

IKA® Mixing

Magnetic stirrers with heating



Configuration example

1

RET basic C safety control

Magnetic stirrer with bushing for connecting a contact thermometer, page 9, incl. protection cover H 99, page 24.

2

ETS-D 4 fuzzy

Electronic contact thermometer with fuzzy logic control, incl. stainless steel sensor H 62, page 21.

3

H 16 V

Support rod for attachment to the magnetic stirrer, page 23.

4

H 36

Holding rod for the ETS-D4 fuzzy or the sensor H 62, page 23.

5

H 44

Boss head clamp, page 23.

6

R 380

Stand support, page 23.

Magnetic stirrers with heating

RET basic safety control



RET basic C safety control

RET basic safety control IKAMAG®, RET basic C safety control IKAMAG®

Magnetic stirrer with new heating and stirring technology for fast, accurate temperature control. The RET basic (with stainless steel surface) and the RET basic C (with white coated surface, chemical resistant) are exemplified by:

- Extremely fast heating times
- Very broad temperature range (RT - 340 °C)
- Adjustable safety circuit (50 - 380 °C)
- Electronic speed control
- Speed range from 0 - 1.500 rpm
- Bushing according to DIN 12878 for the use of contact thermometers (e.g. ETS-D 4 fuzzy)
- Incl. protection cover H 99

Accessories (Page):

ETS-D 4 fuzzy Electronic contact thermometer (15), IKAFLON® Stirring bars (25), TRIKA® Stirring bars (25), RS 1 Set of stirring bars (25), RSE Stirring bar remover (25), R 380 Stand support (23), Bath attachments (24): H 15, H 28, Oil bath attachments (24): H 29, H 30

Magnetic stirrer	
Stirring quantity (H ₂ O)	20 l
Motor rating	
input / output	12 / 5 W
Speed display	Scale
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H ₂ O)	7 K/min
Temperature range	RT - 340 °C
Setting accuracy	± 10 K
Adjustable safety circuit	50 - 380 °C
Sensor for	
temperature in medium	ETS-D 4 fuzzy
Control accuracy with sensor	± 1 K
Heating plate	
Material	RET basic: stainless steel
	RET basic C: stainless steel white coated
Dimensions	Ø = 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,4 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

	Ident. No.	230 V 50/60 Hz	Ident. No.	115 V 50/60 Hz
RET basic safety control	3188800		3188801	
RET basic C safety control	3197600		3197601	

RCT basic safety control IKAMAG®

- With adjustable safety circuit for heating plate temperature (50 - 380 °C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- World-wide best seller
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D 4 fuzzy
- Top class safety with improved heating control technology
- Enclosed assembly (IP 42) guarantees long service life
- Highly polished Silumin heating plate for optimum heat transfer
- High magnetic adhesion prevents decoupling
- Incl. protection cover H 99

Accessories (Page):

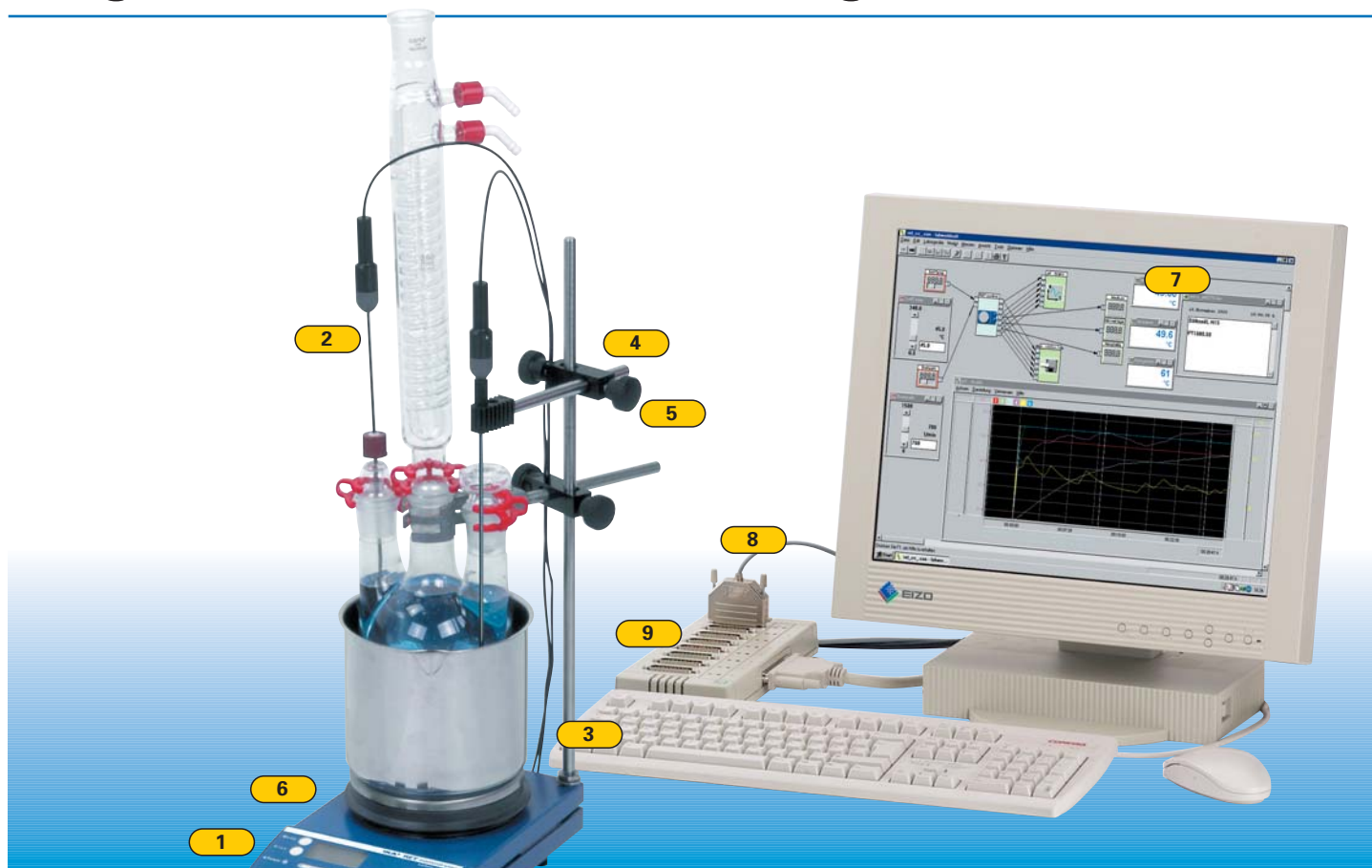
ETS-D 4 fuzzy Electronic contact thermometer (21), IKAFLON® Stirring bars (25), TRIKA® Stirring bars (25), RS 1 Set of stirring bars (25), RSE Stirring bar remover (25), R 380 Stand support (23), Bath attachments (24): H 15, H 28, Oil bath attachments (24): H 29, H 30

Magnetic stirrer	
Stirring quantity (H ₂ O)	20 l
Motor rating	
input / output	12 / 5 W
Speed display	scale (1 - 10)
Speed range	0 - 1.100 rpm
Max. magnetic bar L x Ø	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H ₂ O in H 15)	6 K/min
Temperature range	RT - 300 °C
Setting accuracy	± 10 K
Adjustable safety circuit	50 - 380 °C
Sensor for	
temperature in medium	ETS-D 4 fuzzy
Control accuracy with sensor	± 1 K
Heating plate	
Material	silumin
Dimensions	Ø = 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 90 mm
Weight	2,4 kg
Permissible ambient	
temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

	Ident. No.	230 V 50/60 Hz	Ident. No.	115 V 50/60 Hz
	3378500		3378501	

IKA® Mixing

Magnetic stirrers with heating



Configuration example

1 **RET control- visc safety control**
Safety magnetic stirrer with heating, suitable for unsupervised operation, page 11.

2 **PT 1000.50**
Temperature sensor (double), stainless steel for RET control- visc safety control, page 23.

3 **H 16 V**
Support rod for attachment to the magnetic stirrer
RET control- visc safety control, page 23.

4 **H 36**
Holding rod for casing of the temperature sensor PT 1000.50, page 23.

5 **H 44**
Boss head clamp,
page 23.

6 **H 99**
Protection cover included with RET control- visc safety control,
page 24.

7 **labworldsoft®**
Laboratory software for control and data collection,
page 131.

8 **PC 1.5**
Cable, page 136.

9 **PCI 8.2 (accessory optional)**
Plug-in card for mounting in the PC to control up to 8 instruments,
page 135.

Magnetic stirrers with heating

RET control-visc *safety control*



RET control-visc C *safety control*

RET control-visc *safety control* and RET control-visc C *safety control*

Safety magnetic stirrer with heating, suitable for unsupervised operation.

- Option: 1 sensor for medium temperature (PT 100) or 2 separate temperature sensors for heat transfer fluid and medium (PT 1000) available (automatic identification)
- 2 adjustable safety circuits
- Stirring bar crack detection
- With stainless steel surface or white coated surface (chemical resistant)
- Setting acc. medium temperature: 0,5 K
- HOT warning display indicating presence of any residual heat when the unit is switched off
- Easy-to-read backlit LCD display
- Actual medium temperature resolution displayed: 0,1 K (RT to 100 °C); 1 K (from 100 °C upwards)
- Fuzzy control and microprocessor technology guarantee maximum control accuracy
- PC control via RS 232 interface, with optional safety function
- Software labworldsoft® is available to control and document all measuring values via PC
- HOT visual warning for hot heating plate
- 3 modes of operation, e.g. stirring and heating functions can be secured against inadvertent changes of set parameters
- Viscosity trend display
- Enclosed assembly (IP 42) guarantees long service life
- Incl. protection cover H 99

Accessories (Page):

Temperature sensors (22/23): PT 100.50, PT 100.51, PT 100.52, PT 1000.50, PT 1000.51, IKAFLON®-Stirring bars (25), TRIKA®-Stirring bars (25), RS 1 Set of stirring bars (25), RSE Stirring bar remover (25), R 380 Stand support (23), Bath attachments (24): H 15, H 28, labworldsoft® (131), Oil bath attachments (24): H 29, H 30, AM 1 Analog module (112)

Magnetic stirrer	
Stirring quantity (H ₂ O)	20 l
Motor rating	
input / output	12 / 5 W
Speed display	digital
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Heating function	
Heat output	600 W
Heating rate (1 l H ₂ O in H 15)	7 K/min
Temperature range	RT - 340 °C
Medium temperature setting resolution	0,5 K (to 100 °C) 1 K (from 100 °C)
Adjustable safety circuit (heating plate)	50 - 350 °C
Adjustable safety circuit (medium)	50 - 350 °C
Sensor for temperature in medium	1 x PT 100 or 2 x PT 1000
Control accuracy with sensor	± 0,2 K
Heating plate	
Material RET control-visc s.c.	stainless steel
RET control-visc C s.c.	white coated
Dimensions	Ø = 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,8 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42
Interface	RS 232 / analog

	Ident. No.		Ident. No.
RET control-visc <i>safety control</i>	3364000	230 V 50/60 Hz	3364001 115 V 50/60 Hz
RET control-visc C <i>safety control</i>	3364100	230 V 50/60 Hz	3364101 115 V 50/60 Hz

Magnetic stirrers with heating

RH basic 2

Economic magnetic stirrer with stainless steel heating plate.

- Fixed safety circuit 400 °C
- Soft-start stirring motor

Accessories (Page):

IKAFLON®-Stirring bars (25), TRIKA®-Stirring bars (25), RSE Stirring bar remover (25), Bath attachments (24): H 15, H 28



RH basic 2

Magnetic stirrer	
Stirring quantity (H ₂ O)	10 l
Motor rating input/output	15 / 2 W
Speed display	scale (0 - 6)
Speed range	100 - 2.000 rpm
Max. magnetic bar (L x Ø)	40 x 8 mm
Heating function	
Heat output	400 W
Heating rate (1 l H ₂ O in H 15)	3 K/min
Temperature range	RT - 320 °C
Heating plate	
Material	stainless steel (AISI 304)
Dimensions	Ø = 125 mm
General data	
Dimensions (W x D x H)	168 x 220 x 105 mm
Weight	2,4 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Ident. No.	Ident. No.
3339000 230 V 50/60 Hz	3339001 115 V 50/60 Hz

RH basic KT/C safety control and RH digital KT/C safety control

New, universal magnetic stirrers with heating and bushing according to DIN 12878 for connecting an electronic temperature controller, e.g. ETC 1.

RH digital KT/C safety control complete with digital display for set and actual temperature and actual speed.

- Heating plate with excellent chemical resistance
- Heat output 500 W
- Long life cycle due to foil heating and solid-state switching for heat control
- Adjustable safety circuit for heating plate temperature
- Soft-start stirring motor
- Safety feature: in the event of motor failure the heating switches off automatically

Accessories (Page):

ETC 1 Electronic temperature controller (22), IKAFLON®-Stirring bars (25), TRIKA®-Stirring bars (25), RSE Stirring bar remover (25), Bath attachments (24): H 15, H 28



RH basic KT/C safety control

Magnetic stirrer	
Stirring quantity (H ₂ O)	15 l
Motor rating input/output	15 / 2 W
Speed display	scale (0 - 6) / digital
Speed range	100 - 2.000 rpm
Max. magnetic bar (L x Ø)	40 x 8 mm
Heating function	
Heat output	500 W
Heating rate (1 l H ₂ O in H 15)	4,5 K/min
Temperature range	RT - 320 °C
Adjustable safety circuit	100 - 400 °C
Sensor for temperature in medium	ETC 1
Control accuracy with sensor	± 3 K
Heating plate	
Heating plate, stainless steel	white coated
Dimensions	130 x 130 mm
General data	
Dimensions (W x D x H)	168 x 220 x 105 mm
Weight	2,4 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Ident. No.	Ident. No.
3207100 230 V 50/60 Hz	3207101 115 V 50/60 Hz
3207000 230 V 50/60 Hz	3207001 115 V 50/60 Hz



RH digital KT/C safety control

Multi-position magnetic stirrers with heating



RT 5 power IKAMAG®

The RT 5 power is a high-performance multi-position magnetic stirrer with 5 stirring positions and integrated temperature control plate. Precise temperature distribution on the heating plate makes it possible to perform series experiments.

- Simultaneously operating stirrers
- Absolute consistency over sample conditions for the individual samples

Accessories (Page):

IKAFLO® Stirring bar (25),
 TRIKA® Stirring bar (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	5
Max. stirring quantity per stirrer (H ₂ O)	0,4 l
Distance between stirring places	90 mm
Motor rating input / output	7,2 / 1,8 W
Speed display	scale (1 - 10)
Speed range	0 - 1.100 rpm
Deviation for individual stirring positions	5 %
Max. magnetic bar (L x Ø)	30 x 8 mm
Heating function	
Heat output	175 W
Temperature range (surface)	RT - 120 °C
Max. temperature medium (dep. on vessel)	70 °C
Heat control	scale (1 - 10)
Temperature consistency in the medium	± 2 K
Heating plate	
Material	silicone
Dimensions	120x 450 mm
General data	
Dimensions (W x D x H)	138 x 552 x 65 mm
Weight	3 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Ident. No.	Ident. No.
2930300 230 V 50/60 Hz	2930301 115 V 50/60 Hz



RT 10 power IKAMAG®

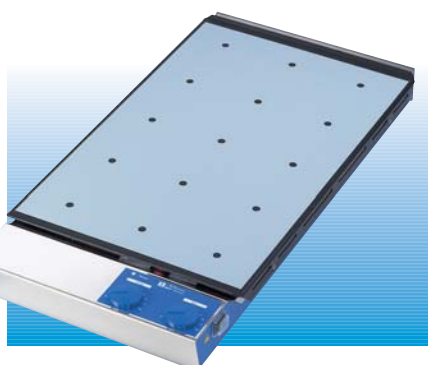
Same features as RT 5 power, but with 10 stirring positions.

Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	10
Motor rating input / output	14,4 / 3,6 W
Heating function	
Heat output	375 W
Heating plate	
Dimensions	180 x 450 mm
General data	
Dimensions (W x D x H)	198 x 552 x 65 mm
Weight	4,2 kg

Ident. No.	Ident. No.
2930500 230 V 50/60 Hz	2930501 115 V 50/60 Hz



RT 15 power IKAMAG®

Same features as RT 5 power, but with 15 stirring positions.

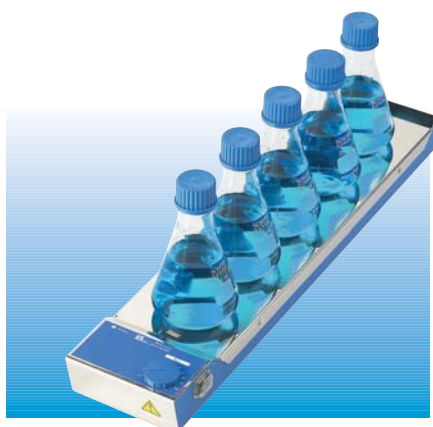
Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	15
Motor rating input / output	21,6 / 5,4 W
Heating function	
Heat output	580 W
Heating plate	
Dimensions	270 x 450 mm
General data	
Dimensions (W x D x H)	288 x 552 x 65 mm
Weight	6 kg

Ident. No.	Ident. No.
2930700 230 V 50/60 Hz	2930701 115 V 50/60 Hz

Multi-position magnetic stirrers without heating



RO 5 power IKAMAG®

Multi-position magnetic stirrer with 5 stirring positions, without heating. The stainless steel surface covers the unit allowing easy cleaning and providing protection against the penetration of liquids.

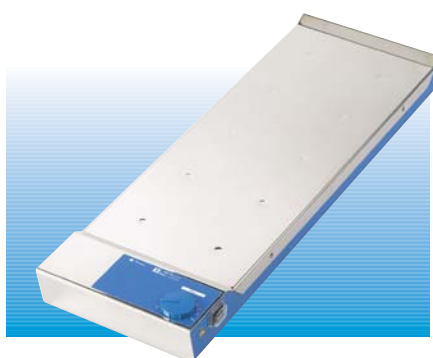
- Optimum use of laboratory space
- Including removable PUR cover

Accessories (Page):

IKAFLO[®] Stirring bars (25),
 TRIKA[®] Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	5
Max. stirring quantity per stirrer (H ₂ O)	0,4 l
Distance between stirring places	90 mm
Motor rating input / output	7,2 / 1,8 W
Speed display	scale (1 - 10)
Speed range	0 - 1.100 rpm
Deviation for individual stirring positions	5 %
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	stainl. steel (AISI 304)
Dimensions	120 x 450 mm
General data	
Dimensions (W x D x H)	122 x 552 x 65 mm
Weight	2,3 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Ident. No.	Ident. No.
2930200 230 V 50/60 Hz	2930201 115 V 50/60 Hz



RO 10 power IKAMAG®

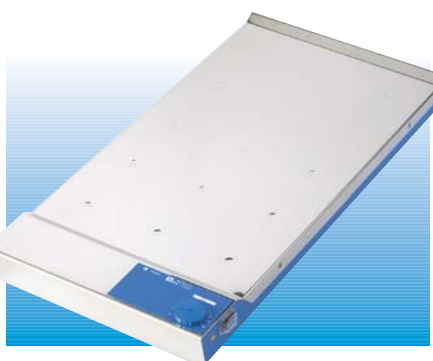
Same features as RO 5 power, but with 10 stirring positions.

Accessories (Page):

IKAFLO[®] Stirring bars (25)
 TRIKA[®] Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	10
Motor rating input / output	14,4 / 3,6 W
Set-up plate	
Dimensions	180 x 450 mm
General data	
Dimensions (W x D x H)	182 x 552 x 65 mm
Weight	3,2 kg

Ident. No.	Ident. No.
2930400 230 V 50/60 Hz	2930401 115 V 50/60 Hz



RO 15 power IKAMAG®

Same features as RO 5 power, but with 15 stirring positions.

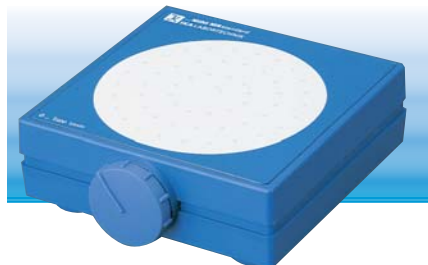
Accessories (Page):

IKAFLO[®] Stirring bars (25),
 TRIKA[®] Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring positions	15
Motor rating input / output	21,6 / 5,4 W
Set-up plate	
Dimensions	270 x 450 mm
General data	
Dimensions (W x D x H)	272 x 552 x 65 mm
Weight	4,7 kg

Ident. No.	Ident. No.
2930600 230 V 50/60 Hz	2930601 115 V 50/60 Hz

Magnetic stirrers without heating



Mini MR standard IKAMAG®

Magnetic stirrer without heating, for stirring quantities up to 800 ml (H₂O).

- Infinitely variable speed from 0 - 1.500 rpm
- White set-up plate suitable for observing color reactions

Accessories (Page):

IKAFILON® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer

Stirring quantity (H ₂ O)	0,8 l
Motor rating	
input / output	4 / 0,5 W
Display	none
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	polyester
Dimensions	115 x 115 mm
General data	
Dimensions (W x D x H)	115 x 130 x 40 mm
Weight	0,23 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 42

Ident. No.

2677000 100 - 240 V 50/60 Hz



KMO 2 basic IKAMAG®

Small, powerful magnetic stirrer without heating.

- Strong magnetic field
- Motor with optoelectronic speed control
- Infinitely variable speed from 0 - 1.100 rpm
- Stainless steel casing facilitates cleaning and sterilization
- Includes M 10 thread for H 16 V support rod

Accessories (Page):

IKAFILON® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RS 1 Set of stirring bars (25),
 RSE Stirring bar remover (25),
 H 16 V Support rod (23)

Magnetic stirrer

Stirring quantity (H ₂ O)	5 l
Motor rating	
input / output	14 / 4 W
Display	scale
Speed range	0 - 1.100 rpm
Max. magnetic bar (L x Ø)	50 x 8 mm
Set-up plate	
Material	stainl. steel (AISI 304)
Dimensions	140 x 120 mm
General Data	
Dimensions (W x D x H)	140 x 200 x 75 mm
Weight	1,4 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Ident. No.

2812000 230 V 50/60 Hz

Ident. No.

2812001 115 V 50/60 Hz

Magnetic stirrers without heating

COLOR SQUID IKAMAG®

Small magnetic stirrers without heating, in a variety of motifs.

- Recyclable materials
- Very good chemical resistance due to glass top and synthetic bottom made of Hytrel®
- Electronically controlled motor with infinitely variable speed from 0 - 1.500 rpm

Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer

Stirring quantity (H ₂ O)	0,8 l
Motor rating	
input / output	2 / 1 W
Display	none
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	glass
Dimensions	Ø = 110 mm
General data	
Dimensions (W x D x H)	130 x 135 x 50 mm
Weight	0,48 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54



Goldfish

Lab-Chief

Harry

Mighty Mouse

Number one

Wildcat

Zip

Squidy

Harry's notes

	Ident. No.	Motif	Ident. No.	Motif
100 - 240 V 50/60 Hz	2669923	Goldfish	2669917	Number one
	2669925	Lab-Chief	2669922	Wildcat
	2669935	Harry	2669913	Zip
	2669936	Mighty Mouse	2669926	Squidy
	2669910	Harry's notes		

Magnetic stirrers without heating



White



Froggy



Star



IKAmäleon



Ocean

BIG SQUID IKAMAG®

Magnetic stirrer in five motifs. Same features as COLOR SQUID, but with a larger set-up plate:

- Diameter: 160 mm
- Stirring quantity (H₂O) up to 1,5 l

Accessories (Page):

IKAFLO[®] Stirring bars (25),
 TRIKA[®] Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer

Stirring quantity (H ₂ O)	1,5 l
Motor rating	
input / output	2 / 1 W
Display	none
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	30 x 8 mm
Set-up plate	
Material	glass
Dimensions	Ø = 160 mm
General Data	
Dimensions (W x D x H)	180 x 180 x 48 mm
Weight	1 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 54

	Ident. No.	Motif	Ident. No.	Motif
100 - 240 V 50/60 Hz	3050009	White	3050005	IKAmäleon
	3050002	Froggy	3050004	Ocean
	3050001	Star		

Magnetic stirrers without heating

lab disc

Ultra-flat compact magnetic stirrer, guaranteed with modern magnet coil technology. Wear-free drive with no moving parts. The lab disc can reverse direction of rotation automatically every 30 seconds to ensure better mixing.

- Explosion hazard zone 2 (see techn. data)
- Rotation direction is reversible
- High IP protection class (IP 65)
- Wear-free
- Set-up plate and casing made from chemically resistant materials
- Slip-proof, safe stand

Accessories (Page):

IKAFLO®-Stirring bars (25),
 TRIKA®-Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer

Stirring quantity (H ₂ O)	800 ml
Rating	
input / output	5 / 3 W
Speed range	15 - 1.500 rpm
Reversion of rotation direction (switchable)	every 30 s
Max. magnetic bar (L x Ø)	30 x 8 mm
Surface plate	
Material	polyester
Dimensions	Ø = 90 mm
General data	
Dimensions (W x D x H)	114 x 161 x 12 mm
Weight	0,3 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 65
Ex-proof	Ex II 3 G EEx nC IIB T6



lab disc - the *ultra-flat* magnetic stirrer with **13** great motifs



[MAIL-BOX]



[AIR-MAIL]



[SUNNY SIDE UP]



[STONE WASHED]



[WHITE]

	Ident. No.	Motif	Ident. No.	Motif
100 - 240 V 50/60 Hz	3277700	[WHITE]	3362000	[AIR-MAIL]
	3362200	[STONE WASHED]	3362100	[MAIL-BOX]
	3362300	[SUNNY SIDE UP]		

IKA® Mixing

Magnetic stirrers without heating



the angels



the sportsmen

	Ident. No.	Motif	Ident. No.	Motif
the angels	3415100	[THE CURIOUS]	3415300	[THE DISCOVERER]
	3415700	[THE WORKER]	3415500	[THE OBSERVER]
the sportsmen	3415200	[THE DANCERS]	3415400	[THE GOLFER]
	3415600	[THE PLAYER]	3415000	[THE BIKER]

Magnetic stirrers without heating



REO basic C IKAMAG®

Classic magnetic stirrer without heating new designed. Outstanding chemical resistance due to the white coated heating plate.

- Non-locking, electronically controlled motor
- Constant speed even during changes in load
- Infinitely variable speed

Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RS 1 Set of stirring bars (25),
 RSE Stirring bar remover (25),
 H 16 V Support rod (23),
 R 380 Stand support (23)

Magnetic stirrer	
Stirring quantity (H ₂ O)	20 l
Motor rating	
input / output	12 / 5 W
Speed display	scale
Speed range	0 - 1.500 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Set-up plate	
Material (stainl. steel)	white coated
Dimensions	Ø = 135 mm
General data	
Dimensions (W x D x H)	160 x 280 x 97 mm
Weight	2,4 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80%
Protection class acc. to DIN EN 60529	IP 42

Ident. No.	Ident. No.
3261100 230 V 50/60 Hz	3261101 115 V 50/60 Hz



Midi MR 1 digital IKAMAG®

Powerful magnetic stirrer without heating.

- Flat, sturdy stainless steel casing
- Non-locking motor
- Infinitely variable speed
- Digital LED speed display
- Timer (0 - 56 min) or continuous operation
- For stirring quantities up to 50 liters (H₂O)

Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring quantity (H ₂ O)	50 l
Motor rating	
input / output	70 / 19 W
Speed display	digital
Speed range	0 - 1.000 rpm
Max. magnetic bar (L x Ø)	80 x 10 mm
Set-up plate	
Material	stainl. steel (AISI 304)
Dimensions	350 x 350 mm
General data	
Dimensions (W x D x H)	360 x 430 x 110 mm
Weight	9 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Ident. No.	Ident. No.
2621900 230 V 50/60 Hz	2621901 115 V 50/60 Hz



Maxi MR 1 digital IKAMAG®

Same features as Midi MR 1 digital.

- For stirring quantities up to 150 l (H₂O)

Accessories (Page):

IKAFLO® Stirring bars (25),
 TRIKA® Stirring bars (25),
 RSE Stirring bar remover (25)

Magnetic stirrer	
Stirring quantity (H ₂ O)	150 l
Motor rating	
input / output	80 / 35 W
Speed display	digital
Speed range	0 - 600 rpm
Max. magnetic bar (L x Ø)	155 x 27 mm
Set-up plate	
Material	stainl. steel (AISI 304)
Dimensions	500 x 500 mm
General data	
Dimensions (W x D x H)	505 x 585 x 110 mm
Weight	16 kg
Permissible	
ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 21

Ident. No.	Ident. No.
2621800 230 V 50/60 Hz	2621801 115 V 50/60 Hz

IKA® Mixing

Magnetic stirrers accessories



ETS-D 4 fuzzy IKATRON®

Electronic contact thermometer with fuzzy logic control and RESET function, incl. sensor H 62. For IKAMAG® magnetic stirrers and IKATHERM® heating plates with contact thermometer bushing according to DIN 12878. Ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating.

Patented: 3 modes of operation guarantee optimum adjustment to your working method.

Operating mode A:

Suitable for work with varying parameters (from -10 °C to 400 °C). Safety temperature adjustable.

Operating mode B:

Suitable for series operation under uniform conditions.

Operating mode C:

Suitable for unsupervised operation. All values are taken from the memory. This ensures perfect protection against inadvertent or improper adjustment.

Sensor	PT 1000
Measuring / control range	-10 - 400 °C
Temperature display	digital
Resolution	0.1 K (< 100 °C) 1 K (> 100 °C)
Setting accuracy	1 K
Control deviation	± 1 K
Analog output with H 52	100 °C = 1V
Dimensions (W x D x H)	67 x 62 x 145 mm
Weight	0,2 kg
Permissible ambient temperature	0 - 60 °C
Permissible humidity	80 %
Protection class acc. to DIN EN 60529	IP 44

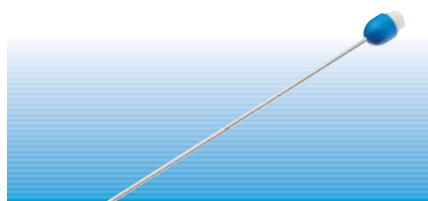
All IKAMAG® magnetic stirrers and IKATHERM® heating plates beginning with manufacturer's No. 466284 or with a "0" before the manufacturer's No. can be connected directly via the contact thermometer bushing acc. to DIN 12878. This applies for all IKA® devices manufactured since 1990.

Accessories (Page):

Sensors (21): H 62, H 66, H 70 Extension cable (21), H 52 Power pack set (22), H 16 V Support rod (23), H 44 Boss head clamp (23), H 36 Holding rod (23)

Ident. No.

2666600



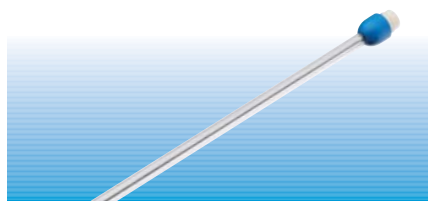
H 62 Stainless steel sensor

Spare sensor for use with ETS-D 4 fuzzy.

Depth of immersion	230 mm
Diameter	3 mm
Length	260 mm

Ident. No.

2735400



H 66 Stainless steel sensor, glass-coated

For use with ETS-D 4 fuzzy, for work with aggressive media such as acid and alkaline solutions.

Depth of immersion	230 mm
Diameter	6 mm
Length	260 mm

Ident. No.

2735500



H 70 Extension cable

To separate the casing from the sensor. The casing with the electronics may thus be kept away from dangerous vapor released by the medium (for use with ETS-D 4 fuzzy).

Length	1 m
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Ident. No.

2735600

Magnetic stirrers accessories

H 52 Power pack set

The power pack set is required in order to operate older magnetic stirrer models (prior to 1990) with ETS-D 4 fuzzy. If you have any questions, please contact our service department.

In addition, the power pack set features an analog output to document signals on a recorder.



Analog output	10 mV/K
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Accessories (Page):
labworldsoft® (131), DC 2 DATACONTROL (135), AK 2.1 Analog cable (136)

PC documentation is also possible in combination with DC 2 DATACONTROL and labworldsoft®.

Ident. No.	Ident. No.
8010600 230 V 50/60 Hz	8010601 115 V 50/60 Hz

ETC 1 IKATRON®

Special temperature controller for use with magnetic stirrers RH basic KT/C *safety control* and RH digital KT/C *safety control*, incl. H 62.51 Stainless steel sensor.

Accessories

(Page):
H 62 ETC 1 Stainless steel sensor (22), H 16 V Support rod (23), H 44 Boss head clamp (23), H 36 Holding rod (23)

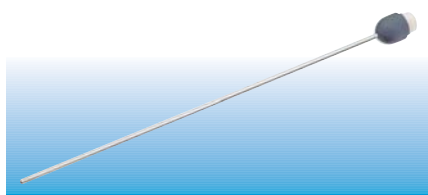


Sensor	PT 1000
Measuring / control range	0 - 350 °C
Temperature display	digital
Resolution	0.1 K (< 100 °C) 1 K (> 100 °C)
Setting accuracy	1 K
Control deviation	± 3 K
Dimensions (W x D x H)	67 x 62 x 145 mm
Weight	0,2 kg
Permissible ambient temperature	0 - 60 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 44

Ident. No.
3279000

H 62.51 Stainless steel sensor

Spare sensor for use with ETC 1.



Depth of immersion	230 mm
Diameter	3 mm
Length	260 mm

Ident. No.
2735451

PT 100.50 Temperature sensor

For use with RET control-visc *safety control* and RET control-visc C *safety control*, made of stainless steel.



Depth of immersion	230 mm
Diameter	3 mm

Accessories (Page):
H 16 V Support rod (23),
H 44 Boss head clamp (23), H 36 Holding rod (23)

Ident. No.
2601900

PT 100.51 Temperature sensor

For use with RET control-visc *safety control* and RET control-visc C *safety control*, glass-coated for work with aggressive media such as acid and alkaline solutions.



Depth of immersion	230 mm
Diameter	8 mm

Accessories (Page):
H 16 V Support rod (23),
H 44 Boss head clamp (23), H 36 Holding rod (23)

Ident. No.
2600300

IKA® Mixing

Magnetic stirrers accessories



PT 100.52 Temperature sensor

Made of stainless steel, for use with RET control-visc *safety control* and RET control-visc C *safety control*.

Accessories (Page):

H 16 V Support rod (23), H 44 Boss head clamp (23), H 36 Holding rod (23)

Depth of immersion	60 mm
Diameter	3 mm

Ident. No.
2847700



PPT 1000.50 Temperature sensor

2 separate steel sensors for heat transfer fluid and medium. Ideal for the magnetic stirrers RET control-visc *safety control* and RET control-visc C *safety control*.

Accessories (Page):

H 16 V Support rod (23), H 44 Boss head clamp (23), H 36 Holding rod (23)

Depth of immersion	230 mm
Diameter	3 mm

Ident. No.
3367600

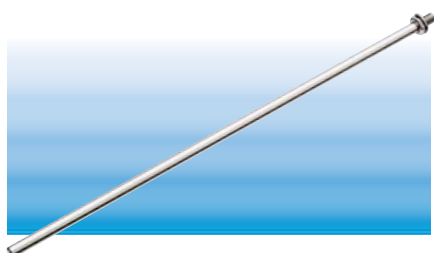


PT 1000.51 Temperature sensor

As per PT 1000.50, but glass-coated for work with corrosive media such as acids and lyes.

Depth of immersion	230 mm
Diameter	3 mm

Ident. No.
3377700



H 16 V Support rod

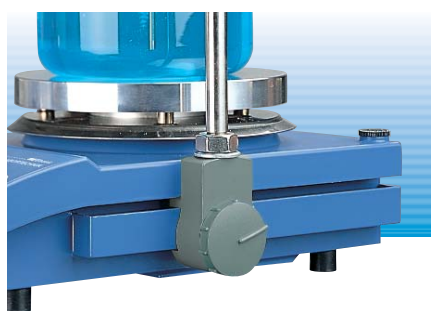
Stainless steel support rod for all magnetic stirrers with M 10 threaded bushing.

Accessories (Page):

H 44 Boss head clamp (23), H 36 Holding rod (23), R 380 Stand support (23)

Diameter	10 mm
Length	450 mm
Thread	M 10
Material	stainl. steel (AISI 304)

Ident. No.
1545100



R 380 Stand support

For fitting along the multifunction strips of the magnetic stirrers RCT basic *safety control*, RET basic *safety control*, RET basic C *safety control*, RET control-visc *safety control*, RET control-visc C *safety control* and REO basic C. It allows the support rod H 16 V to be fixed at any given position. This makes it possible to use several support rods.

Accessories (Page):

H 16 V Support rod (23)

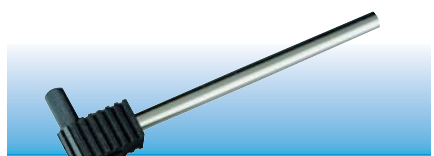
Ident. No.
2636700



H 44 Boss head clamp

For fastening the holding rod H 36 to the support rod H 16 V.

Ident. No.
2437700

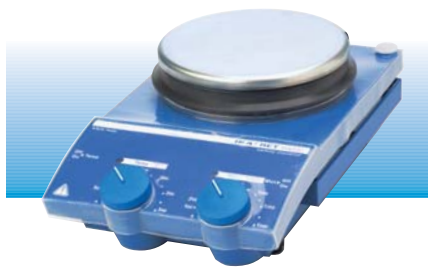


H 36 Holding rod

For fastening ETS-D 4 fuzzy or ETC 1 with H 44 to the support rod H 16 V.

Ident. No.
2288000

Magnetic stirrers accessories



H 99 Protective cover

For the magnetic stirrers RCT basic *safety control*, RET basic *safety control*, RET basic C *safety control*, RET control-visc *safety control*, RET control-visc C *safety control* (included in delivery).

- Resistant to most acids, alkaline solutions and organic solvents

Material	silicone
Max. temperature	135 °C

Ident. No.

2734500



H 15 Bath attachment

Stainless steel bath attachment, suitable for tempering 0,5 and 1 l flasks.

Inner diameter	140 mm
Height	125 mm
Volume	1,5 l

Ident. No.

0551300



H 28 Bath attachment

Stainless steel bath attachment, suitable as a sand bath basin.

Inner diameter	140 mm
Height	70 mm
Volume	1 l
Max. temperature	350 °C

Ident. No.

2167400

Oil bath attachments

H 29

H 30

The oil bath attachments H 29 and H 30 can be used as oil baths together with an IKAMAG® magnetic stirrer with heating or with an IKATHERM® heating plate having a diameter of 135 mm.

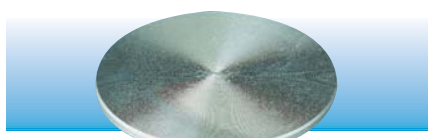
- Positioning border prevents sliding on the heating plate
- Safety grips protect you from burns caused by hot oil
- The bath attachment is made of aluminum. This ensures good heat transfer and quick heating-up of the tempering medium
- Easy cleaning
- The bath attachments can **only be used as an oil bath**

Inner diameter	136 - 180 mm
Height	81 mm
Volume	1 l
Inner diameter	136 - 190 mm
Height	110 mm
Volume	1,5 l

Ident. No.

2829400 H 29

2829500 H 30



H 12 / 135 Supporting plate

For increasing the heating plate to a diameter of 200 mm.

For heating plate diameter	135 mm
Material	aluminum
Diameter enlarged to	200 mm

Ident. No.

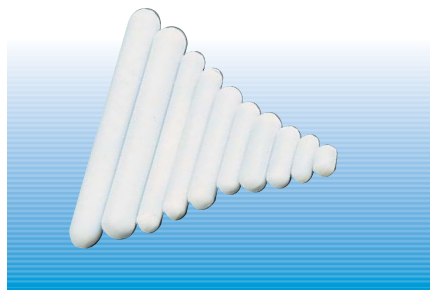
0771700

IKA® Mixing

Magnetic stirrers accessories

IKAFLON® Magnetic stirring bars

Round, PTFE-coated.



Ident. No.	Description	Length	Ø
1572000	IKAFLON® 10*	10 mm	6 mm
1572100	IKAFLON® 15*	15 mm	6 mm
1572200	IKAFLON® 20*	20 mm	8 mm
1572300	IKAFLON® 25*	25 mm	8 mm
1572400	IKAFLON® 30*	30 mm	8 mm
1572500	IKAFLON® 40*	40 mm	8 mm
1572600	IKAFLON® 50*	50 mm	8 mm
1572800	IKAFLON® 80*	80 mm	10 mm
0793300	IKAFLON® 110	110 mm	27 mm
1129000	IKAFLON® 155	155 mm	27 mm

TRIKA® Magnetic stirring bars

Triangular, PTFE-coated, especially suited for stirring liquids which have a low solids content and where sedimentation is not desired.



Ident. No.	Description	Length
0356600	TRIKA® 25*	25 mm
0356500	TRIKA® 42*	42 mm

RS 1 Set of magnetic stirring bars

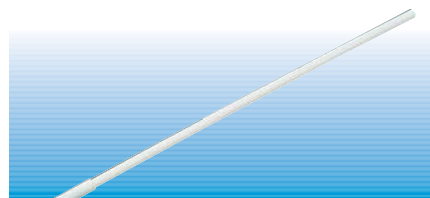
Consisting of the IKAFLON® and TRIKA® Magnetic stirring bars marked with *, see above.



Ident. No.
1358600

RSE Stirring bar remover

For all stirring bars up to 80 mm in length, PTFE-coated.



Ident. No.
1293100

H 11 Mains cable

Spare



Ident. No.		Ident. No.	
1091500	(EURO plug)	1091700	(USA plug)
2410700	(UK plug)	1091600	(CH plug)