital	digital
Timer	∞ / 5 – 50 min | ∞ / 0 – 9 h 59 min	∞ / 5 – 50 min | ∞ / 0 – 9 h 59 min	∞ / 1 – 56 min
Operating mode	timer and continuous operation	timer and continuous operation	timer and continuous operation
Dimensions (W x D x H)	270 x 316 x 98 mm	360 x 420 x 100 mm	505 x 585 x 120 mm
Weight	8.8 kg	8.5 kg | 8.8 kg	26 kg
Permissible ambient temp.	5 – 50 °C	5 – 50 °C	5 – 50 °C
Permissible relative moisture	80%	80%	80%
Price	**$ 1,579 | $ 2,392 | $ 2,392**	**$ 2,367 | $ 2,839 | $ 2,839**	**$ 5,692**
	KS 130 basic Ident. No. 2980001 KS 130 control Ident. No. 2980101 KS 130 control NOL* Ident. No. 4278201	HS 260 basic Ident. No. 3066601 HS 260 control Ident. No. 3066701 HS 260 control NOL* Ident. No. 4278601	Ident. No. 2527001

Package details on page 161

* No End-point positioning

Wide range of attachment combinations

Digital display allows reading of speed, timer function and operating modes

Orbital action

All functions can be controlled and documented with labworldsoft®

KS 260 control

Technical data	KS 260 basic | control (NOL*)	KS 501 digital
Type of movement	orbital	orbital
Shaking diameter	10 mm	30 mm
Permissible shaking weight (incl. attachment)	7.5 kg	15 kg
Motor rating input / output	45 / 10 W	70 / 19 W
Permissible ON time	100%	100%
Speed range	20 – 500 rpm | 10 – 500 rpm	0 – 300 rpm
Speed display	LED line | digital	digital
Timer	∞ / 5 – 50 min | ∞ / 0 – 9 h 59 min	∞ / 1 – 56 min
Timer display	LED line | digital	digital
Operating mode	timer and continuous operation	timer and continuous operation
Dimensions (W x D x H)	360 x 420 x 98 mm	505 x 585 x 120 mm
Weight	8.5 kg | 8.8 kg	26 kg
Permissible ambient temp.	5 – 50 °C	5 – 50 °C
Permissible relative moisture	80%	80%
Price	**$ 2,367 | $ 2,839 | $ 2,839**	**$ 5,823**
	KS 260 basic Ident. No. 2980201 KS 260 control Ident. No. 2980301 KS 260 control NOL* Ident. No. 4278401	Ident. No. 2526401

Package details on page 161

* No End-point positioning

Incubator Shakers

Technical data	KS 3000 i control | ic control	KS 4000 i control | ic control
Type of movement	orbital	orbital
Shaking diameter	20 mm	20 mm
Permissible shaking weight (incl. attachment)	7.5 kg	20 kg
Motor rating input / output	45 / 10 W	82 / 24 W
Heating temperature range	i control: RT + 5 °C – 80 °C ic control: RT -10 °C – 80 °C	i control: RT + 5 °C – 80 °C ic control: RT -10 °C – 80 °C
Permissible ON time	100%	100%
Speed range	10 – 500 rpm	10 – 500 rpm
Speed display	LED	LED
Timer	1 s – 999 h	1 s – 999 h
Timer display	LED	LED
Operating mode	timer and continuous operation	timer and continuous operation
Dimensions (W x D x H)	465 x 430 x 695 mm	580 x 525 x 750 mm
Weight	35 kg | 37 kg	50 kg | 55 kg
Permissible ambient temp.	15 – 32 °C	15 – 32 °C
	80%	80%
	$ 5,142 | $ 6,428	$ 7,618 | $ 8,366
	Ident. No. 3940001 Ident. No. 3940101	Ident. No. 3510001 Ident. No. 3510101

KS 3000 ic control

KS 4000 ic control

Assure highly accurate temperature control

Orbital action

Built-in cooling coil to connect to an external cooling unit (available only for KS 3000 ic and KS 4000 ic control)

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

USB interface to control and document all parameters using labworldsoft® software and for updating your firmware

Shakers | Accessories

Rocker accessories

		Ident. No.	Price
1	A 2	4581700	$ 80
	Second level attachment		
2	RD 1*	4532000	$ 14
	Universal mat		
3	RD 2	4532100	$ 18
	Burled mat		
4	TB 1	4532200	$ 45
	Tray, 28 x 5 ml, Ø 12 mm		
5	TB 2	4532300	$ 45
	Tray, 16 x 15 ml, Ø 16 mm		
6	TB 3	4532400	$ 45
	Tray, 14 x 30 ml, Ø 25 mm		
7	TB 4	4532500	$ 45
	Tray, 10 x 50 ml, Ø 28 mm		

* Included in the delivery

Loopster accessories

		Ident. No.	Price
8	DS 1	4524000	$ 173
	Tube attachment, 48 x 1.5 ml, Ø 10 mm		
9	DS 2	4524100	$ 173
	Tube attachment, 24 x 5 ml, Ø 12 mm		
10	DS 3	4524200	$ 173
	Tube attachment, 20 x 15 ml, Ø 16 mm		
11	DS 4	4524300	$ 173
	Tube attachment, 12 x 30 ml, Ø 25 mm		
12	DS 5	4524400	$ 173
	Tube attachment, 12 x 50 ml, Ø 28 mm		
13	DS 6	4524500	$ 143
	Universal disc		
14	DS 6.1	4524600	$ 7
	Spare clips, Ø 10 mm, 12 pcs.		
15	DS 6.2	4524700	$ 7
	Spare clips, Ø 12 mm, 12 pcs.		
16	DS 6.3	4524800	$ 7
	Spare clips, Ø 16 mm, 12 pcs.		
17	DS 6.4	4524900	$ 7
	Spare clips, Ø 25 mm, 12 pcs.		
18	DS 6.5	4525000	$ 7
	Spare clips, Ø 28 mm, 12 pcs.		

Trayster accessories

		Ident. No.	Price
19	TR 1	4525100	$ 50
	Tube insert, 24 x 1.5 ml, Ø 10 mm		
20	TR 2	4525200	$ 50
	Tube insert, 24 x 5 ml, Ø 12 mm		
21	TR 3	4525300	$ 50
	Tube insert, 12 x 15 ml, Ø 16 mm		
22	TR 4	4525400	$ 50
	Tube insert, 6 x 50 ml, Ø 28 mm		

MS 3 basic / digital accessories

	Ident. No.	Price
MS 3.1	3426300	$ 44
Standard attachment		
MS 3.3	3426600	$ 44
Universal attachment		
MS 1.21	L001540	$ 21
One-hand insert		
MS 1.31	L001840	$ 41
Test tube insert, 14 x Ø 10 mm		
MS 1.32	L001850	$ 29
Test tube insert, 6 x Ø 12 mm		
MS 1.33	L001860	$ 28
Test tube insert, 4 x Ø 16 mm		
MS 1.34	L001830	$ 22
Test tube insert, without holes		
MS 3.4	3426400	$ 59
Microtiter plate attachment		
MS 3.5	3428000	$ 166
PCR plate attachment, 96-well		

VORTEX 3 accessories

		Ident. No.	Price
23	VG 3.1	3341201	$ 22
	Standard attachment		
24	VG 3.2	3342300	$ 28
	One-hand attachment, 88 mm		
	VG 3.21	4206500	on request
	Rubber pad, for VG 3.2 One-hand attachment		
25	VG 3.3	3342400	$ 28
	Universal attachment, 150 mm		
26	VG 3.31*	3344300	$ 75
	Test tube attachment for 54 Eppendorf tubes		
27	VG 3.32*	3343900	$ 41
	Test tube attachment, 18 x Ø 10 mm		
28	VG 3.33*	3344000	$ 38
	Test tube attachment, 12 x Ø 12 mm		
29	VG 3.34*	3344100	$ 38
	Test tube attachment, 8 x Ø 16 mm		
30	VG 3.35*	3344200	$ 38
	Test tube attachment, 8 x Ø 20 mm		
31	VG 3.36*	3342100	$ 69
	Erlenmeyer flask attachment, 100 – 250 ml		
32	VG 3.37*	3344400	$ 35
	Microtiter plate attachment		

*** Used with VG 3.3 Universal Attachment, ordered seperately**

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Shakers | Accessories

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VXR basic accessories

		Ident. No.	Price
33	VX 1 One-hand attachment, 1 – 250 ml	0607200	$ 137
34	VX 2 Test tube attachment, 36 x Ø 16 mm	0568900	$ 586
35	VX 2E Eppendorf attachment, 64 x 1.5 ml	1618100	$ 585
36	VX 7 Dish attachment, 410 x 210 mm	0953300	$ 424
37	VX 8 Universal attachment, 265 x 136 mm	0910400	$ 981
38	VX 11 Basic holder	3627700	$ 285
39	VX 11.1 Test tube insert, 70 x Ø 10 mm	3659000	$ 246
40	VX 11.2 Test tube insert, 41 x Ø 12 mm	3659100	$ 246
41	VX 11.3 Test tube insert, 32 x Ø 16 mm	3659200	$ 209
42	VX 11.4 Test tube insert, 18 x Ø 20 mm	3659300	$ 209
43	VX 8.1 Clamping roll	3375400	$ 90

KS 130 basic / control accessories

		Ident. No.	Price
44	AS 130.1 Universal attachment, set-up plate 220 x 220 mm	8017300	$ 237
45	AS 130.2 Fixing clip attachment, set-up plate 230 x 230 mm	3115000	$ 124
46	AS 130.3 Dish attachment, set-up plate 220 x 340 mm	3120000	$ 234
47	AS 130.4 Test tube attachment, 64 x Ø 10 – 16 mm	3120300	$ 237

KS / HS 260 basic / control and KS 3000 accessories

		Ident. No.	Price
48	AS 260.1 Universal attachment, set-up plate 320 x 320 mm	8017400	$ 237
49	AS 260.2 Fixing clip attachment,set-up plate 330 x 330 mm	3115500	$ 167
50	AS 260.3 Dish attachment, set-up plate 320 x 320 mm	3120600	$ 130
51	AS 260.5 Separating funnel attachment	3120900	$ 713

Shakers | Accessories

KS / HS 501 digital accessories

	Ident. No.	Price
AS 501.1	8000200	$ 1,387

Universal attachment, set-up plate 420 x 420 mm

AS 501.4	2341100	$ 1,323

Fixing clip attachment,set-up plate 450 x 450 mm

AS 501.5	2339600	$ 370

Dish attachment, set-up plate 420 x 420 mm

AS 501.2	8000300	$ 1,457

Separating funnel attachment, 480 x 505 x 190 mm

AS 501.3	8000400	$ 1,379

Separating funnel attachment, 480 x 505 x 190 mm

AS 501.6	8000500	$ 2,411

Separating funnel attachment, 480 x 505 x 225 mm

Other accessories

	Ident. No.	Price
AS 1.30	3148000	$ 589

Basic holder for AS 130.1

AS 1.60	3149000	$ 335

Basic holder for AS 260.1

AS 1.10	2339700	$ 1,243

Basic holder for AS 501.1

AS 1.31 | AS 1.61 | AS 1.11		
	3030500	$ 48
	3030501	$ 34
	2339800	$ 103

Clamping roll for AS 130.1, AS 260.1, AS 501.1

IKA®+

STICKMAX
Universal adhesive mat,
200 x 200 mm

Ident. No. 3920000
Price: $ 114

	Ident. No.	Price
AS 2.1	1234300	$ 22

Fixing clips, 25 ml

AS 2.2	1234400	$ 22

Fixing clips, 50 ml

AS 2.3	1234500	$ 22

Fixing clips, 100 ml

AS 2.4	1234600	$ 41

Fixing clips, 200 / 250 ml

AS 2.5	1234700	$ 41

Fixing clips, 500 ml

AS 2.6	3819300	$ 41

Fixing clips, 1000 ml

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KS 4000 accessories i / ic control accessories

		Ident. No.	Price
52	AS 4000.1	8022200	$ 1,877

Universal attachment, set-up plate 380 x 410 mm

53	AS 4000.2	3710100	$ 974

Fixing clip attachment, set-up plate 430 x 430 mm

54	AS 4000.3	3710000	$ 289

Dish attachment, set-up plate 430 x 430 mm

55	AS 1.400	3710200	$ 663

Basic holder for AS 4000.1

56	AS 1.401	3712000	$ 81

Clamping roll for AS 4000.1

57	AS 1.402	3712300	$ 20

Fastening screw for AS 4000.1

Dispersers

IKA®'s ULTRA-TURRAX® – used for homogenizing, emulsifying or suspending. The digital display allows you to keep track of the speed and the development of the products focused on a soft start of the motor. There is a broad spectrum of dispersing tools to choose from. Common disperser applications include: homogenization of effluent samples, dispersing tasks under vacuum pressure, and PCR analysis.

High-performance dispersing instrument!

> Works at high circumferential speeds
> Enables the best possible results for any application

reddot design award
winner 2012

Digital display for precise monitoring of set and actual speeds

Wide selection of dispersing tools to suit your application

Rotating knob for adjusting the speed

Motor protection against overload

Quick-connect coupling to exchange dispersing tools easily

ULTRA-TURRAX® Tube Drive

Patented

Technical data	UTTD ULTRA-TURRAX® Tube Drive	ULTRA-TURRAX® Tube Drive control
Motor rating input / output	20 / 17 W	20 / 17 W
Speed range / Turbo speed	300 – 6000 rpm / –	400 – 6000 rpm / 8000 rpm
Display / Speed display	– / scale	OLED / digital
Timer	–	10 s – 30 min (infinitely adjustable)
Reverse rotation interval	–	10 – 60 s
Dimensions (W x D x H)	100 x 40 x 160 mm	122 x 178 x 48 mm
Weight	0.75 kg	1.0 kg
Protection class DIN EN 60529	IP 20	IP 20
Interface	yes	yes
Voltage	100 – 240 V	100 – 240 V
Frequency	50/60 Hz	50/60 Hz
Price	$ 782	$ 967
	Ident. No. 3646000	Ident. No. 4135300

Included with delivery	UTTD Workstation	ULTRA-TURRAX® Tube Drive control Workstation
ULTRA-TURRAX® Tube Drive	1	1
ST-20 Tube with stirring device	2	1
DT-20 Tube with rotor-stator element	2	1
BMT-20 G /S Tube for grinding with glass (G) or stainless steel balls (S)	2	2
Removal hook for removal of rotor-stator	1	1
Power supply	1	1
Price	$ 888	$ 1,100
	Ident. No. 3645000	Ident. No. 3827500

No cleaning efforts
No cross-contamination
Reproducible test results

Tube Drive control

reddot design award winner 2012

Turbo function for short time intensive mixing, homogenizing or grinding

Built-in program library for tests to be repeated under identical conditions

Reverse rotation switch to optimize mixing and crushing performance

OLED-Display

Multilingual OLED display for simple and precise menu navigation

USB interface to control and document all the parameters using labworldsoft® software and for updating your firmware

Watch the video:
www.ika.com/video

ULTRA-TURRAX® Tube Drive | Accessories

ST Tube with stirring devices

	Ident. No.	Price
ST-20 (pack of 25)	3703000	$ 227
ST-20-M-gamma (pack of 20)	3700500	$ 310
ST-50 (pack of 10)	3699500	$ 118
ST-50-M (pack of 10)	3629500	$ 118
ST-50-M-gamma (pack of 10)	3701500	$ 264

DT Tube with rotor-stator element

	Ident. No.	Price
DT-20 (pack of 25)*	3703100	$ 227
DT-20-M-gamma (pack of 20)*	3700600	$ 310
DT-20 eco (pack of 25)**	0020003207	on request
DT-50 (pack of 10)*	3699600	$ 118
DT-50-M (pack of 10)*	3629600	$ 118
DT-50-M-gamma (pack of 10)*	3701600	$ 264
DT-50 eco (pack of 10)**	0020003213	on request

*** Rotor-stator element made with PEEK**
**** Rotor-stator element made with PSU**

BMT-S/G Tube for grinding with stainless steel (S) or glass (G) balls

	Ident. No.	Price
BMT-20-S (pack of 25)	3703200	$ 227
BMT-20-G (pack of 25)	3703300	$ 227
BMT-20-S-M-gamma (pack of 20)	3700700	$ 310
BMT-50-S (pack of 10)	3699700	$ 118
BMT-50-G (pack of 10)	3699800	$ 118
BMT-50-S-M (pack of 10)	3629700	$ 118
BMT-50-G-M (pack of 10)	3629800	$ 118
BMT-50-S-M-gamma (pack of 10)	3701700	$ 264

Cover for BMT tube

	Ident. No.	Price
TC-50; for 50 ml tubes (10 pcs.)	3749800	$ 96
TC-20-M; with pierceable membrane for 20 ml tubes (25 pcs.)	3749900	$ 96
TC-50-M; with pierceable membrane for 50 ml tubes (10 pcs.)	3750000	$ 96

Balls for BMT tube

	Ident. No.	Price
Glass balls Ø 6 mm (250 g)	3599200	$ 106
Stainless steel balls Ø 5 mm (250 g)	3599300	$ 106

T-series ULTRA-TURRAX® Dispersers

Watch the video:
www.ika.com/video

reddot design award winner 2012

reddot design award winner 2012

Dispersing tools are not included in delivery

Technical data	T 10 basic	T 18 digital	T 25 digital
Motor rating input / output	125 / 75 W	500 / 300 W	800 / 500 W
Volume range (H_2O)	0.5 – 100 ml	1 – 1500 ml	1 – 2000 ml
Viscosity max.	5000 mPas	5000 mPas	5000 mPas
Speed range	8000 – 30,000 rpm | 8000 – 26,000 rpm	3000 – 25,000 rpm	3000 – 25,000 rpm
Speed display	scale	LED	LED
Speed control	stepless	stepless	stepless
Noise without element	65 dB(A)	75 dB(A)	75 dB(A)
Extension arm diameter	8 mm	13 mm	13 mm
Extension arm length	130 mm	160 mm	160 mm
Process type	batch	batch	batch
Dimensions (W x D x H)	56 x 66 x 178 mm	87 x 106 x 271 mm	87 x 106 x 271 mm
Weight	0.5 kg	2.5 kg	2.5 kg
Perm. ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80 %	80 %	80 %
Protect. class DIN EN 60529	IP 30	IP 20	IP 20
Interface	no	no	no
Voltage	115 V	100 – 120 V	100 – 120 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Price	**$ 1,219**	**$ 1,047**	**$ 1,587**
	Ident. No. 3737001	Ident. No. 3720001	Ident. No. 3725001

Dispersing tools are not included in delivery

Technical data	T 50 digital	T 65 basic	T 65 digital
Motor rating input / output	1100 / 700 W	1800 / 1500 W	2600 / 2200 W
Volume range (H_2O)	0.25 – 30 l	2 – 50 l	2 – 50 l
Viscosity max.	5000 mPas	5000 mPas	5000 mPas
Speed range	600 – 10,000 rpm	7200 rpm (fixed)	1000 – 9500 rpm
Speed display	LED	–	LED
Speed control	stepless	fixed	stepless
Noise without element	72 dB(A)	75 dB(A)	75 dB(A)
Extension arm diameter	16 mm	flange	flange
Extension arm length	220 mm	flange	flange
Process type	batch	batch	batch
Dimensions (W x D x H)	115 x 139 x 355 mm	185 x 400 x 450 mm	300 x 400 x 390 mm
Weight	5.76 kg	26 kg	29 kg
Perm. ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80 %	80 %	80 %
Protect. class DIN EN 60529	IP 20	IP 54	IP 54
Interface	no	no	no
Voltage	100 – 120 V	3 x 230 V	3 x 230 V
Frequency	50/60 Hz	50 Hz	50/60 Hz
Price	**$ 2,811**	**$ 6,545**	**$ 7,012**
	Ident. No. 3787001	Ident. No. 4023501	Ident. No. 4234501

Dispersing tools

	T 10 basic	
Dispersing element	S 10 N – 8 G – ST	S 10 N – 10 G – ST
Ident. No.	4446500	4446700
Working range	1 – 50 ml	1 – 100 ml
Stator diameter	8 mm	10 mm
Rotor diameter	6.1 mm	7.6 mm
Gap between rotor and stator	0.25 mm	0.2 mm
Min. / max. immersion depth	20 / 95 mm	20 / 100 mm
Shaft length	115 mm	115 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L
Price	**$ 1,550**	**$ 1,550**
	1	2

	T 10 basic
Dispersing element	S 10 N – 5 G
Ident. No.	3304000
Working range	0.5 – 10 ml
Stator diameter	5 mm
Rotor diameter	3.8 mm
Gap between rotor and stator	0.1 mm
Min. / max. immersion depth	20 / 75 mm
Shaft length	92 mm
Materials in contact with medium	PTFE, AISI 316L
pH range	2 – 13
Suitable for solvents	yes
Max. temperature	180 °C
Sterilization methods	all methods
Price	**$ 1,562**
	3

S 10 N – 8 G	S 10 N – 10 G	S 10 D – 7 G – KS – 65	S 10 D – 7 G – KS – 110
3305500	3370100	0020002076 (24 pcs.)	0020002075 (24 pcs.)
1 – 50 ml	1 – 100 ml	1 – 20 ml	1 – 40 ml
8 mm	10 mm	7 mm	7 mm
6.1 mm	7.6 mm	4.8 mm	4.8 mm
0.25 mm	0.2 mm	0.3 mm	0.3 mm
20 / 95 mm	20 / 100 mm	20 / 50 mm	20 / 90 mm
115 mm	115 mm	65 mm	110 mm
PTFE, AISI 316L	PTFE, AISI 316L	Polycarbonate (PC) Polysulfon (PSU)	Polycarbonate (PC) Polysulfon (PSU)
2 – 13	2 – 13	–	–
yes	yes	–	–
180 °C	180 °C	100 °C	100 °C
all methods	all methods	yes, autoclavable	yes, autoclavable
$ 1,452	**$ 1,452**	**$ 646**	**$ 757**
4	5	6	7

	T 18 digital
Dispersing element	S 18 N – 10 G
Ident. No.	L004639
Working range	1 – 100 ml
Stator diameter	10 mm
Rotor diameter	7.5 mm
Gap between rotor and stator	0.35 mm
Min. / max. immersion depth	25 / 70 mm
Shaft length	108 mm
Materials in contact with medium	PTFE, AISI 316L
pH range	2 – 13
Suitable for solvents	yes
Max. temperature	180 °C
Sterilization methods	all methods
Price	**$ 1,171**
	8

S 18 N – 19 G	S 18 D – 10 G – KS	S 18 D – 14 G – KS
L004640	3452400 (12 pcs.)	3452300 (12 pcs.)
10 – 1500 ml	10 – 100 ml	10 – 500 ml
19 mm	10 mm	14 mm
12.7 mm	6.75 mm	9.5 mm
0.4 mm	0.25 mm	0.35 mm
35 / 170 mm	15 / 85 mm	15 / 85 mm
204 mm	150 mm	150 mm
PTFE, AISI 316L	Polycarbonate (PC) Polyetheretherketon (PEEK)	Polycarbonate (PC) Polyetheretherketon (PEEK)
2 – 13	–	–
yes	–	–
180 °C	100 °C	100 °C
all methods	yes, autoclavable	yes, autoclavable
$ 1,171	**$ 625**	**$ 625**
9	10	11

Disposable tube S 18 / 25-ET50

For attaching onto plastic tools from S 18 D and S 25 D series.

Ident. No.	3452500
Material	PP
Price	**$ 16**

Dispersing tools

IKA®+

Saw Tooth (ST) dispersing tools

> ST tools are recommended to use with tissue and other fibrous materials
> Saw tooth designs create a cutting and tearing action for shredding fibrous materials
> Made of high quality stainless steel

Dispersing element	T 25 digital			
Ident. No.	S 25 N – 8 G – ST	S 25 N – 10 G – ST	S 25 N – 18 G – ST	S 25 N – 25 G – ST
Working range	4446900	4447100	4447300	4447500
Stator diameter	1 – 50 ml	1 – 100 ml	10 – 1500 ml	50 – 2000 ml
Rotor diameter	8 mm	10 mm	18 mm	25 mm
Gap between rotor and stator	6.1 mm	7.5 mm	13.4 mm	20 mm
Min. / max. immersion depth	0.25 mm	0.35 mm	0.3 mm	0.5 mm
Shaft length	27 / 85 mm	22 / 85 mm	40 / 165 mm	40 / 165 mm
Materials in contact with medium	108 mm	105 mm	194 mm	194 mm
Price	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
	$ 1,264	$ 1,264	$ 1,620	$ 1,680
	12	13	14	15

Dispersing element	T 25 digital
Ident. No.	S 25 N – 8 G
Working range	1024200
Stator diameter	1 – 50 ml
Rotor diameter	8 mm
Gap between rotor and stator	6.1 mm
Min. / max. immersion depth	0.25 mm
Shaft length	27 / 85 mm
Materials in contact with medium	108 mm
pH range	PTFE, AISI 316L
Suitable for solvents	2 – 13
Max. temperature	yes
Sterilization methods	180 °C
Min. vacuum	all methods
Max. pressure	–
Price	–
	$ 1,256
	16

S 25 N – 10 G	S 25 N – 18 G	S 25 KV – 18 G	S 25 NK – 19 G
0594000	0593400	2348000	2494700
1 – 100 ml	10 – 1500 ml	10 – 1500 ml	25 – 1500 ml
10 mm	18 mm	18 mm	19 mm
7.5 mm	12.7 mm	12.7 mm	12.7 mm
0.35 mm	0.3 mm	0.3 mm	0.3 mm
22 / 85 mm	40 / 165 mm	40 / 225 mm	40 / 165 mm
105 mm	194 mm	270 mm	194 mm
PTFE, AISI 316L	PTFE, AISI 316L	FFPM / SIC, AISI 316L	PTFE, AISI 316L
2 – 13	2 – 13	2 – 13	2 – 13
yes	yes	yes	yes
180 °C	180 °C	220 °C	120 °C
all methods	all methods	wet chemical	wet chemical
–	–	1 mbar	–
–	–	6 bar	–
$ 1,370	$ 1,370	$ 3,106	$ 1,243
17	18		

Dispersing tools

	T 25 digital					
Dispersing element	S 25 N – 25 G	S 25 KV – 25 G	S 25 N – 25 F	S 25 KV – 25 F	S 25 D – 10 G – KS	S 25 D – 14 G – KS
Ident. No.	1713300	2466900	1713800	2404000	3452200 (12 pcs.)	3452100 (12 pcs.)
Working range	50 – 2000 ml	50 – 2000 ml	100 – 2000 ml	100 – 2000 ml	10 – 100 ml	10 – 500 ml
Stator diameter	25 mm	25 mm	25 mm	25 mm	10 mm	14 mm
Rotor diameter	17 mm	17 mm	18 mm	18 mm	6.75 mm	9.5 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.25 mm	0.35 mm
Min. / max. immersion depth	40 / 165 mm	40 / 225 mm	40 / 165 mm	40 / 225 mm	15 / 85 mm	15 / 85 mm
Shaft length	194 mm	270 mm	194 mm	270 mm	150 mm	150 mm
Materials in contact with medium	PTFE, AISI 316L	FFPM / SIC, AISI 316L	PTFE, AISI 316L	FFPM / SIC, AISI 316L	Polycarbonate (PC) Polyetheretherketon (PEEK)	Polycarbonate (PC) Polyetheretherketon (PEEK)
pH range	2 – 13	2 – 13	2 – 13	2 – 13	–	–
Suitable for solvents	yes	yes	yes	yes	–	–
Max. temperature	180 °C	220 °C	180 °C	180 °C	100 °C	100 °C
Sterilization methods	all methods	wet chemical	all methods	all methods	yes, autoclavable	yes, autoclavable
Min. vacuum	–	1 mbar	–	–	–	–
Max. pressure	–	6 bar	–	–	–	–
Price	$ 1,599	$ 3,220	$ 1,554	$ 3,220	$ 600	$ 600
	19		20		21	22

	T 25 digital			
Dispersing element	S 25 – KR – 18 G	S 25 – KR – 25 G	S 25 – KR – 18 G – ST	S 25 – KR – 25 G – ST	S 25 – KR – 25 F
Ident. No.	0020002971	0020002972	0020002973	0020002974	0020002975
Working range	10 – 1500 ml	50 – 2000 ml	10 – 1500 ml	50 – 2000 ml	100 – 2000 ml
Stator diameter	18 mm	25 mm	18 mm	25 mm	25 ml
Rotor diameter	12.7 mm	17 mm	13.4 mm	20 mm	18 mm
Gap between rotor and stator	0.3 mm	0.5 mm	0.25 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	40 – 185 mm	40 – 185 mm	40 – 185 mm	40 – 185 mm	40 – 185 mm
Shaft length	194 mm	194 mm	194 mm	194 mm	194 mm
Materials in contact with medium	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13	2 – 13	2 – 13
Suitable for solvents	no	no	no	no	no
Max. temperature	110 °C	110 °C	110 °C	110 °C	110 °C
Sterilization methods	wet chemical	wet chemical	wet chemical	wet chemical	wet chemical
Min vacuum	50 mbar	50 mbar	50 mbar	50 mbar	50 mbar
Price	on request	on request	on request	on request	on request

Silentstream

The flow breaker is used to prevent vortexing and to minimize air induction into the medium.

Ident. No. 0003754000

Fits the following dispersing elements:

S 25 N – 18 G	S 25 KV – 18 G
S 25 N – 25 G	S 25 KV – 25 G
S 25 N – 25 F	S 25 KV – 25 F
S 25 NK – 19 G	S 18 N – 19 G

TS 25-3

Cleaning tool for cleaning three dispersing elements. The cleaning tool consists of an aluminum stand, three cleaning tubes (PP) and three covers with openings (PP).

Ident. No. 0020003013

Material tubes	PP
Material lid	PP
Material stand	aluminum anodized
Price	on request

Fits the following dispersing elements:

- S 25 N – 18 G / 18 G – ST
- S 25 N – 25 G / F / 25 G – ST
- S 25 KR – 18 G / 18 G – ST
- S 25 KR – 25 G / 25 F / 25 G – ST
- S 25 KV – 18 G / 25 G / 25 F

Dispersing tools

Dispersing element	T 50 digital			
Ident. No.	8003000	8003300	8003900	8039500
Working range	0.5 – 20 l	0.5 – 15 l	0.25 – 10 l	0.5 – 20 l
Stator diameter	45 mm	45 mm	45 mm	45 mm
Rotor diameter	36 mm	40.5 mm	40 mm	36 mm
Gap between rotor and stator	0.5 mm	0.25 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	70 / 250 mm	70 / 250 mm	70 / 250 mm	70 / 250 mm
Shaft length	300 mm	290 mm	290 mm	300 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13	–
Suitable for solvents	yes	yes	yes	–
Max. temperature	180 °C	180 °C	180 °C	–
Sterilization methods	all methods	all methods	all methods	–
Price	$ 3,161	$ 3,735	$ 3,714	$ 3,047
	23	24	25	

Dispersing element	T 50 digital			
Ident. No.	8003200	0010000648	8003500	8004100
	0010000637	0010000640	0010000638	0010000639
Working range	0.5 – 20 l	0.5 – 20 l	0.5 – 15 l	0.25 – 10 l
Stator diameter	45 mm	45 mm	45 mm	45 mm
Rotor diameter	36 mm	38 mm	40.5 mm	40 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.25 mm	0.5 mm
Min. / max. immersion depth	70 / 260 mm	70 / 260 mm	70 / 250 mm	70 / 250 mm
Shaft length	300 mm	300 mm	300 mm	290 mm
Materials in contact with medium	1 mbar	1 mbar	1 mbar	1 mbar
	6 bar	6 bar	6 bar	6 bar
	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L
pH range	2 – 13	2 – 13	2 – 13	2 – 13
Suitable for solvents	yes	yes	yes	yes
Max. temperature	180 °C	110 °C	180 °C	180 °C
Sterilization methods	wet chemical	wet chemical	wet chemical	wet chemical
Price	$ 9,057 on request	on request on request	$ 9,650 on request	$ 9,677 on request

Dispersing element	T 50 digital			
Ident. No.	S 50 KG – HH – G 45 G S 50 KG – HH – G 45 G FDA	S 50 KG – HH – G 45 G - ST S 50 KG – HH – G 45 G - ST FDA	S 50 KG – HH – G 45 M S 50 KG – HH – G 45 M FDA	S 50 KG – HH – G 45 F S 50 KG – HH – G 45 F FDA

Dispersing element	T 50 digital			
Ident. No.	0010000633	0010000636	0010000634	0010000635
Working range	0.5 – 20 l	0.5 – 15 l	0.5 – 15 l	0.25 – 10 l
Stator diameter	45 mm	45 mm	45 mm	45 mm
Rotor diameter	36 mm	38 mm	40.5 mm	40 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.25 mm	0.5 mm
Min. / max. immersion depth	70 – 250 mm	70 – 250 mm	70 – 250 mm	70 – 250 mm
Shaft length	300 mm	300 mm	300 mm	300 mm
Materials in contact with medium	AISI 316L, bronze	AISI 316L, bronze	AISI 316L, bronze	AISI 316L, bronze
pH range	2 – 13	2 – 13	2 – 13	2 – 13
Suitable for solvents	yes	yes	yes	yes
Max. temperature	180 °C	180 °C	180 °C	180 °C
Sterilization methods	all methods	all methods	all methods	all methods
Price	on request	on request	on request	on request

Dispersing tools

T 50 digital

Dispersing element	S 50 KR – G 45 G	S 50 KR – G 45 G – ST	S 50 KR – G 45 M	S 50 KR – G 45 F
Ident. No.	0010000629	0010000632	0010000630	0010000631
Working range	0.5 – 20 l	0.5 – 20 l	0.5 – 15 l	0.25 – 10 l
Stator diameter	45 mm	45 mm	45 mm	45 mm
Rotor diameter	36 mm	38 mm	40.5 mm	40 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.25 mm	0.5 mm
Min. / max. immersion depth	70 – 260 mm	70 – 260 mm	70 – 260 mm	70 – 260 mm
Shaft length	300 mm	300 mm	300 mm	300 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13	2 – 13
Suitable for solvents	no	no	no	no
Max. temperature	110 °C	110 °C	110 °C	110 °C
Sterilization methods	wet chemical	wet chemical	wet chemical	wet chemical
Min. vacuum	100 mbar	100 mbar	100 mbar	100 mbar
Price	**on request**	**on request**	**on request**	**on request**

T 50 digital

Dispersing element	R 50 "high speed" stirring shaft	S 50 N – W 65 SK Cutting head	S 50 N – W 80 SMK Jet mixer head
Ident. No.	1689300*	8005100	8006300
Working range	0.25 – 30 l	1 – 10 l	1 – 50 l
Max. circumferential speed	15.7 – 23 m/s	–	–
Max. permissible rotor diameter	50 mm	–	–
Material	Stainless steel (AISI 316L)	–	–
Generator diameter	–	65 mm	80 mm
Min. / max. immersion depth	–	80 / 350 mm	140 / 350 mm
Available seals	–	S 50 N	S 50 N
Price	**$ 3,058**	**$ 4,397**	**$ 4,442**
	26	27	28

*** Included with delivery: R 1402 Dissolver Ident. No. 0001243300**

T 65 basic l digital

Dispersing element	S 65 KG – HH – G 65 G	S 65 KG – HH – G 65 M	S 65 KG – HH – G 65 F
Ident. No.	8005500	8005700	8005900
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator diameter	65 mm	65 mm	65 mm
Rotor diameter	58 mm	58 mm	58 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	90 / 450 mm	80 / 450 mm	80 / 450 mm
Shaft length	520 mm	510 mm	500 mm
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L
pH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	yes	yes	yes
Max. temperature	180 °C	180 °C	180 °C
Sterilization methods	wet chemical	wet chemical	wet chemical
Min. vacuum	1 mbar	1 mbar	1 mbar
Max. pressure	6 bar	6 bar	6 bar
Price	**$ 2,894**	**$ 2,985**	**$ 3,141**
	29	30	31

Dispersing tools

	T 65 basic I digital		
Dispersing element	S 65 KR – G 65 G	S 65 KR – G 65 M	S 65 KR – G 65 F
Ident. No.	0010000641	0010000642	0010000643
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator diameter	65 mm	65 mm	65 mm
Rotor diameter	53 mm	58 mm	58 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	90 – 450 mm	80 – 450 mm	80 – 450 mm
Shaft length	520 mm	520 mm	520 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	no	no	no
Max. temperature	80 °C	80 °C	80 °C
Sterilization methods	wet chemical	wet chemical	wet chemical
Min. vacuum	100 mbar	100 mbar	100 mbar
Price	**on request**	**on request**	**on request**

For dispersing instrument	Dispersing element Shaft / Agitator shaft	With seal or bearing type*	Generator or element**	With outer diameter (mm)	Degree of fineness achieved***
T 10 basic	S 10	N	–	5 / 8 / 10	G
T 18 digital	S 18	N	–	10 / 19	G
T 25 digital	S 25	N / KV / NK / KR	–	8 / 10 / 18 / 19 / 25	G / F
T 50 digital	S / R 50	N / B / KR	G / W	45 / 65 / 80	G / M / F
T 65 basic	S 65	KG – HH / KR	G	65	G / M / F
T 65 digital	S 65	KG – HH / KR	G	65	G / M / F

*N = PTFE bearing
KV = Ball bearing with vacuum-tight sliding-ring seal with silicon carbide seal rings
NK = PTFE bearing with additional ball bearing without seal
KG – HH = Ball bearing with sliding-ring seals of hard metal allow with FFPM seals rings
B = Bronze bearing
KR = Ball bearing with FKM or FFPM seal
**G = Proved configuration
W = Special element
***G = Coarse
M = Medium
F = Fine

magic LAB®

magic LAB®

Stainless Steel — Materials in contact with medium made of stainless steel

7 interchangeable modules available

Handy transport box with integrated power supply included in delivery

magic LAB® with module UTL

Technical data	magic LAB®
Motor power	900 W
Speed range (40 m/s)	3000 – 26,000 rpm
Operating voltage	220 – 240 V
Frequency	50 – 60 Hz
Process pressure	up to 2.5 bar
Product temperature in continuous operation	up to 80 °C
In short time operation (up to 18 min/h)	up to 120 °C
Materials in contact with the medium	Stainless steel (AISI 316L and AISI 316Ti)
Sealing material	PTFE-compound
Shaft sealing ring	Standard FPM
Elastomers in the working chamber	optional EPDM (FDA), FFPM
Dimensions (W x D x H)	170 x 270 x 215 mm
Price	**$ 12,105**
	Ident. No. U078310

magic LAB®

> Suitable for a wide range of applications

> Ideal for inline, circulating and classical batch processing

> Safe scale-up due to many constant work parameters

> Modular construction

> Simple heating and cooling of all modules

> Easy and quick exchange of the modules

> With rotor-stator systems operating at circumferential speeds up to 40 m/s

Multifunction storage and transportation box

One machine for many mixing tasks

The magic LAB® is a unique and multi-functional small-scale laboratory machine. It is designed for mixing, dispersing, wet milling and incorporation of powders into liquids.

The magic LAB® is most frequently used for the development of new products or for optimizing of existing process techniques, particularly in the chemical, cosmetic, pharmaceutical and food industries. It is an ideal machine for continuous, circulating and batch processing with interchangeable modules.

magic LAB®

magic LAB® with module UTC
Dispersing/mixing in batch operation

CMS Periphery
The integrated solution for wetting of most difficult powders

1 l module Micro-Plant
with exchangeable modules
(UTL / DR / MK / MKO)

2 l module Micro-Plant
with exchangeable modules
(UTL / DR / MK / MKO)

Three-stage dispersing for manufacturing of fine umulsions and suspensions.

Wet-milling by means of spiral gearing milling tool. Production of colloidal solutions. Adjustable flow rate and friction by setting the gap between the rotor and stator.

Wet-milling as with the MK-module. The cones are furnished with an abrasionre-sistant tungsten carbide-cobalt coating. Narrowest grinding gap enables producing of even finer suspensions.

Suction of solids into fluids in the recirculation process. Free from lumps and dust processing of powders and granules. Energy-efficient homogeneous mixing.

Continuous mixing and dispersion of powders in liquids. Patented process. Fast and homogeneous mixing in only one passage, avoiding agglomerates. Solids content up to 80%.

Technical data	Module DISPAX-REACTOR® DR	Module Colloid mill MK	Module Cone mill MKO	Module CMS	Module MHD (mixing, homogenising, dispersing)
Flow rate	80 l/h (H_2O)	200 l/h (H_2O)**	25 l/h (H_2O)**	1000 l/h (H_2O)**	60 l/h (H_2O)**
Standard rotational speed	14,600 rpm	14,600 rpm	14,600 rpm	11,000 rpm	14,600 rpm
Circumferential speed	23 m/s	23 m/s*	23 m/s*	19.5 m/s*	23 m/s*
Price	$ 1,660	$ 3,735	$ 3,736	$ 3,518	$ 3,656
	Ident. No. U078352	Ident. No. U076662	Ident. No. U079664	Ident. No. U075333	Ident. No. U075256

* At standard rotational speed and 50 Hz
** at minimal gap between the rotor and stator

Mills

IKA® introduces the world's first disposable grinding system for safe, instant and precise milling results. The disposable grinding chamber eliminates the possibility of cross-contamination and saves cleaning costs and time. Convenient to use while assuring high safety and reproducibility to cover a broad range of applications. One can also use dry ice to cool the sample. The Tube Mill control is patented, designed and manufactured exclusively by IKA®.

Tube Mill control

Safety — Dust-proof sealed housing High level of user safety

OLED Display — Clearly arranged, multi-lingual OLED display, Error code display

Speed Time — Adjustable safety speed and time

USB interface to control and document all the parameters and for up-dating your firmware

World's first!

> Disposable grinding chamber
> Stops cross-contamination
> No cleaning required
> Perfect milling results
> Large application range

Patented

reddot design award winner 2013

Mills

World´s first

reddot design award winner 2013

Watch the video:
www.ika.com/video

100ml chamber coming soon.
Please contact your IKA® representative for further information

Technical data	Tube Mill control
Motor rating input / output	100 / 80 W
Speed range	5000 – 25,000 rpm
Useful volume	40 ml
Duty cycle (ON / OFF)	5 s – 3 min (timer)
Circumferential speed	65 m/s
Max. feed hardness	5 Mohs
Max. feed grain size	10 mm
Grinding chamber material	Transparent plastic (PP)
Dimensions (W x D x H)	180 x 300 x 170 mm
Weight	2.7 kg
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 30
Price	$ 1,721
	Ident. No. 4180001*

* Two single grinding chambers are included in the delivery

Disposable grinding chamber, 40ml

	Ident. No.	Price
MT 40.10	4425000	$ 78
Disposable grinding chamber (10 pieces/pack)		
MT 40.100	0020001173	$ 668
Disposable grinding chamber (100 pieces/pack)		
MTC 40.100	0020001182	$ 71
Cover for MT 40		
MT 40.10 sterile	0020001984	$ 158
Disposable grinding chamber steril 40 ml (10 pieces)		
MT 40.100 sterile	0020001985	$ 1,469
Disposable grinding chamber steril 40 ml (100 pieces)		

Multiple grinding chamber, 40ml

	Ident. No.	Price
MMT 40	0020003165	$ 209
MMT 40.1 Stainless Steel package, includes 1 MMT 40 chamber, 25 sealings, 5 beaters, 5 couplings		
A-MMT 40.100	0020003378	$ 156
A-MMT 40.100 Abrasion Set Spare Parts, includes 100 sealings, 10 beaters, 10 couplings		

- Quiet operation
- Safety: Dust-proof sealed housing, High level of user safety
- Speed Time: Adjustable safety speed and time
- OLED Display: Clearly arranged, multi-lingual OLED display, Error code display
- Tube Mill control
- Interval: Interval operation available, Easy operation with touch keypad
- **USB interface** to control and document all the parameters and for updating your firmware

Cross-contamination free
No cleaning required
Precise milling results
Large application range

Mills

M 20

Removable, easy-to-clean, high-grade stainless steel chamber

Double-walled grinding chamber

NEW Q3/2015

Technical data	A 10 basic	A 11 basic	M 20 Universal mill
Motor rating input/output	300 / 240 W	160 / 100 W	620 / 260 W
Speed range	25,000 rpm (fixed)	28,000 rpm (fixed)	20,000 rpm (fixed)
Useful volume	50 ml	80 ml (optional 250 ml)	250 ml
Duty cycle (ON / OFF)	5 / 10 min	1 / 10 min	7 / 10 min
Overload protection	yes	yes	yes
Circumferential speed	72 m/s	53 m/s	72 m/s
Max. feed hardness	5 Mohs*	9 Mohs	9 Mohs
Max. feed grain size	6 mm	10 mm	7 mm
Grinding chamber material	stainless steel (AISI 14301)	stainless steel (AISI 316L)	stainless steel (AISI 316L)
Dimensions (W x D x H)	130 x 145 x 250 mm	85 x 85 x 240 mm	170 x 170 x 350 mm
Weight	2.9 kg	1.5 kg	6.6 kg
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 43	IP 21
Price	**on request**	**$ 1,517**	**$ 4,385**
	Ident. No. 4020701**	Ident. No. 2900001	Ident. No.1603603

* 9 Mohs with accessory beater/cutter M 22, A 10.3 or A 11.3
** A 10.1 and A 10.4 included in the delivery of all A 10 basic

A 11 basic

Quiet operation

Easily exchangeable beater / cutter

Universal mill | Microfine grinder

Technical data	MF 10 basic
Motor rating input/output	1000 / 500 W
Speed range	3000 – 6500 rpm
Speed display	no
Useful volume	max. 5 kg/h
Duty cycle (ON / OFF)	120 / 30 min
Overload protection	yes
Circumferential speed	22.5 m/s
Max. feed hardness	6 Mohs
Max. feed grain size	15 mm
Grinding chamber material	stainless steel (AISI 304)
Dimensions (W x D x H)	320 x 300 x 560 mm
Weight	11.9 kg (incl. MF 10.1)
Permissible ambient temperature	5 – 40 °C
Permissible relative moisture	80%
Protection class acc. to DIN EN 60529	IP 22
Price	**$ 3,054**
	Ident. No. 2836001

Technical data	MF 10.1 Cutting-grinding head MF 10.2 Impact-grinding head
Circumferential speed	22.5 m/s | 31.4 m/s
Max. granularity of task	max. 15 mm | max. 10 mm
Dimensions including MF 10 basic	320 x 300 x 560 mm | 320 x 300 x 450 mm
Weight including MF 10 basic	11.9 kg | 12.4 kg
Materials in contact with medium	stainless steel
Price	MF 10.1: **$ 2,186** MF 10.2: **$ 1,863**

1 MF 10.1
Cutting-grinding head
Ident. No. 2870900

2 MF 10.2
Impact-grinding head
Ident. No. 2871000

MF 10 basic

- Easily interchangeable heads
- Easy to clean working surface made of stainless steel
- Powerful drive

A 10 basic accessories	Ident. No.	Price
A 10.1	0025001680	on request
Stainless steel cutter		
A 10.2	0025001162	on request
Star-shaped cutter		
A 10.3	0025001161	on request
Hard metal cutter		
A 10.4	0025001664	on request
Grinding chamber reduction		

A 11 basic accessories	Ident. No.	Price
A 11.1	2904600	$ 57
Spare beater, stainless steel		
A 11.2	2905200	$ 138
Cutting blade, stainless steel		
A 11.3	2983000	$ 203
Beater, stainless steel, coated with chromium carbide		
A 11.4	2904100	$ 196
Grinding chamber, polycarbonate, 250 ml		
A 11.5	2983100	$ 265
Spare grinding chamber, Tefcel, 80 ml		
A 11.6	3302900	$ 400
Double beater, titanium		
AS 11.7	3048700	$ 327
Funnel, jacket PTFE, sieve stainless steel		

MF 10 basic accessories	Ident. No.	Price
MF 0.25	2938900	$ 359
Sieve, Ø 0.25 mm		
MF 0.5	2939000	$ 359
Sieve, Ø 0.5 mm		
MF 1.0	2939200	$ 359
Sieve, Ø 1 mm		
MF 2.0	2939400	$ 359
Sieve, Ø 2 mm		
MF 3.0	2939500	$ 359
Sieve, Ø 3 mm		
MF 4.0	2939600	$ 608
Sieve, Ø 4 mm		

M 20 accessories	Ident. No.	Price
M 21	0328200	$ 100
Spare cutter, stainless steel		
M 22	0521800	$ 489
Hard metal cutter, tungsten carbide		
M 23	1443400	$ 391
Star-shaped cutter, stainless steel		
M 20.1	8006200	$ 3,225
Grinding chamber, 250 ml		

Universal mill | Pilotina

IKA® +

The IKA® Pilotina can be used for a great variety of milling functions in a diverse range of industrial tasks.

The universal 2 in 1 mill for dry products

The cutting mill system
The preeminent choice for the disintegration of smooth, sticky, elestic or fibrous materials.

The impact milling system
The foremost option for the disintegration of hard and brittle materials.

Technical data	Pilotina MU	Pilotina MC	Pilotina MI
Motor power	3 kW	1.5 kW	1.5 kW
Speed range	1500 – 4500 rpm	1500 rpm	3000 rpm
Speed indication	digital	no	no
Capacity (depending on the final fineness)	approx. 60 – 80 kg/h	approx. 60 kg/h	approx. 80 kg/h
Overload protection	yes	yes	yes
Circumferential speed	9 – 34 m/s	9 m/s	22 m/s
Max. charging hardness	3 or 6 Mohs	3 Mohs	6 Mohs
Approx. max. charging size	65 x 60 or 25 mm	65 x 60 mm	25 mm
Dimensions, approx. (L x W x H)	485 x 575 x 700 mm	485 x 575 x 700 mm	485 x 575 x 630 mm
Weight, approx.	80 kg	70 kg	70 kg
Protection type	IP 55	IP 55	IP 55
Price	**$ 34,956**	**$ 24,200**	**$ 26,530**
	Ident. No. U105421	Ident. No. U106466	Ident. No. U106465

Pilotina

Easily interchangeable funnels

Easy conversion from a cutting mill to an impact mill

Circumferential speed adjustable to requirements of the milling process

Safe design of inlet and outlet

Universal 2 in 1 Mill for dry products

The IKA® Pilotina is a dry milling system in pilot plant scale, available in 3 different configurations. The modular design allows an easy modification from impact to cutting mill and vice versa within shortest time. Your advantage: one machine, two milling principles, all this without making any compromise regarding disintegration quality. Due to the powerful, frequency controlled 3 kW drive with digital indication the circumferential speed of the tool can be adjusted to the required milling process in an optimum way.

Dry Block Heaters

IKA® has a diverse range of dry block heaters designed to accommodate various interchangeable heating blocks. They provide precise temperature control for reproducible results. These digital block heaters are ideal for melting and boiling point determination, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture media tests, coagulation tests, blood urea- nitrogen determinations and in situ hybridizations.

Dry Block Heater 3

Precise temperature control!

> Bushing acc. to DIN 12878
> Rapid heat up rates
> Exceptional temperature uniformity
> PT 1000.60 temperature sensor included in the delivery

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

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

External probe for accurate temperature control

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

Dry Block Heaters

IKA® dry block heaters are very versatile and suitable for a broad range of applications.

> DNA extractions
> DNA analysis
> Melting point determination
> Boiling point determination
> Immunoassays
> Enzyme reactions
> Enzymatic processes
> Enzyme activity studies
> In situ hybridization
> Blood-urea-nitrogen determinations
> Nucleic acid hybridization
> Coagulation studies
> Biochemical processes
> Incubation and activation of cultures
> Blood examinations
> Fertile ground processing
> Restriction digest
> Denaturation

IKA®+

PT 1000.60 temperature sensor included in the delivery.

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	165 W	250 W	330 W	412 W
Heating temperature range	RT +5 °C to 120 °C	RT +5 °C to 120 °C	RT +5 °C to 120 °C	RT +5 °C to 120 °C
Display	LED	LED	LED	LED
Heat control accuracy	± 1 K	± 1 K	± 1 K	± 1 K
Connection for external 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
Price	$ 855	$ 943	$ 1,128	$ 1,241
	Ident. No. 4025101*	Ident. No. 4025201*	Ident. No. 4025301*	Ident. No. 4025401*

*** PT 1000.60 Temperature sensor included in the delivery of all the Dry Block Heaters**

Dry Block Heaters | Accessories

Single blocks (95 x 76 x 51)	Holes ø	No. of holes	Hole depth (mm)	Ident. No.	Price
Micro centrifuge tubes					
DB 1.1 Single block, PCR tubes, 0.5 ml	Ø 7.9 mm	30	27.6	4467600	$ 132
DB 1.2 Single block, Eppendorf tubes, 1.5 ml	Ø 11.5 mm	20	36.9	4467700	$ 110
DB 1.3 Single block, Microtubes, 1.5 ml	Ø 11.1 mm	20	39.1	4467800	$ 110
DB 1.4 Single block, Eppendorf tubes, 2.0 ml	Ø 11.5 mm	20	38.1	4467900	$ 110
DB 1.5 Single block, Corning tubes, 2.0 ml	Ø 10.9 mm	20	38.1	4468000	$ 110
Conical bottom centrifuge tubes					
DB 2.1 Single block, Conical tubes, 15 ml	Ø 17.1 mm	12	44.5	4468100	$ 132
DB 2.2 Single block, Conical tubes, 50 ml	Ø 29.0 mm	5	47.6	4468200	$ 131
Combination blocks					
DB 3.1 Single block, test tube combination, 6 / 12 / 13 / 25 mm	Ø 8.3 / Ø 13.9 / Ø 26.2 mm	6 / 5 / 3	48.4 / 48.4 / 48.4	4468300	$ 130
DB 3.2 Single block, centrifuge combination, 1.5 / 15 / 50 ml	Ø 11.1 / Ø 17.1 / Ø 29.0 mm	4 / 3 / 2	39.1 / 44.5 / 47.6	4468400	$ 130
DB 3.3 Single block, microtube combination, 0.5 / 1.5 / 2 ml	Ø 7.9 / Ø 11.1 / Ø 11.5 mm	6 / 10 / 5	27.6 / 39.1 / 38.1	4468500	$ 132
Standard test tubes					
DB 4.1 Single block, Round tubes, 6 mm	Ø 8.3 mm	30	48.4	4468600	$ 144
DB 4.2 Single block, Round tubes, 10 mm	Ø 10.7 mm	24	48.4	4468700	$ 135
DB 4.3 Single block, Round tubes, 12 / 13 mm	Ø 13.9 mm	16	48.4	4468800	$ 132
DB 4.4 Single block, Round tubes, 12 / 13 mm	Ø 13.9 mm	20	48.4	4468900	$ 135
DB 4.5 Single block, Round tubes, 15 / 16 mm	Ø 17.5 mm	12	48.4	4469000	$ 129
DB 4.6 Single block, Round tubes, 20 mm	Ø 21 mm	8	48.4	4469100	$ 132
DB 4.7 Single block, Round tubes, 25 mm	Ø 26.2 mm	6	48.4	4469200	$ 130
DB 4.8 Single block, Round tubes, 35 mm	Ø 35 mm	4	47.6	4469300	$ 131
DB 4.9 Single block, Round tubes, 17 / 18 mm	Ø 19.1 mm	12	48.4	4469400	$ 128
Vials					
DB 5.1 Single block, 12 mm vials	Ø 12.7 mm	20	30.0	4469500	$ 132
DB 5.2 Single block, 15 mm vials	Ø 15.8 mm	20	35.0	4469600	$ 132
DB 5.3 Single block, 17 mm vials	Ø 17.8 mm	12	45.0	4469700	$ 132
DB 5.4 Single block, 19 mm vials	Ø 19.7 mm	12	45.0	4469800	$ 128
DB 5.5 Single block, 21 mm vials	Ø 21.7 mm	9	45.0	4469900	$ 128
DB 5.6 Single block, 23 mm vials	Ø 23.8 mm	8	45.0	4470000	$ 128
DB 5.7 Single block, 25 mm vials	Ø 25.8 mm	8	45.0	4470100	$ 128
DB 5.8 Single block, 28 mm vials	Ø 28.8 mm	6	45.0	4470200	$ 128
DB 5.9 Single block, 16 mm vials	Ø 16.4 mm	15	45.0	4470300	$ 128
PCR - plates, tubes, strips					
DB 6.1 Single block, 10 x 8 PCR tube strips, 0.2 ml tubes	Ø 6.4 mm	80	15.5	4470400	$ 128
DB 6.2 Single block, 64 PCR tubes, 0.2 ml tubes	Ø 6.4 mm	64	20.2	4470500	$ 131
DB 6.3 Double block, 1 x 96-well PCR plate, 0.2 ml tubes	Ø 6.4 mm	96	15.5	4470600	$ 148
Cuvettes					
DB 8.1 Single block, 2 x 6 cuvettes, 12.5 mm			25.4	4470700	$ 131

Double block (95 x 152 x 57)	Holes ø	No. of holes	Hole depth (mm)	Ident. No.	Price
Microtitre plates					
DB 7.1 Double block, 96- or 384-Well-Platte			13.5	4470800	$ 152

Temperature sensors	Ident. No.	Price
PT 1000.60		
PT 1000.90		

	Ident. No.	Price
Temperature sensor, stainless steel, Ø 3 mm	3516800	$ 169
Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm	4480600	$ 184

Hotplates

IKA® hotplates allow for safe heating and tempering. The set-up plate is made from glass ceramics that ensures the best possible chemical resistance. The hotplates offer a high level of safety due to a fixed safety circuit, the Hot Top indicator, and the error code display. An electronic temperature sensor may be connected for precise temperature control.

C-MAG HP 7

Elevated control panel
for protection against spilled liquids

Hot top indicator
to prevent burns

LED digital display
for precise temperature setting

Ceramic set-up plate offers excellent chemical resistance to acid, bases and solvents

Technical data	C-MAG HP 4	C-MAG HP 7	C-MAG HP 10
Temperature display	digital	digital	digital
Heat output	250 W	1000 W	1500 W
Heating rate	2.5 K/min	5 K/min	5 K/min
Temperature range	50 – 500 °C	50 – 500 °C	50 – 500 °C
Setting accuracy	± 5 K	± 5 K	± 5 K
Safety circuit fixed	550 °C	550 °C	550 °C
Control accuracy with sensor	–	ETS-D5 / ± 0.5 K	ETS-D5 / ± 0.5 K
Heating plate material	glass ceramic	glass ceramic	glass ceramic
Weight	3 kg	5 kg	6 kg
Dimensions (W x D x H)	150 x 260 x 105 mm	220 x 330 x 105 mm	300 x 415 x 105 mm
Price	$ 351	$ 484	$ 647
	Ident. No. 3581601	Ident. No. 3581801	Ident. No. 3582001

Heating baths

IKA® heating baths are developed with a strong focus on safety. All baths are equipped with a double jacket to protect against burns and a safety temperature monitor keeps the bath from over heating. After turning on the unit every time, the safety functions are automatically checked.

HB 10

Digital Display — LCD digital display for precise temperature setting

Key-button with locking function for the heating bath temperature

Integrated ergonomic carrying handles

Technical data	HB 10	HBR 4 digital
Heat output	1300 W	1000 W
Temperature range	RT – 180 °C	RT – 200 °C
Setting tolerance	± 1 K	± 1 K
Deviation (3 l H_2O, 90 °C)	± 1 K	± 1 K
Temperature display	digital	digital
Volume	3 L	5 L
Safety class acc. to DIN 12877	2	2
Adjustable safety circuit min / max	50 °C / 190 °C	–
Material	stainless steel 1.4301	stainless steel (AISI 304)
Weight	3 kg	4.4 kg
Dimensions (W x D x H)	290 x 190 x 265 mm	–
Price	**$ 1,394**	**$ 2,699**
	Ident. No. 4068001	Ident. No. 2602301

HBR 4 digital accessories	Ident. No.	Price
H 240	2858700	$ 656
Ring set		
H 159	1809700	$ 311
Intermediate bottom		

Temperature control

Watch the video:
www.ika.com/video

IKA® temperature control systems ensure the safe and precise temperature control of liquids. The immersion circulators temper liquids up to 100° C. Able to withstand a powerful heat output of 1500 W, IKA® circulators are safe to use with all standard bath vessels. The products control the temperature from 28 to 300° C and are fully geared towards safety and comfort. Intelligent features of the immersion and heating bath circulators include: plug & play technology, digital display, easy control, set point limiting, and a visual/acoustic alarm.

IC control

Powerful immersion circulator heads

> Temperature range: RT – 250 °C
> Powerful pressure / suction pump
> Adjustable safety circuit

Integrated pressure / suction pump allows flexibility for internal and external applications

Flexible bath bridge enables easy mounting on different water bath sizes

Large easy-to-read TFT display

Removable wireless controller (WiCo) for easy and safe operation up to 10 m

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

Temperature control

Technical data	ICC basic | control	IC basic | control
Appliance type	compact immersion circulator	immersion circulator
Heater capacity (230 / 115 V)	2000 / 1000 W	2500 / 1250 W
Temperature range	RT +10°C – 150 °C | RT +10°C – 150 °C (20 °C with cooling coil*)	RT +10°C – 200 °C | RT +10°C – 250 °C (20 °C with cooling coil*)
Temperature display	LED | TFT	LED | TFT
Temperature stability DIN 12876	± 0.02 K | ± 0.01 K	± 0.02 K | ± 0.01 K
Bath volume range	depends on used bath	depends on used bath
Max. flow rate (at 0 bar)	18 l/min	26 l/min | 31 l/min
Max. pump pressure	0.3 bar	0.45 bar | 0.61 bar
Min. suction pressure	0.2 bar	0.35 bar | 0.45 bar
Dimensions (W x D x H)	147 x 158 x 340 mm	245 x 260 x 300 mm
USB interface	yes	yes
Price	$ 939 | $ 1,099	$ 1,499 | $ 1,899
	Ident. No. 0020002272 Ident. No. 0020002273	Ident. No. 3861001 Ident. No. 3863001**

*** Lower working temperatures possible with connection to a chiller**
**** PT 100.30 and CC 1 Cooling Coil included in delivery**

Temperature control | Packages

Description	Package name	Ident. No.	Price
Open heating bath circulator	ICC basic eco 8*	0010000853	$ 1,547
	ICC basic pro 9	0010000851	$ 1,717
	ICC basic eco 18*	0010000475	$ 1,693
	ICC basic pro 12	0010000473	$ 1,778
	ICC basic pro 20	0010000477	$ 1,899
Open heating bath circulator	ICC control eco 8*	0010000849	$ 1,707
	ICC control pro 9	0010000847	$ 1,877
	ICC control eco 18*	0010000481	$ 1,853
	ICC control pro 12	0010000479	$ 1,938
	ICC control pro 20	0010000483	$ 2,059
Open heating bath circulator with cover**	ICC basic eco 8 c*	0010000854	$ 1,947
	ICC basic pro 9 c	0010000852	$ 2,117
	ICC basic eco 18 c*	0010000476	$ 2,225
	ICC basic pro 12 c	0010000474	$ 2,310
	ICC basic pro 20 c	0010000478	$ 2,431
Open heating bath circulator with cover**	ICC control eco 8 c*	0010000850	$ 2,107
	ICC control pro 9 c	0010000848	$ 2,277
	ICC control eco 18 c*	0010000482	$ 2,301
	ICC control pro 12 c	0010000480	$ 2,470
	ICC control pro 20 c	0010000484	$ 2,507
Open heating bath circulator with cover	IC basic eco 18 c*	0010000468	$ 2,602
	IC basic pro 12 c	0010000467	$ 2,647
	IC basic pro 20 c	0010000469	$ 2,808
Open heating bath circulator with cover	IC control eco 18 c*	0010000471	$ 2,823
	IC control pro 12 c	0010000470	$ 2,868
	IC control pro 20 c	0010000472	$ 3,029

*** Maximum Temperature 100 °C**

Package details on page 162

Temperature control

Technical data	HBC 5 basic | control	HBC 10 basic | control	RC 2 basic | control
Appliance type	Heating bath circulator	Heating bath circulator	Recirculating chiller
Safety class	III (FL)	III (FL)	–
Cooling capacity at 20°C	–	–	400 W
Heater capacity (230 / 115 V)	2500 / 1250 W	2500 / 1250 W	–
Temperature range	RT +10°C – 200 °C | RT +10°C – 250 °C (with integrated cooling coil*)	RT +10°C – 200 °C | RT +10°C – 250 °C (with integrated cooling coil*)	-20 – 40 °C
Temperature display	LED | TFT	LED | TFT	LED | TFT
Temperature stability DIN 12876	± 0.02 K | ± 0.01 K	± 0.02 K | ± 0.01 K	± 0.5 K
Bath volume range	5 – 7 l	8 – 11 l	1.4 – 4 l
Max. flow rate (at 0 bar)	26 l/min | 31 l/min	26 l/min | 31 l/min	18 l/min
Max. pump pressure	0.45 bar | 0.61 bar	0.45 bar | 0.61 bar	0.3 bar
Min. suction pressure	0.35 bar | 0.45 bar	0.35 bar | 0.45 bar	0.2 bar
Dimensions (W x D x H)	275 x 500 x 405 mm	275 x 510 x 455 mm	220 x 526 x 480 mm
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
Protection class acc. to DIN EN 60529	IP 21	IP 21	IP 21
USB / RS 232 interface	yes	yes	yes
Price	**$ 1,990 | $ 2,499**	**$ 2,099 | $ 2,599**	**$ 2,299 | $ 2,579**
	Ident. No. 4125001 Ident. No. 4127001	Ident. No. 4135001 Ident. No. 4137001	Ident. No. 4171001 Ident. No. 4173001

* Lower working temperatures possible with connection to a chiller

EH 4 basic Immersion thermostat
EH 4.1 Bath vessel 5 l
EH 4.2 Bath vessel 11 l
EH 4.3 Bath vessel 18 l

Price:
$ 1,219 \| $ 342 \| $ 573 \| $ 647

EH 4 basic
Ident. No. 3164001
EH 4.1 Bath vessel 5 l
Ident. No. 3335000
EH 4.2 Bath vessel 11 l
Ident. No. 3335100
EH 4.3 Bath vessel 18 l
Ident. No. 3335200

HBC 5 control

Integrated pressure / suction pump allows flexibility for internal and external applications

Precise temperature stability ± 0.01 K

Removable **wireless controller (WiCo)** for easy and safe operation up to 10 m

DESIGN AWARD 2015

Integrated handles for easy carrying

Optical and acoustic warning function e.g. for over heating

Temperature Control | Accessories

Accessories EH 4 Immersion circulator

	Ident. No.	Price
EH 4 basic	3164001	$ 1,219
Immersion circulator		
EH 4.1	3335000	$ 342
Bath vessel, 5 l		
EH 4.2	3335100	$ 573
Bath vessel, 11 l		
EH 4.3	3335200	$ 647
Bath vessel, 18 l		

Accessories IC

	Ident. No.	Price
(5) CM.IC	4577600	$ 130
Cover, medium for IC, 12 l bath vessels		
(6) CL.IC	4471800	$ 170
Cover, big for IC, 18/20 l bath vessels		
(7) BS.IC	4472800	$ 161
Bridge, small for IC, 12/18/20 l bath vessels		
CC1	0020005116	$ 99
Cooling coil for IC basic + control		

Bath vessel

	Ident. No.	Price
(1) IKA® IB eco 8*	4248100	$ 423
Bath vessel, plastic, 8 l, size S		
(2) IKA® IB eco 18*	4248200	$ 593
Bath vessel, plastic, 18 l, size L		
(3) IKA® IB pro 9	4248500	$ 593
Bath vessel, stainless steel, 9 l, size S		
IKA® IB pro 12	4577500	$ 678
Bath vessel, stainless steel, 12 l, size M		
(4) IKA® IB pro 20	4248600	$ 799
Bath vessel, stainless steel, 20 l, size L		

*** Maximum temperature 100 °C**

Accessories ICC

	Ident. No.	Price
(8) CS.ICC	4471500	$ 122
Cover, small for ICC, 8/9 l bath vessels		
(9) CM.ICC	0025000290	$ 130
Cover, medium for ICC, 12 l bath vessels		
(10) CL.ICC	4471600	$ 170
Cover, big for ICC, 18/20 l bath vessels		
(11) BS.ICC	0020003077	$ 161
Bridge, small for ICC, 8/9 l bath vessels		
(12) BL.ICC	0020003078	$ 161
Bridge, big for ICC, 18/20 l bath vessels		
(13) CC2	0025001061	$ 99
Cooling coil for ICC		
(14) PCS.ICC	4471900	$ 99
Pump connection set for ICC		

Thermofluids

	Ident. No.	Price
HF.Si.20.250.50A	0020003521	on request
Heating fluid Si250A; 10 kg		
HF.Si.20.200.50	0020003520	on request
Heating Fluid Si200; 10 kg		
UF.Si.N30.150.10LV	0020003518	on request
Universal fluid Si150 LV; 9 kg		
CF.EG39.N30.80.22	0020003522	on request
Cooling fluid EG30; 10.6 kg		
CF.EG100	0020004883	on request
Cooling fluid EG 100%; 10.6 kg		

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Hoses

	Ident. No.	Price
(15) LT 5.20	2606700	$ 850
Hose, insulated, stainless steel, Ø 10 mm, 150 mm, 2 pcs.		
LT 5.21	0020000988	$ 699
Hose, insulated, PTFE, Ø 13 mm, 150 mm, 2 pcs.		
(16) H.PVC.8	4568800	$ 3
Hose, PVC, Ø 8 mm, 150 mm, 2 pcs.		
H.PVC.12	4568900	$ 3
Hose, PVC, Ø 12 mm, 150 mm, 2 pcs.		
(17) H.SI.8	4569000	$ 9
Hose, silicone, Ø 8 mm, 150 mm, 2 pcs.		
H.SI.12	4569100	$ 16
Hose, silicone, Ø 12 mm, 150 mm, 2 pcs.		
(18) H.PUR.8.R	0020004612	on request
Hose, PUR, Ø 8 mm, 150 mm, 2 pcs.		
H.PUR.12	0020004613	on request
Hose, PUR, Ø 12 mm, 150 mm, 2 pcs.		
(19) H.FKM.8	4569200	$ 110
Hose, FKM, Ø 8 mm, 150 mm, 2 pcs.		
H.FKM.12	4569300	$ 134
Hose, FKM, Ø 12 mm, 150 mm, 2 pcs.		

Insulation for hoses

	Ident. No.	Price
(20) ISO.8	4569400	$ 8
Insulation, Ø 8 mm		
(21) ISO.12	4569500	$ 12
Insulation, Ø 12 mm		

Tube Racks

	Ident. No.	Price
TubeRack.S. Type1.V4A.fit	0020004026	on request
Stainless steel rack for bath size S, 57 x ø13 mm		
TubeRack.S. Type2V4A..fit	0020004027	on request
Stainless steel rack for bath size S, 37 x ø17 mm		
TubeRack.S. Type3.V4A.fit	0020004028	on request
Stainless steel rack for bath size S, 22 x ø22 mm		
TubeRack.L. Type1.V4A.fit	0020004029	on request
Stainless steel rack for bath size L, 73 x ø13 mm		
TubeRack.L. Type2.V4A.fit	0020004030	on request
Stainless steel rack for bath size L, 47 x ø17 mm		
TubeRack.L. Type3.V4A.fit	0020004031	on request
Stainless steel rack for bath size L, 30 x ø22 mm		

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Floating racks

	Ident. No.	Price
Floating tube rack Type 1	0020003667	on request
Floating tube rack for 24 x 1.5/2.0 ml tubes, 5 psc.		
Floating tube rack Type 2	0020003668	on request
Floating tube rack fo 8 x 15 ml tubes, 5 psc.		
Floating tube rack Type 3	0020003669	on request
Floating tube rack for 4 x 50 ml tubes, 5 psc.		

Magnetic valves

	Ident. No.	Price
MV 1	0020003763	$ 423
Magnetic valve for cooling water control Max 100°C		
CO V 1	0020000249	$ 729
Closed pressure valve for external pump conection Set. Max. 180°C		
(22) Ball valve M16x1	0020004620	on request
Ball valve, complete opend (M 16 x 1)		
Mechanic fluid level controller	0020004618	on request
Mechanic fluid level controller		

Adapters

	Ident. No.	Price
(23) Elbow tube 90°	0025001212	on request
Elbow tube 90°		
(24) Olive for DN 6 hoses	0020004667	on request
Olive for DN 6 hoses 2 pcs.		
(25) Olive for DN 8 hoses	0020004566	on request
Olive for DN 8 hoses 2 pcs.		
Olive for DN 12 hoses	0020004889	on request
Olive for DN 12 hoses 2 pcs.		
Olive for DN 10 hoses	0020004568	on request
Olive for DN 10 hoses 2 pcs.		
Adapter NTP 1/4	0020004569	on request
Adapter M16 to NPT 1/4 2 pcs.		
Adapter NTP 1/2	0020004570	on request
Adapter M16 to NPT 1/2 2 pcs.		
Adapter NTP 3/4	0020004571	on request
Adapter M16 to NPT 3/4 2 pcs.		
Lock nut (2 pcs.)	0020004583	on request
Lock nut 2 pcs		
(26) Stopper (2 pcs.)	0020004584	on request
Stopper 2 pcs.		

Additional Accessories

	Ident. No.	Price
WH10	0020000984	$ 30
WiCo holder		
(27) PT 100.30	0004284700	on request
Temp. sensor, stn. steel		
Hollow balls, PP	0020003666	on request
Hollow balls, PP, 500 pieces		

Centrifuge

IKA® mini G

- Integrated quick stop
- Adjustable digital timer
- Rotor exchangeable without tools
- Quiet operation
- Special safety features
- Touch keypad for easy operation

Technical data	IKA® mini G
Capacity	8 x 2.0 ml
Permitted density	1.2 kg / dm³
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
Price	$ 328
	Ident. No. 3958000

IKA® micro centrifuge is ideal for applications which do not require ultra high speeds e.g., micro-filtrations and cell separations. The centrifuge features a compact design and a small footprint. A transparent lid allows for constant observation of the centrifuge which can be used with both microcentrifuge and PCR strip tubes. As a safety feature, the IKA® mini G will only operate when the lid is closed.

	Accessories included in the delivery	Ident. No.
1	Rotor 8 x 1.5 / 2 ml	3918500
2	Rotor 4 x strip 8 x 0.2 ml	4531300
3	Adapter set 0.5 ml x 8	4470900
4	Adapter set 0.4 ml x 8	4470901
5	Adapter set 0.2 ml x 8	4470902

Rotary Evaporators

Watch the video:
www.ika.com/video

IKA® rotary evaporators set new standards for safety, efficiency and ease of use. These products offer excellent distilling solutions. All IKA® RV 10 evaporators are equipped with an automated lift including a safety stop function. More safety features are: interval operation, smooth start, end position recognition, automated lift-out in case of power outage as well as a timer function.

Efficient & safe distillation!

> Automated management of cooling water
> Automated venting after process end
> Automated management of Heating bath controls

RV 10 control

Two digital displays for an optimal overview

Can be moved by 140 mm to accommodate different flasks

Adjustable immersion angle and height

IKA® Patent
Volume controlled distillation!

Rotary Evaporators

Best-in-class cooling surface 1500 cm²

V: Rotary evaporator with set of vertical glassware
V-C: Rotary evaporator with set of vertical coated glassware
FLEX: Rotary evaporator without any glassware (condenser, evaporation and receiving flask); either use pre-existing IKA® glassware or order seperately
Dry Ice: Rotary evaporator with dry ice condensor glassware set

	RV 8
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
Soft start	yes
Head angle adjustable	0 to 45°
Stroke displacement	120 mm, manual
Setting of lower end stop	no
Vacuum controller	optional
General data	
Dimensions (W x D x H)	510 x 345 x 490 mm
Weight of the drive incl. heating bath without glass parts	17.2 kg
Permissible ambient temperature	5 to 40 °C
Permissible relative moisture	80%
Protection class according to DIN EN 60529	IP 20
Voltage / Frequency	110 – 120 V / 50/60 Hz
Price	$ 3,052 | $ 3,465 | $ 3,680 | $ 2,441

RV 8 V Ident. No. 8033901
RV 8 V-C Ident. No. 8034301
RV 8 Dry Ice Ident. No. 0010000403
RV 8 FLEX Ident .No. 8033501

Package details on page 164

The new RV 8 offers an effortless manual lifting mechanism. The ambidextrous design makes working more convenient and comfortable.

Compatible with the complete range of IKA® glassware

Adjustable immersion angle and height

Can be moved by 120 mm to accommodate different flasks

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

RV 8 V

Rotary Evaporators

V: Rotary evaporator with set of vertical glassware
V-C: Rotary evaporator with set of vertical coated glassware
FLEX: Rotary evaporator without any glassware (condenser, evaporation and receiving flask); either use pre-existing IKA® glassware or order seperately
Dry Ice: Rotary evaporator with dry ice condensor glassware set

Automatic boiling point detection

	RV 10 basic	RV 10 digital	RV 10 control
Drive			
Motor type	brushless DC drive motor	brushless DC drive motor	brushless DC drive motor
Motor rating input	50 W	50 W	50 W
Speed range	20 – 280 rpm	20 – 280 rpm	20 – 280 rpm
Speed display	digital	digital	digital
Clockwise and counter-clockwise	yes	yes	yes
Soft start	yes	yes	yes
Head angle adjustable	0 to 45°	0 to 45°	0 to 45°
Stroke displacement	140 mm, motorized	140 mm, motorized	140 mm, motorized
Setting of lower end stop	60 mm, contact free	60 mm, contact free	60 mm, contact free
Vacuum controller	optional	optional	integrated
General data			
Dimensions (W x D x H)	530 x 410 x 430 mm	530 x 410 x 430 mm	530 x 410 x 430 mm
Weight of the drive incl. heating bath without glass parts	20 kg	20 kg	21.5 kg
Permissible ambient temperature	5 to 40 °C	5 to 40 °C	5 to 40 °C
Permissible relative moisture	80%	80%	80%
Protection class according to DIN EN 60529	IP 20	IP 20	IP 20
Voltage / Frequency	110 – 120 V / 50/60 Hz	110 – 120 V / 50/60 Hz	110 – 120 V / 50/60 Hz
Price	$ 3,380 | $ 3,759 | $ 3,759	$ 4,651 | $ 5,049 $ 5,049 | $ 3,520	$ 6,116 | $ 6,515 | $ 6,515 | $ 4,986 $ 10,742 | $ 11,073 | $ 10,411
	RV 10 basic V Ident. No. 8023901 RV 10 basic V-C Ident. No. 8024501 RV 10 basic Dry Ice Ident. No. 8031001	RV 10 digital V Ident. No. 8024101 RV 10 digital V-C Ident. No. 8024701 RV 10 digital Dry Ice Ident. No. 8031101 RV 10 digital FLEX Ident. No. 8023601	RV 10 control V Ident. No. 8024301* RV 10 control V-C Ident. No. 8024901* RV 10 control Dry Ice Ident. No. 8031201* RV 10 control FLEX Ident. No. 8031801* RV 10 control V auto Ident. No. 8038401 RV 10 control V-C auto Ident. No. 8038601 RV 10 control FLEX auto Ident. No. 8038801

*** RV 10.4002 Magnetic valve now included with delivery of every RV 10 control V, V-C, Dry Ice and FLEX package**

Package details on page 165

RV 10 control auto

The enhanced RV 10 control is now equipped with our fully automated speed control pump N 920. Additionally, the RV 10 control auto detects the required level of vacuum pressure by detecting the boiling point of the solvent. This feature has some significant benefits over a valve-regulated system.

Advantages:

> Increased solvent recovery performance up to 100%
> Automatic boiling point detection
> Speed controlled vacuum pump for precise vacuum level
> Reduced noise level and decreased wear of pump components
> Reduced process time and increased overall performance

Rotary Evaporators | Accessories

RV 10 / RV 8 accessories Glassware

	Ident. No.	Price
RV 10.900	3842500	$ 1,171
Set of glassware, vertical		
RV 10.910	3842600	$ 1,211
Set of glassware, vertical, coated		

RV 10.1000	3842700	$ 1,012
Set of glassware, diagonal		
RV 10.1010	3842800	$ 1,765
Set of glassware, diagonal, coated		

Condensers

RV 10.3	3741000	$ 1,600
Vertical-intensive condenser, manifold		
RV 10.30	3741100	$ 2,298
Vertical-intensive condenser, manifold, coated		

RV 10.4	3742000	$ 1,687
Dry ice condensor		
RV 10.40	3742100	$ 1,862
Dry ice condensor, coated		

RV 10.5	3743000	$ 1,806
Vertical-condenser, reflux		
RV 10.50	3743100	$ 2,043
Vertical-condenser, reflux, coated		

RV 10.6	3744000	$ 2,077
Vertical-intensive condenser, reflux		
RV 10.60	3744100	$ 2,281
Vertical-intensive condenser, reflux, coated		

Evaporation cylinders

RV 10.2023	3848200	$ 655
Evaporation cylinder, NS 24/40, 500 ml		
RV 10.2022	3848300	$ 870
Evaporation cylinder, NS 24/40, 1500 ml		

Bump trap

RV 10.2025	3848700	$ 147
Foam brake, NS 24/40		

Distilling spider with distilling sleeves

RV 10.2029	3849300	$ 610
Distilling spider, NS 24/40, 6 sleeves		
RV 10.2030	3849400	$ 1,055
Distilling spider, NS 24/40, 12 sleeves		
RV 10.2031	3849500	$ 1,478
Distilling spider, NS 24/40, 20 sleeves		
RV 10.610	3919400	$ 21
Distilling sleeve, 20 ml		

IKA® +

All evaporation flasks are available as a special temperature coated version (for usage at max. 180°C in a heating bath)

Distilling spider with 5 flasks

RV 10.2034	3849800	$ 803
Distilling spider with 5 flasks, 50 ml		
RV 10.2035	3849900	$ 876
Distilling spider with 5 flasks, 100 ml		

Evaporation flasks

RV 10.2007	3845300	$ 43
Evaporation flask, NS 24/40, 50 ml		
RV 10.2008	3845400	$ 50
Evaporation flask, NS 24/40, 100 ml		
RV 10.2009	3845500	$ 74
Evaporation flask, NS 24/40, 250 ml		
RV 10.2010	3845600	$ 77
Evaporation flask, NS 24/40, 500 ml		
RV 10.2011	3845700	$ 80
Evaporation flask, NS 24/40, 1000 ml		
RV 10.840	4221400	$ 161
Evaporation flask, NS 24/40 , 1000 ml coated		
RV 10.2012	3845800	$ 120
Evaporation flask, NS 24/40, 2000 ml		

Rotary Evaporators | Accessories

Receiving flasks

RV 10.100	3742200	$ 71
Receiving flask, KS 35/20, 100 ml		
RV 10.101	3742300	$ 74
Receiving flask, KS 35/20, 250 ml		
RV 10.102	3742400	$ 75
Receiving flask, KS 35/20, 500 ml		
RV 10.103	3742500	$ 78
Receiving flask, KS 35/20, 1000 ml		
RV 10.104	3742600	$ 127
Receiving flask, KS 35/20, 2000 ml		
RV 10.105	3742700	$ 240
Receiving flask, KS 35/20, 3000 ml		
RV 10.200	3743200	$ 150
Receiving flask, coated, KS 35/20, 100 ml		
RV 10.201	3743300	$ 166
Receiving flask, coated, KS 35/20, 250 ml		
RV 10.202	3743400	$ 191
Receiving flask, coated, KS 35/20, 500 ml		
RV 10.203	3743500	$ 206
Receiving flask, coated, KS 35/20, 1000 ml		

Powder flasks

RV 10.2017	3847200	$ 173
Powder flask, NS 24/40, 500 ml		
RV 10.2018	3847300	$ 187
Powder flask, NS 24/40, 1000 ml		
RV 10.2019	3847400	$ 228
Powder flask, NS 24/40, 2000 ml		

Vapor tubes, seals and other accessories

RV 10.73	3829400	$ 154
Vapor tube, NS 24/40		
RV 10.75	3972300	$ 133
Vapor tube, short, NS 24/40		

RV 10.8001	3907000	$ 207
Seal, PTFE, stainless steel		

RV 10.3000	3859000	$ 183
Extension plate for use with RV 10.500 foam break and 3 l evaporation flask		

HB 10 heating bath accessories

	Ident. No.	Price
HB 10.1	3641800	$ 268
Shield for heating bath HB 10		

HB 10.2	3641000	$ 1,064
Protection cover for heating bath HB 10		

Vacuum pumps

	Ident. No.	Price
MVP 10 basic	3980001	$ 1,250
For dry, oil-free applications in the low vacuum range		
VCV 1	0020004850	$ 800
Vacuum control valve manual		
VCV 2	0020004893	$ 715
Vacuum control valve digital		
VSS 1	0020005194	$ 485
Vacuum safety set		

N 920 KT.29.18	3919100	$ 3,706
Membrane vacuum pump		

SC 920 D400	4583600	$ 8,419
Vacuum pump		

LVS 105T-10 ef	4067800	$ 2,894
Vacuum pump		

RV 10 control accessories Vacuum pump valves

		Ident. No.	Price
1	RV 10.4001	3902600	$ 632
	Magnetic valve in-house vacuum		
2	RV 10.4002	3880300	$ 727
	Magnetic valve laboratory vacuum		
3	RV 10.4003	3900200	$ 1,726
	Pump control including magnetic valve		

Water valves

		Ident. No.	Price
4	RV 10.5001	3902700	$ 709
	Choke water valve		
5	RV 10.5002	3903800	$ 133
	Filter		
6	RV 10.5003	3907100	$ 534
	Pressure regulating valve		

RV 8 accessories

	Ident. No.	Price
RV 8.1	4438500	on request
Support Pole		
RV 8.2	0025001342	on request
Mechanical end stop for RV 8		

Mechanical / Electronic Accessories

(14)

Mechanical accessories
Fixing clamps

		Ident. No.	Price
(1)	H 44	2437700	$ 23
	Boss head clamp, clamping range Ø 10 – 11 mm		
(2)	R 200	3372000	$ 76
	Clamp for T 10 basic and R 104		
(3)	R 182	2657700	$ 28
	Boss head clamp, clamping range Ø 6 – 16 mm		
(4)	R 270	2657800	$ 34
	Boss head clamp, clamping range Ø 25 – 36 mm		
(5)	R 271	2664000	$ 50
	Boss head clamp, clamping range Ø 34 mm		
(6)	R 350	1752900	$ 151
	Universal clamp		
(7)	RH 3	3008600	$ 50
	Strap clamp for stand Ø 8 – 16 mm		
(8)	RH 5	3159000	$ 133
	Strap clamp for stand Ø 8 – 16 mm		

Electronic accessories

		Ident. No.	Price
(9)	ALMEMO 2490	4709300	$ 6,694
	The ALMEMO 2490 is a universal measuring device with 2 measuring channels. Especially adopted for the requirements of either simple temperature measuring purposes or as an accessory for our lab reactors to measure and display temperature and/or pH.		

ALMEMO accessories

		Ident. No.	Price
	ALMEMO USB-cable	4709400	$ 569
	USB-cable		
	PC 1.2	2616800	$ 205
	Adapter, 25 pins		
	PH 225.1	3122600	$ 2,485
	Electrode temperature sensor		
(10)	DTM 12.10	3127800	$ 624
	Data cable, L2.5 m, 9 pins (F)		
(11)	PT 100.23	3122100	$ 796
	Temperature sensor, stainless steel, Ø 3 mm, 250 mm length		
(12)	PT 100.24	3122200	$ 546
	Temperature sensor, stainless steel, glass-coated, Ø 8 mm, 250 mm length		
(13)	PT 100.25	3122300	$ 1,762
	Temperature sensor, stainless steel, Ø 6 mm, 255 mm length		

Lifts

(14)	LABLIFT m	4022400	$ 299
	Manual scissors lift , set-up plate dimensions 170 x 230 mm, stroke 70 – 300 mm, max. dynamic load 7 kg		

Mechanical Accessories

Stands

		Diameter of support rod	Dimensions (W x D)	Height	Max. load	Stroke	Ident. No.	Price
1	R 104 Stand Stand for T 10 basic, H370 mm	10 mm	242 x 355 mm	370 mm	0.7 kg	–	3386000	$ 110
2	R 1825 Plate stand Plate stand, H560 mm	16 mm	200 x 316 mm	560 mm	5 kg	–	3160000	$ 144
3	R 1826 Plate stand Plate stand, H800 mm	16 mm	200 x 316 mm	800 mm	5 kg	–	3160100	$ 163
4	R 1827 Plate stand Plate stand, H1000 mm	16 mm	200 x 316 mm	1000 mm	5 kg	–	3160200	$ 170
5	R 2722 H-Stand H-Stand, 1010 mm	34 mm	460 x 420 mm	1010 mm	10 kg	–	1412000	$ 333
6	R 2723 Telescopic stand Telescopic stand, H620 – 1010 mm	34 mm	460 x 420 mm	620 – 1010 mm	10 kg	390 mm	1412100	$ 401
7	T 653 Telescopic stand Telescopic stand, H1200 mm	48 mm	460 x 530 mm	1200 mm	–	500 – 1000 mm	1608000	$ 1,713
8	R 474 Telescopic stand Telescopic stand, H1200 mm	48 mm	460 x 530 mm	1200 mm	–	500 – 1000 mm	1643000	$ 3,426
9	R 472 Floor stand Floor stand, H2020 mm	–	80 x 80 mm	2020 mm	–	980 – 1860 mm	0738700	$ 6,109
10	R 4765 Floor stand Floor stand, H1014 – 1588 mm		764 x 870 mm	1500 mm	40 kg	465 mm	0030000149	on request
11	R 2850 Floor stand Floor stand, H1900 mm	16 mm	980 x 875 mm	1921 mm	8.5 kg	1800 mm	0020002900	on request

Laboratory Reactors

IKA® lab reactors are the most unique systems when it comes to optimizing and reproducing chemical reaction, mixing, dispersing, and homogenization processes on a lab scale. The lab reactors can be individually customized to perform numerous tasks, including: production of cremes and lotions, the grinding and disintegrating of solids and fibers in liquids or polymers, etc. Single-walled or double-walled vessels made from borosilicate glass or stainless steel are available, each with or without bottom discharge valve.

The modular, expandable laboratory reactor!

> Wide range of applications
> Manual adjustable safety circuit

LR 1000 basic

Digital display for monitoring of speed and temperature

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

Adjustable safety circuit

Connectors in the back to attach a chiller or other cooling source

Laboratory Reactors

Technical data	LR 1000 basic | LR 1000 control
Usable volume	400 – 1000 ml
Max. working temperature	120 °C
Nominal torque	3 Nm
Attainable vacuum	25 mbar
Max. viscosity	100,000 mPas
Speed range	10 – 150 rpm
Display	LED | TFT
Heat output	1000 W
Heat control accuracy	± 1 K
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%

LR 1000 basic Package*	Ident. No.
H 11 Main cable Euro plug	1091500
LR 1000 basic base	3600099
LR 1000.1 Reactor vessel	3602000
LR 1000.61 Sensor receptacle	4664400
PT 100.5 Temperature sensor	2506800
LR 1000 basic Package	8040101
Price	**$ 5,699**

LR 1000 control Package*	Ident. No.
H 11 Main cable Euro plug	1091500
LR 1000 control base	3600099
LR 1000.3 Reactor vessel	0025001955
LR 1000.61 Sensor receptacle	4664400
PT 100.5 Temperature sensor	2506800
USB cable USB A-Micro B 2.0	4335000
LR 1000 control Package	0010001052
Price	**$ 6,844**

* PT 100.5 included in the delivery for measuring the external temperature

Laboratory Reactors | Packages

Modular design laboratory reactor for optimization and simulation of various chemical reactions as well as for mixing and homogenizing processes in a laboratory scale.

> Suitable for vacuum operation

> Seals in contact with the product are made of solvent- resp

> Temperature-resistant perfluoroelastomer (FFPM)

> Infinitely adjustable speed

Technical data	
Min. volume (anchor stirrer)	500 ml
Min. volume (T 25 digital)	800 ml
Max. volume	2000 ml
Max. working temperature	230 °C
Attainable vacuum	25 mbar
Max. viscosity (EUROSTAR 200 control P4)	150,000 mPas
Speed range (EUROSTAR 200 control P4)	0/4 – 530 rpm
Max. torque at stirring shaft (EUROSTAR 200 control P4)	660 Ncm
Height of telescopic stand	620 – 1010 mm
Dimensions (W x D x H)	460 x 430 x 1.240 mm
Metals in contact with medium	stainless steel (AISI 316L) FFPM borosilicate glass 3.3

LR-2.ST Package 1*

Basic package with reactor cover (sealing material: FFPM) consisting of:
> Stand system LR-2.ST
> LR-2.SI Safety disconnection
> EUROSTAR 200 control P4
> LR 2000.11 Anchor stirrer with flow borings
> LR 2.1 Single-walled reactor vessel
> Temperature sensor H 68.55

Price: $ 14,132

Ident. No. 0010000505

LR-2.ST Package 2

Basic package with reactor cover (sealing material: FFPM) consisting of:
> Stand system LR-2.ST
> LR-2.SI Safety disconnection
> EUROSTAR 200 control P4
> LR 2000.11 Anchor stirrer with flow borings
> LR 2000.1 Double-walled reactor vessel with quick-action connectors

Price: $ 16,132

Ident. No. 0010000506

LR-2.ST Package 3

Basic package with reactor cover (sealing material: FFPM) consisting of:
> Stand system LR-2.ST
> LR-2.SI Safety disconnection
> EUROSTAR 200 control P4
> LR 2000.11 Anchor stirrer with flow borings
> LR 2000.2 Double-walled reactor vessel with quick-action connectors and bottom discharge valve

Price: $ 16,845

Ident. No. 0010000507

*** HBR 4 Heating bath not included in the package**

Laboratory Reactors | Accessories

LR 1000 accessories

	Ident. No.	Price
(1) LR 1000.1	3602000	$ 3,807
Reactor vessel, 1000 ml , FFKM Sealings, 4 connectors		
(2) LR 1000.3	0025001955	on request
Reactor vessel, 1000 ml, FFKM Sealings, 6 connectors		
LR 1000.10	4663100	$ 696
Anchor stirrer with PEEK scrapers		
LR 1000.11	4663000	$ 284
Anchor stirrer, stainless steel		
LR 1000.20	4663200	$ 376
Flow breaker / baffle, stainless steel		

LR 1000.41	4664300	$ 526
Shaft receptacle to install the dispersing elements S 25 KV		

LR 1000.61	4664400	$ 509
Sensor receptacle to install the temperature sensors PT 100.25 and PT 100.5		
LR 1000.64	4663300	$ 368
pH electrode		
LR 1000.65	4663400	$ 1,080
pH electrode receptacle		

LR-2.ST accessories

	Ident. No.	Price
(3) LR 2000.10	2508400	$ 1,611
Anchor stirrer with PTFE scraper		
(4) LR 2000.11	2509500	$ 2,230
Anchor stirrer, stainless steel		
(5) LR 2000.20	2508500	$ 1,260
Flow breaker / baffle, stainless steel		
(6) LR 2.1	3070000	$ 1,682
Reactor vessel, single-walled, 2000 ml		
(7) LR 2000.1	2508300	$ 2,476
Reactor vessel, double-walled, 2000 ml		
LR 2000.2	2509600	$ 3,317
Reactor vessel, double-walled, 2000 ml with bottom drain		
(8) LR 2000.40	2509200	$ 1,117
Shaft receptacle to install the dispersing elements S 25 KV		
(9) LR 2000.60	2509300	$ 906
Sensor receptacle to install the temperature sensors PT 100.25 and PT 100.5		
LR 2000.65	3172600	$ 1,097
pH measuring sensor receptacle		
PH 225.1*	3122600	$ 2,485
pH electrode with temperature sensor		
DTM 12.15*	3128300	$ 483
Adapter cable for pH electrode LR-2.ST		
LR-2.SP	3326400	$ 1,288
Splinter shield		

LR-2.ST accessories

	Ident. No.	Price
LT 5.20	2606700	$ 850
Hose, insulated, stainless steel, Ø 10 mm, 150 mm, 2 pcs.		
LT 5.21	0020000988	$ 669
Hose, insulated, PTFE, Ø 13 mm, 150 mm, 2 pcs.		
LT 5.24	2578100	$ 74
Hose adapter		
LT 5.25	0020000878	on request
Lock Coupling		
LT 5.26	0020000879	on request
Lock Adapter		
LT 5.27	0020000880	on request
Hose Adapter		

Common accessories

	Ident. No.	Price
(10) T 25 digital	3725001	$ 1,587
Disperser		
(11) S 25 KV - 25 F	2404000	$ 3,220
Dispersing element		
(12) S 25 KV - 25 G	2466900	$ 3,220
Dispersing element		
(13) S 25 KV - 18 G	2348000	$ 3,106
Dispersing element		
(14) labworldsoft®	4720000	$ 190
Laboratory software		

magic PLANT

magic PLANT basic
The ideal small laboratory plant for perfect mixing and homogenizing of liquid to pasty products.

magic PLANT inline
Effective dispersing and homogenizing. In connection with the IKA® magic LAB®, the magic PLANT is specially adapted to the requirements of batch plants.

magic PLANT powder
Efficient but gentle mixing and drying of all free flowing solids, including products with different bulk densities and particle sizes.

Technical data	magic PLANT basic	magic PLANT inline	magic PLANT powder
Max. admissable temperature	150 °C	150 °C	150 °C
Working pressure range	-1 up to 2.5 bar	-1 up to 2.5 bar	-1 up to 2.5 bar
Useful volume	2 l	2 l	2 l
Stirring tool	anchor or propeller	propeller	spiral agitator
Speed range	0 – 350 rpm 0 – 2000 rpm	0 – 350 rpm 0 – 2000 rpm	0 – 350 rpm
Price	$ 30,709	$ 43,847	$ 31,530
	Ident. No. U105363	Ident. No. U107703	Ident. No. U107159

The most versatile laboratory reactor

The IKA® magic PLANT is an ideal laboratory scale process plant. This system is used for batch-wise mixing, homogenizing, emulsifying, in addition to forming sample suspensions for capacities of up to 2 liters. Whether it is involved with the manufacturing of liquids, pastes or powders - the magic PLANT delivers, enabling a seamless transition from product development to production.

magic PLANT

Modular design

Higher viscosity products processible

Tiltable vessel

labworldsoft®

IKA®'s software labworldsoft® enables the networking of up to 64 laboratory devices which can be controlled simultaneously via one PC. Not only IKA® products, but also other manufacturers' laboratory devices can be integrated using labworldsoft®.
CalWin represents the newest generation of professional software for all IKA® calorimeters. It offers numerous functions for monitoring and evaluating results.

Advanced software with an innovative visual approach to lab automation

labworldsoft® is a multi-purpose software program for measuring, controlling and regulating laboratory devices. It can network up to 64 devices simultaneously via one PC, thus making the automation of your laboratory experiments and processes much more easy and efficient. It not only integrates IKA® laboratory devices but also supports devices from other manufacturers.

GLP/GMP Compliance!

	labworldsoft®
Hardware and software requirements	Pentium processor with at least 16 MB RAM, 8 MB free hard disc memory, VGA-Display: monochrome with at least 16 levels of gray or color, Windows 95/98/2000/NT/ME/XP/7 and com ports can be upgraded for certain requirements.
Price	$ 190
	Ident. No. 4720000

IKA®+

Try it for yourself
Get your free, fully functional, 30 day trial version Download at:
www.ika.com

labworldsoft® | Accessories

Accessories

PCI 8.2 Plug-in card

To be integrated into the PC – used for connecting up to 8 devices simultaneously.

Ident. No.	8017500
Price	$ 1,687

PC 4.1 RS 232 Server

Can control up to 4 lab units through the ethernet. The server supports 4 RS 232 ports with a 10/100 mbps ethernet interface by TCP/IP. The server can be set-up through the ethernet and works as a transparent serial COM-Port without restrictions of platform and distance.

Ident. No.	3192000
Price	$ 2,284

	Ident. No.	Price
(1) Expert Key 100 eco	0020005486	$ 3,695
Data collection system for laboratories		
(2) Expert Key 100 pro	0020005485	on request
Data collection system for industries		
Multi Power Switch	0020003454	on request
Adapter for Expert Key		
RV 10 A 1	0020004315	on request
Adapter LEMO for Expert Key		
PT 1000 A 1	0020004316	on request
Adapter DIN 6 for Expert Key		
PT 100.10 A 1	0020004317	on request
Adapter DIN 5 for Expert Key		

Manufacturers with interface devices compatible to labworldsoft®

Cable	Length	Ident. No.	Price
PC 1.1 Cable	3 m	2616700	$ 174
PC 1.5 Cable	2.5 m	2756000	$ 183
PC 2.1 Cable	5 m	2700700	$ 162
PC 2.3 Cable	3 m	3036200	$ 120
DTM 12.10 Cable	2.5 m	3127800	$ 624
Adapter			
PC 1.2 Adapter	–	2616800	$ 205
PC 1.4 Adapter	–	2755900	$ 245
PC 2.2 Adapter	–	2753200	$ 138
PC 5.1 Adapter	–	2621500	$ 252

* For more information on cables and adapters, please visit our website: **www.ika.com/products**

Calorimeters

IKA® oxygen bomb calorimeters are the market leaders when it comes to determining the calorific values of liquid and solid samples. The selection of IKA® oxygen bomb calorimeters is optimally geared towards various different demands. Functionality, safety, and longevity were the main goals in the development of IKA®'s oxygen bomb calorimeters.

C 1

The world's smallest calorimeter!

> Represents the smallest static jacket calorimeter in the world
> combines modern technology with unique automation

The traditional heavy screw threaded bomb has been replaced by a light weight chamber

Automatic oxygen filling, venting and flushing

Automatic ignition with fixed ignition wire as well as ignition energy determination for each experiment

Automatic water filling and draining

Calorimeters

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

RFID technology used for decomposition vessel identification

Easy bomb preparation due to new "turned around" crucible holder technology

C 6000

Technical data	C 1	C 6000 isoperibol	C 6000 global standards
Maximum energy input	40,000 J	40,000 J	40,000 J
Resolution of the temperature sensor	0.0001	0.0001	0.0001
Power ON-time	100 %	100 %	100 %
Operating oxygen pressure	30 bar	30 bar	30 bar
Measuring modes / Measurements per hour	Isoperibol Static jacket (Regnault Pfaundler) 4	Isoperibol (Regnault Pfaundler) 4 Dynamic 6	Adiabatic 5 Isoperibol (Regnault Pfaundler) 4 Dynamic 6
Start temperature settings	2 possible settings: 22 °C or 30 °C	3 possible settings: 22 °C, 25 °C, 30 °C	3 possible settings: 22 °C, 25 °C, 30 °C
RSD (using NIST benzoic acid 39j)	Isoperibol Static jacket (Regnault Pfaundler) 0.15%	Isoperibol (Regnault Pfaundler) 0.05% Dynamic 0.15%	Adiabatic 0.05% Isoperibol (Regnault Pfaundler) 0.05% Dynamic 0.15%
Number of decomposition vessel per unit	up to 2	up to 4	up to 4
Price	$ 14,840 | $ 25,871 | $ 23,000	$ 28,900 | $ 32,620 $ 24,298 | $ 27,273	$ 35,000 | $ 38,720 $ 47,322 | $ 36,614
	C 1 Ident. No. 3825000 C 1 Package 1/10 Ident. No. 8804900 C 1 Package 2/10 Ident. No. 8805100	Package 1/10 Ident. No. 8804501 Package 1/12 Ident. No. 8804601 Package 2/10 Ident. No. 8804701 Package 2/12 Ident. No. 8804801	Package 1/10 Ident. No. 8804101 Package 1/12 Ident. No. 8804201 Package 2/10 Ident. No. 8804301 Package 2/12 Ident. No. 8804401

Package details on page 166

Calorimeters

GOST-certified

Automatic precise filling of inner vessel

Technical data	C 200	C 2000	C 5000
Maximum energy input	40,000 J	40,000 J	40,000 J
Resolution of the temperature sensor	0.0001	0.0001	0.0001
Power ON-time	continuous operation	continuous operation	continuous operation
Operating oxygen pressure	–	30 bar	30 bar
Measuring modes / Measurements per hour	Isoperibol 3 Dynamic 5 Manual (Isoperibol) 3 Time-controlled 4	Isoperibol 3 Dynamic 6	Adiabatic 4 Isoperibol 3 Dynamic 6
Start temperature settings	18 – 25 °C	2 possible settings: 25 °C or 30 °C	Package 1: 22 °C / Package 2: 25 °C
RSD (using NIST benzoic acid 39j)	Isoperibol 0.1 % Dynamic 0.1 % Manual (Isoperibol) 0.1 % Time-controlled 0.1 %	Isoperibol 0.05% Dynamic 0.1 %	Adiabatic 0.05 % Isoperibol 0.05 % Dynamic 0.1 %
Number of decomposition vessel per unit	up to 4	up to 4	up to 4
Price	**$ 15,557 | $ 21,543**	**$ 25,513 | $ 28,637**	**$ 38,955 | $ 47,975**
	C 200 Ident. No. 8802501 C 200 h Ident. No. 8803701	basic Version 1 Ident. No. 8801801 basic Version 2 Ident. No. 8801901	Package 1/10 Ident. No. 8803001 Package 1/12 Ident. No. 8803301

Package details on page 167

Calorimeters | Accessories & consumables

IKA®+

The halogen resistant decomposition vessels C 5012, C 6012 and C 7012 are equipped with a catalytically active surface, which enhances the on-going reactions during the combustion. As a result, higher recovery rates for halogens and sulfur are achieved.

C 1 Accessories and consumables

	Ident. No.	Price
C 1.1012	4500700	on request
Organizer		
C 1.30	4500900	on request
Venting station		
C 1.10	4500300	on request
Combustion chamber		
C 1.101	4502200	$ 468
Set of spare parts, approx. 1000 experiments		

C 200 accessories

	Ident. No.	Price
C 248	3520000	$ 2,433
Oxygen station		
C 200.1	3548900	$ 57
Measuring cup, 2000 ml		
C 200.2	4028800	$ 216
Conversion kit for C 5012		

C 6000 Accessories and consumables

	Ident. No.	Price
C 6010	3770000	$ 2,990
Decomposition vessel, standard		
C 6012	4504000	$ 5,680
Decomposition vessel, halogen resistant		
C 6030	4504100	on request
Venting station		
C 60.1012	4504200	on request
Organizer		
C 6000.10	4504300	$ 1,177
Set of spare parts, approx. 1000 experiments		
C 6000.12	4504400	$ 2,791
Set of spare parts, approx. 1000 experiments		

C 1 and C 6000 consumables

	Ident. No.	Price
C 1.50	4500600	$ 1,671
Dot matrix printer		
(1) C 1.103	4579300	$ 48
Ignition wire, standard, Kantal, 5 pcs.		
(2) C 1.123	4500200	$ 155
Ignition wire, platinum, 2 pcs.		

Accessories for all Calorimeters

	Ident. No.	Price
C 27	4579700	on request
Calorimeter preparation set		
C 29	L004944	$ 1,429
Pressure gauge, oxygen		
C 21	1605300	$ 2,057
Pelleting press		
C 5010.8	4579800	$ 192
Crucible holder, small		
C 5010.5	3055900	$ 147
Crucible holder, big		

C 200, C 2000, C 5000 accessories

	Ident. No.	Price
C 5010	7114000	$ 3,090
Decomposition vessel, standard		
C 5012	7215000	$ 5,896
Decomposition vessel, halogen resistant		
C 5030	7198000	$ 2,027
Venting station		
C 5010.4	3016900	$ 193
Attachment for combustible crucible C 14		
C 26	8804000	$ 469
Prep stand		

C 2000, C 5000, C 6000 accessories

	Ident. No.	Price
C 5020	7145000	$ 14,667
Sample rack		

C 1, C 2000, C 6000 accessories

	Ident. No.	Price
C 25	3197200	$ 754
Pressure regulating valve		

C 7000 accessories

	Ident. No.	Price
C 7000	3008000	on request
Measurement cell		
C 7010	3015000	on request
Decomposition vessel, standard		
C 7012	3017000	on request
Decomposition vessel, halogen resistant		
C 7002	7011000	on request
Cooling system		
C 48	1560000	$ 2,603
Oxygen station		
C 7030	3013300	$ 5,579
Venting station		
C 7010.8	7095000	$ 1,156
Venting handle		
C 5010.4	3016900	$ 193
Attachment for combustible crucible C 14		
C 5010.5	3055900	$ 147
Crucible holder, big		

Calorimeters | Accessories & consumables

Consumables for all calorimeters

		Ident. No.	Price
3	C 1.104	0020003598	on request
	Water bath additive, 30 ml		
4	C 710.4	1483700	$ 68
	Cotton thread, cut to length, 500 pcs.		
	C 710.8	4579900	$ 68
	Cotton thread, cut to length, thick, 500 pcs.		
5	C 4	1695500	$ 40
	Quartz dish		
6	C 5	1749500	$ 270
	Set of VA combustion crucibles, 25 pcs.		
7	C 6	0355100	$ 96
	Quartz dish, big		
8	C 710.2	1483500	$ 270
	Set of VA combustion crucibles, 25 pcs.		
9	C 9	0749900	$ 48
	Gelatine capsules, 100 pcs.		
10	C 10	0750000	$ 207
	Acetobutyrate capsules, 100 pcs.		
	C 12	2201400	$ 61
	Combustion bags, 40 x 35 mm, 100 pcs		
	C 12 A	2201500	$ 66
	Combustion bags, 70 x 40 mm, 100 pcs		
	C 15	3131100	$ 68
	Paraffin strips, 45 x 3 mm, 600 pcs.		
	C 16	3801100	$ 216
	Parafilm, 1000 x 50 mm		
11	C 17	3801200	$ 356
	Paraffin, liquid, 30 ml		
12	C 43	0750600	$ 798
	Benzoic acid, NIST 39j, 30 g		
13	C 723	3243000	$ 39
	Benzoic acid, blister package, 0.5 g, 50 pcs.		
	C 723 Big pack	3717400	$ 334
	Benzoic acid, blister package, 0.5 g, 450 pcs.		
14	AOD 1.11	3044000	$ 231
	Control standard, 50 ml, for Sulfur and chlorine		
15	AOD 1.12	3080200	$ 326
	Control standard, 50 ml, for fluorine and bromine		

C 200, C 2000, C 5000 and C 7000 consumables

	Ident. No.	Price
C 5010.3	7122800	$ 50
Ignition wire, spare, 5 pcs.		
C 5012.3	2994900	$ 198
Ignition wire, platinum, 2 pcs.		
C 14	7224500	$ 207
Combustible crucible, 100 pcs.		

Calorimeter instructions

Instruction on the IKA® Calorimeter system — on request

Decomposition system

	Ident. No.	Price
AOD 1	8801300	$ 30,471
Decomposition system		

Decomposition accessories

	Ident. No.	Price
AOD 1.1	3303000	$ 13,165
Decomposition vessel		
AOD 1.2	3348000	$ 3,733
External ignition unit		
AOD 1.3	3308000	$ 4,566
Protection device		
AOD 1.13	3348100	$ 1,520
Remote ignition head		

C 6040 CalWin

Hardware and software requirements	Windows XP (SP2), Windows Vista, Windows 7, Windows 8 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.
Price	$ 2,900
	Ident. No. 4040500

IKA® Packages

Package name / Package description	Ident No.	Price
RCT Synthesis Package 1	8039601	$ 1,297
RCT basic	3810001	
H 16 V Support rod	1545100	
H 44 Boss head clamp	2437700	
H 38 Holding rod	3547700	
H 135.10 Square Carrier without handle	0025000832	
H 135.101 Block 16 x 4 ml	0025000626	
H 135.104 Block 4 x 20 ml	0025000629	
H 135.105 Block 4 x 30 ml	0025000630	
H 135.106 Block 4 x 40 ml	0025000631	
RCT Synthesis Package 2	8039701	$ 1,171
RCT basic	3810001	
H 16 V Support rod	1545100	
H 44 Boss head clamp	2437700	
H 38 Holding rod	3547700	
H 135.30 Flask Carrier 500 ml without Handle	0025000639	
H 135.302 Flask inlay 250 ml	0025000642	
H 16.1 Extension	0005000500	

Package name / Package description	Ident No.	Price
C-MAG HS 7 Package	L005457	$ 759
C-MAG HS 7	3581201	
ETS-D5 Electronic contact thermometer	3378000	
H 38 Holding rod	3547700	
H 44 Boss head clamp	2437700	
H 16 V Support rod	1545100	

Magnetic stirrers with heating
page 6

Package name / Package description	Ident No.	Price
KS 130 basic Package	9019001	$ 1,579
KS 130 basic	2980001	
AS 130.3 Dish attachment	3120000	
STICKMAX universal adhesive mat	3920000	
KS 130 control NOL Package	9025501	$ 2,392
KS 130 NOL control	4278201	
AS 130.3 Dish attachment	3120000	
STICKMAX universal adhesive mat	3920000	
KS 260 basic Package	9019201	$ 1,944
KS 260 basic	2980201	
AS 260.3 Dish attachment	3120600	
2 x STICKMAX universal adhesive mat	3920000	
KS 260 control NOL Package	9025601	$ 2,839
KS 260 control NOL	4278401	
AS 260.3 Dish attachment	3120600	
2 x STICKMAX universal adhesive mat	3920000	

Shakers
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IKA® Packages

Package name / Package description	Ident. No.	Price
(1) **Open heating bath circulators**		
ICC basic eco 8*	0010000853	$ 2,088
ICC control eco 8**	0010000849	$ 2,304
BS.ICC	0020003077	
IB eco 8 Bath vessel, plastic	4248100	
ICC basic eco 18*	0010000475	$ 2,286
ICC control eco 18**	0010000481	$ 2,502
BL.ICC	0020003078	
IB eco 18 Bath vessel, plastic	4248200	
ICC basic pro 9*	0010000851	$ 2,318
ICC control pro 9**	0010000847	$ 2,534
BS.ICC	0020003077	
IB pro 9 Bath vessel, stainless steel	4248500	
ICC basic pro 12*	0010000473	$ 2,400
ICC control pro 12**	0010000479	$ 2,616
BL.ICC	0020003078	
IB pro 12 Bath vessel, stainless steel	4577500	
ICC basic pro 20*	0010000477	$ 2,564
ICC control pro 20**	0010000483	$ 2,780
BL.ICC	0020003078	
IB pro 20 Bath vessel, stainless steel	4248600	

* ICC basic included in delivery
** ICC control included in delivery

Package name / Package description	Ident. No.	Price
(3) **Covered heating bath circulator**		
IC basic eco 18 c*	0010000468	$ 3,300
IC control eco 18 c**	0010000471	$ 3,700
IB eco 18 Bath vessel, plastic	4248200	
CL.IC Cover	4471800	
IC basic pro 12 c*	0010000467	$ 3,350
IC control pro 12 c**	0010000470	$ 3,750
IB pro 12 Bath vessel, stainless steel	4577500	
CM.IC Cover	4577600	
IC basic pro 20 c*	0010000469	$ 3,400
IC control pro 20 c**	0010000472	$ 3,800
IB pro 20 Bath vessel, stainless steel	4248600	
CL.IC Cover	4471800	

** IC control included in delivery
PT 100.30 Temperature Sensor, CC 1 Cooling Coil, and BS.IC Bridge are all included in the delivery for both IC basic | control Packages with cover

Temperature Control
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Package name / Package description	Ident. No.	Price
(2) **Covered heating bath circulator**		
ICC basic eco 8 c*	0010000854	$ 2,628
ICC control eco 8 c**	0010000850	$ 2,844
BS.ICC	0020003077	
CS.ICC	4471500	
IB eco 8 Bath vessel, plastic	4248100	
ICC basic eco 18 c*	0010000476	$ 3,004
ICC control eco 18 c**	0010000482	$ 3,106
BL.ICC	0020003078	
CL.ICC	4471600	
IB eco 18 Bath vessel, plastic	4248200	
ICC basic pro 9 c*	0010000852	$ 2,858
ICC control pro 9 c**	0010000848	$ 3,074
BS.ICC	0020003077	
CS.ICC	4471500	
IB pro 9 Bath vessel, stainless steel	4248500	
ICC basic pro 12 c*	0010000474	$ 3,119
ICC control pro 12 c**	0010000480	$ 3,335
BL.ICC	0020003078	
CM.ICC	0025000290	
IB pro 12 Bath vessel, stainless steel	4577500	
ICC basic pro 20 c*	0010000478	$ 3,282
ICC control pro 20 c**	0010000484	$ 3,384
BL.ICC	0020003078	
CL.ICC	4471600	
IB pro 20 Bath vessel, stainless steel	4248600	

* ICC basic included in delivery
** ICC control included in delivery
PT 100.30 Temperature sensor, CC2 Cooling Coil, and PCS.ICC Pump connection are all included in the delivery for ICC control Packages with cover

Temperature Control
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IKA® Packages

RV 8

Package name / Package description	Ident No.	Price
RV 8 V	8033901	$ 3,052
RV 8	4057099	
HB 10 heating bath	4068001	
RV 10.900 Set of glassware, vertical	3842500	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 8 V-C	8034301	$ 3,465
RV 8	4057099	
HB 10 heating bath	4068001	
RV 10.910 Set of glassware, vertical, coated	3842600	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 8 Dry Ice	0010000403	$ 3,680
RV 8	4057099	
HB 10 heating bath	4068001	
RV 10.40 Dry ice condensor	3742000	
RV 10.73 Vapor tube, NS 24/40	3829400	

Package	Ident No.	Price
RV 10 basic V	8023901	$ 3,380
RV 10 basic	3540001	
HB 10 heating bath	4068001	
RV 10.900 Set of glassware, vertical	3842500	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 basic V-C	8024501	$ 3,759
RV 10 basic	3540001	
HB 10 heating bath	4068001	
RV 10.910 Set of glassware, vertical, coated	3842600	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 basic Dry Ice	8031001	$ 3,759
RV 10 basic	3540001	
HB 10 heating bath	4068001	
RV 10.4 Dry Ice Condensor set	3742000	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 digital V	8024101	$ 4,651
RV 10 digital	3550001	
HB 10 heating bath	4068001	
RV 10.900 Set of glassware, vertical	3842500	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 digital V-C	8024701	$ 5,049
RV 10 digital	3550001	
HB 10 heating bath	4068001	
RV 10.910 Set of glassware, vertical, coated	3842600	
RV 10 digital Dry Ice	8031101	$ 5,049
RV 10 digital	3550001	
HB 10 heating bath	4068001	
RV 10.4 Dry Ice Condensor set	3742000	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 digital FLEX	8023601	$ 3,520
RV 10 digital	3550001	
HB 10 heating bath	4068001	
RV 10.73 Vapor tube, NS 24/40	3829400	

Package	Ident No.	Price
RV 10 control V	8038301	$ 6,036
RV 10 control	4411099	
HB 10 heating bath	4068001	
RV 10.900 Set of glassware, vertical	3842500	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10.4002 Magnetic valve laboratory vacuum	3880300	
RV 10 control V-C	8038501	$ 6,411
RV 10 control	4411099	
HB 10 heating bath	4068001	
RV 10.910 Set of glassware, vertical, coated	3842600	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10.4002 Magnetic valve laboratory vacuum	3880300	
RV 10 control Dry Ice	8031201	$ 6,411
RV 10 control	3560001	
HB 10 heating bath	4068001	
RV 10.40 Dry ice condensor	3742000	
RV 10 control V auto	8038401	$ 10,742
RV 10 control	4411099	
Pump with analog connection	4406000	
HB 10 heating bath	4068001	
RV 10.900 Set of glassware, vertical	3842500	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 control V-C auto	8038601	$ 11,073
RV 10 control	4411099	
Pump with analog connection	4406000	
HB 10 heating bath	4068001	
RV 10.910 Set of glassware, vertical, coated	3842600	
RV 10.73 Vapor tube, NS 24/40	3829400	
RV 10 control FLEX auto	8038801	$ 10,411
RV 10 control	4411099	
Pump with analog connection	4406000	
HB 10 heating bath	4068001	
RV 05.10 Balljoint clamp	0736600	
RV 10.73 Vapor tube, NS 24/40	3829400	

Rotary Evaporators
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Rotary Evaporators
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IKA® Packages

Package name / Package description	Ident. No.	Price
C 1 Package 1/10	0010001059	$ 25,871
C 1	3825000	
RC 2 basic recirculating chiller	4171001	
C 1 Package 2/10	8805100	$ 23,000
C 1	3825000	
C 1.20 Water heater	4501000	
C 6000 global standards Package 1/10	0010001060	$ 36,614
C 6000 global standards	0020001717	
C 6010 Decomposition vessel, standard	3770000	
RC 2 basic recirculating chiller	4171001	
C 6000 global standards Package 1/12	0010001061	$ 38,720
C 6000 global standards	0020001717	
C 6012 Decomposition vessel, halogen resistant	4504000	
RC 2 basic recirculating chiller	4171001	
C 6000 global standards Package 2/10	8804301	$ 32,894
C 6000 global standards	0020001717	
C 6010 Decomposition vessel, standard	3770000	
C 6000 global standards Package 2/12	8804401	$ 35,000
C 6000 global standards	0020001717	
C 6012 Decomposition vessel, halogen resistant	4504000	
C 6000 isoperibol Package 1/10	0010001062	$ 28,900
C 6000 isoperibol	0020001718	
C 6010 Decomposition vessel, standard	3770000	
RC 2 basic recirculating chiller	4171001	
C 6000 isoperibol Package 1/12	0010001063	$ 32,620
C 6000 isoperibol	0020001718	
C 6012 Decomposition vessel, halogen resistant	4504000	
RC 2 basic recirculating chiller	4171001	
C 6000 isoperibol Package 2/10	0020001718	$ 24,298
C 6000 isoperibol	0020001718	
C 6010 Decomposition vessel, standard	3770000	
C 6000 isoperibol Package 2/12	8804801	$ 27,273
C 6000 isoperibol	0020001718	
C 6012 Decomposition vessel, halogen resistant	4504001	

C 1

C 6000

Calorimeters
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C 200

C 2000

C 5000

Package name / Package description	Ident. No.	Price
C 200 Package	8802501	$ 15,557
C 200	3385001	
C 248 Oxygen station	3520000	
C 5012 Decomposition vessel, standard	7114000	
C 200 h	8803701	$ 21,543
C 200	3385001	
C 200.2 Conversion set for C 5012	4028800	
C 248 Oxygen station	3520000	
C 5012 Decomposition vessel, halogen resistant	7215000	
C 2000 basic Version 1	8801801	$ 25,513
C 2000 basic	3180001	
C 5010 Decomposition vessel, standard	7114000	
C 2000 basic Version 2	8801901	$ 28,637
C 2000 basic	3180001	
C 5012 Decomposition vessel, halogen resistant	7215000	
C 5000 control Package 1/10	8803001	$ 38,955
C 5000 Control	3048001	
C 5001 Cooling system	7066001	
C 5003 Measurement cell	3595001	
C 5010 Decomposition vessel, standard	7114000	
C 5000 control Package 1/12	8803301	$ 47,975
C 5000 Control	3048001	
C 5001 Cooling system	7066001	
C 5003 Measurement cell	3595001	
C 5012 Decomposition vessel, halogen resistant	7215000	

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IKA® Worldwide

Germany

IKA®-Werke GmbH & Co. KG
Phone: +49 7633 831-0
sales@ika.de

China

IKA® Works Guangzhou
Phone: +86 20 8222 1771
info@ika.cn

Malaysia

IKA® Works (Asia) Sdn Bhd
Phone: +60 3 6099-5666
sales.lab@ika.my

India

IKA® India Private Limited
Phone: +91 80 2625 3900
info@ika.in

Japan

IKA® Japan K.K.
Phone: +81 6 6730 6781
info_japan@ika.ne.jp

Brasil

IKA® do Brasil
Phone: +55 19 3772-9600
info@ika.net.br

Korea

IKA® Korea. Ltd.
Phone: +82 2 2136 6800
info@ika.kr

IKA®-Works, Inc.
2635 Northchase Pkwy SE
Wilmington, NC 28405-7419
USA

Tel. +1 800-733-3037
Tel. +1 910 452-7059
Fax +1 910 452-7693

sales@ika.net
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