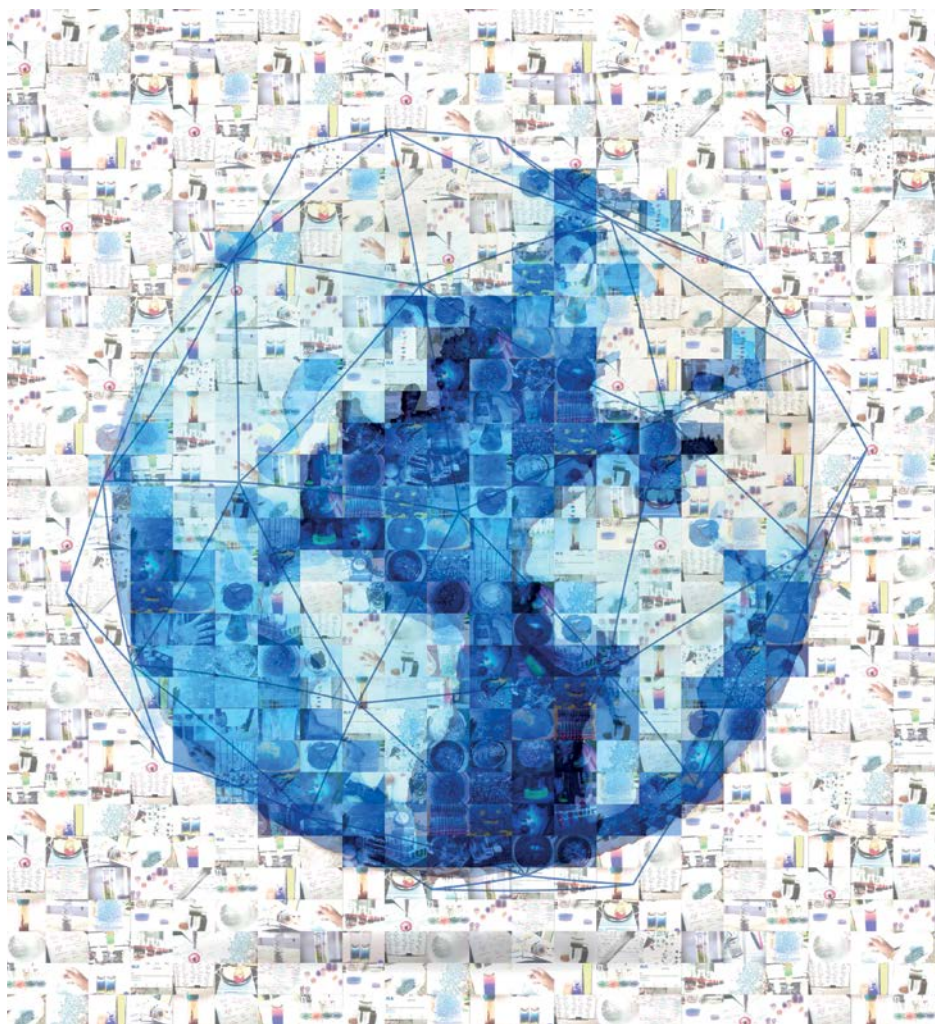




laboratory equipment
designed for scientists

EN



Product Overview 2016.

THE FASCINATING WORLD OF LABORATORY EQUIPMENT.

We are committed to providing innovations that make your work safer, future-oriented and smarter.

/// Discover the fascinating world of laboratory equipment and analytical technologies.

IKA is a world leader in the laboratory equipment and analytical technology segment. With our background of more than 100 years of experience, we possess long-established and proven expertise in the development of innovative products for virtually all kinds of laboratories throughout the world.

The exceptional motivation and creativeness of our more than 800 employees is a vital factor in the development of new products as well as in the realization of new technologies that ensure our customers' greater safety and competitive edge.

Our cover is a collage of featured pictures of our Instagram followers from around the globe. We thank you for your inspiration.



IKAworlwide



IKAworlwide /// #lookattheblue



@IKAworlwide



4

/// MIXING

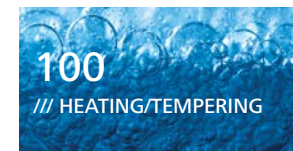
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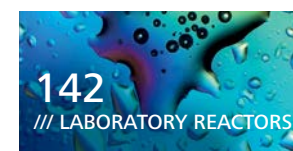
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Magnetic Stirrers

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 with white coated heating plate!

- > Offers excellent chemical resistance
- > Easy to clean

RET® control-visc



Integrated temperature sensor for precise temperature control



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



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



USB/RS 232 interface for connecting a PC, using labworldsoft® and enabling online updates of device software



Magnetic Stirrers with heating



**RH basic / digital
with white coated
heating plate**

- > Offers excellent chemical resistance
- > Easy to clean



Technical data	RH basic 2	RH basic RH basic white	RH digital RH digital white
Max. stirring quantity (H ₂ O)	10 l	15 l	15 l
Motor rating input / output	15 W	20 / 2 W	20 / 2 W
Speed range	100 – 2000 rpm	100 – 2000 rpm	100 – 2000 rpm
Speed display	scale (0 – 6)	scale	LED
Heat output	400 W	600 W	600 W
Temperature range	RT – 320 °C	50 – 320 °C	50 – 320 °C
Max. magnetic bar (L x Ø)	–	80 mm	80 mm
Safety circuit	400 °C (fixed)	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	stainless steel 1.4301 white ceramic	stainless steel 1.4301 white ceramic
Set-up plate dimensions	Ø 125 mm	Ø 135 mm	Ø 135 mm
Weight	2.4 kg	2.8 kg	2.8 kg
	Ident. No. 0003339000	Ident. No. 0005019700 Ident. No. 0005029700	Ident. No. 0005019800 Ident. No. 0004678000

**Best-
seller!**



Technical data	RCT basic	RET basic
Max. stirring quantity (H ₂ O)	20 l	20 l
Motor rating input / output	16 / 9 W	16 / 9 W
Speed range	50 – 1500 rpm	50 – 1700 rpm
Heat output	600 W	600 W
Temperature range	RT – 310 °C	RT – 340 °C
Adjustable safety circuit	50 – 360 °C	50 – 360 °C
Control accuracy with sensor	PT 1000: ± 1 K ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K	PT 1000: ± 1 K ETS-D5: ± 0.5 K ETS-D6: ± 0.2 K
Heating plate material	aluminum alloy	stainless steel 1.4301
Heating plate dimensions	Ø 135 mm	Ø 135 mm
Dimensions (W x D x H)	160 x 270 x 85 mm	160 x 270 x 95 mm
Weight	2.5 kg	2.5 kg
	Ident. No. 0003810000*	Ident. No. 0003622000

* PT 1000.60 included in delivery.

Accessories starting page 20 - 27

Magnetic Stirrers with heating



RET® control-visc with white coated heating plate!

- > Offers excellent chemical resistance
- > Easy to clean



RET® control-visc

Watch the video:
www.ika.com/video



Technical data

	RET® control-visc	RET® control-visc white
Max. stirring quantity (H ₂ O)	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 – 380 °C	50 – 380 °C
Control accuracy with sensor	PT 100: ± 0.2 K	PT 100: ± 0.2 K
Heating plate material	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 85 mm	160 x 270 x 85 mm
Weight	2.7 kg	2.7 kg

Ident. No. 0005020000*

Ident. No. 0005030000*

pH electrode
Possibility to connect pH electrode

TFT Display
TFT display for better image quality and easy navigation

Extra strong heating

Integrated temperature sensor for precise temperature control

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

RET® control-visc

Ncm %

Patented

Phil S. Baran Ph.D.
Darlene Shiley Professor
The Scripps Research Institute - La Jolla, CA, USA



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 weighing function and torque trend measurement

Magnetic Stirrers with heating



Watch the video now:
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 ₂ O)	5 l	10 l	15 l
Motor rating input / output	15 / 1.5 W	15 / 1.5 W	15 / 1.5 W
Speed range	100 – 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
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
	Ident. No. 0003581000	Ident. No. 0003581200 C-MAG HS 7 Package Ident. No. 0009015900	Ident. No. 0003581400

Package details on page 170

IKA®

PT 1000.60 temperature sensor included in the delivery.



Elevated control panel for protection against spilled liquids



LCD display for simultaneous display of target and actual temperatures



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

**C-MAG
HS 7
digital**



Hot Top indicator to prevent burns



Integrated temperature sensor for precise temperature control



Technical data	C-MAG HS 4 digital	C-MAG HS 7 digital	C-MAG HS 10 digital
Max. stirring quantity (H ₂ O)	5 l	10 l	15 l
Motor rating input / output	15 / 1.5 W	15 / 1.5 W	15 / 1.5 W
Speed range	100 – 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
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
	Ident. No. 0004240200*	Ident. No. 0003487000*	Ident. No. 0004240400*

* PT 1000.60 included in delivery

Accessories starting page 20 - 27

Multiposition Stirrers with / without heating

RT 15



Heating foil for homogeneous temperature distribution of the heating plate



Reverse rotation switch for better mixing results



Wear-free magnetic coils for consistent and silent operation

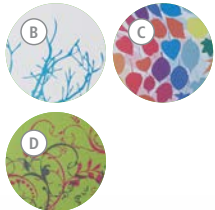
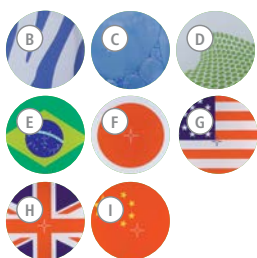


	RT 5	RT 10	RT 15
Technical data			
Number of stirring positions	5	10	15
Max. stirring quantity (H ₂ O)	0.4 l	0.4 l	0.4 l
Distance between stirring places	90 mm	90 mm	90 mm
Deviation for individual stirring positions	0%	0%	0%
Speed display	LED	LED	LED
Speed range	0 – 1000 rpm	0 – 1000 rpm	0 – 1000 rpm
Speed adjustment	10 rpm steps	10 rpm steps	10 rpm steps
Heat output	175 W	375 W	580 W
Temperature range heating 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
	Ident. No. 0003690600	Ident. No. 0003691100	Ident. No. 0003692600



	RO 5	RO 10	RO 15
Technical data			
Number of stirring positions	5	10	15
Max. stirring quantity (H ₂ O)	0.4 l	0.4 l	0.4 l
Distance between stirring places	90 mm	90 mm	90 mm
Deviation for individual stirring positions	0%	0%	0%
Speed display	LED	LED	LED
Speed range	0 – 1200 rpm	0 – 1200 rpm	0 – 1200 rpm
Speed adjustment	10 rpm steps	10 rpm steps	10 rpm steps
Set-up plate material	stainless steel 1.4301	stainless steel 1.4301	stainless steel 1.4301
Set-up plate dimensions	120 x 470 mm	190 x 470 mm	280 x 470 mm
Dimensions (W x D x H)	120 x 570 x 60 mm	190 x 570 x 60 mm	280 x 570 x 60 mm
Weight	3 kg	5 kg	7 kg
	Ident. No. 0003690500	Ident. No. 0003691000	Ident. No. 0003692500

Magnetic Stirrers without heating



Technical data

	color squid	big squid
Max. stirring quantity (H ₂ O)	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	185 x 205 x 45 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

- A Ident. No. 0003671000 white
 B Ident. No. 0003698200 zebra
 C Ident. No. 0003698300 bubbles
 D Ident. No. 0003698400 wave
 E Ident. No. 0004175500 seleção
 F Ident. No. 0004175300 solar sphere
 G Ident. No. 0004175100 stars and stripes
 H Ident. No. 0004175200 union Jack
 I Ident. No. 0004175400 red flag

- A Ident. No. 0003672000 white
 B Ident. No. 0003857200 frozen
 C Ident. No. 0003857100 leaves
 D Ident. No. 0003857300 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 (H₂O)
- > Available in various interesting motives

big squid

- > For maximum stirring quantity of 1.5 l (H₂O)
- > Higher speed range from 0 – 2500 rpm



IKA®+

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

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



Magnetic Stirrers without heating

NEW



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 ₂ O)	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	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
	Ident. No. 0025004132	Ident. No. 0003368000	Ident. No. 0003381300



Switchable reverse rotation every 30 seconds



Modern wear-free magnetic coil technology



lab disc



Ultra-flat for stirring quantities of up to 800 ml (H₂O)



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



- (A) Ident. No. 0003907500 white
- (B) Ident. No. 0003765000 pattern
- (C) Ident. No. 0003916100 stream

Magnetic Stirrers without heating

Maxi MR 1 digital



For stirring quantities up to 150 l (H₂O)



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 ₂ O)	5 l	50 l	150 l
Motor rating input / output	14 / 4 W	70 / 19 W	80 / 35 W
Speed range	0 – 1100 rpm	0 – 1000 rpm	0 – 600 rpm
Speed display	scale	LCD	LCD
Max. stirring bar length	50 mm	80 mm	155 mm
Speed adjustment	stepless	stepless	stepless
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	230 V	230 V	230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
	Ident. No. 0002812000	Ident. No. 0002621900	Ident. No. 0002621800

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 (H₂O)



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 ₂ O)	5 l	10 l	15 l
Motor rating input / output	15 / 1.5 W	15 / 1.5 W	15 / 1.5 W
Speed range	100 – 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
Speed display	scale	scale	scale
Max. stirring bar length	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	230 V	230 V	230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
	Ident. No. 0003582200	Ident. No. 0003582400	Ident. No. 0003582600

Magnetic Stirrers | Accessories

Electronic contact thermometers

- | | Ident. No. |
|---|------------|
| ① ETS-D5 | 0003378000 |
| Electronic contact thermometer, -50 – 450 °C, 0.1 K resolution | |
| ② ETS-D6 | 0003378100 |
| 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. |
|-------------------------------------|------------|
| ③ H 67.60 | 0025000215 |
| Temperature sensor, stainless steel | |
| H 67.61 | 0020003865 |
| Temperature sensor, stainless steel | |
| H 66.53 | 0004499900 |
| Temp. sensor, coated | |

ETS-D5 / D6 accessories

- | | Ident. No. |
|----------------------|------------|
| ④ H 70 | 0002735600 |
| Extension cable, 1 m | |

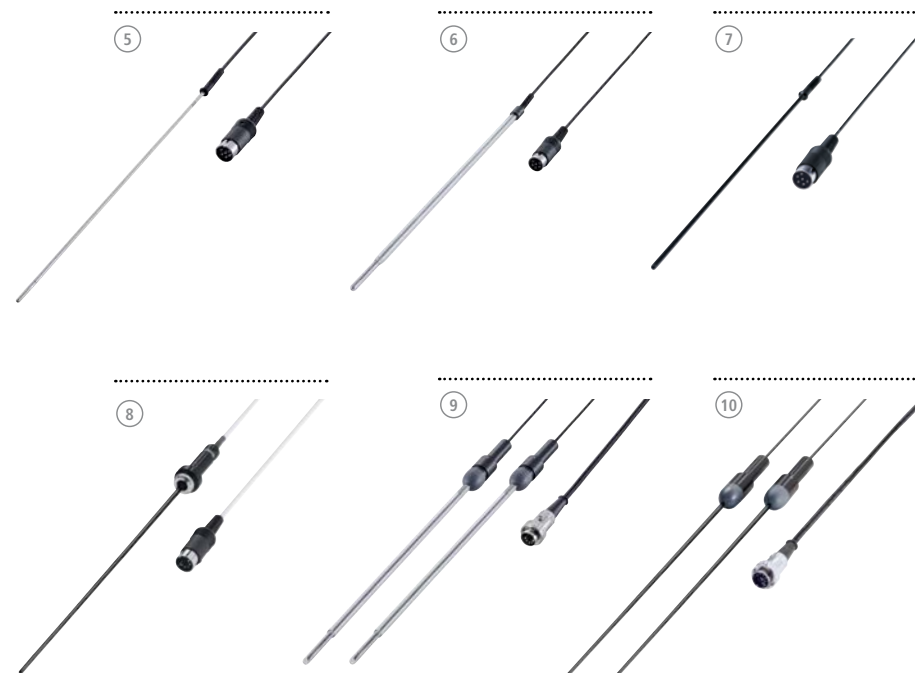
Temperature sensors for RCT / RET basic and C-MAG HS digital series

- | | Ident. No. |
|--|------------|
| ⑤ PT 1000.60 | 0003516800 |
| Temperature sensor, stainless steel, Ø 3 mm, 230 mm length | |
| ⑥ PT 1000.70 | 0003736000 |
| Temperature sensor, stainless steel, glass-coated, Ø 7 mm, 230 mm length | |
| PT 1000.80 | 0004443000 |
| Temperature sensor, stainless steel, Ø 3 mm, 150 mm length | |
| ⑦ PT 1000.90 | 0004480600 |
| Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm, 230 mm length | |



Temperature sensors for RET control/t and RET® control-visc

- | | Ident. No. |
|--|------------|
| PT 100.51 | 0002600300 |
| Temperature sensor, stainless steel, glass-coated, Ø 8 mm, 230 mm length | |
| ⑧ PT 100.53 | 0004499700 |
| Temperature sensor, stainless steel, coated with SafeCoat, Ø 3 mm, 230 mm length | |
| PT 100.70 | 0020000440 |
| Temperature sensor, stainless steel, Ø 3 mm, 230 mm length | |
| PT 1000.50 | 0003367600 |
| Temperature sensor, dual, stainless steel, Ø 3 mm, 230 mm length | |
| ⑨ PT 1000.51 | 0003377700 |
| Temperature sensor, dual, stainless steel, glass-coated, Ø 8 mm, 230 mm length | |
| ⑩ PT 1000.53 | 0004499800 |
| Temperature sensor, dual, coated with SafeCoat, Ø 3 mm, 230 mm length | |



Temperature sensor	PT 100.51	PT 100.53	PT 1000.70	ETS-D5	ETS-D6
Magnetic hotplate stirrer					
RH basic	☐	☐	☐	☒	☒
RH digital	☐	☐	☐	☒	☒
RCT basic	☐	☐	☒	☒	☒
RET® basic	☒	☐	☒	☒	☒
RET® control-visc	☐	☐	☒	☐	☐
C-MAG HS/HP analog series	☒	☒	☐	☐	☐
C-MAG HS digital series	☒	☒	☐	☐	☐

Magnetic Stirrers | Accessories

Advantages beaker, stainless steel

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



Oil bath attachments

Ident. No.

- ① **H 29** 0002829400
Oil bath attachment, 1 l, aluminum, inner Ø 136 – 180 mm, 81 mm height, for use with oil only

H 30 0002829500

Oil bath attachment, 1.5 l, aluminum, inner Ø 136 – 190 mm, 110 mm height, for use with oil only

Beakers

- ② **H 1000** 0004444401
Beaker, stainless steel, 1 l, inner Ø 160 mm, 79 mm height

- ③ **H 1500** 0004444501
Beaker, stainless steel, 1.5 l, inner Ø 140 mm, 160 mm height

- ④ **H 3000** 0004444503
Beaker, stainless steel, 3 l, inner Ø 180 mm, 119 mm height

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

- ⑥ **H 8000** 0004444508
Beaker, stainless steel, 8 l, inner Ø 265 mm, 162 mm height



Protective covers

- ⑦ **H 102** 0004281600
Cover for RH basic
- ⑧ **H 103** 0004299100
Cover for RH digital
- ⑨ **H 100** 0003661000
Cover for RET basic and RCT basic
- ⑩ **H 104** 0004209500
Cover for RET® control-visc

Other accessories

H 11

- ⑪ **Euro plug** 0001091500
USA plug 0003564500
UK plug 0002410700
CH plug 0001091600
Mains cable, spare

- ⑫ **H 16 V** 0001545100
Support rod, Ø 10 mm, 450 mm length

- ⑬ **H 16.3** 0025000622
Extension for support rod

- ⑭ **H 44** 0002437700
Boss head clamp

- ⑮ **H 38** 0003547700
Holding rod

- ⑯ **HG 600** 0020003416
Heating jacket for beaker 600 ml

- ⑰ **HG 1000** 0020003415
Heating jacket for beaker 1000 ml

- ⑱ **BC 1000** 0020003417
Beaker cap

C-MAG Adapter 0025001022

Heating block adapter for C-MAG

WICO RET control-visc 0020007259

Wireless remote control

Stirring bars

- ⑲ **RS 1** 0001358600

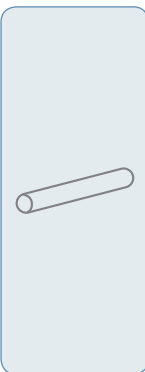
Consisting of IKAFLON® (10 – 80 mm) and TRIKA® (25 and 40 mm) magnetic stirring bars

- ⑳ **RS 2** 0004499100

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

- ㉑ **RSE** 0001293100
Stirring bar remover

Magnetic Stirrers | Accessories

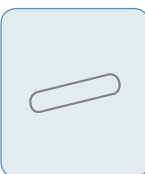


Stirring bars

IKAFLO[®] round

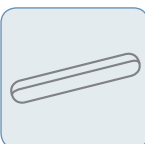
	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 10 Set (5 Pcs) round PTFE-coated	10 x 6 mm	0004488600
IKAFLO [®] 15 Set (5 Pcs) round PTFE-coated	15 x 6 mm	0004488700
IKAFLO [®] 20 Set (5 Pcs) round PTFE-coated	20 x 8 mm	0004488800
IKAFLO [®] 25 Set (5 Pcs) round PTFE-coated	25 x 8 mm	0004488900
IKAFLO [®] 30 Set (5 Pcs) round PTFE-coated	30 x 8 mm	0004489000
IKAFLO [®] 40 Set (5 Pcs) round PTFE-coated	40 x 8 mm	0004489100
IKAFLO [®] 50 Set (5 Pcs) round PTFE-coated	50 x 8 mm	0004489200
IKAFLO [®] 80 Set (5 Pcs) round PTFE-coated	80 x 10 mm	0004489300
IKAFLO [®] 110 round PTFE-coated*	108 x 27 mm	0000793300
IKAFLO [®] 155 round PTFE-coated*	153 x 27 mm	0001129000

* Used for large magnetic stirrers like Maxi MR 1 digital



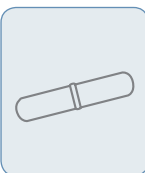
IKAFLO[®] glass round

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] glass 25 Set (5 Pcs) round	25 x 6 mm	0004492200
IKAFLO [®] glass 30 Set (5 Pcs) round	30 x 6 mm	0004492400
IKAFLO [®] glass 40 Set (5 Pcs) round	45 x 8 mm	0004492600
IKAFLO [®] glass 50 Set (5 Pcs) round	50 x 8 mm	0004492800



IKAFLO[®] power

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 20 Set (5 Pcs) power PTFE-coated	20 x 6 mm	0004493000
IKAFLO [®] 30 Set (5 Pcs) power PTFE-coated	30 x 6 mm	0004493200
IKAFLO [®] 50 Set (5 Pcs) power PTFE-coated	50 x 8 mm	0004493400



IKAFLO[®] slide round

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 25 Set (5 Pcs) slide round PTFE-coated	25 x 6 mm	0004493800
IKAFLO [®] 30 Set (5 Pcs) slide round PTFE-coated	30 x 6 mm	0004494000
IKAFLO [®] 40 Set (5 Pcs) slide round PTFE-coated	40 x 8 mm	0004494200
IKAFLO [®] 50 Set (5 Pcs) slide round PTFE-coated	50 x 8 mm	0004494400



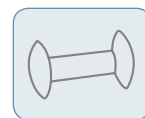
IKAFLO[®] ellipse

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 20 Set (5 Pcs) ellipse PTFE-coated	20 x 10 mm	0004494600
IKAFLO [®] 25 Set (5 Pcs) ellipse PTFE-coated	25 x 12 mm	0004494800
IKAFLO [®] 30 Set (5 Pcs) ellipse PTFE-coated	32 x 16 mm	0004495000
IKAFLO [®] 35 Set (5 Pcs) ellipse PTFE-coated	35 x 15 mm	0004495200
IKAFLO [®] 40 Set (5 Pcs) ellipse PTFE-coated	40 x 20 mm	0004495400
IKAFLO [®] 50 Set (5 Pcs) ellipse PTFE-coated	50 x 20 mm	0004495600
IKAFLO [®] 60 Set (5 Pcs) ellipse PTFE-coated	64 x 20 mm	0004495800
IKAFLO [®] 70 Set (5 Pcs) ellipse PTFE-coated	70 x 20 mm	0004496000



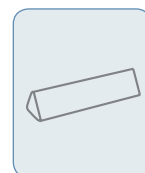
IKAFLO[®] cross

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 10 Set (5 Pcs) cross PTFE-coated	10 x 10 mm	0004496200
IKAFLO [®] 20 Set (5 Pcs) cross PTFE-coated	20 x 20 mm	0004496400
IKAFLO [®] 25 Set (5 Pcs) cross PTFE-coated	25 x 25 mm	0004496600
IKAFLO [®] 30 Set (5 Pcs) cross PTFE-coated	30 x 30 mm	0004496800
IKAFLO [®] 38 Set (5 Pcs) cross PTFE-coated	38 x 38 mm	0004497000



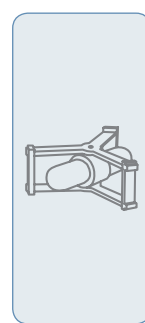
IKAFLO[®] bone

	Dimensions (L x Ø)	Ident. No.
IKAFLO [®] 37 Set (5 Pcs) bone PTFE-coated	35 x 8 x 20 mm	0004497200
IKAFLO [®] 54 Set (5 Pcs) bone PTFE-coated	55 x 8 x 20 mm	0004497400



TRIKA[®]

	Dimensions (L x Ø)	Ident. No.
TRIKA [®] 25 Set (5 Pcs) PTFE-coated	25 x 8 mm	0004499300
TRIKA [®] 35 Set (5 Pcs) PTFE-coated	35 x 9 mm	0004499400
TRIKA [®] 55 Set (5 Pcs) PTFE-coated	55 x 14 mm	0004499500
TRIKA [®] 80 Set (5 Pcs) PTFE-coated	80 x 17 mm	0004499600



IKAFLO[®] beaker

	(Ø x Height in mm, for beaker)	Ident. No.
IKAFLO [®] 67 beaker PTFE-coated	67 x 21 mm with 50 x 8	0004497600
IKAFLO [®] 74 beaker PTFE-coated	74 x 29 mm with 60 x 9	0004497800
IKAFLO [®] 103 beaker PTFE-coated	103 x 32 mm with 80 x 10	0004498000
IKAFLO [®] 125 beaker PTFE-coated	125 x 48 mm with 106 x 25	0004498200



IKAFLO[®] crown

	(Ø x Height in mm)	Ident. No.
IKAFLO [®] 9 Set (5 Pcs) crown PTFE-coated	9 x 6 mm	0004498400

* The admissible temperature range for PTFE-coated stirring bars is - 200 – 280 ° C.

Magnetic Stirrers | Accessories

Synthesis blocks

Material: aluminum anodized



Dry heating block square series

		Hole Ø	Dimensions	Ident. No.
1	H 135.10 square carrier without handle	—	160 x 160 mm	0025000832
2	H 135.11 square carrier with handle	—	160 x 160 mm	0004448200
	H 135.101 block 16 x 4 ml	15.2 mm	79 x 79 mm	0025000626
3	H 135.102 block 16 x 8 ml	17.5 mm	79 x 79 mm	0025000627
4	H 135.103 block 9 x 16 ml	20.5 mm	79 x 79 mm	0025000628
	H 135.104 block 4 x 20 ml	28.5 mm	79 x 79 mm	0025000629
5	H 135.105 block 4 x 30 ml	28.5 mm	79 x 79 mm	0025000630
	H 135.106 block 4 x 40 ml	28.5 mm	79 x 79 mm	0025000631
6	H 135.107 block 100 ml	—	79 x 79 mm	0025000632
	H 135.108 block 250 ml	—	79 x 79 mm	0025000633

100 ml flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.
7	H 135.20 flask carrier 100 ml without handle	142 mm	—	0025000634
8	H 135.21 flask carrier 100 ml with handle	142 mm	—	0004448300
	H 135.201 flask inlay 10 ml	—	33.8 mm	0025000636
	H 135.202 flask inlay 25 ml	—	43.8 mm	0025000637
	H 135.203 flask inlay 50 ml	—	52.8 mm	0025000638



250 ml flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.
9	H 135.25 flask carrier 250 ml without handle	142 mm	—	0025003280
	H 135.26 flask carrier 250 ml with handle	142 mm	—	0020007954

500 ml flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.
10	H 135.30 flask carrier 500 ml without handle	142 mm	—	0025000639
11	H 135.31 flask carrier 500 ml with handle	142 mm	—	0004448400
	H 135.301 flask inlay 100 ml	—	66.3 mm	0025000641
	H 135.302 flask inlay 250 ml	—	88 mm	0025000642

1000 ml flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.
12	H 135.40 flask carrier 1000 ml without handle	166.3 mm	—	0025000833
13	H 135.41 flask carrier 1000 ml with handle	166.3 mm	—	0004448500
14	H 135.401 flask inlay 500 ml	—	108 mm	0025000644

2000 ml flask heating block series

		Max. Outer Ø	Inner Ø	Ident. No.
15	H 135.50 flask carrier 2000 ml without handle	194.7 mm	—	0025000834
16	H 135.51 flask carrier 2000 ml with handle	194.7 mm	—	0004448600
	H 135.501 flask inlay 1000 ml	—	131.8 mm	0025000645

Available Q1/2016

Available Q2/2016

Overhead Stirrers



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



The wireless controller

- > Helps protect the user from toxic fumes
- > Preserving sample integrity



**EUROSTAR
100
control**



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



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



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

Electronic Overhead Stirrers



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



Digital display for precise monitoring of set and actual speeds



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



reddot design award
winner 2012



German Design Award
NOMINEE

Technical data

Stirring quantity max. (H ₂ O)	15 l
Max. viscosity	10,000 mPas
Motor rating input / output	70 / 42 W
Speed range	0/30 – 2000 rpm
Max. torque at stirring shaft	20 Ncm
Temp. sensor connection	no
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm
Weight	4.4 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

EUROSTAR 20 digital

replaces RW 14
EUROSTAR digital

Stirring quantity max. (H ₂ O)	25 l
Max. viscosity	30,000 mPas
Motor rating input / output	118 / 84 W
Speed range	0/30 – 2000 rpm
Max. torque at stirring shaft	40 Ncm
Temp. sensor connection	no
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm
Weight	4.4 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004442000

EUROSTAR 40 digital

replaces RW 16
EUROSTAR digital

Stirring quantity max. (H ₂ O)	40 l
Max. viscosity	50,000 mPas
Motor rating input / output	176 / 126 W 168 / 131 W
Speed range	0/30 – 2000 rpm
Max. torque at stirring shaft	60 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm 86 x 230 x 267 mm
Weight	4.4 kg 4.7 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004444000



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



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



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



External probe for accurate temperature control



Technical data

Stirring quantity max. (H ₂ O)	40 l
Max. viscosity	50,000 mPas
Motor rating input / output	176 / 126 W 168 / 131 W
Speed range	0/30 – 2000 rpm
Max. torque at stirring shaft	60 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm 86 x 230 x 267 mm
Weight	4.4 kg 4.7 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

EUROSTAR 60 digital | control

replaces EUROSTAR power basic;
EUROSTAR power control-visc

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	70,000 mPas
Motor rating input / output	186 / 136 W 174 / 142 W
Speed range	0/30 – 1300 rpm
Max. torque at stirring shaft	100 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm 86 x 230 x 267 mm
Weight	4.4 kg 4.7 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004446000
Ident. No. 0004440000*

EUROSTAR 100 digital | control

replaces EUROSTAR control-visc P1

Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	70,000 mPas
Motor rating input / output	186 / 136 W 174 / 142 W
Speed range	0/30 – 1300 rpm
Max. torque at stirring shaft	100 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	86 x 208 x 248 mm 86 x 230 x 267 mm
Weight	4.4 kg 4.7 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004238100
Ident. No. 0004028500*

* H 67.60 temperature sensor and WH 11 WiCo holder included in the delivery of all EUROSTAR control devices

Accessories starting page 36 - 41

Electronic Overhead Stirrers



Watch the video now:
www.ika.com/video



Available
 Q1/2016



Technical data

	EUROSTAR 200 digital control replaces EUROSTAR control-visc P4
Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	100,000 mPas
Motor rating input / output	130 / 84 W
Speed range	0/6 – 2000 rpm
Max. torque at stirring shaft	200 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	91 x 209 x 274 mm 91 x 231 x 297 mm
Weight	4.6 kg 4.9 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0003990000
 Ident. No. 0003992000*

EUROSTAR 400 digital | control

Stirring quantity max. (H ₂ O)	150 l
Max. viscosity	100,000 mPas
Motor rating input / output	220 / 176 W
Speed range	0/6 – 2000 rpm
Max. torque at stirring shaft	400 Ncm
Temp. sensor connection	no PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	114 x 245 x 300 mm 114 x 268 x 320 mm
Weight	7.8 kg 8.2 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004214000
 Ident. No. 0004214100*



EUROSTAR 20 high speed digital | control

replaces EUROSTAR power control-visc 6000	
Stirring quantity max. (H ₂ O)	20 l
Max. viscosity	10,000 mPas
Motor rating input / output	176 / 125 W
Speed range	0/150 – 6000 rpm
Max. torque at stirring shaft	20 Ncm
Temp. sensor connection	no PT 1000
Chuck range	fixed
Dimensions (W x D x H)	86 x 208 x 325 mm 86 x 230 x 325 mm
Weight	5.3 kg 4.7 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004028600
 Ident. No. 0025001314*

EUROSTAR 200 control P4

replaces EUROSTAR control-visc P7	
Stirring quantity max. (H ₂ O)	100 l
Max. viscosity	150,000 mPas
Motor rating input / output	134 / 76 W
Speed range	0/4 – 530 rpm
Max. torque at stirring shaft	660 Ncm
Temp. sensor connection	PT 1000
Chuck range	0.5 – 10 mm
Dimensions (W x D x H)	91 x 230 x 379 mm
Weight	5.8 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0004090000*

* H 67.60 temperature sensor and WH 11 WiCo holder
 included in the delivery of all EUROSTAR control devices

Accessories starting page 36 - 41

Mechanical Overhead Stirrers



Technical data

Stirring quantity max. (H ₂ O)	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

Ident. No. 0003593000

RW 20 digital

Technical data

Stirring quantity max. (H ₂ O)	80 l
Max. viscosity	50,000 mPas
Motor rating input/output	220 / 90 W
Permissible ON time	100%
Speed range	60 – 1400 rpm (50 Hz)
Max. torque at stirring shaft	900 Ncm
Display	LED
Temp. sensor connection	no
Chuck range	1 – 10 mm
Hollow shaft	yes
Dimensions (W x D x H)	123 x 252 x 364 mm
Weight	7.5 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 40

Ident. No. 0005040000

[RW 28 digital Package](#)

Ident. No. 0009023200

RW 28 digital

replaces RW 28 basic

RW 47 digital

replaces RW 47 D

Stirring quantity max. (H ₂ O)	200 l
Max. viscosity	100,000 mPas
Motor rating input/output	513 / 370 W
Permissible ON time	100%
Speed range	57 – 1300 rpm (50 Hz)
Max. torque at stirring shaft	3000 Ncm
Display	LED
Temp. sensor connection	no
Chuck range	3 – 16 mm
Hollow shaft	no
Dimensions (W x D x H)	145 x 358 x 465 mm
Weight	16 kg
Permissible ambient temp.	5 – 40 °C
Permissible relative moisture	80%
Protection class DIN EN 60529	IP 54

Ident. No. 0004050000

[RW 47 digital Package](#)

Ident. No. 0009023300



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.	0000741000	0000741300	0000739000
Stirrer (Ø)	50 mm	100 mm	150 mm
Shaft (Ø)	8 mm	8 mm	13 mm
Shaft length	350 mm	540 mm	800 mm

A B C
D E G

A B C
D E G

J



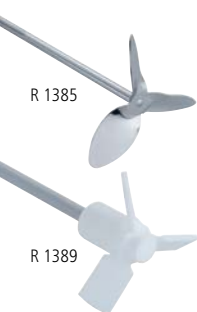
Propeller stirrer, 3-bladed

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
Ident. No.	0001296000	0001295900
Stirrer (Ø)	45 mm	55 mm
Shaft (Ø)	8 mm	8 mm
Shaft length	350 mm	350 mm

A B C
D E

A B C
D 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.	0000477700	0000477800	0002343600
Stirrer (Ø)	140 mm	140 mm	75 mm
Shaft (Ø)	10 mm	10 mm	8 mm
Shaft length	550 mm	800 mm	350 mm

A B C
D E G
H

A B C
D E G
H

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.	0002332900	0002333000	0002333100
Stirrer (Ø)	30 mm	50 mm	70 mm
Shaft (Ø)	8 mm	8 mm	10 mm
Shaft length	350 mm	350 mm	400 mm

A C F

A B C
D E G

A B C
D E G



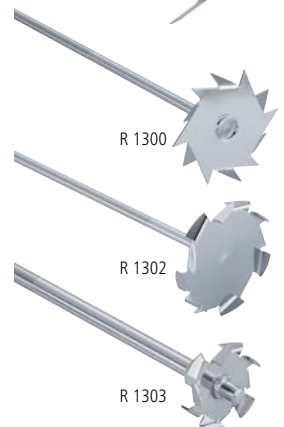
Centrifugal stirrer

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.	0000756900	0001132700
Stirrer (Ø)	60 / 15 mm	100 / 24 mm
Shaft (Ø)	8 mm	8 mm
Shaft length	350 mm	550 mm

A B C
D E G

A B C
D E G



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
Ident. No.	0000513500	0002387900	0002746700
Stirrer (Ø)	80 mm	100 mm	42 mm
Shaft (Ø)	8 mm	10 mm	8 mm
Shaft length	350 mm	350 mm	350 mm

A B C
D E G
H

A B C
D E G
H

A B C
D E G
H



EUROSTAR 20 | 40
digital



EUROSTAR 60
digital | control



EUROSTAR 100
digital | control



EUROSTAR 200
digital | control



EUROSTAR 400
digital | control



EUROSTAR 200
control P4



EUROSTAR 20 high
speed digital | control



RW 20
digital



RW 28
digital



RW 47
digital

A

B

C

D

E

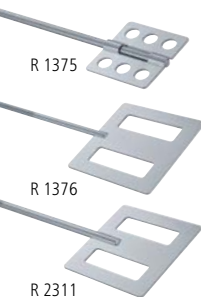
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H

I

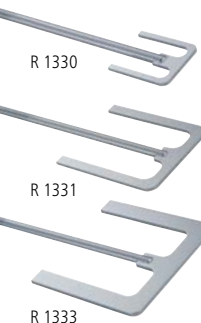
Overhead Stirrers | Accessories



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.	0000757700	0000757800	0000739500
Stirrer (Ø)	70 mm	150 mm	150 mm
Shaft (Ø)	8 mm	10 mm	13 mm
Shaft length	550 mm	550 mm	800 mm



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.

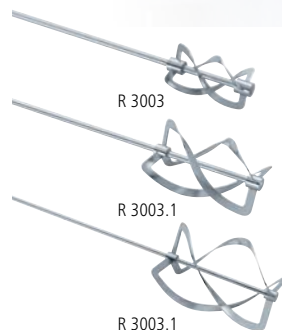
Name	R 1330	R 1331	R 1333
Ident. No.	0002022300	0002022400	0002747400
Stirrer (Ø)	45 mm	90 mm	150 mm
Shaft (Ø)	8 mm	8 mm	10 mm
Shaft length	350 mm	350 mm	550 mm



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



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



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



EUROSTAR 20 | 40
digital



EUROSTAR 60
digital | control



EUROSTAR 100
digital | control



EUROSTAR 200
digital | control



EUROSTAR 400
digital | control



EUROSTAR 200
control P4



EUROSTAR 20 high
speed digital | control



RW 20
digital



RW 28
digital



RW 47
digital

A

B

C

D

E

F

G

H

I

Overhead Stirrers | Accessories

EUROSTAR 20 high speed digital | control accessories

	Ident. No.
1 R 1401	0001242900
Propeller blade, Ø 55 mm	
2 R 1402	0001243300
Dissolver, Ø 42 mm	
3 R 1405	0001289800
Propeller blade, Ø 45 mm	

RW 47 digital accessories

	Ident. No.
4 R 303	0030000257
Stirring shaft protection for RW 47 digital	
5 SI 400	0003294800
Safety switch	
6 SI 472	0003264000
Fixing device for R 472 stand	
7 SI 474	0003264400
Fixing device for R 474 and T 653 stand	

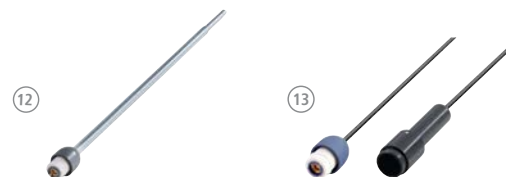
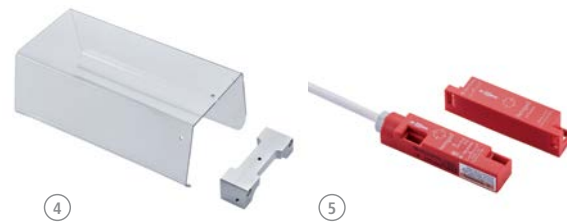
RW 20 digital & EUROSTAR series accessories

	Ident. No.
8 FK 1	0002336000
Flexible coupling, clamping range 6 – 10 mm	
9 R 60	0003889500
Keyless chuck for EUROSTAR 20 / 40 / 60 / 100 series	
10 R 301	0002603000
Stirring shaft protection, plexiglass	
11 R 301.1	0002604000
Support holder for R 301	

EUROSTAR control series accessories

	Ident. No.
12 H 66.51*	0002735551
Temperature sensor, stainless steel, glass-coated, Ø 6 mm, 260 mm length	
H 66.53*	0004499900
Temperature sensor, coated with SafeCoat, Ø 3 mm, 260 mm length	
H 67.60	0025000215
Temperature sensor, stainless steel, Ø 3 mm	
H 67.61	0020003865
Temperature sensor, stainless steel, Ø 3 mm, response time 0.9 = 4 s	
13 H 70*	0002735600
Extension cable, 1 m	
WH 11	0025001500
Wall mount for WiCo	
labworldsoft®	0004720000
Laboratory software	

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



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.



Versatile and adjustable vortex mixer

- > Compact design
- > Various applications easily interchangeable with our attachments and inserts (e.g. Eppendorf tubes, microtiter plates, Erlenmeyer flasks etc.)



Vortex 2



Continuous or touch operation



Wide speed range enables intensive mixing, even for small vessels



Orbital action

Shakers

MS 3
digital

Orbital action

Wide range of
attachmentsContinuous or touch
operation

NEW



Technical data	lab dancer	Vortex 1	Vortex 2
Type of movement	orbital	orbital	orbital
Shaking diameter	4.5 mm	4.5 mm	4 mm
Permissible shaking weight (incl. attachment)	max. 50 ml (1 test tube)	0.1 kg	0.4 kg
Motor rating input / output	1.2 / 0.8 W	1.2 / 0.8 W	39 / 9 W
Speed range	2800 rpm (fixed)	1000 – 2800 rpm	500 – 2500 rpm
Speed display	none	none	scale (0 – 6)
Timer display	none	none	none
Operating mode	touch operation	touch operation	continuous operation / touch operation
Dimensions (W x D x H)	100 x 70 mm (Ø x H)	95 x 110 x 70 mm	120 x 138 x 140 mm
Weight	0.55 kg	0.55 kg	3.9 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
	Ident. No. 0003365000	Ident. No. 0004047700	Ident. No. 0025000258

*hands
for children*
by IKA



Orbital action

Wide speed range enables
intensive mixing, even for
small vesselsDifferent applications easily
handled with interchangeable
attachments and inserts

Vortex 3



Technical data	Vortex 3	MS 3 basic digital	Vortex 4 basic digital
Type of movement	orbital	orbital	orbital
Shaking diameter	4 mm	4.5 mm	4.5 mm
Permissible shaking weight (incl. attachment)	0.4 kg	0.5 kg	0.5 kg
Motor rating input / output	58 / 10 W	10 / 8 W	10 / 8 W
Speed range	500 – 2500 rpm	200 – 3000 rpm	200 – 3000 rpm
Speed display	scale (0 – 6)	scale digital	scale digital
Timer display	none	none digital	none digital
Operating mode	continuous / touch operation	continuous / touch operation timer and continuous / touch operation	continuous / touch operation timer and continuous / touch operation
Dimensions (W x D x H)	127 x 149 x 136 mm	148 x 205 x 63 mm	176 x 190 x 63 mm
Weight	4.5 kg	2.9 kg	3 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%	80%
	Ident. No. 0003340000	Ident. No. 0003617000 Ident. No. 0003319000	Ident. No. 0004049600 Ident. No. 0004050100

Shakers

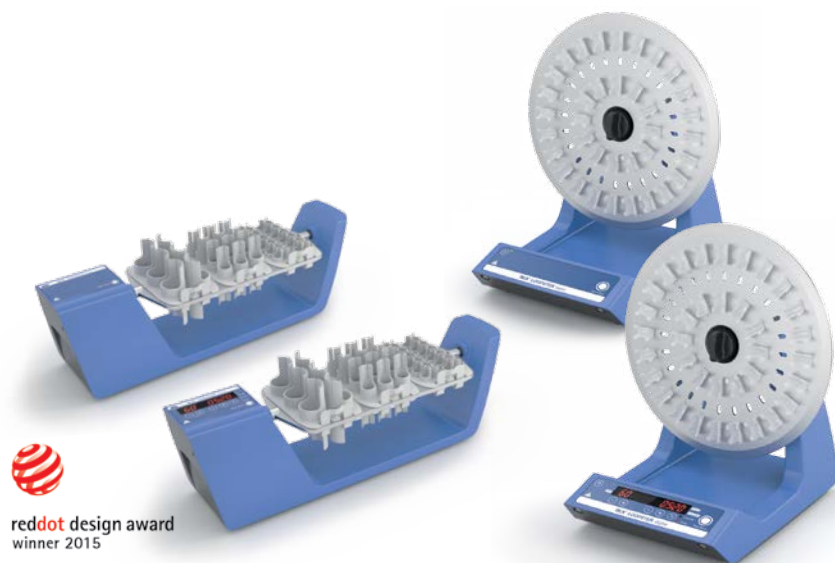


Technical data	VXR basic	MTS 2/4 digital Microtiter shaker
Type of movement	orbital	orbital
Shaking diameter	4 mm	3 mm
Permissible shaking weight (incl. attachment)	2 kg	2 or 4 microtiter plates (MTP)
Motor rating input / output	35 / 13.2 W	35 / 13.2 W
Speed range	0 – 2200 rpm	0 – 1100 rpm
Speed display	scale	scale
Timer display	none	∞ / 1 – 99 min
Operating mode	continuous operation	timer and continuous operation
Dimensions (W x D x H)	157 x 247 x 130 mm	185 x 320 x 105 mm
Weight	6.1 kg	2.7 kg
Permissible ambient temp.	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80%	80%
	Ident. No. 0002819000	Ident. No. 0003208000

Accessories starting page 56 - 63



Shakers



reddot design award
winner 2015

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 180 mm	300 x 300 x 360 mm
Weight	1.7 kg	3 kg
	Ident. No. 0004005000* Ident. No. 0004006000*	Ident. No. 0004015000* Ident. No. 0004016000*

* Loopster and Trayster accessories
have to be ordered separately



Loopster
digital



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



90 degree adjustable
mixing angle



Touch keypad for
easy operation



Rotating action



Timer display for accurate and
reproducible conditions

Accessories starting page 56 - 63

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 2.3 kg

Ident. No. 0004002000*
Ident. No. 0004003000*

Ident. No. 0004000000*
Ident. No. 0004001000*

Roller 6
digital



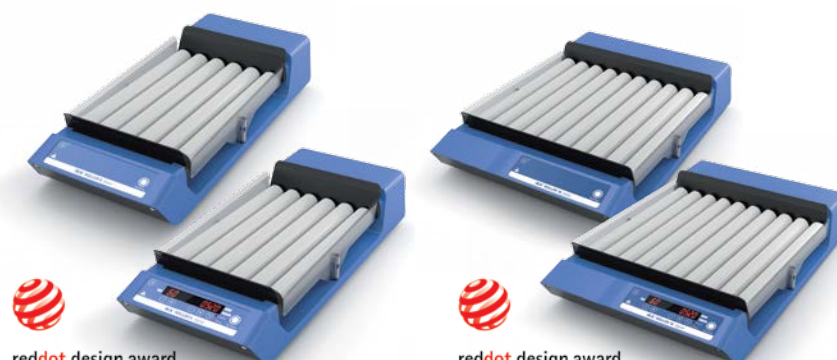
Touch keypad for
easy operation

Timer
Display

Timer display for accurate
and reproducible conditions



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



reddot design award
winner 2015

reddot design award
winner 2015

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 kg	6 kg

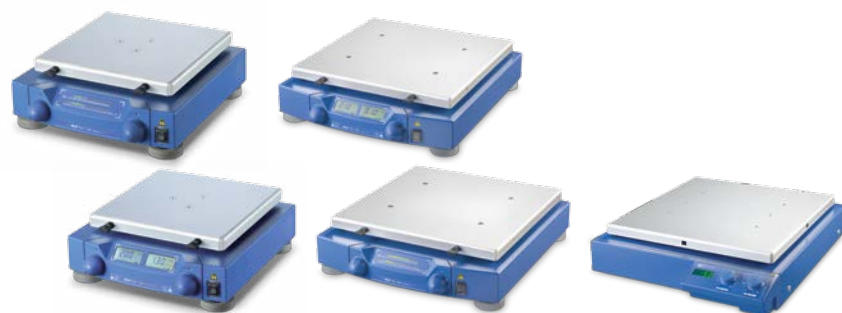
Ident. No. 0004010000
Ident. No. 0004011000

Ident. No. 0004012000
Ident. No. 0004013000

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

Accessories starting page 56 - 63

Shakers



	KS 130 basic control (NOL*)	HS 260 basic control (NOL*)	HS 501 digital
Technical data		<i>*No end-point positioning</i>	
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 digital	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%
	KS 130 basic Ident. No. 0002980000 KS 130 control Ident. No. 0002980100 KS 130 control NOL* Ident. No. 0004278200	HS 260 basic Ident. No. 0003066600 HS 260 control Ident. No. 0003066700 HS 260 control NOL* Ident. No. 0004278600	Ident. No. 0002527000



Wide range of attachment combinations



Orbital action

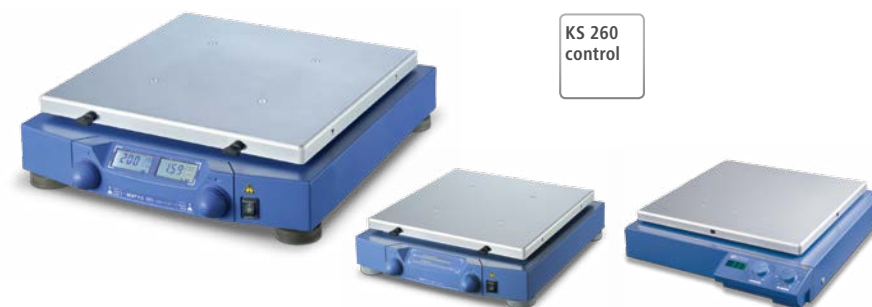


Digital display allows reading of speed, timer function and operating modes



All functions can be controlled and documented with labworldsoft®

KS 260 control



	KS 260 basic KS 260 control KS 260 control (NOL*)	KS 501 digital
Technical data	<i>*No end-point positioning</i>	
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	50 – 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%
	KS 260 basic Ident. No. 0002980200 KS 260 control Ident. No. 0002980300 KS 260 control NOL* Ident. No. 0004278400	Ident. No. 0002526400

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
Permissible ON time	100%	100%
Speed range	10 – 500 rpm	10 – 500 rpm
Heating temperature range	RT +5 °C – 80 °C RT -10 °C – 80 °C	RT +5 °C – 80 °C RT -10 °C – 80 °C
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
Permissible relative moisture	80%	80%
Built-in cooling coil	no yes	no yes
	Ident. No. 0003940000 Ident. No. 0003940100	Ident. No. 0003510000 Ident. No. 0003510100

KS 3000
ic controlKS 4000
ic controlAssure highly accurate
temperature control

Orbital action

Built-in cooling coil for connection
to an external cooling unit
(available only for KS 3000 ic
/ KS 4000 ic control)Wide range of attachments
allows using almost all
shapes and sizes of vesselsUSB interface to control and
document all parameters using
labworldsoft® software and for
updating your firmware

Shakers | Accessories



Vortex 2 / Vortex 3 accessories

	Ident. No.		
1 VG 3.1	0003341200	6 VG 3.33*	0003344000
Standard attachment		Test tube attachment, 12 x Ø 12 mm	
2 VG 3.2	0003342300	7 VG 3.34*	0003344100
One-hand attachment, 88 mm		Test tube attachment, 8 x Ø 16 mm	
3 VG 3.3	0003342400	8 VG 3.35*	0003344200
Universal attachment, 150 mm		Test tube attachment, 8 x Ø 20 mm	
4 VG 3.31*	0003344300	9 VG 3.36*	0003342100
Test tube attachment for 54 Eppendorf tubes		Erlenmeyer flask attachment, 100 – 250 ml	
5 VG 3.32*	0003343900	10 VG 3.37*	0003344400
Test tube attachment, 18 x Ø 10 mm		Microtiter plate attachment	

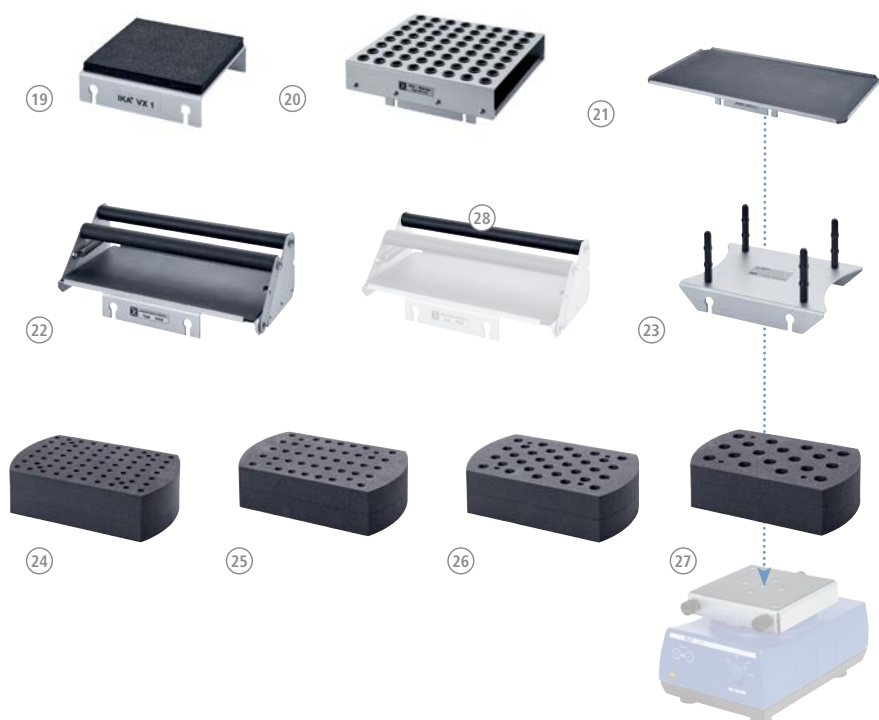


MS 3 basic / digital accessories

	Ident. No.		
11 MS 3.1	0003426300	15 MS 1.33	L001860
Standard attachment		Test tube insert, 4 x Ø 16 mm	
12 MS 3.3	0003426600	16 MS 1.34	L001830
Universal attachment		Test tube insert, without holes	
13 MS 1.21	L001540	17 MS 3.4	0003426400
One-hand insert		Microtiter plate attachment	
MS 1.31	L001840	18 MS 3.5	0003428000
Test tube insert, 14 x Ø 10 mm		PCR plate attachment, 96-well	
14 MS 1.32	L001850		
Test tube insert, 6 x Ø 12 mm			



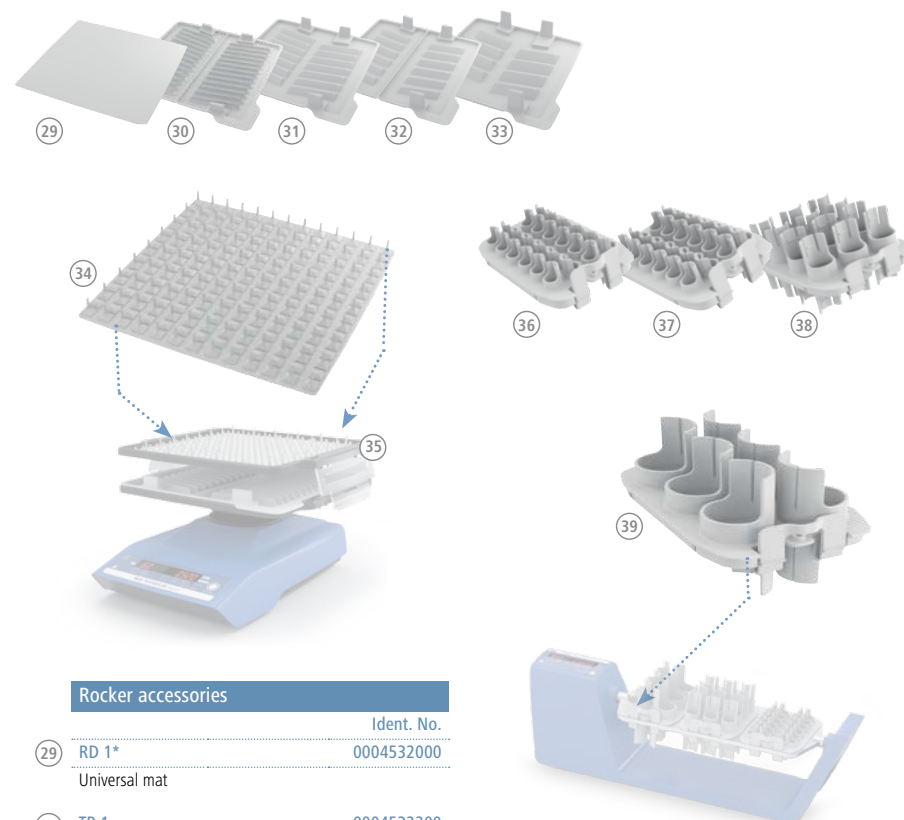
Shakers | Accessories



VXR basic accessories

	Ident. No.
19 VX 1	0000607200
One-hand attachment, 1 – 250 ml	
VX 2	0000568900
Test tube attachment, 36 x Ø 16 mm	
20 VX 2E	0001618100
Eppendorf attachment, 64 x 1.5 ml	
21 VX 7	0000953300
Dish attachment, 410 x 210 mm	
22 VX 8	0000910400
Universal attachment, 265 x 136 mm	

23 VX 11	0003627700
Basic holder	
24 VX 11.1	0003659000
Test tube insert, 70 x Ø 10 mm	
25 VX 11.2	0003659100
Test tube insert, 41 x Ø 12 mm	
26 VX 11.3	0003659200
Test tube insert, 32 x Ø 16 mm	
27 VX 11.4	0003659300
Test tube insert, 18 x Ø 20 mm	
28 VX 8.1	0003375400
Clamping roll	



Rocker accessories

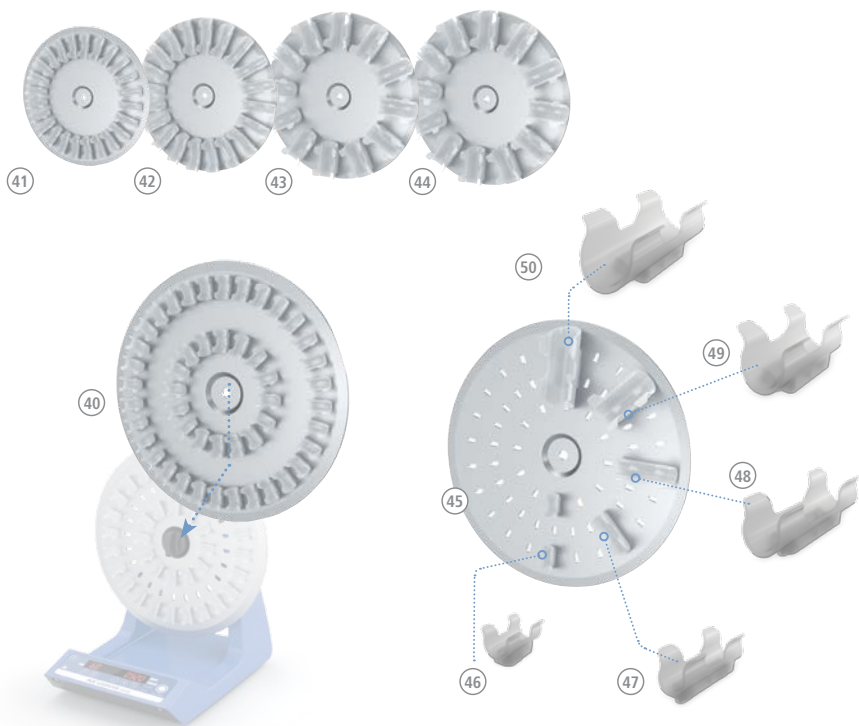
	Ident. No.
29 RD 1*	0004532000
Universal mat	
30 TB 1	0004532200
Tray, 28 x 5 ml, Ø 12 mm	
31 TB 2	0004532300
Tray, 16 x 15 ml, Ø 16 mm	
32 TB 3	0004532400
Tray, 14 x 30 ml, Ø 25 mm	
33 TB 4	0004532500
Tray, 10 x 50 ml, Ø 28 mm	
34 RD 2	0004532100
Burled mat	
35 A 2	0004581700
Second level attachment	

Trayster accessories

	Ident. No.
36 TR 1	0004525100
Tube insert, 24 x 1.5 ml, Ø 10 mm	
37 TR 2	0004525200
Tube insert, 24 x 5 ml, Ø 12 mm	
38 TR 3	0004525300
Tube insert, 12 x 15 ml, Ø 16 mm	
39 TR 4	0004525400
Tube insert, 6 x 50 ml, Ø 28 mm	

* Included in the delivery

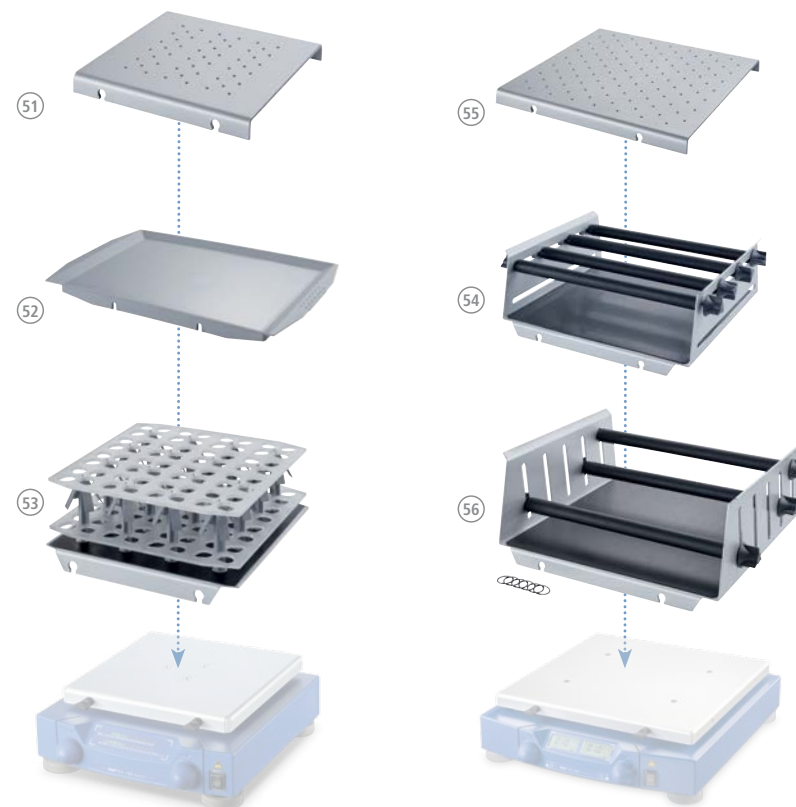
Shakers | Accessories



Loopster accessories

	Ident. No.
40 DS 1	0004524000
Tube attachment, 48 x 1.5 ml, Ø 10 mm	
41 DS 2	0004524100
Tube attachment, 24 x 5 ml, Ø 12 mm	
42 DS 3	0004524200
Tube attachment, 20 x 15 ml, Ø 16 mm	
43 DS 4	0004524300
Tube attachment, 12 x 30 ml, Ø 25 mm	
44 DS 5	0004524400
Tube attachment, 12 x 50 ml, Ø 28 mm	

45 DS 6	0004524500
Universal disc	
46 DS 6.1	0004524600
Spare clips, Ø 10 mm, 12 pcs.	
47 DS 6.2	0004524700
Spare clips, Ø 12 mm, 12 pcs.	
48 DS 6.3	0004524800
Spare clips, Ø 16 mm, 12 pcs.	
49 DS 6.4	0004524900
Spare clips, Ø 25 mm, 12 pcs.	
50 DS 6.5	0004525000
Spare clips, Ø 28 mm, 12 pcs.	



KS 130 basic / control accessories

	Ident. No.
AS 130.1	0008017300
Universal attachment, set-up plate 220 x 220 mm	
51 AS 130.2	0003115000
Fixing clip attachment, set-up plate 230 x 230 mm	
52 AS 130.3	0003120000
Dish attachment, set-up plate 220 x 340 mm	
53 AS 130.4	0003120300
Test tube attachment, 64 x Ø 10 – 16 mm	

KS / HS 260 basic / control and KS 3000 accessories

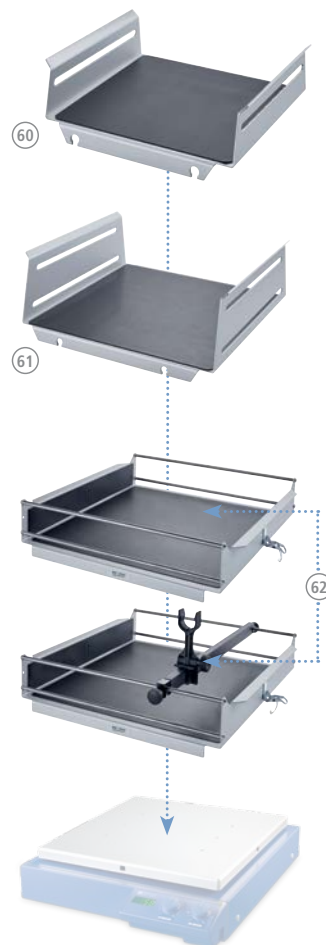
	Ident. No.
AS 260.1	0008017400
Universal attachment, set-up plate 320 x 320 mm	
55 AS 260.2	0003115500
Fixing clip attachment, set-up plate 330 x 330 mm	
AS 260.3	0003120600
Dish attachment, set-up plate 320 x 320 mm	
56 AS 260.5	0003120900
Separating funnel attachment	

Shakers | Accessories



KS / HS 501 digital accessories

	Ident. No.
57 AS 501.1	0008000200
Universal attachment, set-up plate 420 x 420 mm	
58 AS 501.4	0002341100
Fixing clip attachment, set-up plate 450 x 450 mm	
AS 501.5	0002339600
Dish attachment, set-up plate 420 x 420 mm	
59 AS 501.2	0008000300
Separating funnel attachment, 480 x 505 x 190 mm	
AS 501.3	0008000400
Separating funnel attachment, 480 x 505 x 190 mm	
AS 501.6	0008000500
Separating funnel attachment, 480 x 505 x 225 mm	



Other accessories

	Ident. No.
60 AS 1.30	0003148000
Basic holder for AS 130.1	
61 AS 1.60	0003149000
Basic holder for AS 260.1	
62 AS 1.10	0002339700
Basic holder for AS 501.1	
63 AS 1.31 AS 1.61 AS 1.11	0003030500
	0003030501
	0002339800
Clamping roll for AS 130.1, AS 260.1, AS 501.1	



	Ident. No.
AS 1.6	0001268400
Clamping device for AS 501.1	
64 AS 1.7	0001269200
Clamping device for AS 501.1	
AS 1.12	0002594500
Supporting bar for AS 1.10	
65 AS 1.13	0002597000
Ground section holder for AS 1.10	



	Ident. No.
66 AS 2.1	0001234300
Fixing clips, 25 ml	
67 AS 2.2	0001234400
Fixing clips, 50 ml	
68 AS 2.3	0001234500
Fixing clips, 100 ml	
69 AS 2.4	0001234600
Fixing clips, 200 / 250 ml	
70 AS 2.5	0001234700
Fixing clips, 500 ml	
71 AS 2.6	0003819300
Fixing clips, 1000 ml	

IKA®+
STICKMAX
 Universal adhesive mat,
 200 x 200 mm

Ident. No. 0003920000



KS 4000 accessories i / ic control accessories

	Ident. No.
72 AS 4000.1	0008022200
Universal attachment, set-up plate 380 x 410 mm	
73 AS 4000.2	0003710100
Fixing clip attachment, set-up plate 430 x 430 mm	
74 AS 4000.3	0003710000
Dish attachment, set-up plate 430 x 430 mm	
75 AS 1.400	0003710200
Basic holder for AS 4000.1	
76 AS 1.401	0003712000
Clamping roll for AS 4000.1	
77 AS 1.402	0003712300
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!

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



reddot design award
winner 2012



German
Design Award
NOMINEE



T 25
digital

Digital
Display

Digital display for
precise monitoring of
set and actual speeds



Wide selection of
dispersing tools to suit
your application



Motor protection
against overload



Quick-connect coupling
to exchange dispersing
tools easily

ULTRA-TURRAX® Tube Drive

Patented



Technical data

	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	LED (timer) / scale	OLED / digital
Timer	1 s – 29 min	10 s – 30 min (infinitely adjustable)
Reverse rotation interval	–	10 – 60 s
Dimensions (W x D x H)	100 x 160 x 40 mm	122 x 178 x 54 mm
Weight	0.75 kg	0.9 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

Ident. No. 0003646000

Ident. No. 0004135300



Included with delivery

	ULTRA-TURRAX® Tube Drive 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

Ident. No. 0003645000

Ident. No. 0003827500

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



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 now:
www.ika.com/video



Accessories starting page 70 - 71

T-series ULTRA-TURRAX® Dispersers



T 10 standard
PCR kit



Watch the video:
www.ika.com/video



Dispersing tools are not
included in delivery

Technical data

	T 10 basic T 10 standard PCR kit	T 18 digital	T 25 digital
Motor rating input / output	125 / 75 W	500 / 300 W	700 / 500 W
Volume range (H ₂ O)	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	230 V	200 – 240 V	200 – 240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz

T 10 basic
Ident. No. 0003737000
T 10 PCR kit
Ident. No. 0004095500

T 18 digital
Ident. No. 0003720000
T 18 digital Package
Ident. No. 0009022800

Ident. No. 0003725000

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 ₂ O)	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	30 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	200 – 240 V	3 x 400 / 3 x 230 V	3 x 400 / 3 x 230 V
Frequency	50/60 Hz	50 Hz	50/60 Hz

Ident. No. 0003787000

Ident. No. 0004023500
T 65 basic Package
Ident. No. 0009023400

Ident. No. 0004234500
T 65 digital Package
Ident. No. 0009023500

ULTRA-TURRAX® Tube Drive | Accessories



ST Tube with stirring devices

	Ident. No.
ST-20 (pack of 25)	0003703000
ST-20-M-gamma (pack of 20)	0003700500
ST-50 (pack of 10)	0003699500
ST-50-M (pack of 10)	0003629500
ST-50-M-gamma (pack of 10)	0003701500



DT Tube with rotor-stator element

	Ident. No.
DT-20 (pack of 25)*	0003703100
DT-20-M-gamma (pack of 20)*	0003700600
DT-20 eco (pack of 25)**	0020003207
DT-50 (pack of 10)*	0003699600
DT-50-M (pack of 10)*	0003629600
DT-50-M-gamma (pack of 10)*	0003701600
DT-50 eco (pack of 10)**	0020003213

* 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.
BMT-20-S (pack of 25)	0003703200
BMT-20-G (pack of 25)	0003703300
BMT-20-S-M-gamma (pack of 20)	0003700700
BMT-50-S (pack of 10)	0003699700
BMT-50-G (pack of 10)	0003699800
BMT-50-S-M (pack of 10)	0003629700
BMT-50-G-M (pack of 10)	0003629800
BMT-50-S-M-gamma (pack of 10)	0003701700



Cover for BMT tube

	Ident. No.
TC-50; for 50 ml tubes (10 pcs.)	0003749800
TC-20-M; with pierceable membrane for 20 ml tubes (25 pcs.)	0003749900
TC-50-M; with pierceable membrane for 50 ml tubes (10 pcs.)	0003750000

Balls for BMT tube

	Ident. No.
Glass balls Ø 6 mm (250 g)	0003599200
Stainless steel balls Ø 5 mm (250 g)	0003599300



Dispersing tools | T 10 basic



	T 10 basic / standard stainless steel, standard		
Dispersing element	S 10 N – 5 G	S 10 N – 8 G	S 10 N – 10 G
Ident. No.	0003304000	0003305500	0003370100
Working range	0.5 – 10 ml	1 – 50 ml	1 – 100 ml
Stator / Rotor diameter	5 / 3.8 mm	8 / 6.1 mm	10 / 7.6 mm
Gap between rotor and stator	0.1 mm	0.25 mm	0.2 mm
Min. / max. immersion depth	20 / 75 mm	20 / 95 mm	20 / 100 mm
Shaft length	92 mm	115 mm	115 mm
Circumferential speed max.	6 m/s	9.6 m/s	11.9 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L



	T 10 basic / standard stainless steel, sawtooth	
Dispersing element	S 10 N – 8 G – ST	S 10 N – 10 G – ST
Ident. No.	0004446500	0004446700
Working range	1 – 50 ml	1 – 100 ml
Stator / Rotor diameter	8 / 6.1 mm	10 / 7.5 mm
Gap between rotor and stator	0.25 mm	0.25 mm
Min. / max. immersion depth	22 / 95 mm	23 / 100 mm
Shaft length	115 mm	115 mm
Circumferential speed max.	9.6 m/s	11.8 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L



	T 10 basic / standard plastic, disposable	
Dispersing element	S 10 D – 7 G – KS – 65	S 10 D – 7 G – KS – 110
Ident. No.	0020002076 (24 pcs.)	0020002075 (24 pcs.)
Working range	1 – 20 ml	1 – 40 ml
Stator / Rotor diameter	7 / 4.8 mm	7 / 4.8 mm
Gap between rotor and stator	0.3 mm	0.3 mm
Min. / max. immersion depth	20 / 45 mm	20 / 90 mm
Shaft length	65 mm	110 mm
Circumferential speed max.	7.5 m/s	7.5 m/s
Materials in contact with medium	Polycarbonate (PC) Polysulfon (PSU)	Polycarbonate (PC) Polysulfon (PSU)

Dispersing tools | T 18 digital



	T 18 digital stainless steel, standard	
Dispersing element	S 18 N – 10 G	S 18 N – 19 G
Ident. No.	L004639	L004640
Working range	1 – 100 ml	10 – 1500 ml
Stator / Rotor diameter	10 / 7.5 mm	19 / 12.7 mm
Gap between rotor and stator	0.35 mm	0.4 mm
Min. / max. immersion depth	25 / 70 mm	35 / 170 mm
Shaft length	108 mm	204 mm
Circumferential speed max.	9.8 m/s	16.6 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L



	T 18 digital plastic, disposable	
Dispersing element	S 18 D – 10 G – KS	S 18 D – 14 G – KS
Ident. No.	0003452400 (12 pcs.)	0003452300 (12 pcs.)
Working range	10 – 100 ml	10 – 500 ml
Stator / Rotor diameter	10 / 6.75 mm	14 / 9.5 mm
Gap between rotor and stator	0.25 mm	0.35 mm
Min. / max. immersion depth	15 / 85 mm	15 / 85 mm
Shaft length	150 mm	150 mm
Circumferential speed max.	8.5 m/s	12 m/s
Materials in contact with medium	Polycarbonate (PC) Polyetheretherketon (PEEK)	Polycarbonate (PC) Polyetheretherketon (PEEK)



Disposable tube S 18 / 25-ET50

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

Ident. No.	0003452500
Material	PP

Dispersing tools | T 25 digital

	T 25 digital stainless steel, standard	
Dispersing element	S 25 N – 8 G	S 25 N – 10 G
Ident. No.	0001024200	0000594000
Working range	1 – 50 ml	1 – 100 ml
Stator / Rotor diameter	8 / 6.1 mm	10 / 7.5 mm
Gap between rotor and stator	0.25 mm	0.35 mm
Min. / max. immersion depth	27 / 85 mm	22 / 85 mm
Shaft length	108 mm	105 mm
Circumferential speed max.	8.0 m/s	9.8 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

	T 25 digital stainless steel, standard	
Dispersing element	S 25 N – 18 G	S 25 NK – 19 G
Ident. No.	0000593400	0002494700
Working range	10 – 1500 ml	25 – 1500 ml
Stator / Rotor diameter	18 / 12.7 mm	19 / 12.7 mm
Gap between rotor and stator	0.3 mm	0.3 mm
Min. / max. immersion depth	40 / 165 mm	40 / 165 mm
Shaft length	194 mm	194 mm
Circumferential speed max.	16.6 m/s	15.9 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

	T 25 digital stainless steel, standard	
Dispersing element	S 25 N – 25 G	S 25 N – 25 F
Ident. No.	0001713300	0001713800
Working range	50 – 2000 ml	100 – 2000 ml
Stator / Rotor diameter	25 / 17 mm	25 / 18 mm
Gap between rotor and stator	0.5 mm	0.5 mm
Min. / max. immersion depth	40 / 165 mm	40 / 165 mm
Shaft length	194 mm	194 mm
Circumferential speed max.	22.2 m/s	23.6 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

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



	T 25 digital stainless steel, sawtooth	
Dispersing element	S 25 N – 18 G – ST	S 25 N – 25 G – ST
Ident. No.	0004447300	0004447500
Working range	10 – 1500 ml	50 – 2000 ml
Stator / Rotor diameter	18 / 13.4 mm	25 / 20 mm
Gap between rotor and stator	0.25 mm	0.5 mm
Min. / max. immersion depth	40 / 165 mm	40 / 165 mm
Shaft length	194 mm	194 mm
Circumferential speed max.	17.5 m/s	26.2 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

	T 25 digital stainless steel, sawtooth	
Dispersing element	S 25 – KD – 18 G – ST	S 25 – KD – 25 G – ST
Ident. No.	0020002973	0020002974
Working range	10 – 1500 ml	50 – 2000 ml
Stator / Rotor diameter	18 / 13.4 mm	20 / 25 mm
Gap between rotor and stator	0.25 mm	0.5 mm
Min. / max. immersion depth	40 – 185 mm	40 – 185 mm
Shaft length	194 mm	194 mm
Circumferential speed max.	–	–
Materials in contact with medium	PTFE, AISI 316L, ceramic	PTFE, AISI 316L, ceramic

Dispersing tools | T 25 digital



	T 25 digital stainless steel, ball bearing with PTFE seal	
Dispersing element	S 25 – KD – 18 G	S 25 – KD – 25 G
Ident. No.	0020002971	0020002972
Working range	10 – 1500 ml	50 – 2000 ml
Stator / Rotor diameter	18 / 12.7 mm	25 / 17 mm
Gap between rotor and stator	0.3 mm	0.5 mm
Min. / max. immersion depth	40 – 185 mm	40 – 185 mm
Shaft length	194 mm	194 mm
Circumferential speed max.	–	–
Materials in contact with medium	PTFE, AISI 316L , ceramic	PTFE, AISI 316L , ceramic

	T 25 digital stainless steel, ball bearing with PTFE seal
Dispersing element	S 25 – KD – 25 F
Ident. No.	0020002975
Working range	100 – 2000 ml
Stator / Rotor diameter	25 / 18 mm
Gap between rotor and stator	0.5 mm
Min. / max. immersion depth	40 / 185 mm
Shaft length	194 mm
Circumferential speed max.	–
Materials in contact with medium	PTFE, AISI 316L , ceramic



	T 25 digital stainless steel, slide ring seal	
Dispersing element	S 25 KV – 18 G	S 25 KV – 25 G
Ident. No.	0002348000	0002466900
Working range	10 – 1500 ml	50 – 2500 ml
Stator / Rotor diameter	18 / 12.7 mm	25 / 17 mm
Gap between rotor and stator	0.3 mm	0.5 mm
Min. / max. immersion depth	40 / 225 mm	40 / 225 mm
Shaft length	270 mm	270 mm
Circumferential speed max.	16.6 m/s	22.2 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L



	T 25 digital stainless steel, slide ring seal
Dispersing element	S 25 KV – 25 F
Ident. No.	0002404000
Working range	100 – 2000 ml
Stator / Rotor diameter	25 / 18 mm
Gap between rotor and stator	0.5 mm
Min. / max. immersion depth	40 / 225 mm
Shaft length	270 mm
Circumferential speed max.	23.6 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L



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



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

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

CT.15

Cleaning tube

Ident. No. 0020006595

NEW

Dispersing tools | T 50 digital



	T 50 digital stainless steel, standard	
Dispersing element	S 50 N – G 45 G	S 50 N – G 45 M
Ident. No.	0008003000	0008003300
Working range	0.5 – 20 l	0.5 – 15 l
Stator / Rotor diameter	45 / 36 mm	45 / 40.5 mm
Gap between rotor and stator	0.5 mm	0.25 mm
Min. / max. immersion depth	70 / 250 mm	70 / 250 mm
Shaft length	300 mm	290 mm
Circumferential speed max.	18.8 m/s	21.2 m/s
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L



	T 50 digital stainless steel, standard	
Dispersing element	S 50 N – G 45 F	
Ident. No.	0008003900	
Working range	0.25 – 10 l	
Stator / Rotor diameter	45 / 40 mm	
Gap between rotor and stator	0.5 mm	
Min. / max. immersion depth	70 / 250 mm	
Shaft length	290 mm	
Circumferential speed max.	20.9 m/s	
Materials in contact with medium	PTFE, AISI 316L	



	T 50 digital stainless steel, slide ring seal	
Dispersing element	S 50 KG – HH – G 45 G	S 50 KG – HH – G 45 M
Ident. No.	0008003200	0008003500
Working range	0.5 – 20 l	0.5 – 15 l
Stator / Rotor diameter	45 / 36 mm	45 / 40.5 mm
Gap between rotor and stator	0.5 mm	0.25 mm
Min. / max. immersion depth	70 / 260 mm	70 / 250 mm
Shaft length	300 mm	300 mm
Circumferential speed max.	18.8 m/s	21.2 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L



	T 50 digital stainless steel, slide ring seal	
Dispersing element	S 50 KG – HH – G 45 F	S 50 KG – HH – G 45 M
Ident. No.	0008004100	0008003500
Working range	0.25 – 10 l	0.5 – 15 l
Stator / Rotor diameter	45 / 40 mm	45 / 40.5 mm
Gap between rotor and stator	0.5 mm	0.25 mm
Min. / max. immersion depth	70 / 250 mm	70 / 250 mm
Shaft length	290 mm	300 mm
Circumferential speed max.	20.9 m/s	21.2 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L



	T 50 digital stainless steel, bronze bearing	
Dispersing element	S 50 B – G 45 G	S 50 B – G 45 M
Ident. No.	0010000633	0010000634
Working range	0.5 – 20 l	0.5 – 15 l
Stator / Rotor diameter	45 / 36 mm	45 / 40.5 mm
Gap between rotor and stator	0.5 mm	0.25 mm
Min. / max. immersion depth	70 – 250 mm	70 – 250 mm
Shaft length	300 mm	290 mm
Circumferential speed max.	–	–
Materials in contact with medium	AISI 316L, bronze	AISI 316L, bronze



	T 50 digital stainless steel, bronze bearing	
Dispersing element	S 50 B – G 45 F	
Ident. No.	0010000635	
Working range	0.25 – 10 l	
Stator / Rotor diameter	45 / 40 mm	
Gap between rotor and stator	0.5 mm	
Min. / max. immersion depth	70 – 250 mm	
Shaft length	290 mm	
Circumferential speed max.	–	
Materials in contact with medium	AISI 316L, bronze	

Dispersing tools | T 50 digital

	T 50 digital stainless steel, slide ring seal and FDA certificate		
Dispersing element	S 50 KG – HH – G 45 G, FDA	S 50 KG – HH – G 45 M, FDA	S 50 KG – HH – G 45 F, FDA
Ident. No.	0010000637	0010000638	0010000639
Working range	0.5 – 20 l	0.5 – 15 l	0.25 – 10 l
Stator / Rotor diameter	45 / 36 mm	45 / 40.5 mm	45 / 40 mm
Gap between rotor and stator	0.5 mm	0.25 mm	0.5 mm
Min. / max. immersion depth	70 / 260 mm	70 / 250 mm	70 / 250 mm
Shaft length	300 mm	300 mm	290 mm
Circumferential speed max.	18.8 m/s	21.2 m/s	20.9 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L

	T 50 digital stainless steel, special dispersing element
Dispersing element	R 50 "high speed" stirring shaft
Ident. No.	0001689300*
Working range	0.25 – 30 l
Circumferential speed max.	15.7 – 23 m/s
Max. permissible rotor diameter	50 mm
Material	Stainless steel (AISI 316L)
Generator diameter	–
Min. / max. immersion depth	180 mm
Available seals	–

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

	T 50 digital stainless steel, special dispersing element	
Dispersing element	S 50 N – W 65 SK Cutting head	S 50 N – W 80 SMK Jet mixer head
Ident. No.	0008005100	0008006300
Working range	1 – 10 l	1 – 50 l
Circumferential speed max.	–	–
Max. permissible rotor diameter	–	–
Material	–	–
Generator diameter	65 mm	80 mm
Min. / max. immersion depth	80 / 350 mm	140 / 350 mm
Available seals	S 50 N	S 50 N

Dispersing tools | T 65 basic | digital

	T 65 basic / digital stainless steel, ceramic bearing		
Dispersing element	S 65 C – G 65 G	S 65 C – G 65 M	S 65 C – G 65 F
Ident. No.	0010001665	0010001666	0010001667
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator / Rotor diameter	65 / 53 mm	65 / 53 mm	65 / 53 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	90 – 450 mm	90 – 450 mm	90 – 450 mm
Shaft length	520 mm	520 mm	520 mm
Circumferential speed max.	–	–	–
Materials in contact with medium	AISI 316L, ceramic	AISI 316L, ceramic	AISI 316L, ceramic

Available Q1/2016

	T 65 basic / digital stainless steel, ceramic bearing		
Dispersing element	S 65 KD – G 65 G	S 65 KD – G 65 M	S 65 KD – G 65 F
Ident. No.	0010000641	0010000642	0010000643
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator / Rotor diameter	65 / 53 mm	65 / 58 mm	65 / 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
Circumferential speed max.	–	–	–
Materials in contact with medium	PTFE, AISI 316L, ceramic	PTFE, AISI 316L, ceramic	PTFE, AISI 316L, ceramic

Dispersing tools | T 65 basic | digital



	T 65 basic digital stainless steel, slide ring seal	
Dispersing element	S 65 KG – HH – G 65 G	S 65 KG – HH – G 65 M
Ident. No.	0008005500	0008005700
Working range	2 – 50 l	2 – 40 l
Stator / Rotor diameter	65 / 58 mm	65 / 58 mm
Gap between rotor and stator	0.5 mm	0.5 mm
Min. / max. immersion depth	90 / 450 mm	80 / 450 mm
Shaft length	520 mm	510 mm
Circumferential speed max.	21.9 m/s	21.9 m/s
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L



	T 65 basic digital stainless steel, slide ring seal	
Dispersing element	S 65 KG – HH – G 65 F	
Ident. No.	0008005900	
Working range	2 – 30 l	
Stator / Rotor diameter	65 / 58 mm	
Gap between rotor and stator	0.5 mm	
Min. / max. immersion depth	80 / 450 mm	
Shaft length	500 mm	
Circumferential speed max.	21.9 m/s	
Materials in contact with medium	FFPM / SIC, AISI 316L	

	T 65 basic digital dissolver disc for dispersing elements	
Dispersing element	D 60	D 80
Ident. No.	0020008388	0020008389
Working range	2 – 30 l	2 – 50 l
Stator / Rotor diameter	– / 60 mm	– / 80 mm
Gap between rotor and stator	–	–
Min. / max. immersion depth	90 – 450 mm	90 – 450 mm
Shaft length	520 mm	520 mm
Circumferential speed max.	29,8 m/s	39,8 m/s
Materials in contact with medium	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L

Available Q1/2016



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 / KD	–	8 / 10 / 18 / 19 / 25	G / F
T 50 digital	S / R 50	N / B / KD	G / W	45 / 65 / 80	G / M / F
T 65 basic	S 65	KG – HH / KD	G	65	G / M / F
T 65 digital	S 65	KG – HH / KD	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
- KD = Ball bearing with PTFE seal
- ** G = Proved configuration
- *** G = Coarse
- M = Medium
- F = Fine
- C = Ceramic bearing

magic LAB®



magic
LAB®



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

magic LAB®

Technical data

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

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



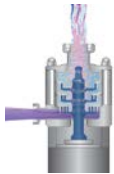
CMS Periphery
The integrated solution for wetting
of most difficult powders



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 emulsions
and suspensions.



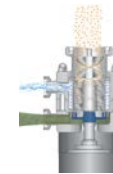
Wet milling by means of
spiral gearing milling tool. Pro-
duction of colloidal solutions.
Adjustable flow rate and fric-
tion by setting the gap between
the rotor and stator.



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



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



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%.



Finest wet milling of granular, viscous
and pasty products by means of two
corundum disks. High shear forces mill
the product finely between the rotor and
the axially movable stator.

Technical data	Module DISPAX-REACTOR® DR	Module colloid mill MK	Module CMS
Flow rate	80 l/h (H ₂ O)	200 l/h (H ₂ O)**	1000 l/h (H ₂ O)**
Standard rotational speed	14,600 rpm	14,600 rpm	11,000 rpm
Circumferential speed	23 m/s	23 m/s*	19.5 m/s*
	Ident. No. U078352	Ident. No. U076662	Ident. No. U075333

	Module cone mill MKO	Module MHD (mixing, homogenising, dispersing)	Module corundum disk mill MCD
	25 l/h (H ₂ O)**	60 l/h (H ₂ O)**	1 – 20 kg/h**
	14,600 rpm	14,600 rpm	12,000 rpm
	23 m/s*	23 m/s*	19.5 m/s*
	Ident. No. U079664	Ident. No. U075262	Ident. No. 20001675

* At standard rotational speed and 50 Hz

** at minimal gap between the rotor and stator

Mills



IKA® laboratory mills are ideal for grinding, pulverizing or chopping samples for routine analyses, either in batch or continuous operation. Grinding results are achieved up to 1 µm particle size or 0.25 mm defined ultimate fineness. Due to a broad spectrum of easily interchangeable beaters and cutters, IKA® mills are highly effective for a variety of applications and can also be scaled up for larger volumes.



Redesigned batch mill

- > The mill can only be operated with a closed lid
- > The lid can only be opened at a standstill
- > A quick stop feature further increases the safety of the user

A 10
basic

LED
Display

Digital timer



Quiet operation



Interval operation
and easy operation
by foil keypad

Error code
Display

Error code display



Integrated cooling
connections



Grinding chamber
reduction for small
sample sizes



Mills

- > Tube Mill 100 control
- > Works with 40 ml and 100 ml chamber
- > Stronger motor
- > New coupling for easy cleaning



Watch the video:
www.ika.com/video



reddot design award
winner 2013

Patented

Available
Q1/2016



	Tube Mill control	Tube Mill 100 control
Technical data		
Motor rating input / output	100 / 80 W	100 / 80 W
Speed range	5000 – 25,000 rpm	5000 – 25,000 rpm
Useful volume	40 ml	100 ml
Duty cycle (ON / OFF)	5 s – 3 min (timer)	5 s – 3 min (timer)
Circumferential speed	65 m/s	65 m/s
Max. feed hardness	5 Mohs	5 Mohs
Max. feed grain size	10 mm	10 mm
Grinding chamber material	Transparent plastic (PP)	Transparent plastic (PP)
Dimensions (W x D x H)	180 x 300 x 170 mm	180 x 300 x 212 mm
Weight	2.7 kg	2.8 kg
Permissible relative moisture	80%	80%
Protection class acc. to DIN EN 60529	IP 30	IP 30
	Ident. No. 0004180000*	Ident. No. 0020007144

* Two single grinding chambers are included in the delivery



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

Disposable grinding chamber, 40 ml

Ident. No.

Multiple grinding chamber, 40 ml

Ident. No.

MT 40.10

0004425000

Disposable grinding chamber 40 ml (10 pieces/pack)

MT 40.100

0020001173

Disposable grinding chamber 40 ml (100 pieces/pack)

MMT 40.1

0020003165

MMT 40.1 stainless steel package, includes 1 MMT 40 chamber, 25 sealings, 5 beaters, 5 couplings

MTC 40.100

0020001182

Cover for MT 40

MT 40.10 steril

0020001984

Disposable grinding chamber steril 40 ml (10 pieces)

MT 40.100 steril

0020001985

Disposable grinding chamber steril 40 ml (100 pieces)

A-MMT 40.100

0020003378

A-MMT 40.100 abrasion set spare parts, includes 100 sealings, 10 beaters, 10 couplings

Disposable grinding chamber, 100 ml

Ident. No.

MT 100.10

0020008386

Disposable grinding chamber, 100 ml

MT 100.50

0020006984

Disposable grinding chamber, 100 ml, (50 pieces)

Mills

M 20

Removable, easy-to-clean,
high-grade steel chamberDouble-walled grinding
chamber

NEW

Technical data	A 10 basic	A 11 basic	M 20 Universal mill
Motor rating input/output	300 / 240 W	160 / 100 W	450 / 225 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	73 m/s	53 m/s	72 m/s
Max. feed hardness	5 Mohs*	6 Mohs*	5 Mohs*
Max. feed grain size	6 mm	10 mm	7 mm
Grinding chamber material	stainless steel 1.4034	stainless steel 1.4034	stainless steel 1.4034
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 41	IP 43	IP 21
	Ident. No. 0004020700**	Ident. No. 0002900000	Ident. No. 0001603600

* 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 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 380 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

Ident. No. 0002836000

Technical data	MF 10.1 Cutting-grinding head MF 10.2 Impact-grinding head
Circumferential speed	24.5 m/s 34 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 1.4308

- 1 MF 10.1
Cutting-grinding head
Ident. No. 0002870900
- 2 MF 10.2
Impact-grinding head
Ident. No. 0002871000

MF 10
basicEasily interchangeable
headsEasy to clean working
surface made of
stainless steel

Powerful drive

Powerful



Mills | Accessories

A 10 basic accessories

Ident. No.



A 10.1 0025001680

Stainless steel cutter



A 10.2 0025001162

Star-shaped cutter



A 10.3 0025001161

Hard metal cutter



A 10.4 0025001664

Grinding chamber reduction

A 11 basic accessories

Ident. No.



A 11.1 0002904600

Spare beater, stainless steel



A 11.2 0002905200

Cutting blade, stainless steel



A 11.3 0002983000

Beater, stainless steel, coated with chromium carbide



A 11.4 0002904100

Grinding chamber, polycarbonate, 250 ml



A 11.5 0002983100

Spare grinding chamber, Tefcel, 80 ml



A 11.6 0003302900

Double beater, titanium



A 11.7 0003048700

Funnel, jacket PTFE, sieve stainless steel



M 20 accessories

Ident. No.



M 21 0000328200

Spare cutter, stainless steel



M 22 0000521800

Hard metal cutter, tungsten carbide



M 23 0001443400

Star-shaped cutter, stainless steel



M 20.1 0008006200

Grinding chamber, 250 ml

MF 10 basic accessories

Ident. No.

MF 0.25 0002938900

Sieve, Ø 0.25 mm

MF 0.5 0002939000

Sieve, Ø 0.5 mm

MF 1.0 0002939200

Sieve, Ø 1 mm

MF 2.0 0002939400

Sieve, Ø 2 mm

MF 3.0 0002939500

Sieve, Ø 3 mm

MF 4.0 0002939600

Sieve, Ø 4 mm



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, elastic 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

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.



Precise temperature control!

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

Dry Block Heater 3



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



Dry Block Heaters

IKA® dry block heaters are highly versatile suitable for 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



	Dry Block Heater 1	Dry Block Heater 2
Technical data		
Number of blocks	1	2
Heat output	165 W	250 W
Heating temperature range	RT +5 °C – 120 °C	RT +5 °C – 120 °C
Display	LED	LED
Heat control accuracy	± 1 K	± 1 K
Connection for external temperature sensor	DIN 12878	DIN 12878
Control accuracy with sensor	± 1 K	± 1 K
Material of the blocks	aluminum alloy	aluminum alloy
Timer	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
	Ident. No. 0004025100*	Ident. No. 0004025200*

IKA®+

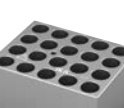
PT 1000.60 temperature sensor included in the delivery.



	Dry Block Heater 3	Dry Block Heater 4
3		4
330 W		412 W
RT +5 °C – 120 °C		RT +5 °C – 120 °C
LED		LED
± 1 K		± 1 K
DIN 12878		DIN 12878
± 1 K		± 1 K
aluminum alloy		aluminum alloy
1 min to 99h 59min		1 min to 99h 59min
151 x 380 x 73 mm		151 x 456 x 73 mm
Ident. No. 0004025300*		Ident. No. 0004025400*

* 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)		Material	Holes Ø	No. of holes	Hole depth (mm)	Ident. No.
	Micro centrifuge tubes					
	DB 1.1 single block, PCR tubes, 0.5 ml	aluminum anodized	Ø 7.9 mm	30	27.6	0004467600
	DB 1.2 single block, Eppendorf tubes, 1.5 ml	aluminum anodized	Ø 11.5 mm	20	36.9	0004467700
	DB 1.3 single block, Microtubes, 1.5 ml	aluminum anodized	Ø 11.1 mm	20	39.1	0004467800
	DB 1.4 single block, Eppendorf tubes, 2.0 ml	aluminum anodized	Ø 11.5 mm	20	38.1	0004467900
	DB 1.5 single block, Corning tubes, 2.0 ml	aluminum anodized	Ø 10.9 mm	20	38.1	0004468000
	Conical bottom centrifuge tubes					
	DB 2.1 single block, Conical tubes, 15 ml	aluminum anodized	Ø 17.1 mm	12	44.5	0004468100
	DB 2.2 single block, Conical tubes, 50 ml	aluminum anodized	Ø 29.0 mm	5	47.6	0004468200
	Combination blocks					
	DB 3.1 single block, test tube combination, 6 / 12 / 13 / 25 mm	aluminum anodized	Ø 8.3 / Ø 13.9 / Ø 26.2 mm	6 / 5 / 3	48.4 / 48.4 / 48.4	0004468300
	DB 3.2 single block, centrifuge combination, 1.5 / 15 / 50 ml	aluminum anodized	Ø 11.1 / Ø 17.1 / Ø 29.0 mm	4 / 3 / 2	39.1 / 44.5 / 47.6	0004468400
	DB 3.3 single block, microtube combination, 0.5 / 1.5 / 2 ml	aluminum anodized	Ø 7.9 / Ø 11.1 / Ø 11.5 mm	6 / 10 / 5	27.6 / 39.1 / 38.1	0004468500
	Standard test tubes					
	DB 4.1 single block, Round tubes, 6 mm	aluminum anodized	Ø 8.3 mm	30	48.4	0004468600
	DB 4.2 single block, Round tubes, 10 mm	aluminum anodized	Ø 10.7 mm	24	48.4	0004468700
	DB 4.3 single block, Round tubes, 12 / 13 mm	aluminum anodized	Ø 13.9 mm	16	48.4	0004468800
	DB 4.4 single block, Round tubes, 12 / 13 mm	aluminum anodized	Ø 13.9 mm	20	48.4	0004468900
	DB 4.5 single block, Round tubes, 15 / 16 mm	aluminum anodized	Ø 17.5 mm	12	48.4	0004469000
	DB 4.6 single block, Round tubes, 20 mm	aluminum anodized	Ø 21 mm	8	48.4	0004469100
	DB 4.7 single block, Round tubes, 25 mm	aluminum anodized	Ø 26.2 mm	6	48.4	0004469200
	DB 4.8 single block, Round tubes, 35 mm	aluminum anodized	Ø 35 mm	4	47.6	0004469300
	DB 4.9 single block, Round tubes, 17 / 18 mm	aluminum anodized	Ø 19.1 mm	12	48.4	0004469400
	Vials					
	DB 5.1 single block, 12 mm vials	aluminum anodized	Ø 12.7 mm	20	30.0	0004469500
	DB 5.2 single block, 15 mm vials	aluminum anodized	Ø 15.8 mm	20	35.0	0004469600
	DB 5.3 single block, 17 mm vials	aluminum anodized	Ø 17.8 mm	12	45.0	0004469700
	DB 5.4 single block, 19 mm vials	aluminum anodized	Ø 19.7 mm	12	45.0	0004469800
	DB 5.5 single block, 21 mm vials	aluminum anodized	Ø 21.7 mm	9	45.0	0004469900
	DB 5.6 single block, 23 mm vials	aluminum anodized	Ø 23.8 mm	8	45.0	0004470000
	DB 5.7 single block, 25 mm vials	aluminum anodized	Ø 25.8 mm	8	45.0	0004470100
	DB 5.8 single block, 28 mm vials	aluminum anodized	Ø 28.8 mm	6	45.0	0004470200
	DB 5.9 single block, 16 mm vials	aluminum anodized	Ø 16.4 mm	15	45.0	0004470300
	PCR - plates, tubes, strips					
	DB 6.1 single block, 10 x 8 PCR tube strips, 0.2 ml tubes	aluminum anodized	Ø 6.4 mm	80	15.5	0004470400
	DB 6.2 single block, 64 PCR tubes, 0.2 ml tubes	aluminum anodized	Ø 6.4 mm	64	20.2	0004470500
	DB 6.3 double block, 1 x 96-well PCR plate, 0.2 ml tubes	aluminum anodized	Ø 6.4 mm	96	15.5	0004470600
	Cuvettes					
	DB 8.1 single block, 2 x 6 cuvettes, 12.5 mm	aluminum anodized			25.4	0004470700
Double block (95 x 152 x 57)			Holes Ø	No. of holes	Hole depth (mm)	Ident. No.
Microtitre plates						
DB 7.1 double block, 96- or 384-Well-Platte		aluminum anodized	—	—	13.5	0004470800
Temperature sensors					Ø	Ident. No.
PT 1000.60 temperature sensor		stainless steel			2 x 3 mm	0003516800
PT 1000.90 temperature sensor		stainless steel, coated with Safe Coat			2 x 3 mm	0004480600

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

Ident. No. 0003581600

Ident. No. 0003581800

Ident. No. 0003582000

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
With locking
function

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

Available
Q2/2016



Technical data

	HB 10	HBR 4 digital	HBR 4 control
Heat output	1300 W	1000 W	1000 W
Temperature range	RT – 180 °C	RT – 200 °C	RT – 200 °C
Setting tolerance	± 1 K	± 1 K	± 1 K
Deviation (3 l H ₂ O, 90 °C)	± 1 K	± 1 K	± 1 K
Temperature display	digital	digital	digital
Volume	3 l	4 l	4 l
Safety class acc. to DIN 12877	II	II	II
Adjustable safety circuit min / max	50 °C / 190 °C	50 °C / 210 °C	50 °C / 210 °C
Material	stainless steel 1.4301	stainless steel 1.4301	stainless steel 1.4301
Weight	3 kg	4.4 kg	4.4 kg
Dimensions (W x D x H)	290 x 190 x 265 mm	340 x 340 x 250 mm	340 x 340 x 250 mm
Interface	no	no	RS 232
ext. Sensor	no	no	yes
	Ident. No. 0004068000	Ident. No. 0002602300	Ident. No. 0020003549*

* PT 1000.60 temperature sensor included.

HBR 4 accessories

	Ident. No.
H 240	0002858700
Ring set	
H 159	0001809700
Intermediate bottom	



Temperature Control



Temperature Control Products

Watch the video now:
www.ika.com/video



IKA® offers a wide range of high-precision temperature control systems according to DIN 12876 for temperature ranges of -20°C to 250°C. The product portfolio includes immersion circulators, heating bath circulators and recirculating chillers. Precise technology and user-friendly design make temperature control easy for any application. All IKA® temperature control instruments meet the highest standards in terms of safety, power and intelligence. In addition, IKA® provides a wide range of accessories for its temperature control systems such as baths, bridges, thermal fluids and much more.



Energy-efficient recirculating chillers!

- > Robust stainless steel housing
- > Visible fluid level display
- > Large funnel for easy refill
- > Overflow at the rear of the device
- > Visual and acoustic alarm

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



RC 2 control



Connection for PT 100 temperature probe



Large operating volume



The speed-regulated compressor provides better temperature stability of up to ± 0.05 K



Detachable wireless controller (WiCo) for simple and safe remote access from up to 10 m (30 ft.)



Temperature Control

ICC basic & control



Integrated pressure / suction pump for internal and external temperature control



USB / RS 232 interfaces for connecting a PC, using labworldsoft® and enabling online updates of device software

hands
for children
by IKA



Technical data

Technical data	EH 4 basic
Appliance type	Compact immersion circulator
Heater capacity (230 / 115 V)	1500 W
Temperature range	25 – 100 °C
Temperature display	–
Temperature stability DIN 12876	± 0.12 K
Max. flow rate (at 0 bar)	5 l/min
Max. pump pressure	0.08 bar
Min. suction pressure	–
Dimensions (W x D x H)	105 x 319 x 139 mm
USB / RS 232 interface	no
PT 100 interface	no

Ident. No. 0003164000

ICC basic | control

ICC basic control	ICC basic control
Appliance type	Compact immersion circulator
Heater capacity (230 / 115 V)	2000 / 1000 W
Temperature range	RT +10 °C – 150 °C
Temperature display	LED TFT
Temperature stability DIN 12876	± 0.02 K ± 0.01 K
Max. flow rate (at 0 bar)	18 l/min
Max. pump pressure	0.3 bar
Min. suction pressure	0.2 bar
Dimensions (W x D x H)	147 x 158 x 340 mm
USB / RS 232 interface	yes
PT 100 interface	no yes

Ident. No. 0004134400
Ident. No. 0004136600

IC control



Integrated pressure and 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



Technical data

Technical data	IC basic control
Appliance type	Immersion circulator
Heater capacity (230 / 115 V)	2500 / 1250 W
Temperature range	RT +10 °C – 200 °C* RT +10 °C – 250 °C*
Temperature display	LED TFT
Temperature stability DIN 12876	± 0.02 K ± 0.01 K
Max. flow rate (at 0 bar)	26 l/min 31 l/min
Max. pump pressure	0.45 bar 0.61 bar
Min. suction pressure	0.35 bar 0.45 bar
Dimensions (W x D x H)	285 x 291 x 313 mm
USB / RS 232 interface	yes
PT 100 interface	yes

Ident. No. 0003861000
Ident. No. 0003863000**

* Possible operating temperatures with cooling coil: -20 – 200/250 °C.

** CC 1 cooling coil included in delivery

Temperature Control | Packages

IKA®+

Eco baths (plastic) can be used at temperatures of up to 100 °C (H₂O only). Pro baths (stainless steel) can be used at temperatures of up to 200 °C.

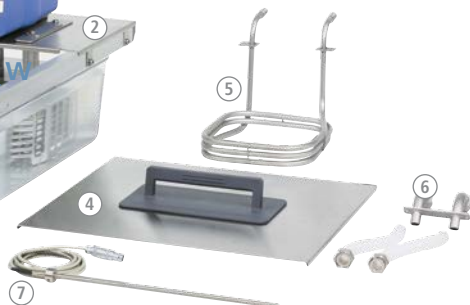
Included in ICC Package 1:

- ① ICC basic/control head
- ② Bath bridge
- ③ Bath vessel



Additionally included in ICC Package 2:

- ④ Cover
- ⑤ Cooling coil
- ⑥ Pump connection set
- ⑦ PT 100 probe (control version only)



IC Package Included:

- ① IC basic/control head
- ② Bath bridge
- ③ Bath vessel
- ④ Cover
- ⑤ PT 100 probe
- ⑥ Cooling coil*

* Already included with control devices



ICC basic eco 8



ICC control pro 20 c



IC basic pro 12 c



ICC eco 18

Description	Package	Bath size	Bath opening (W x D)*	Ident. No.
ICC Package 1				
Includes: > ICC circulator > Bath > Bath bridge	ICC basic eco 8	S	188 x 105	0008034900
	ICC control eco 8			0008035300
	ICC basic pro 9			0008035100
Includes: > ICC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil > PT 100.30 (control version only)	ICC control pro 9	M	195 x 100	0008035500
	ICC basic pro 12			0010000414
	ICC control pro 12			0010000415
Includes: > ICC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil > PT 100.30 (control version only)	ICC basic eco 18	L	255 x 127	0008035000
	ICC control eco 18			0008035400
	ICC basic pro 20			0008035200
Includes: > ICC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil > PT 100.30 (control version only)	ICC control pro 20	L	245 x 305	0008035600
	ICC basic eco 18 c			0008035700
	ICC control eco 18 c			0008036100
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	ICC basic pro 9 c	S	195 x 100	0008035900
	ICC basic pro 12 c			0008036300
	ICC control pro 12 c			0010000416
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	ICC control pro 12 c	M	255 x 127	0010000417
	ICC basic eco 18 c			0008035800
	ICC control eco 18 c			0008036200
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	ICC basic pro 20 c	L	245 x 305	0008036000
	ICC control pro 20 c			0008036400
	ICC basic eco 18 c			0008036600
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	ICC control pro 20 c	M	255 x 309	0008036400
	IC basic pro 12 c			0008039900
	IC control pro 12 c			0008040000
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	IC basic eco 18 c	L	245 x 80	0008036600
	IC control eco 18 c			0008037000
	IC basic pro 20 c			0008036800
Includes: > IC circulator > Bath > Bath bridge > Cover > Pump connection set > Cooling coil** > PT 100.30	IC control pro 20 c	L	255 x 258	0008036800
	IC basic pro 20 c			0008037200
	IC control pro 20 c			0008037200

* Size of plate that can be set at the bottom of the bath

** Already included in IC control device

Immersion depth for all baths with ICC: 85 mm to 125 mm;
IC: 95 mm to 135 mm

Package details
on page 172

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)	I (NFL)
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 (cooling coil integrated*)	RT +10 °C – 200 °C RT +10 °C – 250 °C (cooling coil integrated*)	-20 °C – RT
Temperature display	LED TFT	LED TFT	LED TFT
Temperature stability DIN 12876	± 0.02 K ± 0.01 K	± 0.02 K ± 0.01 K	± 0.1 K ± 0.05 K
Bath volume range	5.5 – 7.5 l	7.5 – 10.5 l	1.5 – 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 506 x 456 mm	220 x 525 x 475 mm
Permissible ambient temperature	5 – 40 °C	5 – 40 °C	5 – 32 °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
PT 100 interface	yes	yes	no yes
	Ident. No. 0004125000 Ident. No. 0004127000	Ident. No. 0004135000 Ident. No. 0004137000	Ident. No. 0004171000 Ident. No. 0004173000

* Possible operating temperatures with cooling coil: -20 – 200/250 °C.

HBC 5
control



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



Integrated handles
for easy carrying



Precise temperature
stability ± 0.01 K



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



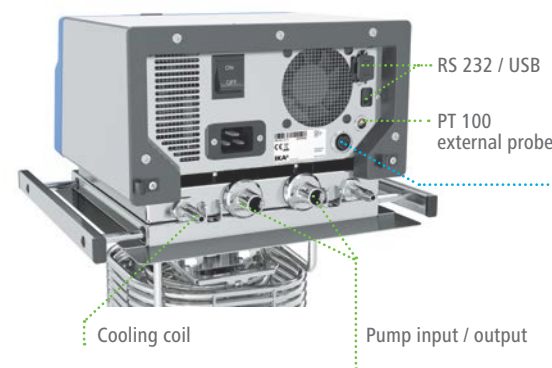
Removable **wireless controller**
(WiCo) for easy and safe
operation up to 10 m



DESIGN
AWARD
2015



basic and control interfaces



Option to connect external solenoid
valves via multi I/O port (IC / HBC
control only)

- > For the control of solenoid valves
 - For automatic refilling
 - For switching the cooling water circuit on/off
 - For fluid level monitoring
 - As an electronic stopcock
- > Output for alarm signals
- > Input for standby mode (for switching off the device)



Temperature Control | Accessories

Bath vessels

Ident. No.



IB 8 eco* 0004248100

Bath vessel, plastic, 8 l, size S



IB 18 eco* 0004248200

Bath vessel, plastic, 18 l, size L



IB HF 24 eco* 0020006884

Bath vessel, size L, plastic, 24 l

IB 9 pro 0004248500

Bath vessel, stainless steel, 9 l, size S



IB 12 pro 0004577500

Bath vessel, stainless steel, 12 l, size M



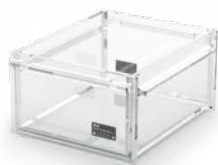
IB 20 pro 0004248600

Bath vessel, stainless steel, 20 l, size L



IB R RO15 eco* 0020006341

Bath vessel for magn. stirrer RO 15, size L



IB R 9 eco* 0020004382

Bath vessel, 31 x 24 x 15, plastic, rectangular, size S

IB R 20 eco* 0020004383

Bath vessel, 50 x 31 x 15, plastic, rectangular, size L

IB R 52 eco* 0020007044

Bath vessel, 60 x 31 x 30, plastic, rectangular, size L

EH 4.1 0003335000

Bath vessel, 5 l, for EH 4 only

ICC accessories

Ident. No.



CS.ICC 0004471500

Cover, small for ICC, for bath vessels size S

CM.ICC 0025000290

Cover, medium for ICC, for bath vessels size M



CL.ICC 0004471600

Cover, big for ICC, for bath vessels size L



BS.ICC 0020003077

Bridge, small for ICC, for bath vessels size S

BL.ICC 0020003078

Bridge, big for ICC, for bath vessels size M & L

CC2 0025001061

Cooling coil for ICC



PCS.ICC 0004471900

Pump connection set for ICC

IC accessories

Ident. No.



CM.IC 0004577600

Cover, medium for IC, for bath vessels size M



CL.IC 0004471800

Cover, big for IC, for bath vessels size L



BS.IC 0004472800

Bridge, small for IC, for bath vessels size M & L



CC1 0020005116

Cooling coil for IC basic + control

* Maximum temperature eco baths 100 °C, water.

Temperature Control | Accessories

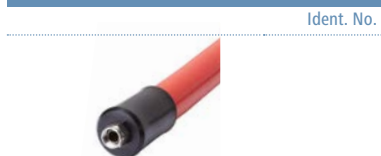
Thermofluids

	Ident. No.
HF.Si.20.250.50A	0020003521
Heating fluid Si250A; 10 kg	
HF.Si.20.200.50	0020003520
Heating fluid Si200; 10 kg	



UF.Si.N30.150.10LV	0020003518
Universal fluid Si150 LV; 9 kg	

Hoses



LT 5.20	0002606700
Hose, insulated, stainless steel, Ø 10 mm, 1.5 m, 2 pcs.	

LT 5.21	0020000988
Hose, insulated, PTFE, Ø 13 mm, 1.5 m, 2 pcs.	

H.PVC.8	0004568800
Hose, PVC, Ø 8 mm, 1.5 m, 2 pcs.	

H.PVC.12	0004568900
Hose, PVC, Ø 12 mm, 1.5 m, 2 pcs.	



H.SI.8	0004569000
Hose, silicone, Ø 8 mm, 1.5 m, 2 pcs.	

H.SI.12	0004569100
Hose, silicone, Ø 12 mm, 1.5 m, 2 pcs.	



H.PUR.8.R	0020004612
Hose, PUR, Ø 8 mm, 1.5 m, 2 pcs.	

H.PUR.12	0020004613
Hose, PUR, Ø 12 mm, 1.5 m, 2 pcs.	



H.FKM.8	0004569200
Hose, FKM, Ø 8 mm, 1.5 m, 2 pcs.	

H.FKM.12	0004569300
Hose, FKM, Ø 12 mm, 1.5 m, 2 pcs.	

Insulation for hoses

Ident. No.



ISO.8	0004569400
Insulation, for hoses DN 8	



ISO.12	0004569500
Insulation, for hoses DN 12	

Tube racks

Ident. No.



Tube rack, 13 mm, S, stainless	0020004026
--------------------------------	------------

Stainless steel rack for bath size S, 57 x Ø 13 mm



Tube rack, 17 mm, S, stainless	0020004027
--------------------------------	------------

Stainless steel rack for bath size S, 37 x Ø 17 mm

Tube rack, 22 mm, S, stainless	0020004028
--------------------------------	------------

Stainless steel rack for bath size S, 22 x Ø 22 mm

Tube rack, 13 mm, ML, stainless	0020004029
---------------------------------	------------

Stainless steel rack for bath size L, 73 x Ø 13 mm



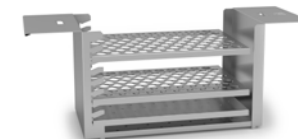
Tube rack, 17 mm, ML, stainless	0020004030
---------------------------------	------------

Stainless steel rack for bath size L, 47 x Ø 17 mm



Tube rack, 22 mm, ML, stainless	0020004031
---------------------------------	------------

Stainless steel rack for bath size L, 30 x Ø 22 mm



Variable rack, ICC, ML, stainless	0020004032
-----------------------------------	------------

Variable Rack for baths size M+L.ICC

Inlay 1, variable rack, ICC, ML	0020004033
---------------------------------	------------

Bottom type 1 for variable rack, 2 pcs., for 84 tubes with Ø 13 mm

Inlay 2, variable rack, ICC, ML	0020004034
---------------------------------	------------

Bottom type 2 for variable rack, 2 pcs., for 51 tubes with Ø 17 mm

Inlay 3, variable rack, ICC, ML	0020004035
---------------------------------	------------

Bottom type 3 for variable rack, 2 pcs., for 33 tubes with Ø 22 mm



Variable bottom, ICC, L, stainless	0020004614
------------------------------------	------------

Variable bottom for baths size L.ICC



Bottom plate L	0020006212
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Bottom plate for baths size L

Bottom plate L, ICC	0020007353
---------------------	------------

Bottom plate for baths size L.ICC

Temperature Control | Accessories

Floating racks

Ident. No.



Floating tube rack 1

0020003667

Floating tube rack for 24 x 1.5/2.0 ml tubes, 5 pcs.



Floating tube rack 2

0020003668

Floating tube rack for 8 x 15 ml tubes, 5 pcs.



Floating tube rack 3

0020003669

Floating tube rack for 4 x 50 ml tubes, 5 pcs.

Magnetic valves

Ident. No.

MV 1

0020003763

Magnetic valve for cooling water control, max. 100 °C



CO V 1

0020000249

Closed pressure valve for external pump connection Set, max. 180 °C



Ball valve M 16 x 1

0020004620

Ball valve, complete open (M 16 x 1)



Mechanic fluid level controller

0020004618

Mechanic fluid level controller

Adapters

Ident. No.



Elbow tube 90°

0025001212

Elbow tube 90°

Olive for
DN 6 hoses

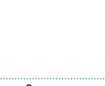
0020004667

Olive for DN 6 hoses 2 pcs.

Olive for
DN 8 hoses

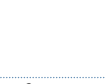
0020004566

Olive for DN 8 hoses 2 pcs.

Olive for
DN 12 hoses

0020004889

Olive for DN 12 hoses 2 pcs.

Olive for
DN 10 hoses

0020004568

Olive for DN 10 hoses 2 pcs.

Adapter NPT 1/4

0020004569

Adapter M 16 to NPT 1/4 2 pcs.



Adapter NPT 1/2

0020004570

Adapter M 16 to NPT 1/2 2 pcs.



Adapter NPT 3/4

0020004571

Adapter M 16 to NPT 3/4 2 pcs.

Lock nut (2 pcs.)

0020004583

Lock nut 2 pcs.

Stopper (2 pcs.)

0020004584

Stopper 2 pcs.

Additional accessories

Ident. No.



WH10

0020000984

WiCo holder



PT 100.30

0004284700

Temperature sensor, stainless steel



Hollow balls, PP

0020003666

Hollow balls, PP, 500 pcs.

Centrifuge



The IKA® microcentrifuge 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.

IKA®
mini G



Integrated quick
stop



Rotor exchangeable
without tools



Adjustable digital
timer



Quiet operation



Special safety features



Touch keypad for
easy operation



Technical data

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

IKA® mini G

Ident. No. 0003958000



Accessories included in the delivery

Ident. No.

1	Rotor 8 x 1.5 / 2 ml	0003918500
2	Rotor 4 x strip 8 x 0.2 ml	0004531300
3	Adapter set 0.5 ml x 8	0004470900
4	Adapter set 0.4 ml x 8	0004470901
5	Adapter set 0.2 ml x 8	0004470902

Rotary Evaporators



MAGIC DISTILLATION

Watch the video now:
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 ventilation after end of experiment
- > Automated control of heating bath during experiment

Patented
 Volume controlled distillation!

RV 10
 control
 auto

240
 58.4 °C

Two digital displays for an optimal overview



Compatible with the complete range of IKA® RV 10 glassware



Can be moved by 140 mm to accommodate different flasks



Adjustable immersion angle and height



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 separately

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



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)	495 x 390 x 615 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	220 – 240 V / 50/60 Hz

RV 8 V Ident. No. 0008033800

RV 8 V-C Ident. No. 0008034200

RV 8 FLEX Ident. No. 0008033400



Compatible with the complete range of IKA® glassware

RV 8



Adjustable immersion angle and height



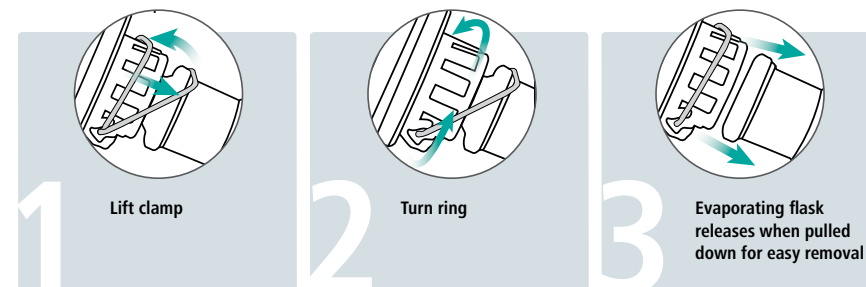
Can be moved by 120 mm to accommodate different flasks



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



Push-out function:



Accessories starting page 132 – 137

Rotary Evaporators



MAGIC DISTILLATION

Watch the video now:
www.ika.com/video



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 separately



RV 10 digital

Drive

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

General data

Dimensions (W x D x H)	530 x 410 x 430 mm
Weight of the drive incl. heating bath without glass parts	20 kg
Permissible ambient temperature	5 to 40 °C
Permissible relative moisture	80%
Protection class according to DIN EN 60529	IP 20
Voltage / Frequency	220 – 240 V / 50/60 Hz

RV 10 digital V Ident. No. 0008040300
 RV 10 digital V-C Ident. No. 0008040400
 RV 10 digital FLEX Ident. No. 0008040500

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



product
design
award
2009

RV 10 control

brushless DC drive motor
50 W
20 – 280 rpm
digital
yes
yes
0 to 45°
140 mm, motorized
60 mm, contact free
integrated

500 x 410 x 430 mm
21.5 kg
5 to 40 °C
80%
IP 20
220 – 240 V / 50/60 Hz

RV 10 control V Ident. No. 0008037700*
 RV 10 control V-C Ident. No. 0008037900*
 RV 10 control FLEX Ident. No. 0008038100*
 RV 10 control V auto Ident. No. 0008037800
 RV 10 control V-C auto Ident. No. 0008038000
 RV 10 control FLEX auto Ident. No. 0008038200

Automatic
boiling point
detection



RV 10 control

With the integrated vacuum controller and magnetic valve (included) the customer can work with any vacuum source, or other single vacuum pump (see page 127)

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 wearing of pump components
- > Reduced process time and increased overall performance

Rotary Evaporators | Accessories



RV 10 / RV 8 accessories
Glassware

Ident. No.

RV 10.1 0003655300

Set of glassware, vertical

RV 10.10 0003755400

Set of glassware, vertical, coated



RV 10.2 0003755300

Set of glassware, diagonal

RV 10.20 0003755500

Set of glassware, diagonal, coated



Condensers

RV 10.3 0003741000

Vertical-intensive condenser, manifold

RV 10.30 0003741100

Vertical-intensive condenser, manifold, coated



RV 10.4 0003742000

Dry ice condensor

RV 10.40 0003742100

Dry ice condensor, coated



RV 10.5 0003743000

Vertical-condenser, reflux

RV 10.50 0003743100

Vertical-condenser, reflux, coated



RV 10.6 0003744000

Vertical-intensive condenser, reflux

RV 10.60 0003744100

Vertical-intensive condenser, reflux, coated



Evaporation cylinders

RV 10.400 0003738800

Evaporation cylinder, NS 29/32, 500 ml

RV 10.401 0003738900

Evaporation cylinder, NS 29/32, 1500 ml



Bump trap

RV 10.500 0003739200

Foam brake, NS 29/32



Distilling spider with distilling sleeves

RV 10.600 0003739400

Distilling spider, NS 29/32, 6 sleeves

RV 10.601 0003739500

Distilling spider, NS 29/32, 12 sleeves

RV 10.602 0003739600

Distilling spider, NS 29/32, 20 sleeves

RV 10.610 0003919400

Distilling sleeve, 20 ml



Distilling spider with 5 flasks

RV 10.606 0003740800

Distilling spider with 5 flasks, 50 ml

RV 10.607 0003740900

Distilling spider with 5 flasks, 100 ml



Rotary Evaporators | Accessories



Evaporation flasks

	Ident. No.
RV 10.80	0003740100
Evaporation flask, NS 29/32, 50 ml	
RV 10.800	0020005330
Evaporation flask, coated, NS 29/32, 50 ml	
RV 10.81	0003740200
Evaporation flask, NS 29/32, 100 ml	
RV 10.810	0020005331
Evaporation flask, coated, NS 29/32, 100 ml	
RV 10.82	0003740300
Evaporation flask, NS 29/32, 250 ml	
RV 10.820	0020005332
Evaporation flask, coated, NS 29/32, 250 ml	
RV 10.83	0003740400
Evaporation flask, NS 29/32, 500 ml	
RV 10.830	0020005333
Evaporation flask, coated, NS 29/32, 500 ml	
RV 10.84	0003740500
Evaporation flask, NS 29/32, 1000 ml	
RV 10.840	0004221400
Evaporation flask, coated, NS 29/32, 1000 ml	

IKA®+

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

RV 10.85	0003740600
Evaporation flask, NS 29/32, 2000 ml	
RV 10.850*	0020005334
Evaporation flask, coated, NS 29/32, 2000 ml	
RV 10.86	0003740700
Evaporation flask, NS 29/32, 3000 ml	
RV 10.860	0020005335
Evaporation flask, coated, NS 29/32, 3000 ml	
RV 10.90	0003741200
Evaporation flask, NS 24/29, 50 ml	
RV 10.91	0003741300
Evaporation flask, NS 24/29, 100 ml	



Powder flasks

	Ident. No.
RV 10.300	0003738200
Powder flask, NS 29/32, 500 ml	
RV 10.301	0003738300
Powder flask, NS 29/32, 1000 ml	
RV 10.302	0003738400
Powder flask, NS 29/32, 2000 ml	



Receiving flasks

	Ident. No.
RV 10.100	0003742200
Receiving flask, KS 35/20, 100 ml	
RV 10.101	0003742300
Receiving flask, KS 35/20, 250 ml	
RV 10.102	0003742400
Receiving flask, KS 35/20, 500 ml	
RV 10.103	0003742500
Receiving flask, KS 35/20, 1000 ml	
RV 10.104	0003742600
Receiving flask, KS 35/20, 2000 ml	
RV 10.105	0003742700
Receiving flask, KS 35/20, 3000 ml	
RV 10.200	0003743200
Receiving flask, coated, KS 35/20, 100 ml	
RV 10.201	0003743300
Receiving flask, coated, KS 35/20, 250 ml	
RV 10.202	0003743400
Receiving flask, coated, KS 35/20, 500 ml	
RV 10.203	0003743500
Receiving flask, coated, KS 35/20, 1000 ml	
RV 10.204	0003743600
Receiving flask, coated, KS 35/20, 2000 ml	
RV 10.205	0003743700
Receiving flask, coated, KS 35/20, 3000 ml	

Vapor tubes, seals and other accessories

	Ident. No.
RV 10.70	0003812200
Vapor tube, NS 29/32	
RV 10.74	0003971700
Vapor tube, short, NS 29/32	
RV 10.8001	0003907000
Seal, PTFE, stainless steel	
RV 10.3000	0003859000
Extension plate for use with RV 10.500 foam break and 3 l evaporation flask	

HB 10 heating bath accessories

	Ident. No.
HB 10.1	0003641800
Shield for heating bath HB 10	
HB 10.2	0003641000
Protection cover for heating bath HB 10	

Rotary Evaporators | Accessories

Vacuum pumps

Ident. No.



MVP 10 basic

0003980000

Membrane vacuum pump for dry, oil-free applications in the low vacuum range



N 920 KT.29.18

0003919100

Membrane vacuum pump



SC 920 D400

0004583600

Vacuum pump



LVS 105T-10 ef

0004067800

Vacuum pump

MVP 10 basic accessories

Ident. No.



VCV 1

0020004850

Vacuum control valve manual



VCV 2

0020004893

Vacuum control valve digital



VSS 1

0020005194

Vacuum safety set

RV 10 control accessories Vacuum pump valves

Ident. No.



RV 10.4001

0003902600

Magnetic valve in-house vacuum



RV 10.4002

0003880300

Magnetic valve laboratory vacuum



RV 10.4003

0003900200

Pump control including magnetic valve



RV 10.5001

0003902700

Choke water valve, for RV 10 series

RV 8 accessories

Ident. No.



RV 8.1

0004438500

Support Pole



RV 8.2

0025001342

Mechanical end stop for RV 8

Accessories for all IKA® rotary evaporator models

Ident. No.

RV 05.10

0000736600

Balljoint clamp

RV 10.88

0003683300

Clamp, NS 29

RV 10.5005

0020000552

Hose kit



RV 10.5002

0003903800

Filter, for RV 10 and RV 8 series



RV 10.5003

0003907100

Pressure regulating valve, for RV 10 and RV 8 series

Mechanical / Electronic accessories

Support
stand details
on page 140

Lifts

LABLIFT m 0004022400

Manual scissors lift, set-up plate dimensions
170 x 230 mm, stroke 70 – 300 mm,
max. dynamic load 7 kg



Mechanical accessories | Fixing clamps

- | | Ident. No. |
|--|------------|
| ① H 44 | 0002437700 |
| Boss head clamp, clamping range Ø 10 – 11 mm, for stand R 104 | |
| ② R 200 | 0003372000 |
| Clamp for disperser T 10 basic and stand R 104 | |
| ③ R 182 | 0002657700 |
| Boss head clamp, clamping range Ø 6 – 16 mm, for stands R 1825, R 1826, R 1827 | |
| ④ R 270 | 0002657800 |
| Boss head clamp, clamping range Ø 25 – 36 mm, for stands R 2722 and R 2723 | |
| ⑤ R 271 | 0002664000 |
| Boss head clamp, clamping range Ø 34 mm, for stands R 2722 and R 2723 | |
| ⑥ R 350 | 0001752900 |
| Universal clamp, for use with H 44 & R 104 or R 181 & R 1825, R 1826, R 1827 | |
| ⑦ RH 3 | 0003008600 |
| Strap clamp for stand Ø 8 – 16 mm, for stands R 104, R 1825, R 1826 and R 1827 | |
| ⑧ RH 5 | 0003159000 |
| Strap clamp for stand Ø 8 – 16 mm, for stands R 2722 and R 2723 | |



Electronic accessories

- | | Ident. No. |
|--|------------|
| ⑨ ALMEMO 2490 | 0004709300 |
| 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. | |
| ⑩ DTM 12.10 | 0003127800 |
| Data cable, L2.5 m, 9 pins (F) | |
| ⑪ PT 100.23 | 0003122100 |
| Temperature sensor, stainless steel, Ø 3 mm, 250 mm length | |
| ⑫ PT 100.24 | 0003122200 |
| Temperature sensor, stainless steel, glass-coated, Ø 8 mm, 250 mm length | |
| ⑬ PT 100.25 | 0003122300 |
| Temperature sensor, stainless steel, Ø 6 mm, 255 mm length | |
| ALMEMO | 0004709400 |
| USB cable | |
| PC 1.2 | 0002616800 |
| Adapter, 25 pins | |
| LR 2000.64 | 0020010075 |
| pH process electrode | |

Mechanical accessories



Stands

	Diameter of support rod	Dimensions (W x D)	Height	Suitable accessories (clamps)*	Max. load	Stroke	Ident. No.
① R 104 stand Stand for T 10 basic, H 370 mm	10 mm	242 x 355 mm	370 mm	H 44, RH 3	0.7 kg	—	0003386000
② R 1825 plate stand Plate stand, H 560 mm	16 mm	200 x 316 mm	560 mm	R 182, RH 3	5 kg	—	0003160000
③ R 1826 plate stand Plate stand, H 800 mm	16 mm	200 x 316 mm	800 mm	R 182, RH 3	5 kg	—	0003160100
④ R 1827 plate stand Plate stand, H 1000 mm	16 mm	200 x 316 mm	1000 mm	R 182, RH 3	5 kg	—	0003160200
⑤ R 2722 H-stand H-Stand, H 1010 mm	34 mm	460 x 420 mm	1010 mm	R 270, R 271, RH 5	10 kg	—	0001412000
⑥ R 2723 telescopic stand Telescopic stand, H 620 – 1010 mm	34 mm	460 x 420 mm	620 – 1010 mm	R 270, R 271, RH 5	10 kg	390 mm	0001412100
⑦ T 653 telescopic stand Telescopic stand, H 1200 mm	48 mm	460 x 530 mm	1200 mm		—	500 – 1000 mm	0001608000
⑧ R 474 telescopic stand Telescopic stand, H 1200 mm	48 mm	460 x 530 mm	1200 mm		—	500 – 1000 mm	0001643000
⑨ R 472 floor stand Floor stand, H 2020 mm	—	80 x 80 mm	2020 mm		—	980 – 1860 mm	0000738700
⑩ R 4765 floor stand Floor stand, H 1014 – 1588 mm	—	764 x 870 mm	1500 mm		40 kg	465 mm	0030000149
⑪ R 2850 floor stand Floor stand, H 1900 mm	16 mm	980 x 875 mm	1921 mm		8.5 kg	1800 mm	0020002900

* Accessories on page 139

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

Digital display for
monitoring of speed
and temperature



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



Adjustable safety circuit



Connections to attach
a cooling source to the
back of the unit

Laboratory Reactors

With just one
base unit
multiple vessels
can be used



Technical data

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
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

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
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 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	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	0001091500
LR 1000 basic base	0003600099
LR 1000.1 reactor vessel	0003602000
LR 1000.61 sensor receptacle	0004664400
PT 100.30 temperature sensor	0004284700

LR 1000 basic Package	0008040100
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LR 1000 control Package*

	Ident. No.
H 11 main cable Euro plug	0001091500
LR 1000 control base	0025001938
LR 1000.3 reactor vessel	0025001955
LR 1000.61 sensor receptacle	0004664400
PT 100.30 temperature sensor	0004284700
USB cable USB A-Micro B 2.0	0004335000

LR 1000 control Package	0010001035
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pH
electrode

Possibility to connect
a pH electrode

LR 1000
control



Integrated
weighing function

TFT
Display

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



Torque trend measurement
indicates changes in viscosity
of the product



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



Patented
Integrated
weighing function



reddot design award
winner 2013



German
Design Award
SPECIAL
MENTION

* PT 100.30 included in the delivery for
measuring the temperature of the medium

Accessories starting page 149 – 151

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.



Technical data

Technical data	LR-2.ST
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 1240 mm
Metals in contact with medium	stainless steel (AISI 316L) FFPM borosilicate glass 3.3

- > Suitable for vacuum operation
- > Seals in contact with the product are made of solvent resp. temperature-resistant perfluoroelastomer (FFPM)
- > Infinitely adjustable speed
- > Suited for processing high- viscosity samples at highest temperatures. Various types of agitators can be used with LR-2.ST

NEW



LR-2.ST High-Performer

- > LR-2.ST stand system
- > LR-2.SI safety disconnection
- > EUROSTAR 200 P 4 control

Ident. No. 0010001669

LR-2.ST the Allrounder

- > LR-2.ST stand system
- > LR-2.SI safety disconnection
- > EUROSTAR 200 control

Ident. No. 0010001671

LR-2.ST the Versatile

- > LR-2.ST stand system
- > LR-2.SI safety disconnection
- > EUROSTAR 100 control

Ident. No. 0010001672

LR-2.ST Compact Power

- > LR-2.ST stand system
- > LR-2.SI safety disconnection
- > EUROSTAR 60 control

Ident. No. 0010001673

Laboratory Reactors | Accessories

LR 1000 accessories

Ident. No.



1 LR 1000.1 0003602000

Reactor vessel, 1000 ml, FKM Sealings,
4 connectors, LR 1000.11

2 LR 1000.3 0025001955

Reactor vessel, 1000 ml, FFKM Sealings,
6 connectors, LR 1000.10



LR 1000.10 0004663100

Anchor stirrer with PEEK scrapers



LR 1000.11 0004663000

Anchor stirrer, stainless steel



LR 1000.20 0004663200

Flow breaker / baffle, stainless steel



LR 1000.41 0004664300

Shaft receptacle to install the dispersing elements
S 25 KV



LR 1000.61 0004664400

Sensor receptacle to install the temperature sensors
PT 100.30



LR 1000.64 0004663300

pH process electrode



LR 1000.65 0004663400

pH electrode receptacle



WiCO LR 1000 0020007267

Wireless controller



LR 1000.70 0025003123

Lid holder

LR-2.ST accessories

Ident. No.



LR 2000.10 0002508400

Anchor stirrer with PTFE scraper



LR 2000.11 0002509500

Anchor stirrer, stainless steel



LR 2000.20 0002508500

Flow breaker / baffle, stainless steel

LR-2.SP 0003326400

Splinter shield

HBC 5 basic 0004125000

Heating bath circulator

HBC 5 control 0004127000

Heating bath circulator



LR 2.1 0003070000

Reactor vessel, single-walled, 2000 ml



LR 2000.1 0002508300

Reactor vessel, double-walled, 2000 ml



LR 2000.2 0002509600

Reactor vessel, double-walled, 2000 ml
with bottom drain

LR 2000.3 0002509700

stainless steel reactor vessel, double-walled, 2000 ml

LR 2000.4 0003064900

stainless steel reactor vessel, double-walled
with bottom drain 2000 ml

Laboratory Reactors | Accessories

LR-2.ST accessories

Ident. No.



LR 2000.40

0002509200

Shaft receptacle to install the dispersing elements S 25 KV



LR 2000.60

0002509300

Sensor receptacle to install the temperature sensors PT 100.25 and PT 100.5

LR 2000.64

0020010075

pH process electrode

LR 2000.65

0003172600

pH measuring sensor receptacle

LT 5.20

0002606700

Hose, insulated, stainless steel, Ø 10 mm, 150 mm, 2 pcs.

LT 5.21

0020000988

Hose, insulated, PTFE, Ø 13 mm, 150 mm, 2 pcs.

LT 5.25

0020000878

Lock coupling

LT 5.26

0020000879

Lock adapter

LT 5.27

0020000880

Hose adapter

H 68.55

0025001479

Temperature sensor, stainless steel, Ø 6 mm



HBR 4 digital

0002602300

Heating bath, 4 l



HBR 4 control

0010001849

Heating bath, 4 l, incl. PT 1000.61, d: 6 mm, for external temperature regulation of the medium

Available
Q2/2016

LR-2.ST and LR 1000 accessories

Ident. No.

T 25 – LR digital

0020008820

Disperser

① S 25 KV – 25 F

0002404000

Dispersing element

② S 25 KV – 25 G

0002466900

Dispersing element

③ S 25 KV – 18 G

0002348000

Dispersing element

S 25 KV – 2802

0020008825

Dissolver stirrer, high speed



LR-2.ST and LR 1000 accessories

Ident. No.



RC 2 basic

0004171000

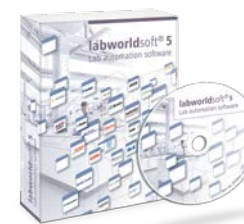
Recirculating chiller



H.SI.8

0004569000

Hose, silicone, Ø 8 mm, length 1.5m, 2 pcs.



labworldsoft®

0004720000

Laboratory software

PC 1.1

0002616700

Cable, length 3 m



PC 4.1

0003192000

RS 232 server

Vacuum pumps

Ident. No.



MVP 10 basic

0003980000

Membrane vacuum pump for dry, oil-free applications in the low vacuum range



VCV 1

0020004850

Vacuum control valve manual



VCV 2

0020004893

Vacuum control valve digital



VSS 1

0020005194

Vacuum safety set

magic PLANT



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



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



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



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.

Technical data	magic PLANT basic	magic PLANT inline	magic PLANT powder
Max. admissible 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
	Ident. No. 20001186	Ident. No. U107703	Ident. No. U107159

magic
PLANT



Modular design



Higher viscosity
products processible



Tiltable vessel



Software



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.



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.

Ident. No. 0004720000



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.

Ident. No. 0004040500*

IKA®+

Try it for yourself!
Download 30-day trial version at:
www.ika.com

* Connection cable C 5041.10 and USB / RS 232 adapter are included with the delivery.

Software | Accessories



Accessories

PCI 8.2 plug-in card

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

Ident. No. 0008017500

PC 4.1 RS 232 server

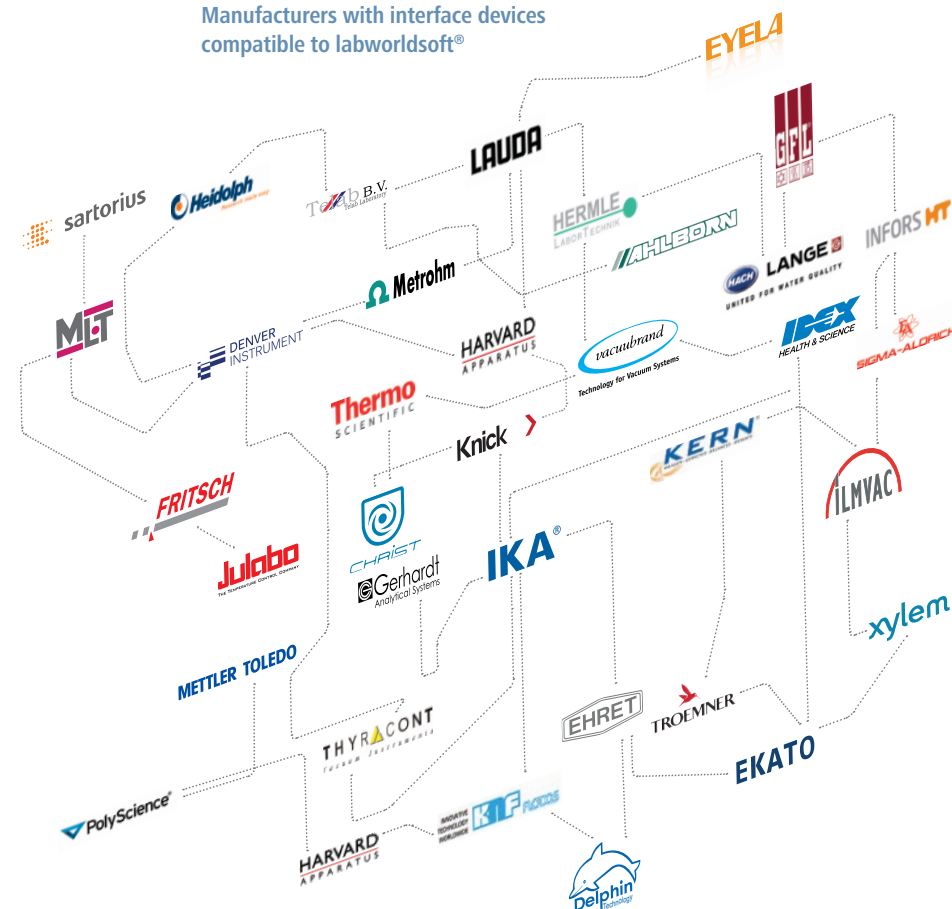
Can control up to 4 lab units through the ethernet. The server supports 4 RS 232 ports with a 10/100 mbps ethernet interface by TCP/IP. The server can be set-up through the ethernet and works as a transparent serial COM-Port without restrictions of platform and distance.

Ident. No. 0003192000



	Ident. No.
① Expert Key 100 eco Data collection system for laboratories	0020005486
② Expert Key 100 pro Data collection system for industries	0020005485
Multi Power Switch Adapter for Expert Key	0020003454
PT 100.1 A 1 Adapter LEMO for Expert Key	0020004315
PT 1000 A 1 Adapter DIN 6 for Expert Key	0020004316
PT 100.10 A 1 Adapter DIN 5 for Expert Key	0020004317
RV 10 A 1 Adapter valve for Expert Key	0020004314
PT100 extension (Lemo) Extension cable PT 100, LEMO connector, 3 m	0020004629
MV 1 power plug Cooling-water-valve with power plug	0010001655

Manufacturers with interface devices
compatible to labworldsoft®



Cable			
	Pins	Length	Ident. No.
PC 1.1 cable	—	3 m	0002616700
PC 1.5 cable	—	2.5 m	0002756000
PC 2.1 cable	—	5 m	0002700700
PC 2.3 cable	—	3 m	0003036200
DTM 12.10 cable	9 pins (F)	2.5 m	0003127800
Adapter			
PC 1.2 adapter	25 pins	—	0002616800
PC 1.4 adapter	9 pins (F), 15 pins (M)	—	0002755900
PC 2.2 adapter	9 pins (F), 25 pins (M)	—	0002753200
PC 5.1 adapter	9 pins (F), 15 pins (M)	—	0002621500

* 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 are optimally geared towards various different demands. Functionality, safety, and longevity were the main goals in the development of IKA®'s oxygen bomb calorimeters.



The world's smallest calorimeter!

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

C 1



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



Technical data

Maximum energy input	40,000 J
Resolution of the temperature sensor	0.0001
Power ON-time	100 %
Operating oxygen pressure	30 bar
Measuring modes / Measurements per hour	Static jacket (Regnault Pfaundler) 4
Start temperature settings	2 possible settings: 22 °C or 30 °C
RSD (using NIST benzoic acid 39j)	Static jacket (Regnault Pfaundler) 0.15 %
Number of decomposition vessel per unit	up to 2

C 1

C 1 Ident. No. 0003825000
C 1 Package 1/10 Ident. No. 0010001045



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 global standards

40,000 J
0.0001
100 %
30 bar
Adiabatic 5
Isoperibol (Regnault Pfaundler) 4
Dynamic 6
3 possible settings: 22 °C, 25 °C, 30 °C
Adiabatic 0.05 %
Isoperibol (Regnault Pfaundler) 0.05 %
Dynamic 0.15 %
up to 4

Package 1/10 Ident. No. 0010001046
Package 1/12 Ident. No. 0010001047
Package 2/10 Ident. No. 0008804300
Package 2/12 Ident. No. 0008804400

C 6000 isoperibol

40,000 J
0.0001
100 %
30 bar
Isoperibol (Regnault Pfaundler) 4
Dynamic 6
3 possible settings: 22 °C, 25 °C, 30 °C
Isoperibol (Regnault Pfaundler) 0.05 %
Dynamic 0.15 %
up to 4

Package 1/10 Ident. No. 0010001048
Package 1/12 Ident. No. 0010001049
Package 2/10 Ident. No. 0008804700
Package 2/12 Ident. No. 0008804800

Calorimeters



GOST-certified

Powered with low
operating voltage
24 V DCAutomatic precise
filling of inner vessel

Technical data

C 200	
Maximum energy input	40,000 J
Resolution of the temperature sensor	0.0001
Power ON-time	continuous operation
Operating oxygen pressure	—
Measuring modes / Measurements per hour	Isoperibol 3 Dynamic 5 Manual (Isoperibol) 3 Time-controlled 4
Start temperature settings	18 – 25 °C
RSD (using NIST benzoic acid 39j)	Isoperibol 0.1 % Dynamic 0.1 % Manual (Isoperibol) 0.1 % Time-controlled 0.1 %
Number of decomposition vessel per unit	up to 4

C 200 Ident. No. 0008802500

C 200 h Ident. No. 0008803700

Short measurement times
result in high sample
frequencyPrecise and reproducible
determination of calorific
values according to ISO 1928

Technical data

C 7000	
Maximum energy input	30,000 J
Resolution of the temperature sensor	0.0001
Power ON-time	continuous operation
Operating oxygen pressure	30 bar
Measuring modes / Measurements per hour	double dry
Start temperature settings	12 – 30 °C (cooling water)
RSD (using NIST benzoic acid 39j)	double dry 0.2 % – 0.5 %
Number of decomposition vessel per unit	up to 4

basic set 1 Ident. No. 0008800900

basic set 2 Ident. No. 0008801400

Accessories starting page 164 – 169

Calorimeters | Accessories & consumables

C 1 and C 6000 consumables

Ident. No.



C 1.50 0004500600

Dot matrix printer



C 1.103 0004579300

Ignition wire, standard, Kantal, 5 pcs.



C 1.123 0004500200

Ignition wire, platinum, 2 pcs.

C 1 accessories and consumables

Ident. No.



C 1.1012 0004500700

Organizer



C 1.20 0004501000

Heater

C 1.30 0004500900

Venting station



C 1.10 0004500300

Combustion chamber



C 1.101 0004502200

Set of spare parts, approx. 1000 experiments

C 6000 accessories and consumables

Ident. No.



C 6010 0003770000

Decomposition vessel, standard



C 6012 0004504000

Decomposition vessel, halogen resistant



C 6030 0004504100

Venting station

C 60.1012 0004504200

Organizer

C 6000.10 0004504300

Set of spare parts, approx. 1000 experiments

C 6000.12 0004504400

Set of spare parts, approx. 1000 experiments



C 5020 0007145000

Sample rack

C 200 accessories

Ident. No.

C 248 0003520000

Oxygen station



C 200.1 0003548900

Measuring cup, 2000 ml

C 200.2 0004028800

Conversion kit for C 5012

C 5010 0007114000

Decomposition vessel, standard

C 5012 0007215000

Decomposition vessel, halogen resistant



C 5030 0007198000

Venting station



C 5010.4 0003016900

Attachment for combustible crucible C 14

C 26 0008804000

Prep stand

C 1, C 200, C 6000 accessories

Ident. No.

C 25 0003197200

Pressure regulating valve

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 7000 accessories

Ident. No.

C 7000 0003008000

Measurement cell

C 7010 0003015000

Decomposition vessel, standard

C 7012 0003017000

Decomposition vessel, halogen resistant

C 7002 0007011000

Cooling system



C 48 0001560000

Oxygen station



C 7030 0003013300

Venting station



C 7010.8 0007095000

Venting handle



C 5010.4 0003016900

Attachment for combustible crucible C 14



C 5010.5 0003055900

Crucible holder, big

Calorimeters | Accessories & consumables

Accessories for all calorimeters

Ident. No.

C 27 0004579700

Calorimeter preparation set

C 29 0000750200

Pressure gauge, oxygen

C 21 0001605300

Pelleting press

C 5010.8 0004579800

Crucible holder, small

C 5010.5 0003055900

Crucible holder, big

C 200 and C 7000 consumables

Ident. No.

C 5010.3 0007122800

Ignition wire, spare, 5 pcs.

C 5012.3 0002994900

Ignition wire, platinum, 2 pcs.

C 14 0007224500

Combustible crucible, 100 pcs.

Consumables for all calorimeters

Ident. No.

C 1.104 0020003598

Water bath additive, 30 ml

C 710.4 0001483700

Cotton thread, cut to length, 500 pcs.

C 710.8 0004579900

Cotton thread, cut to length, thick, 500 pcs.

C 4 0001695500

Quartz dish

C 5 0001749500

Set of VA combustion crucibles, 25 pcs.

C 6 0000355100

Quartz dish, big

C 710.2 0001483500

Set of VA combustion crucibles, 25 pcs.

C 9 0000749900

Gelatine capsules, 100 pcs.

C 10 0000750000

Acetobutyrate capsules, 100 pcs.

C 12 0002201400

Combustion bags, 40 x 35 mm, 100 pcs

C 12 A 0002201500

Combustion bags, 70 x 40 mm, 100 pcs

C 15 0003131100

Paraffin strips, 45 x 3 mm, 600 pcs.

C 16 0003801100

Parafilm, 1000 x 50 mm

C 17 0003801200

Paraffin, liquid, 30 ml

C 43 0000750600

Benzoic acid, NIST 39j, 30 g

C 723 0003243000

Benzoic acid, blister package, 0.5 g, 50 pcs.

C 723 Big Pack 0003717400

Benzoic acid, blister package, 0.5 g, 450 pcs.

AOD 1.11 0003044000

Control standard, 50 ml, for Sulfur and chlorine

AOD 1.12 0003080200

Control standard, 50 ml, for fluorine and bromine

Calorimeters | Accessories & consumables

Calorimeter instructions

Instruction on the IKA® Calorimeter system



Decomposition system

Ident. No.

AOD 1 0008801300

Decomposition system

AOD 1 consumables

Ident. No.

C 4 0001695500

Quartz dish

C 9 0000749900

Gelatine capsules, 100 pcs.

C 10 0000750000

Acetobutyrate capsules, 100 pcs.

C 12 0002201400

Combustion bags, 40x35 mm, 100 pcs.

C 12 A 0002201500

Combustion bags, 70x40 mm, 100 pcs.

C 14 0007224500

Combustible crucibles, 100 pcs.

C 15 0003131100

Paraffilm strips C 5012.3, Ignition wire, platinum, 2 pcs.

C 5012.3 0002994900

Ignition wire, platinum, 2 pcs.

C 710.4 0001483700

Cotton thread, cut to length, 500 pcs.

AOD 1.11 0003044000

Control standard oil for S, Cl, 50 ml

AOD 1.12 0003080200

Control standard oil for F, Br, 50 ml

C 723 0003243000

Benzoic acid, blister package, 50 pcs.

C 723 Big Pack 0003717400

Benzoic acid, blister package, 450 pcs.

Decomposition accessories

Ident. No.

AOD 1.1 0003303000

Decomposition vessel

AOD 1.2 0003348000

External ignition unit

AOD 1.3 0003308000

Protection device

AOD 1.13 0003348100

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.

Ident. No. 0004040500*

* Connection cable C 5041.10 and USB / RS 232 adapter are included with the delivery.

IKA® Packages

Package name / Package description	Ident No.
C-MAG HS 7 Package	0009015900
C-MAG HS 7	0003581200
ETS-D5 electronic contact thermometer	0003378000
H 38 holding rod	0003547700
H 44 boss head clamp	0002437700
H 16 V support rod	0001545100



Package name / Package description	Ident No.
RW 28 digital Package	0009023200
RW 28 digital (drive)	0005040000
R 2723 telescopic stand	0001412100
R 1385 propeller stirrer	0000477700
R 271 boss head clamp	0002664000
RW 47 digital Package	0009023300
RW 47 digital (drive)	0004050000
R 2302 propeller stirrer	0000739000
R 474 telescopic stand	0001643000



**Magnetic stirrers
with heating**
page 10



**Mechanical
Overhead stirrers**
page 34



Package name / Package description	Ident No.
KS 130 basic Package	0009019000
KS 130 basic	0002980000
AS 130.3 dish attachment	0003120000
STICKMAX universal adhesive mat	0003920000
KS 130 control NOL Package	0009025500
KS 130 control NOL	0004278200
AS 130.3 dish attachment	0003120000
STICKMAX universal adhesive mat	0003920000
KS 260 basic Package	0009019200
KS 260 basic	0002980200
AS 260.3 dish attachment	0003120600
2 x STICKMAX universal adhesive mat	0003920000
KS 260 control NOL Package	0009025600
KS 260 control NOL	0004278400
AS 260.3 dish attachment	0003120600
2 x STICKMAX universal adhesive mat	0003920000

Package name / Package description	Ident No.
T 10 standard PCR kit	0004095500
S 10 D - 7 G - KS - 65 dispersing tool	0020002076
S 10 D - 7 G - KS - 110 dispersing tool	0020002075
Disposable generator 7 x 65 mm (12 pcs.)	0003380612
R 200 clamp	0003372000
T 18 digital Package	0009022800
T 18 digital	0003720000
S 18 N - 19 G dispersing tool	000L004640
T 65 basic Package	0009023400
T 65 basic	0004023500
S 65 KG - HH - G 65 G dispersing tool	0008005500
T 653 telescopic stand	0001608000
T 65 digital Package	0009023500
T 65 digital	0004234500
S 65 KG - HH - G 65 G dispersing tool	0008005500
T 653 telescopic stand	0001608000



**T-series ULTRA-TURRAX®
Dispersers**
page 68



Shakers
page 50



IKA® Packages

1

Package name / Package description	Ident. No.
Open heating bath circulators	
ICC basic eco 8*	0008034900
ICC control eco 8**	0008035300
IB eco 8 bath vessel, plastic	0004248100
BS.ICC bath bridge	0020003077
ICC basic eco 18*	0008035000
ICC control eco 18**	0008035400
IB eco 18 bath vessel, plastic	0004248200
BL.ICC bath bridge	0020003078
ICC basic pro 9*	0008035100
ICC control pro 9**	0008035500
IB pro 9 bath vessel, stainless steel	0004248500
BS.ICC bath bridge	0020003077
ICC basic pro 12*	0010000414
ICC control pro 12**	0010000415
IB pro 12 bath vessel, stainless steel	0004577500
BL.ICC bath bridge	0020003078
ICC basic pro 20*	0008035200
ICC control pro 20**	0008035600
IB pro 20 bath vessel, stainless steel	0004248600
BL.ICC bath bridge	0020003078

* ICC basic included in delivery

** ICC control included in delivery

3

Package name / Package description	Ident. No.
Heating bath circulators with cover	
IC basic eco 18 c*	0008036600
IC control eco 18 c**	0008037000
IB eco 18 bath vessel, plastic	0004248200
CL.IC cover	0004471800
IC basic pro 12 c*	0008039900
IC control pro 12 c**	0008040000
IB pro 12 bath vessel, stainless steel	0004577500
CM.IC cover	0004577600
IC basic pro 20 c*	0008036800
IC control pro 20 c**	0008037200
IB pro 20 bath vessel, stainless steel	0004248600
CL.IC cover	0004471800

* IC basic included in delivery

** 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

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Package name / Package description	Ident. No.
Heating bath circulators with cover	
ICC basic eco 8 c*	0008035700
ICC control eco 8 c**	0008036100
IB eco 8 bath vessel, plastic	0004248100
BS.ICC bath bridge	0020003077
CS.ICC cover	0004471500
ICC basic eco 18 c*	0008035800
ICC control eco 18 c**	0008036200
IB eco 18 bath vessel, plastic	0004248200
BL.ICC bath bridge	0020003078
CL.ICC cover	0004471600
ICC basic pro 9 c*	0008035900
ICC control pro 9 c**	0008036300
IB pro 9 bath vessel, stainless steel	0004248500
BS.ICC bath bridge	0020003077
CS.ICC cover	0004471500
ICC basic pro 12 c*	0010000416
ICC control pro 12 c**	0010000417
IB pro 12 bath vessel, stainless steel	0004577500
BL.ICC bath bridge	0020003078
CM.ICC cover	0025000290
ICC basic pro 20 c*	0008036000
ICC control pro 20 c**	0008036400
IB pro 20 bath vessel, stainless steel	0004248600
BL.ICC bath bridge	0020003078
CL.ICC cover	0004471600

* 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

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IKA® Packages

Package name / Package description	Ident No.
RV 8 V	0008033800
RV 8	0004057099
HB 10 heating bath	0004068099
RV 10.1 set of glassware, vertical	0003655300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 8 V-C	0008034200
RV 8	0004057099
HB 10 heating bath	0004068099
RV 10.10 set of glassware, vertical, coated	0003755400
RV 10.70 vapor tube, NS 29/32	0003812200
RV 8 FLEX	0008033400
RV 8	0004057099
HB 10 heating bath, incl. woulff bottle	0004068099
RV 05.10 balljoint clamp	0000736600
RV 10.88 clamp, NS 29	0003683300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10 digital V	0008040300
RV 10 digital	0003550099
HB 10 heating bath	0004068099
RV 10.1 set of glassware, vertical	0003655300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10 digital V-C	0008040400
RV 10 digital	0003550099
HB 10 heating bath	0004068099
RV 10.10 set of glassware, vertical, coated	0003755400
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10 digital FLEX	0008040500
RV 10 digital	0003550099
HB 10 heating bath, incl. woulff bottle	0004068099
RV 05.10 balljoint clamp	0000736600
RV 10.88 clamp, NS 29	0003683300
RV 10.70 vapor tube, NS 29/32	0003812200



RV 8



RV 10 digital

Rotary Evaporators
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RV 10 control



RV 10 control auto

Rotary Evaporators
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Package name / Package description	Ident No.
RV 10 control V	0008037700
RV 10 control	0004411099
HB 10 heating bath	0004068099
RV 10.1 set of glassware, vertical	0003655300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10.4002 magnetic valve laboratory vacuum	0003880300
RV 10 control V-C	0008037900
RV 10 control	0004411099
HB 10 heating bath	0004068099
RV 10.10 set of glassware, vertical, coated	0003755400
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10.4002 magnetic valve laboratory vacuum	0003880300
RV 10 control FLEX	0008038100
RV 10 control	0004411099
HB 10 heating bath, incl. woulff bottle	0004068099
RV 05.10 balljoint clamp	0000736600
RV 10.88 clamp, NS 29	0003683300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10.4002 magnetic valve laboratory vacuum	0003880300
RV 10 control V auto	0008037800
RV 10 control	0004411099
Pump with analog connection	0004406000
HB 10 heating bath	0004068099
RV 10.1 set of glassware, vertical	0003655300
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10 control V-C auto	0008038000
RV 10 control	0004411099
Pump with analog connection	0004406000
HB 10 heating bath	0004068099
RV 10.10 set of glassware, vertical, coated	0003755400
RV 10.70 vapor tube, NS 29/32	0003812200
RV 10 control FLEX auto	0008038200
RV 10 control	0004411099
Pump with analog connection	0004406000
HB 10 heating bath, incl. woulff bottle	0004068099
RV 05.10 balljoint clamp	0000736600
RV 10.88 clamp, NS 29	0003683300
RV 10.70 vapor tube, NS 29/32	0003812200

IKA® Packages

Package name / Package description	Ident. No.
C 1 Package 1/10	0010001045
C 1	0003825000
RC 2 basic recirculating chiller	0004171000
C 6000 global standards Package 1/10	0010001046
C 6000 global standards	0003780000
C 6010 decomposition vessel, standard	0003770000
RC 2 basic recirculating chiller	0004171000
C 6000 global standards Package 1/12	0010001047
C 6000 global standards	0003780000
C 6012 decomposition vessel, halogen resistant	0004504000
RC 2 basic recirculating chiller	0004171000
C 6000 global standards Package 2/10	0008804300
C 6000 global standards	0003780000
C 6010 decomposition vessel, standard	0003770000
C 6000 global standards Package 2/12	0008804400
C 6000 global standards	0003780000
C 6012 decomposition vessel, halogen resistant	0004504000
C 6000 isoperibol Package 1/10	0010001048
C 6000 isoperibol	0004025000
C 6010 decomposition vessel, standard	0003770000
RC 2 basic recirculating chiller	0004171000
C 6000 isoperibol Package 1/12	0010001049
C 6000 isoperibol	0004025000
C 6012 decomposition vessel, halogen resistant	0004504000
RC 2 basic recirculating chiller	0004171000
C 6000 isoperibol Package 2/10	0008804700
C 6000 isoperibol	0004025000
C 6010 decomposition vessel, standard	0003770000
C 6000 isoperibol Package 2/12	0008804800
C 6000 isoperibol	0004025000
C 6012 decomposition vessel, halogen resistant	0004504000



C 1



C 6000

Calorimeters
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C 200

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Package name / Package description	Ident. No.
C 200 h Package	0008803700
C 200	0003385000
C 200.2 conversion set for C 5012	0004028800
C 248 oxygen station	0003520000
C 5012 decomposition vessel, halogen resistant	0007215000
C 200 Package	0008802500
C 200	0003385000
C 5010 decomposition vessel, standard	0007114000
C 248 oxygen filling station	0003520000
C 7000 Set 1	0008800900
C 7000	0003008000
C 7010 decomposition vessel, standard	0003015000
C 7002 cooling system	0007011000
C 48 oxygen station	0001560000
C 7000 Set 2	0008801400
C 7000	0003008000
C 7012 decomposition vessel, halogen resistant	0003017000
C 7002 cooling system	0007011000
C 48 oxygen station	0001560000



C 7000

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