

stirring & mixing & shaking & heating & cooling



MAGNETIC STIRRER - "with hot plate"

- Explosion proof, maintenance free brushless DC motor with low noise level offers a stirring volume up to 20 lt with a smooth start and quick stop.
- Ceramic top plate guarantees perfect chemical resistance against acids. Also provides impact resistant, easily cleanable, scratch proof surface with excellent heat distribution.
- Integrated design of the heater and the top plate provides excellent heat transfer rate and quick heat up capability.
- Hermetically sealed aluminium alloy housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Electronic speed control from 100 to 1500 rpm provides a gentle revolution and precise stirring speed.
- PID temperature technology enables excellent heating control from ambient temperature to 550°C.
- Offers integrated temperature control (+/- 0,2°C accuracy) with external PT1000 temperature sensor and support rod.
- Overheat protection circuit turns off the heater if the top plate temperature reaches 580°C for any reason.
- Hot surface warning display indicates any residual heat even if switched off. LCD display will show "**HOT**" if hotplate temperature is over 50°C.
- Large LCD panel for simultaneous display for set & actual temperature and set & actual speed.
- Special software enables control and documentation of all values via RS232 interface.
- Supplied complete with PT1000 temperature sensor, support rod and fixing clamp.



Explosion proof, maintenance free brushless DC motor with low noise level offers a stirring volume up to 20 lt with a smooth start and quick stop.

Electronic speed control from 100 to 1500 rpm provides a gentle revolution and precise stirring speed even at high temperature.



Large LCD panel for simultaneous display for set & actual temperature and set & actual speed.

Hot surface warning display indicates any residual heat even if switched off. LCD display will show "**HOT**" if hot plate temperature is over 50°C.

catalogue number	613.06.001
dimensions / weight (mm / kg)	215 x 360 x 112 / 5,3
top plate dimensions (mm)	184 x 184
top plate material	glass ceramic
motor type	brushless DC motor
power (W)	1050
voltage (V)	100 - 240
frequency (Hz)	50 / 60
max. stirring capacity (L)	20
speed range (rpm)	100 - 1500
speed & temp. display	LCD
heating output (W)	1000
heating range (°C)	room temp. - 550
heating accuracy (°C)	±1 < 100; ±1 % > 100
safety temperature (°C)	580
heating warning (°C)	50
permissible ambient temperature (°C)	5 - 40
permissible relative humidity (%)	80
remote cont. (RS232) interface	yes
standard accessories	external temp. sensor PT 1000
time control (minute)	N/A

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MAGNETIC STIRRER - "with hot plate"

- Explosion proof, maintenance free brushless DC motor with low noise level offers a stirring volume up to 20 lt with a smooth start and quick stop.
- Ceramic top plate guarantees perfect chemical resistance against acids. Also provides impact resistant, easily cleanable, scratch proof surface with excellent heat distribution.
- Integrated design of the heater and the top plate provides excellent heat transfer rate and quick heat up capability.
- Hermetically sealed aluminium alloy housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Electronic speed control from 100 to 1500 rpm provides a gentle revolution and precise stirring speed.
- PID temperature technology enables excellent heating control from ambient temperature to 340°C.
- Offers integrated temperature control (+/- 0,2°C accuracy) with external PT1000 temperature sensor and support rod.
- Overheat protection circuit turns off the heater if the top plate temperature reaches 360°C for any reason.
- Hot surface warning display indicates any residual heat even if switched off. LCD display will show "HOT" if hot plate temperature is over 50°C.
- Large LCD panel for simultaneous display for set & actual temperature and set & actual speed.
- Special software enables control and documentation of all values via RS232 interface.
- Supplied complete with PT1000 temperature sensor, support rod and fixing clamp.



catalogue number	613.02.001	613.02.002
dimensions / weight (mm / kg)	160 x 280 x 85 / 2,8	
top plate dimensions (mm)	Ø135	
top plate material	ceramic coated stainless steel	
motor type	brushless DC motor	
power (W)	550	
voltage (V)	100 - 240	
frequency (Hz)	50 / 60	
max. stirring capacity (L)	20	
speed range (rpm)	100 - 1500	
speed & temp. display	LCD	
heating output (W)	500	
heating range (°C)	room temp. - 340	
heating accuracy (°C)	±1 < 100; ±1 % > 100	
safety temperature (°C)	360	
heating warning (°C)	50	
permissible ambient temperature (°C)	5 - 40	
permissible relative humidity (%)	80	
remote cont. (RS232) interface	yes	
standard accessories	external temp. sensor PT 1000	
time control	N/A	1 min to 99 hr - 59 min

heating blocks - "for magnetic stirrers"



catalogue number	flask volume	block material	pack quantity
613.02.050	50 ml	aluminium	1 piece
613.02.100	100 ml	aluminium	1 piece
613.02.250	250 ml	aluminium	1 piece
613.02.500	500 ml	aluminium	1 piece

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MAGNETIC STIRRER - "with hot plate"

- Maintenance free brushless DC motor with low noise level offers a stirring volume up to 3 lt with a smooth start and quick stop.
- Ceramic coated stainless steel top plate guarantees perfect chemical resistance specially against strong acids. Also provides impact resistant, easily cleanable, scratch proof surface with excellent heat distribution.
- Integrated design of the heater and the top plate provides excellent heat transfer rate and quick heat up capability.
- ABS housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Electronic speed control from 100 to 1500 rpm provides a gentle revolution and precise stirring speed.
- PID temperature technology enables excellent heating control from ambient temperature to 280°C.
- Offers integrated temperature control (+/- 0,2°C accuracy) with external PT1000 temperature sensor and support rod.
- Overheat protection circuit turns off the heater if the top plate temperature reaches 320°C for any reason.
- Hot surface warning display indicates any residual heat even if switched off. LCD display will show "**HOT**" if hotplate temperature is over 50°C.
- Large LCD panel for simultaneous display for set & actual temperature and set & actual speed.
- Supplied complete with PT1000 temperature sensor, support rod and fixing clamp.



Maintenance free brushless DC motor with low noise level offers a stirring volume up to 3 lt with a smooth start and quick stop.



Hot surface warning display indicates any residual heat even if switched off. LCD display will show "**HOT**" if hot plate temperature is over 50°C.

catalogue number	613.01.001
dimensions / weight (mm / kg)	150 x 260 x 80 / 1,8
top plate dimensions (mm)	Ø135
top plate material	ceramic coated stainless steel
motor type	DC motor
power (W)	515
voltage (V)	100 - 240
frequency (Hz)	50 / 60
max. stirring capacity (L)	3
speed range (rpm)	100 - 1500
speed & temp. display	LED
heating output (W)	500
heating range (°C)	room temp. - 280
heating accuracy (°C)	±1 < 100; ±1 % > 100
safety temperature (°C)	320
heating warning (°C)	50
permissible ambient temperature (°C)	5 - 40
permissible relative humidity (%)	80
remote cont. (RS232) interface	N/A
standard accessories	external temp. sensor PT 1000
time control (minute)	N/A



MAGNETIC STIRRER - "without hot plate"

- Maintenance free DC motor with low noise level offers a stirring volume up to 3 lt with a smooth start and quick stop.
- Electronic speed control from 100 to 1500 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.
- Large LED panel offers simultaneous display for set & actual speed.
- ABS housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Also provides impact resistant, easily cleanable, scratch proof surface.



Large LED panel offers simultaneous display for set & actual speed.



MAGNETIC STIRRER - "without hot plate"

- This ultra-flat, compact designed magnetic stirrer with only 350 gr weight can be carried even in a pocket.
- Specially recommended for titration applications.
- Offers a stirring volume up to 0,8 lt with a smooth start and quick stop.
- Electronic speed control from 15 to 1500 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.
- Featured with bi-directional automatic reverse rotation function for better and more efficient mixing results.
- ABS housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Also provides impact resistant, easily cleanable, scratch proof surface.



Featured with bi-directional automatic reverse rotation function for better and more efficient mixing results.

<i>catalogue number</i>	<i>613.03.001</i>
<i>dimensions / weight (mm / kg)</i>	150 x 260 x 80 / 1,8
<i>top plate dimensions (mm)</i>	Ø135
<i>power (W)</i>	15
<i>voltage (V)</i>	200 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	3
<i>speed range (rpm)</i>	100 - 1500
<i>speed & temp. display</i>	LED

<i>catalogue number</i>	<i>613.07.001</i>
<i>dimensions / weight (mm / kg)</i>	115 x 175 x 12 / 0,35
<i>mixing plate diameter (mm)</i>	100
<i>power (W)</i>	5
<i>voltage (V)</i>	220 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	0,8
<i>speed range (rpm)</i>	15 - 1500
<i>speed & temp. display</i>	---

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MAGNETIC STIRRER - “without hot plate”

- This light weight, compact designed magnetic stirrer is specially recommended for titration applications.
- Electronic speed control from 300 to 2.000 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.
- High performance brushless DC motor offers a stirring volume up to 1,5 lt with a smooth start and quick stop.
- PET housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time
- Anti-slip silicone feet pads minimize vibration and guarantees excellent stability.
- Featured with an adjustable clamp holder suitable to hold electrodes and similar other probes.

<i>catalogue number</i>	<i>613.05.001</i>
<i>dimensions / weight (mm / kg)</i>	150 x 145 x 50 / 0,3
<i>top plate dimensions (mm)</i>	Ø120
<i>top plate material</i>	PET
<i>motor type</i>	DC motor
<i>power (W)</i>	7,2
<i>voltage (V)</i>	200 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	1,5
<i>speed range (rpm)</i>	300 - 2000
<i>speed & temp. display</i>	N/A

MAGNETIC STIRRER - “without hot plate”

- This light weight, compact designed magnetic stirrer is specially recommended for titration applications.
- Electronic speed control from 15 to 2.000 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.
- High performance brushless DC motor offers a stirring volume up to 1,5 lt with a smooth start and quick stop.
- ABS housing protects all mechanical and electronic components from aggressive effects and guarantees safety with a long life time.
- Stainless steel stirring plate provides impact resistant, easily cleanable, scratch proof surface.
- Featured with an adjustable clamp holder suitable to hold electrodes and similar other probes.

<i>catalogue number</i>	<i>613.04.001</i>
<i>dimensions / weight (mm / kg)</i>	150 x 135 x 53 / 0,71
<i>top plate dimensions (mm)</i>	Ø120
<i>top plate material</i>	steel
<i>motor type</i>	DC motor
<i>power (W)</i>	15
<i>voltage (V)</i>	220 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	1
<i>speed range (rpm)</i>	0 - 2000
<i>speed & temp. display</i>	N/A

NEW



**MAGNETIC STIRRER - “multi position”
“without hot plate”**

- Specially designed for applications where more than one stirring position is required.
- Maintenance free brushless DC motor with low noise level offers a smooth start and quick stop.
- Featured with 10 stirring positions with each guarantees stirring capacity up to 0,4 lt.
- Stainless steel stirring plate provides impact resistant, easily cleanable, scratch proof surface.
- Stirring plate is covered with an anti-slip silicone film for advanced protection.
- Electronic speed control from 15 to 1.100 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.

<i>catalogue number</i>	<i>613.08.001</i>
<i>dimensions / weight (mm / kg)</i>	182 x 552 x 65 / 3,2
<i>top plate dimensions (mm)</i>	180 x 450
<i>top plate material</i>	steel
<i>Stirring positions</i>	10
<i>motor type</i>	Brushless - DC motor
<i>power (W)</i>	20
<i>voltage (V)</i>	100 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	40
<i>speed range (rpm)</i>	15 - 1100
<i>speed & temp. display</i>	N/A

**MAGNETIC STIRRER - “multi position”
“with hot plate ”**

- Specially designed for applications where more than one stirring position is required.
- Maintenance free brushless DC motor with low noise level offers a smooth start and quick stop.
- Featured with 10 stirring positions with each guarantees stirring capacity up to 0,4 lt.
- Stainless steel stirring plate provides impact resistant, easily cleanable, scratch proof surface. Stirring plate is covered with an anti-slip silicone film for advanced protection.
- Hot plate enables heating control from ambient to 120°C.
- Electronic speed control from 15 to 1.100 rpm provides a gentle revolution and precise stirring speed even at maximum speed range.

<i>catalogue number</i>	<i>613.32.001</i>
<i>dimensions / weight (mm / kg)</i>	182 x 552 x 65 / 3,2
<i>top plate dimensions (mm)</i>	180 x 450
<i>top plate material</i>	steel
<i>Stirring positions</i>	10
<i>motor type</i>	Brushless - DC motor
<i>power (W)</i>	490
<i>voltage (V)</i>	100 - 240
<i>frequency (Hz)</i>	50 / 60
<i>max. stirring capacity (L)</i>	40
<i>speed range (rpm)</i>	15 - 1100
<i>speed & temp. display</i>	N/A

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MAGNETIC STIRRING BARS “cylindrical”

- Manufactured from ALNICO (an alloy of aluminium, nickel, iron and cobalt) magnets encapsulated with PTFE coating.
- Cylindrical magnetic stirring bars offers for a wide variety of applications providing excellent mixing effect.
- Polished finish provides excellent centering and smooth uninterrupted stirring.
- Their perfect contact with the base of the flask reduce the risk of ricochet during stirring.

catalogue number	length	diameter	pack quantity
057.01.010	10 mm	6 mm	10 pieces
057.01.015	15 mm	6 mm	10 pieces
057.01.020	20 mm	6 mm	10 pieces
057.01.025	25 mm	6 mm	10 pieces
057.01.030	30 mm	6 mm	10 pieces
057.01.035	35 mm	6 mm	10 pieces
057.01.040	40 mm	8 mm	10 pieces
057.01.045	45 mm	8 mm	10 pieces
057.01.050	50 mm	8 mm	6 pieces
057.01.060	60 mm	9 mm	6 pieces
057.01.070	70 mm	9 mm	6 pieces
057.01.080	80 mm	9 mm	6 pieces



MAGNETIC STIRRING BARS “oval - elliptical”

- Manufactured from ALNICO (an alloy of aluminium, nickel, iron and cobalt) magnets encapsulated with PTFE coating.
- These elliptic magnetic stirrer bars provides excellent mixing effect specially when used with round bottom flasks.
- Their egg shape guarantees unrestricted spinning and effective mixing by perfect adaptation of the vessel contour.



MAGNETIC STIRRING BARS “cross form”

- Manufactured from ALNICO (an alloy of aluminium, nickel, iron and cobalt) magnets encapsulated with PTFE coating.
- Cross formed magnetic stirring bar creates a deep vortex even at relatively slow speeds and provides an excellent mixing effect.
- Their angled body form reduce the friction effect during stirring and provide excellent centering and smooth uninterrupted stirring.
- Their perfect contact with the base of the flask reduce the risk of ricochet during stirring.

catalogue number	dimensions	pack quantity
057.06.037	37 x 37 mm	1 piece



BOXES - “with compartments”



- Manufactured from polystyrene or acrylic featured with different size compartments.
- Offers practical positioning and easy reach of different size magnetic bars and a magnetic bar retriever.
- Also can be used for positioning and storing all other small size products.
- Featured with a lid protecting the box interior from environmental conditions and also reduce the risk of lost.
- Alternative 2 products:
➤ Polystyrene small box
➤ Acrylic large box

Other technical specifications can be seen at catalogue page no 67.

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MAGNETIC BAR RETRIEVERS

- Constructed with a PTFE encapsulated powerfull magnet at the end of a long stem.
- Essential tool for picking up the magnetic stirring bars from flasks after use without loosing them.
- They offer risk-free removal of magnetic stirring bars even from agressive liquids and reduce the risk of magnetic bar loss.
- Alternative 2 products:
 - Bar retriever with solid stem
 - Bar retriever with flexible stem
- Magnetic bar retriever with flexible stem guarantees easy reach to the edges of the cornered flaks such as erlenmeyers.

catalogue number	retriever model	stem length	pack quantity
057.02.001	solid stem	270 mm	1 piece
057.02.002	flexible stem	330 mm	1 piece



STIRRING RODS - "glass" - "polypropylene"

- Offers practical solutions for mixing and stirring solutions.
- Alternative 2 products:
 - Glass stirring rods
 - Polypropylene stirring rods
- Glass rods are manufactured from rods with different diameters and lenghts. Their flame polished ends prevents unexpected breakage during applications.
- Polypropylene stirring rod is featured with a flattened end for effective mixing. Featured with a spatula form for easy removal of samples.



glass stirring rod	length	diameter	pack quantity
057.03.200	200 mm	5 mm	10 pieces
057.03.250	250 mm	6 mm	10 pieces
057.03.300	300 mm	6 mm	10 pieces

polpropylene stirring rod	length	diameter	pack quantity
057.04.250	250 mm	6 mm	10 pieces

BOECO MAGNETIC STIRRER MMS 3000

Motor drive magnetic stirrer, with stainless steel plate and speed regulation up to 3000 rpm. An optional to be ordered detachable support rod allows to fix different sensors (temperature, pH etc. inside the Liquid.

Specification:

Speed range:	0 - 3000 1/min
Max. stirring volume:	up to 20,0 L
Platform size:	160 mm diam.
Platform material:	stainless steel
Support rod height:	320 mm
Overall size:	185 x 230 x 80 mm
Weight:	1,5 kg
Power:	12 V. 1,5A 18W (External power adapter)

Code	Description
BOE 8056500	Magnetic stirrer MMS-3000, AC Adapter 100-240V with Multi plug (EU, US, UK, AU)
BOE 8056501	Detachable support rod



MMS 3000

BOECO MAGNETIC STIRRER WITH HOTPLATE MSH 130

Motor drive Magnetic stirrer with aluminum hot plate for simultaneously stirring and heating of chemical reagents. „Hot-Surface“ alert indicator light when the plate temperature exceeds 60°C

Specification:

Speed range:	250 - 1500 1/min
Max- plate temp.:	370 C°.
Max. stirring volume:	Up to 5,0 L
Hot Platform size:	130 mm diameter
Hot Platform material:	Aluminium
Control:	Thermostatic
Overall size:	173 (w) x 281 (d) x 101 (h) mm
Heating power:	220 Watts
Weight:	3,1 kg

Code	Description
BOE 8013000	Magnetic stirrer with hotplate MSH 130,220V
BOE 8013100	Magnetic stirrer with hotplate MSH 130,110V



MSH 130

BOECO MAGNETIC STIRRER WITH HOTPLATE MSH 420

Motor drive Magnetic stirrer with all in one glass-ceramic hot plate for simultaneously stirring and heating of chemical reagents.

The Glass-ceramic top plate is easy to clean, chemical-resistant, corrosion-resistant and scratch resistant.

The MSH 420 provides LED Indicators for Power, Heating and Stirring.

Specification:

Speed range:	60 - 1110 1/min
Temperature regulation:	ambient temperature to 450 C°.
Max. stirring volume:	up to 15,0 l
Hot Platform size:	200 x 200 mm
Hot Platform material:	glass-ceramic
“Hot Top” indicator:	a “Hot” light illuminates if the temperature on the hot plate exceeds 55°C
Over-Heat protection:	The heating power will cutoff in abnormal situations by limiting top plate temperature to 550 °C and light flash
Overall size:	320 (w) x 210 (d) x 105 (h) mm
Heating power:	750 Watts
Weight:	3,6 kg

Code	Description
BOE 8054000	Magnetic stirrer with hotplate MSH 420, 220V
BOE 8054100	Magnetic stirrer with hotplate MSH 420, 110V



MSH 420

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

IP Protection classes

IP	Characteristic 1 for special protection	IP	Characteristic 2 for waterproofing
0	No special protection	0	No waterproofing
1	Protection from solid objects greater than 50mm in diameter	1	Protection from dripping water
2	Protection from object greater than 12mm in diameter	2	Protection from vertically dripping water (tilted up to 15°)
3	Protection from object greater than 2.5mm in diameter	3	Protection from sprayed water (tilted up to 60°)
4	Protection from object greater than 1mm in diameter	4	Protection from splashed water
5	Complete protection against contact, Protection against dust deposit	5	Protection from water projected from a nozzle
6	Complete protection against contact, Protection from infiltration of dust	6	Protection against heavy seas or powerful jets of water.
		7	Protection against immersion
		8	Protection against complete, continuous submersion in water.
		9	Protection against the ingress of water from all directions even under greatly high pressure on the housing. (High-pressure/steam cleaner, 80-100 bar)

IP 64

IP 64 { 6: Complete protection against contact, Protection from infiltration of dust
4: Protection from splashed water

1



1 LLG magnetic stirrer uniStirrer 2

A reasonably priced magnetic stirrer without heating for volumes up to 1000ml. Adjustable speed from 0 to 2000rpm. Plate diameter 120mm. Body made of ABS. 3 years warranty.

Support rod, aluminium (Cat. No. 6.263 435) available as an optional accessory.

Specifications

Stirring quantity (H ₂ O):	1000ml
Speed range:	0 to 2000rpm
Permissible ambient temperature:	0 to 50°C
Permissible relative moisture:	85%
Material:	ABS case
Dimensions (WxDxH):	150 x 135 x 53mm
Weight:	0.5kg
Power supply:	100 - 230V, 50/60Hz
Protection class:	IP 21
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 2 with EU-plug	1	6.263 430
uniSTIRRER 2 with UK-plug	1	6.263 431
Support rod, 25 cm, aluminum	1	6.263 435

2



2 Magnetic stirrer HI190

Compact and lightweight stirrer.

Hanna

- Speed is regulated by simply turning a button
- ABS plastic covered top plate
- Splashproof

Specifications

Max. stirring capacity (H ₂ O):	1000ml
Speed:	100rpm to 1000rpm
Dimensions (WxDxH):	120mm x 120mm x 45mm
Protection category:	IP 54
Permissible ambient temperature:	0°C to +50°C
Permissible relative humidity:	95%
Material:	ABS
Power supply:	230V

Type	PK	Cat. No.
HI 190M-2	1	9.720 085

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

1 Magnetic stirrer HI180

Without heating. Economical and lightweight stirrer.

Hanna

- Available in different colours
- Splashproof

Speedsafe system ensures that maximum speed will never be exceeded.

Specifications

Max. stirring capacity (H ₂ O):	1000ml
Speed:	100rpm to 1000rpm
Dimensions (dia. x H):	137 x 51mm
Protection category:	IP 54
Permissible ambient temperature:	0°C to +50°C
Permissible relative humidity:	95%
Material:	ABS
Power supply:	220V

1



Type	Colour	PK	Cat. No.
HI 180A-2	light yellow	1	9.720 090
HI 180B-2	light green	1	9.720 091
HI 180C-2	light blue	1	9.720 092
HI 180D-2	yellow	1	9.720 093
HI 180E-2	green	1	9.720 094
HI 180F-2	dark blue	1	9.720 095
HI 180G-2	red	1	9.720 096
HI 180H-2	grey	1	9.720 097
HI 180I-2	ivory	1	9.720 098

Magnetic stirrer UC151

Without heating. Glass ceramic top plate 150 x 150mm. Electronic variable speed control with off position.

Stuart

Specifications

Max. stirring capacity (H ₂ O):	15l
Speed:	100 to 2000rpm
Dimensions (WxDxH):	172 x 248 x 109mm
Protection category:	IP 32
Permissible ambient temperature:	+5 to +40°C
Permissible relative humidity:	≤ 80%
Plate material:	glass ceramic
Power supply:	230 V, 50 Hz

2



9.645 297

Type	PK	Cat. No.
UC151	1	9.645 297

3 Magnetic stirrer MIXdrive 1 XL

Ultra flat, compact and strong magnetic stirrer with fully automatic stirring bar monitoring mixWATCH, up to 40 litres stirring volume, also suitable for highly viscous media, very strong magnetic coupling, therefore predestined for magnetic power transmission over wide distances or for thick vessel bottoms.

Maintenance-free 2mag-motor-drive with large speed range from 60 up to 2000 rpm, temperature resistant up to +150°C, designed for use in ovens, extremely robust construction and performance, easy to clean and firm.



Control unit MIXcontrol XL

Powerful control unit for MIXdrive 1 XL, wide speed range 60 to 2000 rpm, jerk-free, even and smooth stirring even at slow speeds, incl. mixWATCH, stirring bar monitoring with fully automatic trim of the maximum reachable speed, for reliable and unattended operation, digital display, 4-step power setting, high power setting for viscous liquids and reduced power setting for long-term operation without warming effect, adjustable SoftStart for different volumes/viscosities, adjustable interval times for automated restart, QuickStop against after-run and glass breakage, RS232.

3 years warranty, Made in Germany.

Please order control unit separately.

Specifications

Ambient temperature:	+5 to +150°C (at 95% humidity)
Housing:	stainless steel, hermetically sealed
Protection class:	IP66

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
MIXdrive 1 XL	-	1000 - 40000	225 x 225 x 38	20	3.4	1	9.646 028
MIXcontrol XL	60 - 2000	-	200 x 155 x 48	20	1.8	1	9.646 029

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor



1 Magnetic stirrer MIX 1XL

Wear-free 2mag motor drive, powerful, up to 40liters, 60-2000rpm, internal controller with 20 watts, incl. mixWATCH stirring bar monitoring with fully automatic trim of the max. Reachable speed for reliable and unattended operation, digital display, 4-step power setting for high power with regard to large and viscous media and reduced power for warming-free continuous operation, adjustable SoftStart for different volumes/viscosity, QuickStop against after-run and breakage, reliable sealed stainless-steel housing, 3 years warranty. Made in Germany.

2mag

Specifications

Operating conditions:

-10°C to +50°C at 80% R.H. max.

Housing:

Stainless steel

Protection category:

IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
MIX 1 XL	60 - 2000	500 - 40000	225 x 280 x 35	20 (4-steps)	4.0	1	6.236 109



2 Magnetic stirrer steriMIXdrive with external control

Pressure, steam, vacuum and temperature resistant.

2mag

Maintenance-free 2mag-motor-drive with large speed range from 60rpm up to 1200rpm, fully encapsulated, pressure and vacuum resistant housing, IP68, temperature resistant up to +150°C, extremely robust construction and performance, easy to clean and firm. 3 years warranty. Made in Germany.

Specifications

Operating conditions:

-10 to +150°C at 100% R.H. max.

Housing:

PPSU, hermetically sealed

Protection category:

IP 68/IP 20 (control)

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Rating	Weight	PK	Cat. No.
	rpm	l	mm	W	kg		
steriMIXdrive	-	1 - 40	140 x 140 x 32	20	9.0	1	9.646 035
steriMIXcontrol*	60 - 1200	-	200 x 175 x 48	20	1.8	1	9.646 036

* Control unit.



Magnetic stirrer FABdrive/MAXdrive with external control

Stirring Systems for Viscous Liquids or Volumes up to 1000 liters.

2mag

Outstanding powerful magnetic stirrer, up to 1000 liters, for stirring over larger distances or heavy-walled reservoir bases and for jacked reaction vessels, extremely powerful magnetic coupling, maintenance-free 2mag-motor-drive, speed range 80-990 rpm, adjustable SoftStart for different volumes/viscosities, QuickStop against motor overrun and glass breakage, closed stainless steel housing, sealed, IP64, robust and reliable construction, easy to clean, separate control unit with digital display, display of set speed and actual speed, 3 years warranty, made in Germany.

MAXdrive:

Identical to FABdrive, but for 250 liters, speed range 100-1200 rpm, housing with large surface, load up to 300 kg, separate control unit identical to FABcontrol, but with display of set speed.

Please order control unit separately!



9.645 976

Specifications

Operating conditions:

-10 to +50°C at 95% R.H. max.

Casing:

Stainless steel

Protection category:

IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	l	mm	W	kg		
FABdrive	-	1 - 1000	180 x 180 x 75	100	9.0	1	9.645 990 3
FABcontrol*	80 - 990	-	200 x 175 x 48	100	2.0	1	9.645 991
MAXdrive	-	1 - 250	260 x 260 x 68	40	9.0	1	9.645 976 4
MAXcontrol*	100 - 1200	-	200 x 175 x 48	40	2.0	1	9.645 977

* Control unit

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

1 Magnetic stirrer maxMIX

Maintenance-free 2mag motor drive. Without heating. For universal stirring applications in science and industry up to 150L. Suitable for use with heavy-walled reservoir bases, round bottom flasks and jacketed reaction vessels. Can also stir over larger distances (max. 60mm). With long range, extremely powerful magnetic field, which produces dual torque when starting up. Offers optimal operation safety by consistent speed regulation and 3 second quick-stop without motor overrun. Adjustable SoftStart, digital speed display. Can be cleaned under running water. Supplied with mains adapter for 230V 50/60 Hz. 3 years warranty. Made in Germany.

2mag

Specifications

Speed accuracy:	±0.25%
Digital display:	Adjustable SoftStart (10 sec. to 60 sec.)
Operating conditions:	-10°C to +50°C at 80% R.H. max.
Housing:	Stainless steel
Protection category:	IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
maxMIX	100 to 1200	1 to 150000	265 x 320 x 68	40	9.3	1	9.645 975



9.646 056

9.646 045

Accessories for 2mag magnetic stirring systems

2mag

Description	PK	Cat. No.
Enlargement frame maxFRAME for MIX/MAXdrive, footprint 500 x 500mm, loading capacity 1000kg	1	9.646 056
Mobile stand mixCADDY for FA8drive, for vessels up to diam. 570mm, loading capacity 250kg	1	9.646 045
Extension cable for MIXdrive, 3m	1	9.646 041
Extension cable for bioMIXdrive, 3m	1	9.646 042
Extension cable for MAXdrive/FA8drive, 3m	1	9.646 043

4 Magnetic stirrer for cell cultures with external control, bioMIXdrive 1/2/3/4

Maintenance free motor drive. Magnetic stirrer with 1/2/3/4 stirring positions, for careful, protective and warming-free mixing of cell cultures and culture broths, also for viscous cultures, maintenance-free, large surface. 100% jerk-free, speed range 5rpm to 250rpm, encapsulated stainless steel housing, water-, dust-, germproof, IP68, submersible, easy to clean, robust construction, flat design, suitable for propeller and spinning ball culture flasks, individual measurement on request. 3 years warranty. Made in Germany. Suitable for underwater use.



Specifications

Permitted operation conditions:	-10°C up to +50°C at 100% H.R. max.
Housing:	+50°C submerged in water
Protection class:	Stainless steel

IP 68

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm		mm	ml	mm	W	kg		
bioMIXdrive 1	5 to 250	1		5 to 5000	180 x 180 x 38	5	2.5	1	9.645 950
bioMIXdrive 2	5 to 250	2	140	5 to 5000	130 x 270 x 38	5	2.5	1	9.645 978
bioMIXdrive 3	5 to 250	3	140	5 to 5000	130 x 410 x 38	5	3.5	1	9.645 979
bioMIXdrive 4	5 to 250	4	140	5 to 5000	270 x 270 x 38	5	4.7	1	9.645 980

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor



Control units for stirring drives bioMIXdrive

bioMIXcontrol

2mag

Control unit for 1x bioMIXdrive 1/2/3/4, speed range 5rpm to 250rpm, power setting (10 steps) for high power with regard to large and viscous media and reduced power for warming-free continuous operation e.g. in CO₂ incubators, digital display, SoftStart, stainless steel housing. 3 years warranty. Made in Germany.

bioMIXcontrol S

Identical to bioMIXcontrol, but with stackable housing and vertical control panel.

bioMIXcontrol MS4

Identical to bioMIXcontrol, but for 4x bioMIXdrive 1, individual and independent speed setting for each stirring drive, also ON-/OFF-function, synchronous speed mode for all drives with one touch.

Specifications

Operation conditions:	0 to +50°C at 80% H.R. max.
Operating voltage:	100-240V 50/60Hz, 1.5A
Housing:	Stainless steel
Protection category:	IP 20

* only for bioMIXdrive 1

PK Cat. No.

Type	Rotation speed rpm	Dimensions (W x D x H) mm	Power	Weight	PK	Cat. No.
bioMIXcontrol	5 to 200	200 x 155 x 38	4-40 (10-steps)	1.4	1	9.645 951
bioMIXcontrol S	5 to 200	215 x 120 x 50	4-40 (10-steps)	1.4	1	9.645 981
bioMIXcontrol 4MS*	5 to 200	200 x 155 x 38		6	1	9.645 982



4 Magnetic stirrer color squid

Without heating. Small magnetic stirrers with digital speed display (LED).

IKA

- Electronically controlled motor for more capacity
- Higher range of speeds from 0rpm to 2500rpm
- Excellent chemical resistance due to glass top and plastic base in TPC-ET
- Manufactured in recyclable materials
- Power supply with adapter for EU/CH/UK/USA

Specifications

Stirring volume (H ₂ O):	1L
Speed display:	digital (LED)
Speed range:	0rpm to 2500rpm
Top plate dimensions:	115mm diameter
Dimensions (WxDxH):	145mm x 160mm x 45mm
Permissible ambient temperature:	5°C to 40°C
Permissible relative humidity:	80%
Protection class acc. to DIN EN 60529:	IP54
Supply requirements:	100V - 240V 50/60Hz
Tested to DIN EN IEC 61010-1.	

PK Cat. No.

color squid white 1 9.720 365

Optional accessories: Ikaflon®- stirring bars, Trika®- stirring bars, RSE Stirring bar retriever

Further models available on request.

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

1



9.720 470

Magnetic stirrer big squid

- Without heating. Small magnetic stirrers with digital speed display (LED).
 - Electronically controlled motor for more capacity
 - Higher speed range from 0rpm to 2500rpm
 - Excellent chemical resistance due to glass top and plastic base in TPC-ET
 - Manufactured in recyclable materials
 - Power supply with adapter for EU/CH/UK/USA

IKA

Specifications

Magnetic drive

Stirring volume max. (H ₂ O):	1.5L
Speed display:	digital (LED)
Speed range:	0rpm to 2500rpm

Top plate

Material:	glass
Dimensions:	160mm diameter

General data

Dimensions (WxDxH):	185 x 205 x 45mm
Ambient operating temperature:	5°C to 40°C
Ambient operating humidity:	80% R.H.
Protection class acc. to DIN EN 60529:	IP54
Supply requirements:	100-240V 50/60 Hz

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
big squid white	1	9.720 470

2



2 Magnetic stirrer Mini MR standard

Without heating.
IKA

- For stirring quantities up to 1L (H₂O).
- Infinitely variable speed from 0 to 2500rpm
- White top plate suitable for observing colour reactions
- Power supply with adapter for EU/CH/UK/USA

Specifications

Max. stirring volume, (H ₂ O):	1L
Speed range:	0 to 2500rpm
Top plate:	115mm x 115mm Polyester film
Size (WxDxH):	114mm x 127mm x 37mm
Protection to DIN EN 60529:	IP42
Supply requirements:	100-240V 50/60 Hz.

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
Mini MR standard	1	9.720 211

3



3 Magnetic stirrer, KMO2 basic

Without heating. Small but very powerful magnetic stirrer.
IKA

- strong magnetic field resists stirrer bar decoupling
- opto-electronic speed control motor
- adjustable speed up to 1100rpm
- stainless steel housing for easy cleaning and sterilization
- with M10 thread for support rod H 16 V

Specifications

Max. volume stirred (H ₂ O):	5L
Motor rating input/output:	14/4W
Speed range (rpm):	0 to 1100rpm
Speed indication:	Scale
Surface:	140 x 120mm, stainless steel (AISI 304)
Dimensions (WxDxH):	140 x 200 x 75mm
Weight:	1.4kg
Housing IP rating to DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz

Tested to DIN EN IEC 61010-1.

Type	PK	Cat. No.
KMO 2 basic	1	9.720 210
KMO 2 basic UK	1	4.007 982

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

Magnetic stirrers C-MAG MS 4/C-MAG MS 7/C-MAG MS 10

Without heating. With glass ceramic top plate which offers excellent chemical resistance.
 - powerful motor for stirring quantities of up to 5l, 10l, or 15l (H₂O)
 - raised control panel for protection against leaking liquids

IKA

Specifications

Magnetic stirrer

Stirring volume max. (H ₂ O)	
C-Mag MS 4/MS 7/MS 10:	5l/10l/15l
Motor rating input/output:	15/1.5W
Speed range:	100 to 1500rpm
Speed display:	scale
Max. magnetic bar (L x dia.)	
C-MAG MS 4:	30 x 8mm
C-MAG MS 7/MS 10:	80 x 10mm
Set-up plate	
Material:	glass ceramic
Dimensions (W x D)	
C-MAG MS 4:	100 x 100mm
C-MAG MS 7:	180 x 180mm
C-MAG MS 10:	260 x 260mm
Dimensions (WxDxH)	
C-Mag MS 4:	150 x 260 x 105 mm
C-Mag MS 7:	220 x 330 x 105 mm
C-Mag MS 10:	300 x 415 x 105 mm
Weight	
C-Mag MS 4/MS 7/MS 10:	3kg/5kg/6kg
Protection class acc. to DIN EN 60529:	IP 21
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
C-MAG MS 4	1	9.720 493 1
C-MAG MS 7	1	9.720 494 2
C-MAG MS 10	1	9.720 495 3



9.720 493



9.720 494



9.720 495

4 Magnetic stirrers, Midi MR 1 digital

Without heating.

IKA

- high power
- flat stable stainless steel housing
- non-locking motor
- adjustable speed
- LED digital speed display
- 0 to 56 minute timer, or continuous operation

4

Specifications

Motor rating input/output:	70/19W
Max. volume stirred (H ₂ O):	50L
Speed range:	0 to 1000rpm
Top plate:	350 x 350mm, Stainless steel (AISI 304)
Dimensions WxDxH:	360 x 430 x 110mm
Weight:	10.7kg
Protection system to DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	



Type	PK	Cat. No.
Midi MR 1 digital	1	9.720 306

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

Multi-position magnetic stirrers RO 5/10/15 series

Without heating. 5, 10 or 15-position digital magnetic stirrers, designed for synchronous stirring. The magnetic coil technology provides noiseless and consistent stirring on all positions. Speed remains constant, even when load changes. The closed and compact design allows easy cleaning and protects the equipment against the penetration of liquids. Additionally, a removable transparent anti-slip mat is included.

IKA

- Adjustable reverse operation
- Eco-mode for a low self-warming of the surface
- Wear free magnetic coils
- Error Code Display
- Easy operation with touch keypad
- Suitable for continuous operation
- Adjustable speed in increments of 10rpm

Specifications

Max. stirring quantity per stirring position (H:O):	0.4l
Distance between stirring places:	90mm
Deviation for individual stirring positions:	0%
Speed range:	0 to 1200rpm
Speed display:	LED line
Set-up plate material:	stainless steel 1.4301
Protection class acc. to DIN EN 60529:	IP 40
Power supply:	100-240V, 50/60Hz

Type	Stirring positions	Dimensions (W x D x H)	PK	Cat. No.
mm				
RO 5	5	120 x 570 x 60	1	9.720 208
RO 10	10	190 x 570 x 60	1	9.720 222
RO 15	15	280 x 570 x 60	1	9.720 226



9.720 208



9.720 226

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1 LLG magnetic stirrer uniSTIRRER 1

An ultra-flat inductive magnetic stirrer without heating with timer for applications in biology and biochemistry.

The modern magnet coil technology consists only of non-moving parts and therefore guarantees a wear-free drive. No heating of the probes. For a better mixing of samples it is possible to change the direction of rotation every 30 seconds. 3 years warranty.

- Timer (1min to 99min, infinitely)
- 100% wear- and maintenance-free inductive drive
- LED-display for an exact adjustment of the rotation speed
- Digital regulated rotation speed
- Alteration of the stirring direction
- High protection class IP 65
- Stainless steel surface

Delivery includes: magnetic stirrer, power cable, adapters for UK and US.

Specifications

Stirring quantity (H ₂ O):	800ml
Speed range:	15 to 1500rpm
Permissible ambient temperature:	5 to 40°C
Magnetic bar:	max. 25mm
Display:	LED
Heating plate:	94mm diam./ Stainless steel
Dimensions (WxDxH):	110 x 155 x 12mm
Weight:	0.5kg
Power supply:	100 - 230V, 50/60Hz
Protection class:	IP 65
Guarantee:	3 years



Type	PK	Cat. No.
uniSTIRRER 1	1	6.263 420

2 Magnetic stirrers, lab disc

Without heating. Lab disc is an innovative, very flat, magnetic stirrer. It's modern, toroidal coil technology with no moving parts guarantees a maintenance-free drive. Lab disc can automatically change its rotational direction every 30secs. and therefore enhances mixing of the medium.

IKA

- High IP protection class (IP 65)
- Set-up plate and casing made from chemically resistant materials
- Slip-proof, safe stand

Specifications

Max. volume stirred (H ₂ O):	800ml
Motor rating input/output:	5W/3W
Speed range:	15rpm to 1500rpm
Stirring bar length max.:	25mm
Set-up plate material:	polyester
Set-up plate dimensions:	Ø 100mm
Dimensions (W x H x D):	117mm x 12mm x 180mm
Permissible ambient temperature:	5°C to 40°C
Permissible relative humidity:	80%
Protection category:	IP 65
Voltage/Frequency	100V - 240V/50/60Hz



Description	PK	Cat. No.
lab disc white EU/CH	1	9.720 480
lab disc white UK	1	4.008 137

Optional accessories: Ikaflon®- stirring bars, Trika®- stirring bars, RSE Stirring bar retriever

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1



9.720 501

Magnetic stirrer, Cimarec i Mono Direct

With powerful magnets and no moving parts, these inductive-drive stirrers are the perfect choice for your general laboratory needs.

Thermo Scientific

- Large, flat, easy to clean work surfaces
- Compact, space saving design
- Initial acceleration is gradual and gentle, ensuring optimum magnetic coupling
- Adjustable power settings are separate from the speed control
- Decreases power consumption
- Lowers heat output
- Easy-to-use rotary knob design
- Rugged powder coated stainless steel housing

Specifications

Operating conditions:

-10 to +40°C at 95% R.H. max.

Housing:

Stainless steel

Colour:

Grey

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Protection-level	PK	Cat. No.
	rpm	ml	mm	W			
Mono Direct	130 - 1200	1 - 3000	180 x 215 x 35	1-5	32	1	9.720 501 1

2



9.720 618

Magnetic stirrer, Cimarec i Maxi Direct

With non-mechanical, electronic induction drive and dust/watertight, easy-clean stainless steel housing. Constant speed irrespective of load even if viscosity changes. With large footprint and a strong and more penetrating magnetic field. Not suitable for use in incubators. With mains adapter.

Thermo Scientific

Specifications

Stirrer:

1

Speed range:

80rpm to 2000rpm

Operating conditions:

-10°C to +40°C at 95% R.H. max.

Casing:

Stainless steel

Protection class acc. to DIN EN 60529:

IP 64

Type	Stirring capacity	Power	Dimensions (W x D x H)	PK	Cat. No.
	ml	W	mm		
Maxi Direct	100 - 5000	5 - 20	180 x 215 x 35	1	9.720 618 2

Magnetic stirrer MIX 1and MIX 1 eco

Wear-free inductive drive, powerful, up to 10liters, 100-2000rpm, internal controller with 20 watts, digital display, 4-step power setting for high power with regard to large and viscous media and reduced power for warming-free continuous operation, adjustable SoftStart for different volumes/viscosity. 3 years warranty. Made in Germany.

2mag

MIX 1 eco

Identical to MIX 1, but price optimized, up to 3 liters, speed range 120rpm-1400rpm, extremely robust, simple operation by speed knob and scale.

Specifications

Operating conditions: -10°C to +50°C at 80% R.H. max.

Housing: Stainless steel

Protection category: IP 64

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	ml	mm	W	kg		
MIX 1	100 - 2000	1 - 10000	188 x 230 x 38	20 (4-steps)	4.0	1	9.645 954 3
MIX 1 eco	120 - 1400	1 - 3000	120 x 120 x 35	10	1.7	1	9.645 955 4

3



9.645 954

4



9.645 955

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1 Magnetic stirrer luMIX with light function

Ultra flat, 100% maintenance-free and wear-free, 2mag magnetic induction drive concept. Magnetic stirrer with 1 large stirring position and a luminescent plate, up to 3000ml stirring volume, also suitable for viscous media. Stirring function and illumination function separately switchable.

2mag



Light: Bright and warming-free luminescent PMMA plate, white LEDs with homogenous brightness and variable light intensity (4-step), non-reflecting illumination.

Stirring: 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, extremely wide speed range from 100rpm to 2000rpm, jerk-free stirring even at low speeds, 4-step power settings for high power with regard to large and viscous stirring volumes and reduced power for the warming-free continuous operation.

Clear digital display for light-, speed- and power settings.

Specifications

Perm. operating temperature: -10 to +50°C at 80% R.H. max.
-40°C to +70°C, 10 to 95%, 500 to 1060hPa

Housing: Stainless steel

Protection class: IP64

Type	Rotation speed rpm	Stirring capacity ml	Dimensions (W x D x H) mm	Power W	Weight kg	PK	Cat. No.
luMIX	100 - 2000	1 - 3000	188 x 238 x 44	20	3.6	1	9.645 992

2 Magnetic stirrer, Cimarec Power Direct

Super flat, powerful magnetic stirrer for volumes from 100ml up to 40L, with long-range, magnetic field for stirring over long distances up to max. 40mm, ideal for thick-walled, glass vessels, round bottom flasks or double-walled containers, wash- and abrasion-resistant, stainless steel housing, speed range 100rpm to 2000rpm with feedback control, quick stop within 2 sec., 4-step stirring power adjustment (5W/10W/15W/20W), digital speed display, bi-directional RS232 interface allowing up to 14 units to be directly and individually controlled by the user's PC and 24V d.c. output, a.c. adapter for 100 - 240V. Ambient operating temperature: -10 to +40°C.

Thermo Scientific

Protection class: IP 22.



9.720 595

3 Multi-position magnetic stirrers, Cimarec i Poly 15

With non-mechanical, electronic induction drive. With 15 stirring spaces, for e.g. 6 x 1L erlenmeyer flasks or 15 x 250ml beakers. For mass screening and biological applications, even in humidity incubators. With built-in controller, digital speed indicator and soft-start drive. With mains adaptor.

Thermo Scientific

Specifications

Stirring positions: 15
Protection class: IP 32
Operating conditions: -10 to +40°C at 95% R.H. max.
Housing: stainless steel, powder coated
Colour: grey



9.720 625

4 Multi-position magnetic stirrers, Multipoint

With non-mechanical, electronic induction drive. Ideal for batch series stirring. Choice of 6-place, stirring position models which can stir up to 6 x 1liter erlenmeyer flasks or 15-place models for up to 15 x 250ml beakers. With digital stirring speed display and soft-start function. With 4 adjustable power level stirring speeds (5 to 20W), easy to clean, hermetically sealed casing which can be washed under running water, ultra flat, space-saving profile and 100% synchronous speed control in all stirring positions. Supplied with mains adapter for 230 V 50/60 Hz. Operating conditions: -10 to +40°C at 95% R.H. max. Housing: Stainless steel (240 x 420 x 35 mm). Protection class: IP 64. Stirring capacity up to 3000 ml.

Thermo Scientific

Type	Stirring positions	Stirring centre distances mm	Rotation speed rpm	PK	Cat. No.
Multipoint 6	6	130	80 - 2000	1	9.720 624
Multipoint 15	15	65	80 - 2000	1	9.720 625

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction



1 Multi-position magnetic stirrers MIXdrive with external control use in waterbath and oven

Without heating. With non-mechanical, electronic inductive drive and dust/water tight housing, 100% wear-free and maintenance-free. Ideal for batch series stirring and for use in water baths. Choice of 6-place stirring position models which can stir up to 6 x 1L erlenmeyer flasks, 15-place models for up to 15 x 250ml beakers (high form) and 60-place models for small sample containers and using appropriate test tube stands, up to 60 test tubes or centrifuge tubes. Control units available as price-optimized eco 10W, high-power 20W or ultra high-power 40W version. Preselectable mixing power. SoftStart. With external control unit. 3 years warranty. Made in Germany.

2mag

Specifications

Operating conditions:	-10°C to +50°C at 100% R.H. max.
Operating temp. range	
Standard:	in air and water +50°C
HT-Version:	in air (ovens) +200°C, in water +95°C
Stirrer unit housing:	Stainless steel
Protection category:	IP 68

Type	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
			mm	ml	mm	kg	
MIXdrive 1 XS	1		1 - 1000	48 x 48 x 18	0.3	1	9.645 985
MIXdrive 1 XS HT	1		1 - 1000	48 x 48 x 18	0.3	1	9.645 986
MIXdrive 1 eco	1		1 - 3000	120 x 120 x 35	1.5	1	9.645 961
MIXdrive 1 eco HT	1		1 - 3000	120 x 120 x 35	1.5	1	9.645 962
MIXdrive 1	1		1 - 10000	180 x 180 x 38	3.3	1	9.645 959
MIXdrive 1 HT	1		1 - 10000	180 x 180 x 38	3.3	1	9.645 960
MIXdrive 6	6	130	1 - 3000	245 x 375 x 38	8.9	1	9.645 963
MIXdrive 6 HT	6	130	1 - 3000	245 x 375 x 38	8.9	1	9.645 964
MIXdrive 15	15	65	1 - 3000	245 x 375 x 38	9.5	1	9.645 965
MIXdrive 15 HT	15	65	1 - 3000	245 x 375 x 38	9.5	1	9.645 966
MIXdrive 60	60	32.5	1 - 500	245 x 375 x 38	9.5	1	9.645 967
MIXdrive 60 HT	60	32.5	1 - 500	245 x 375 x 38	9.5	1	9.645 968

Please order control unit **MIXcontrol** separately.

**Control units for mixers MIXdrive**

MIXcontrol eco: Prize-optimized control unit, speed setting and ON/OFF by turning knot.

2mag

MIXcontrol 20: Stainless steel housing, digital speed display, 4-step power setting, 20watts.

MIXcontrol 40: Identical to MIXcontrol 20, but 10-step power setting, 40watts, 2 sockets for MIXdrive stirres.

9.645 971

Type	Rotation speed rpm	Dimensions (W x D x H) mm	Rating W	Weight kg	PK	Cat. No.
MIXcontrol eco	120 - 1200	65 x 50 x 45	10	0.5	1	9.645 969
MIXcontrol 20	100 - 1600	200 x 155 x 38	20	1.4	1	9.645 970
MIXcontrol 40	100 - 2000	200 x 155 x 38	40	1.4	1	9.645 971

**3 | 4 Magnetic stirring atexMIXdrive 1 with external control****Explosion protected.**

2mag

1 stirring position, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for powerful mixing of solutions, jerk-free stirring even at low speeds. Fully encapsulated and hermetically sealed stainless steel housing, IP68, water, dust and germproof, extremely robust construction and performance. Easy to clean and maximum resistance, submersible in water, oil baths, suitable for the use in CO₂ incubators and ovens, temperate range up to +40°C. Certified according to ATEX II 2G Ex mb IIC T4.

Specifications

Operating conditions:	-10°C to +40°C at 100% R.H. max.
Casing:	+40°C immersed in water
Protection category:	Stainless steel IP 68



Type	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	l	mm	W	kg		
atexMIXdrive 1	0.001 - 10	180 x 180 x 38	20	3.5	1	6.238 005
atexMIXcontrol cleanroom*	-	210 x 55 x 30	20 (4 steps)	3.6	1	9.646 000

* Control unit explosion protection zone 2.

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

Accessories for mixer MIXdrive

2mag

Description	PK	Cat. No.
distriBOX 4 (4-way header)	1	9.645 972
distriBOX 8 (8-way header)	1	9.645 973
mixBATH (stainless steel bath, electropolished), fits for MIXdrive 6/15/60 (also HT)	1	9.645 974
mixBATHCover 6, PP, for mixBath in combination with MIXdrive 6	1	7.639 439
mixBATHCover 15, PP, for mixBath in combination with MIXdrive 15	1	6.255 612
Special design on request.		

1 Multi-position Magnetic stirrer with internal control MIX 4 MS

Powerful 4-position stirring, 100% maintenance-free and wear-free, 2mag magnetic induction drive concept, **with individual and independent speed setting for each**

stirring position (Master-Slave-Technology). On-/Off function, synchronous speed mode for all positions, extremely wide speed range of 100rpm to 2000rpm, jerk-free stirring even at low speeds. Clear digital display for settings of stirrer speeds, SoftStart procedure for reliable stirrer bar coupling/centring and safe acceleration, automatic memory function to save the last settings, outstanding long working life of the hermetically sealed drive system and resistant stainless steel housing for easy and fast cleaning.



Specifications

Housing: Stainless steel
Protection class: IP 64

Type	Rotation speed	Stirring positions	Stirring capacity	Dimensions (W x D x H)	Rating	Weight	PK	Cat. No.
	rpm		ml	mm	W	kg		
MIX 4 MS	100 to 2000	4	1 to 3000	245 x 425 x 38	28	8.9	1	9.646 010

2 Multi-position magnetic stirrers MIX 6/15/8 XL/12 XL

Without heating. With non-mechanical, electronic induction drive, 100% wear-free and maintenance-free. Ideal for batch series stirring. Choice of 6-place, stirring position models which can stir up to 6 x 1000 ml. Erlenmeyer flasks or 15-place models for up to 15 x 250ml (high form) or 8/12 x 600ml beakers (high form). Digital stirring speed display and soft-start function. With 4 adjustable power level stirring speeds (5W to 20W). Easy to clean, hermetically sealed casing which can be washed under running water, ultra flat, space-saving profile and 100% synchronous speed control in all stirring positions. SoftStart. 3 years warranty, Made in Germany.



Specifications

Operating conditions: -10°C to +50°C at 80% R.H. max.
Housing: Stainless steel
Protection category: IP 64

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
	rpm		mm	ml	mm	kg		
MIX 6	100 - 2000	6	130	1 - 3000	245 x 425 x 38	8.8	1	9.645 956
MIX 15	100 - 2000	15	65	1 - 3000	245 x 425 x 38	8.8	1	9.645 957
MIX 8 XL	100 - 1600	8	90	1 - 3000	185 x 420 x 38	6.2	1	9.646 026
MIX 12 XL	100 - 1600	12	90	1 - 3000	275 x 420 x 38	8.8	1	9.646 027

3 Multi-position magnetic stirrers MIX 15 eco

Without heating. Non-mechanical, electronic induction drive, 100% wear-free and maintenance-free. With 15 stirring positions, e.g. for 6L x 1L erlenmeyer flasks or 15ml x 250ml beakers (high form). Suitable for mass screening and biological applications, even in humidity incubators. With built-in controller, digital speed indicator and SoftStart drive. Supplied with mains adapter. 3 years warranty. Made in Germany.



Specifications

Operating conditions: -10°C to + 50°C at 80% R.H. max.
Housing: Stainless steel
Protection category: IP 64

Type	Rotation speed	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm		mm	ml	mm	W	kg		
MIX 15 eco	120 - 1200	15	65	1 - 1500	245 x 425 x 38	10	8.8	1	9.645 958

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, cable free



1 Magnetic stirrer accuMIX, with battery operation

Mobile magnetic stirrer, 100% maintenance-free and wear-free by inductive 2mag-Magnetic-Drive concept for mixing of solutions, speed range from 120rpm up to 1600rpm, jerk-free stirring also at low speeds, two-step power setting for high power with regard to large and viscous stirring amounts and reduced power for battery-saving long-term operation. Constructed for the independent battery- and stationary mains operation, equipped with 8 commercially available high performance rechargeable batteries (Mignon/AA), universal charging/power supply device, intelligent battery charging station with single controlled charging slots as well as battery service function and 12V adapter cable for the operation at cigarette lighter car sockets.

Specifications

Operating conditions:	-10°C to +50°C at 80% R.H. max.
Casing:	Stainless steel
Protection category:	IP 30

Type	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	rpm	l	mm	w	kg		
accuMIX	100 - 1600	1 - 3000	215 x 130 x 40	2/10 (2-steps)	2.5	1	9.646 011



2 Magnetic stirrer SM27, with battery operation

For use in the field or inside incubators or glove boxes where external power supply is impractical. With BioCote, silver-based, antimicrobial protection. Maximum speed 1300rpm. Maximum volume stirred 1.5L (H₂O). Top plate 150mm x 160mm. Variable speed control with battery status indicator. ABS casing 70mm high. Maximum operating conditions +60°C and 80% R.H. Weight 1.3kg. Supplied with 4 x 1.5V size 'D' alkaline batteries giving up to 600 hours operation, and a 25mm PTFE coated follower. Accessory adapters are available for use on 230V 50Hz mains or 12V vehicle supply using the cigar lighter socket.

Type	PK	Cat. No.
SM27	1	9.950 408

Accessories for magnetic stirrer, SM27

Description	PK	Cat. No.
Mains adapter, SM27/1 for UK / Ireland, 230 V 50Hz single phase supplies	1	9.950 409
Mains adapter, SM27/2 for continental Europe, 230 V 50Hz single phase supplies	1	9.950 410
Vehicle battery adapter, SM27/3 with cigarette lighter plug	1	9.950 411



3 Magnetic stirrer, operated by water/air pressure

PP-ABS construction. This unique stirrer is operated either by water pressure between 1kg/cm² and 2.5kg/cm² (15psi to 40psi) or by air pressure. No electrical supply is needed, thus eliminating heat, electric shock and explosion hazards. Corrosion-proof, all-plastic construction. Can be used on the bench or clamped to a stand with a 12mm (1/2") diameter rod using the integral bosshead.

Diam. mm	Height mm	PK	Cat. No.
129	61	1	9.303 043

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/with heating, with induction

1 Heated magnetic stirrer hotMIX 1 with internal control

Price-optimized magnetic stirrer, 100% maintenance-free and wear-free by inductive 2mag magnetic drive concept for mixing of solutions, speed range from 100rpm up to 1600rpm, jerk-free stirring even at low speeds. SoftStart for reliable catching/centering and safe accelerating of the stirring bar, resistant stainless steel housing for easy and fast cleaning, spill-over protection, extremely robust construction. Hot plate made from resistant aluminium alloy, max. heating temperature +200°C, socket for contact thermometer (accessory), warning-LED in case of hot plate, 3 integrated over temperature protection loops against overheating.



Specifications

Operating conditions: -10°C to +40°C at 80% R.H. max.

Casing: Stainless steel

Protection category: IP 20

Type	Hot-plate	Rotation speed	Stirring capacity	Dimensions (W x D x H)	Power	Weight	PK	Cat. No.
	mm	rpm	ml	mm	W	kg		
hotMIX 1	aluminum	100 to 1600	1 to 2000	120 x 140 x 80	10	2.0	1	6.238 077

2 Multiple stirring hotplate 2mag STIRRING HOTPLATE 6/15

Stirring - Powerful 15 stirring points, maintenance-free and wear-free by 2mag inductive drive, extremely wide speed range of 100rpm to 2.000rpm, 100% synchronized speed, jerk-free stirring even at low speeds, 10-step power settings of the stirrer, high power setting for viscous liquids and reduced power setting for long-term operation without any heating effects caused by the stirrer, clear digital display for settings of stirrer speed, stirrer power and temperature of the integrated heater, SoftStart procedure for reliable catching/centering and safe acceleration of the stirring bar.

Heating - Heating plate made of resistant aluminium alloy, PTFE-coated for increased chemical resistance and easier cleaning, fast heating-up by powerful integrated electrical heater, homogenous temperature distribution, maximum heating temperature +200°C, Power Detect for automatic compensation of physically determined loss in stirring power which can come up to 40% at high temperatures, independent over-temperature protection inside the plate.

Type	Stirring positions	Stirring centre distances	Stirring capacity	Dimensions (W x D x H)	Weight	PK	Cat. No.
		mm	ml	mm	kg		
HOTPLATE 15	15	65	1 to 1.000	250 x 430 x 75	15.0	1	9.646 051



4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

1



1 LLG magnetic stirrer with heating uniSTIRRER 3, complete set

Low-priced magnetic stirrer with all essential functions and equipment features. A LED display to control all parameters, an integrated temperature control as well as an enclosed design (IP42) are integrated features. The included PT-1000 sensor ensures an exact temperature control. A stand rod with a sensor holder is supplied with this instrument. The integrated HOT-sign warns the user of a hot plate even if the device is switched off. 3 years warranty.

- LED display to set the exact rotation speed and the temperature
- Digital controlled rotation speed and temperature
- 'HOT' warning sign, even if the device is switched off
- Sensor PT-1000 is included
- Integrated temperature control
- Stand rod and sensor holder is supplied

Delivery includes: magnetic stirrer with PT-1000, stand rod and fixing material

Specifications

Stirring quantity (H ₂ O):	3l
Speed range:	100 to 1500rpm
Setting accuracy:	±10rpm
Magnetic bar:	max. 50mm
Display:	LED
Heating plate:	135mm diam./Stainless steel
Permissible ambient temperature:	5 to 40°C
Temperature range:	RT to 280°C
Setting accuracy:	±1°C
Control accuracy:	±2°C
Heat output:	500W
Safety temperature:	320°C
Dimensions (WxDxH):	155 x 215 x 100mm
Weight:	1.5kg
Power supply:	200 - 240V, 50/60Hz
Protection class:	IP 42
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 3 with EU-plug	1	6.263 410
uniSTIRRER 3 with UK-plug	1	6.263 411

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

1 LLG-Magnetic stirrer with heating uniSTIRRER 5, complete package

Universal magnetic stirrer with an outstanding price-performance ratio. Safety features include a "hot" warning display and a stirring function that continues to run until the plate temperature is below 50°C, even when the device is switched off. A digital timer enables unattended operation and can be set from 1min to 99h 59min. When the set time has elapsed, the unit stops automatically. An integrated control function offers precise control of the heated fluid temperature via a remote PT1000 temperature probe. The device is equipped with a 135mm ceramic plate, suitable for the LLG- Universal reaction block systems. 3 years warranty.

- Latest generation magnetic stirrer/hotplate
- Maintenance-free, brushless DC motor
- Timer (1min to 99h 59min)
- Digital control and backlit display
- Stirrer and display can be controlled remotely via an RS232 interface
- Hot surface indicator
- White ceramic-coated, stainless steel top plate
- Sturdy metal housing, IP42-rated
- Powerful stirring
- Connection for PT1000, integrated control function

Delivery includes: Magnetic stirrer with PT1000 probe, rod and holder, user manual.

Specifications

Stirring quantity (H ₂ O):	20l
Speed range:	100 to 1500rpm
Accuracy:	±1rpm
Magnetic bar:	80mm
Display:	LCD
Heating plate:	diam. 135mm/stainless steel with ceramic surface
Permissible ambient temperature:	5 to 40°C
Temperature range:	Ambient to 340°C
Setting accuracy:	±0.1°C
Control accuracy:	±0.2°C
Heat output:	550W
Safety temperature:	100 to 360°C
Dimensions (WxDxH):	280 x 160 x 85mm
Weight:	2.8kg
Power supply:	200 - 240V, 50/60Hz
Protection class:	IP 42
Guarantee:	3 years

Type	PK	Cat. No.
uniSTIRRER 5 with EU-plug	1	6.263 440
uniSTIRRER 5 with UK-plug	1	6.263 441



4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

GENERAL CATALOGUE EDITION 19

1 | 2 LLG-RCT standard safety control

Magnetic stirrer with new technology and new functions:

- integrated temperature control
- incl. PT 1000 temperature sensor (PT 1000.60)
- exact temperature and speed setting via digital display, even when switched off
- digital display of set safety temperature limit
- hot top indicator, hot surface warning to prevent burns
- digital error code display
- with adjustable safety circuit of heating plate temperature (+50 to +360°C)
- safety magnetic stirrer with heating, suitable for unsupervised operation
- DIN 12878 connector for attaching a contact thermometer, e.g. ETS-D5; enables precise temperature control directly in the heated medium
- enhanced safety due to improved heat control technology
- enclosed assembly (IP42) guarantees long service life
- highly polished, aluminium hotplate for optimal heat transfer
- improved magnetic coupling
- supplied with housing protection cover H 98

Specifications

Drive unit

Stirring quantity (H ₂ O):	20L
Motor rating input/output:	16/9W
Speed display:	digital
Speed range:	50 to 1500rpm

Max. magnetic bar (L x dia.):

80 x 10mm

Heating function

Speed display:	digital
Heat output:	600W
Heating rate (1 litre H ₂ O in H 15):	6.5K/min
Temperature range:	RT to 310°C
Setting accuracy:	±1K
Temp. variation without temp. sensor:	±2K
Adjustable safety circuit:	50 to 360°C
Control accuracy with sensor:	PT 1000/±1K ETS-D5/±0.5K ETS-D6/±0.2K

Heating plate

Material:	aluminium alloy
Dimensions:	135mm dia.

General data

Dimensions (WxDxH):	160 x 270 x 85mm
Weight:	2.5kg
Operating temperature range:	5 to 40°C
Operating humidity range:	80% R.H.
Protection class acc. to DIN EN 60529:	IP42
Tested to DIN EN IEC 61010-1.	

Type	Connector	PK	Cat. No.
RCT Standard safety control incl. PT 1000	CEE	1	9.720 250
RCT Standard safety control incl. PT 1000	UK	1	6.242 087
RCT Standard safety control incl. PT 1000	CH	1	4.008 142

Optional accessories: Electronic contact thermometer ETS-D5, Ikaflon® stirring bars, Trika® stirring bars, RS 1 stirring bar set, RSE Stirring bar remover, Quarter System, Reaction block System



2



4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

Magnetic stirrer with heating, US152/UC152 and US152D/UC 152D

- Choice of top plate: Robust coated aluminium or chemically resistant ceramic
- Flashing "Hot" warning light, mains independent
- Accurate temperature control with LED indicator scale
- Compact space saving design

Stylish and economical general purpose hotplate stirrers designed with safety as well as performance in mind. The compact shape takes up less bench space and makes storage easier. The hotplate has an innovative LED temperature indicator scale and can also be used in conjunction with the SCT1 digital contact thermometer to accurately control sample temperature. The "Hot" warning light will flash whenever the plate temperature is above 50°C even when the hotplate is turned off and unplugged from the mains. Powerful magnets and motor give stirring speeds up to 2000rpm and is capable of mixing large volumes (up to 15L).

Model US152 has a robust aluminium/silicon alloy top plate for excellent heat transmission. The top plate has a thin ceramic coating for added chemical resistance. A 700W element gives rapid heating and ensures even temperature distribution across the whole surface of the plate.

Model UC152 has a glass ceramic top which has excellent chemical resistance. The surface is easy to clean and the thermal properties allow very high plate temperatures while ensuring the edges stay cooler, reducing the chance of accidental burns. The white surface ensures good visibility of colour changes.

All models have an integral fitting for a retort rod and are supplied with 2 x 25mm PTFE coated stirring bars.

Specifications

	US152(D)/UC152(D)
Plate Material:	Coated Aluminium and Silicon/Glass ceramic
Plate Dimensions:	150mm x 150mm
Heated Area:	150mm x 150mm/120mm x 120mm
Heater Power:	700W/500W
Max plate temp:	325°C/450°C
Stirrer Speed:	100-2000rpm
Maximum Stirring Capacity:	15L
Dimensions (WxDxH):	172 x 248 x 120mm/172 x 248 x 122mm
Weight:	2.9kg
Electrical supply:	230V, 50Hz, 750W/230V, 50Hz, 550W
IP Rating:	IP 32

1



9.645 298

2



9.645 342

Type Description

Type	Description	PK	Cat. No.
US152	Analog magnetic stirrer/hotplate, coated aluminium plate	1	9.645 295
US152D	Digital magnetic stirrer/hotplate, coated aluminium plate	1	9.645 299
UC152	Analog magnetic stirrer/hotplate, glass ceramic plate	1	9.645 296
UC152D	Digital magnetic stirrer/hotplate, glass ceramic plate	1	9.645 298 1
SCT1	Digital contact thermometer	1	9.645 342 2
SCT 1/2	PTFE probe	1	9.645 344
SCT 1/1	Probe holder	1	9.645 343
SR1	Retort rod, 600 x 12mm diameter	1	9.645 335

3 | 4 Magnetic stirrer with heating, 3-Position, SB162-3

With 3 independently adjustable aluminium hotplates, Overheat protection mechanism and warning light which switches on when the plate temperature exceeds 50°C. With facility for mounting a 12.5mm retort rod at the rear of each plate and 3mm x 25mm PTFE coated followers. With BioCote, silver-based, antimicrobial protection.

Stuart

3



Specifications

Max. stirring quantity (H ₂ O):	15l
Speed range:	100 - 1500rpm
Heat output:	3 x 700W
Max. plate temperature:	325°C
Set-up plate:	Al/Si alloy, 3 x 160 x 160 mm
Dimensions (WxDxH):	600 x 270 x 110mm
Weight:	11kg
Power supply:	230V, 50Hz
Protection class:	IP32

4



Type Stirring positions

Type	Stirring positions	PK	Cat. No.
SB162-3	3	1	9.950 424

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor



1 Magnetic stirrer with heating SLR, with glass ceramics plate

For stirring, heating and controlling. As well as the ability for rapid and temperature-controlled heating, many applications also require liquids to be stirred. You can use the SLR hotplate/stirrer to provide gentle or vigorous liquid stirring and, if required, gradual heating or cooling. All functions are displayed on the clear LCD panel and can be monitored. The stirrer and heater are individually controlled via manual control knobs. The stirrer can be set from 100rpm to 1100rpm x 10rpm increments. True running is achieved even at the lower end of the rpm range. Heating can also be adjusted over 24 steps attaining an average of 0.9kW at the top of the range. It is possible to regulate temperatures between 25°C and 200°C with variations of between ±2°C and ±5°C using the Pt1000 temperature sensor, depending on the liquid volume, heat capacity and ambient temperature conditions.

SI Analytics

Specifications

Max. stirring quantity (H ₂ O):	10l
Speed range:	100 to 1100rpm
Heat output:	900W
Min. time to boiling point 1 l H ₂ O:	approx. 15min
Temperature max.:	550°C
Connection for ext. temp. sensor:	Pt 1000
Control accuracy with sensor:	±2 - 5°C
Set-up plate:	glass ceramic, 235 x 235mm
Dimensions (WxDxH):	240 x 370 x 85mm
Weight:	approx. 3.8kg
Power supply:	230V, 50/60Hz
Protection class:	IP20

Type	PK	Cat. No.
SLR	1	9.720 130



Magnetic stirrers RH basic/digital

Newly designed, economic magnetic stirrer with heating. High heat output of 600 watts and the steel-copper compound hot plate ensures rapid heating. Adjustable safety temperature from 50 to 370°C. Soft-start stirring motor. Includes M 10 thread for a support rod. Strong magnetic field and wide speed range for volumes up to 15 litres. RH basic white/RH digital white with chemically resistant hot plate.

IKA

RH digital only:

Bushing according to DIN 12878 for connecting an electronic contact thermometer, such as the ETS-D5. Highly accurate temperature control is possible with the sensor placed directly in the medium.

- Digital display of temperature and speed
- Error code display
- Easy operation with touch keypad



9.720 411

Specifications

Max. stirring quantity (H ₂ O):	15l
Motor rating input/output:	15/2W
Speed range:	50 to 2000rpm
Speed display RH basic:	scale
Speed display RH digital:	LED
Heat output:	600W
Heating rate (1l H ₂ O):	6K/min
Temperature range min./max.:	50 to 320°C
Setting accuracy RH digital:	±5K
Adjustable safety circuit min./max.:	50 to 370°C
Connection for ext. temp. sensor:	DIN 12878
Control accuracy with sensor:	±1K
ETS-D5:	±0.5K
ETS-D6:	±0.2K
Set-up plate:	Stainless steel 1.4301, diam. 135mm
Dimensions (WxDxH):	160 x 246 x 90mm
Weight:	2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	220-240V, 50/60Hz



9.720 414

Type

PK Cat. No.

RH basic	1	9.720 411	2
RH basic S 2 UK	1	9.720 412	
RH basic white	1	9.720 417	
RH digital	1	9.720 414	3
RH digital white	1	9.720 418	4

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

1 Magnetic stirrer RET® control-visc with heating and integrated balance

1



Safety magnetic stirrer with heating and integrated balance. Clear, multilingual TFT display makes it easy to set all parameters. Integrated temperature control feature enables connection of a temperature probe, placed directly in the medium, to control medium temperature with a high degree of precision. PT 1000 temperature sensor is included with purchase of RET control. The stainless steel composite hot plate, reaching a temperature of 340°C, enables rapid heating. RS 232 and USB interfaces enable pc control of the magnetic stirrer and documentation of all test parameters. "Lock" function prevents inadvertent changes of speed and temperature settings. As a safety feature, "HOT" sign flashes when the unit is switched off but surface is still hot.

RET® control-visc white with chemically resistant hot plate.

- BNC socket for connection of a pH electrode
- Adjustable temperature control mode: rapid heating and very accurate temperature control
- Dual sensor for simultaneous control of heat transfer fluid temperature and medium temperature
- Timer and countdown functions
- Display of viscosity change trend
- Detached magnet detection
- Intermittent operation
- Several modes of operation available
- Safety circuit adjustable from 50 to 380°C
- Transparent protective cover included
- Error code display for easy troubleshooting
- Exact temperature and speed adjustment by means of digital display; even when function switched off
- Digital display of the safety temperature limit
- Suitable for unsupervised operation
- Sealed casing (IP 42) ensures a long service life
- labworldsoft® software included

Specifications

Max. stirring quantity (H ₂ O):	20l
Motor rating input/output:	22/12W
Speed:	50 to 1700rpm
Speed display:	TFT
Heat output:	600W
Heating rate (1l H ₂ O):	7K/min
Temperature range min./max.	RT to 340°C
Setting accuracy:	±0.1K
Adjustable safety circuit min./max.:	50 to 380°C
Connection for ext. temp. sensor:	DIN 12878
Control accuracy with sensor:	±0.2K
Interface:	USB/RS 232
Weighing range:	0 to 5000g
Weighing accuracy:	<500g : ±1g , >500g: ±5g
Set-up plate:	Stainless steel 1.4301, diam. 135mm
Dimensions (WxDxH):	160 x 270 x 85mm
Weight:	3kg
Protection class acc. to DIN EN 60529:	IP 42
Power supply:	220-240V, 50/60Hz

Type	PK	Cat. No.
RET® control-visc	1	9.720 261
RET® control-visc S 2 UK	1	9.720 262
RET® control-visc S 3 CH	1	9.720 263
RET® control-visc white	1	9.720 231
RET® control-visc white S 2 UK	1	9.720 232
RET® control-visc white S 3 CH	1	9.720 233

Temperature sensor for RET® control-visc

IKA

2



9.720 350

Type	Description	Immersion depth mm	PK	Cat. No.
PT 100.50	AISI 316 Ti	230	1	9.720 350
PT 100.51	Borosilicate glass 3.3	230	1	9.720 351
PT 1000.50	Stainless steel	230	1	9.720 348
PT 1000.51	Stainless steel, glass coated, for corrosive media	230	1	9.720 349
PT 1000.80	Stainless steel	150	1	9.720 352

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

1

Magnetic stirrers C-MAG HS 4 digital/C-MAG HS 7 digital/C-MAG HS 10 digital

New magnetic stirrer with heating and ceramic heating plate which offers excellent chemical resistance.

IKA

- Powerful motor for stirring quantities of up to 5l, 10l or 15l (H₂O)
- Simultaneous digital display of target and actual temperatures via LCD display
- Direct connection for a PT 1000 temperature sensor enable a precise temperature control (included in delivery)
- Control accuracy in medium ±0.5K (in combination with PT 1000)
- Display of actual temperature value in medium with 0.1K resolution when using PT 1000 temperature sensor
- 3 operating modes to choose (standard, safe, adjustment protection)
- Fixed safety circuit of 550°C
- Hot Top indicator: hot surface warning to prevent burns!
- Digital error code display
- Elevated control panel for protection against leaking liquids

2**Specifications****Magnetic drive**

Max. stirring quantity (H₂O)

C-MAG HS 4:	5l
C-MAG HS 7:	10l
C-MAG HS 10:	15l

Motor rating input/output:

Speed range:	15/1.5W
Speed display:	100 to 1500rpm

Max. stirring bar length

C-MAG HS 4:	30mm
C-MAG HS 7/HS 10:	80mm

Heating function

Heat output:

C-MAG HS 4:	250W
C-MAG HS 7:	1000W
C-MAG HS 10:	1500W

Heating rate (1l H₂O):

C-MAG HS 4:	2.5K/min
C-MAG HS 7/HS 10:	5K/min

Temperature range min./max.

Setting accuracy:	±1K
Temperature display:	LCD

Safety circuit fixed:

Connection for ext. temp. sensor:	550°C
Control accuracy with sensor:	DIN 12878

Set-up plate

Material:

Dimensions	ceramic
------------	---------

C-MAG HS 4:	100 x 100mm
C-MAG HS 7:	180 x 180mm
C-MAG HS 10:	260 x 260mm

Protection class acc. to DIN EN 60529:	IP 21
Power supply:	230 V, 50/60 Hz

Type	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
C-MAG HS 4 digital	150 x 260 x 105	3	1	9.720 441 1
C-MAG HS 4 digital S 2 UK	150 x 260 x 105	3	1	9.720 442
C-MAG HS 4 digital S 3 CH	150 x 260 x 105	3	1	9.720 447
C-MAG HS 7 digital	215 x 330 x 105	5	1	9.720 443 2
C-MAG HS 7 digital S 2 UK	215 x 330 x 105	5	1	9.720 444
C-MAG HS 7 digital S 3 CH	215 x 330 x 105	5	1	9.720 448
C-MAG HS 10 digital	300 x 415 x 105	6	1	9.720 445 3
C-MAG HS 10 digital S 2 UK	300 x 415 x 105	6	1	9.720 446
C-MAG HS 10 digital S 3 CH	300 x 415 x 105	6	1	9.720 449

4

Magnetic stirrer C-MAG HS 7 Package

C-MAG HS 7 Package includes:
Magnetic stirrer/hotplate C-MAG HS 7, ETS-D5 Electronic contact thermometer,
H 38 Holding rod, H 16 V Support rod and H 44 Bosshead.

IKA

Type	PK	Cat. No.
C-MAG HS 7 Package	1	6.235 183

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

Overall accessories for IKA magnetic stirrers



IKA

Type	Description	For model	PK	Cat. No.
PT 1000.60	Temperature sensor	RCT basic	1	6.229 702
PT 1000.70	Temperature sensor, glass-coated	RCT basic	1	6.231 283
H 104	Protective cover	RET control, RCT basic	1	9.910 338
H 29	Oil bath attachment, i. d. : 136 - 180 mm, H: 81 mm, Vol. : 1 l	RET, RCT	1	7.017 796
H 30	Oil bath attachment, i.d. : 136 - 190 mm, H: 110 mm, Vol. : 1.5 l	RET, RCT	1	7.017 797
labworldsoft® V5	Software for control and data collection	RET, RCT	1	9.910 319

Electronic Contact thermometer ETS-D5/ETS-D6

1

IKA



9.720 241

2



9.720 242

Specifications

Temperature

Measuring range:	-50 to 450°C
Resolution:	±0.1K
Accuracy*:	±0.2K
Control accuracy:	0.1K
Control accuracy (with sensor)	±0.5K
Voltage:	8 to 16V d.c.
Current (at 9V)	15 mA
Connection:	DIN 12878 Class 2
Operating range:	0 to 60°C
Max. R.H.:	80%
Protection class:	IP54
Connector:	6-pole, DIN 45322
Weight:	0.2kg

Tested to DIN EN IEC 61010-1.

Type	Dimensions (W x D x H mm)	PK	Cat. No.
ETS-D5	82 x 22 x 83	1	9.720 241 1
ETS-D6	96 x 45 x 98	1	9.720 242 2

Dimensions without sensor.

*Sensor: PT1000 DIN IEC 751 Class A

Accessories for ETS-D5/ETS-D6 contact thermometer

IKA

Type	Description	PK	Cat. No.
H 44	Bosshead	1	9.232 994
H 16 V	Stainless steel support rod	1	9.720 257
H 62.51	Replacement sensor, stainless steel	1	9.232 998
H 66.51	Stainless steel sensor, glass sleeved	1	9.232 999
H 70	Extension cable, 1 metre	1	9.233 000
H 11	Replacement power cable	1	9.720 276
H 38	Holding rod	1	9.232 996

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

Magnetic stirrers/hotplates, multi-position, RT 5/10/15

Digital magnetic hotplate stirrers with 5, 10 or 15 positions, designed for synchronous heating and stirring. The magnetic coil technology provides noiseless and consistent stirring on all positions. The surface temperature is infinitely adjustable up to 120°C, producing a maximum medium temperature of 70°C (depending on type of vessel). Speed remains constant, even when load changes.

IKA

- Homogeneous temperature distribution across heating plate
- Adjustable reverse operation
- Eco-mode for a low self-warming of the surface
- Wear free magnetic coils
- Error code display
- Easy operation with touch keypad
- Suitable for continuous operation
- Adjustable speed in increments of 10rpm

Specifications

Max. stirring quantity per stirring position (H ₂ O):	0.4l
Distance between stirring places:	90mm
Deviation for individual stirring positions:	0%
Speed range:	0 to 1000rpm
Heating rate (1l H ₂ O in H15):	3K/min
Temperature range heatig plate:	RT to 120°C
Max. temperature medium (dep. on vessel):	70°C
Temperature display:	LED
Heat control accuracy:	±1K
Speed display:	LED line
Set-up plate material:	aluminium alloy
Protection class acc. to DIN EN 60529:	IP 40
Power supply:	100-240V, 50/60Hz

Type	Stirring positions	Dimensions Set-up plate (W x D) mm	Dimensions (W x D x H) mm	Heating power W	PK	Cat. No.
RT 5	5	110 x 495	120 x 610 x 60	175	1	9.720 603
RT 5 S 2 UK	5	110 x 495	120 x 610 x 60	175	1	9.720 604
RT 5 S 3 CH	5	110 x 495	120 x 610 x 60	175	1	9.720 605
RT 10	10	180 x 495	190 x 610 x 60	375	1	9.720 606
RT 10 S 2 UK	10	180 x 495	190 x 610 x 60	375	1	9.720 607
RT 10 S 3 CH	10	180 x 495	190 x 610 x 60	375	1	9.720 608
RT 15	15	270 x 495	280 x 610 x 60	580	1	9.720 609
RT 15 S 2 UK	15	270 x 495	280 x 610 x 60	580	1	9.720 610
RT 15 S 3 CH	15	270 x 495	280 x 610 x 60	580	1	9.720 611

1



9.720 603

2



9.720 609

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars

1 2 3

LLG-Universal reaction block system for magnetic stirrers

Universal alternative to oil bath

The reaction block allows syntheses to be carried out in round flasks at temperatures of up to 250°C. As a result oil as a heat transfer media is made redundant and your lab is a safer place with this system. The reaction block ensures safety at work and prevents oil baths and heating mantles from overheating in your lab. The messy oil clean-ups that results from changing oil or removing flasks from an oil bath will be eliminated. Injuries and burns from hot oil will never happen again. Uniform mixing is also guaranteed because there is no interference to the magnetic field from the aluminium blocks. This system ensures optimal heat transfer from the heating plate directly into the medium.

- Universal model
- For round plates of 135 to 145mm diameter
- With adapter plate for all square plates of min. 145mm length side

- Reaction blocks are available in six standard sizes.
- Delivered adapter allows the use with either IKA or Heidolph magnetic stirrers.
- Syntheses in round flasks without oil bath up to 250°C.
- Uniform and constant mixing
- High-precision thermal conduction directly into the reaction block
- Safe and clean working
- Made in Germany

Description	PK	Cat. No.
LLG-Universal reaction block system 50ml	1	9.728 890
LLG-Universal reaction block system 100ml	1	9.728 891
LLG-Universal reaction block system 250ml	1	9.728 892
LLG-Universal reaction block system 500ml	1	9.728 893
LLG-Universal reaction block system 1000ml	1	9.728 897
LLG-Universal reaction block system 2000ml	1	9.728 898
Spare adapter ring for reduction from 145mm to 135mm, for attachment 50 to 500ml	1	9.728 894
Spare adapter ring for reduction from 145mm to 135mm, for attachment 1000 and 2000ml	1	9.728 899
Adapter plate for rectangular hotplates, for attachment 50 to 500ml	1	9.728 895
Adapter plate for rectangular hotplates, for attachment 1000 and 2000ml	1	9.728 900
2 spare screws and 1 wrench, for attachment 50 to 500ml	1	9.728 896
2 spare screws (countersunk), for attachment 1000 and 2000ml	1	9.728 901



4

Safety cover for LLG-Universal reaction block system for magnetic stirrers

Safety cover for LLG-Reaction block system to protect against broken glass and for heat insulation.



For	PK	Cat. No.
Round flask attachment 250ml	1	9.728 885
Round flask attachment 500ml	1	9.728 886
Round flask attachment 1000ml	1	9.728 887
Round flask attachment 2000ml	1	9.728 902

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars



1 LLG-Magnetic stirring bars, cylindrical, PTFE, eco pack

Circular, smooth and PTFE-coated. Packaging size: 10 pieces

Length mm	Diam. mm	PK	Cat. No.
10	6	10	9.198 910
12	3	10	9.198 766
15	6	10	9.198 919
20	6	10	9.198 920
25	6	10	9.198 925
25	8	10	9.198 767
30	6	10	9.198 930
35	6	10	9.198 935
40	8	10	9.198 940
45	8	10	9.198 945
50	8	10	9.198 950
60	9	10	9.198 960
70	9	10	9.198 970
80	9	10	9.198 980



2 Magnetic stirring bar behrotest, set 1 + 2

Magnetic stirring bars behrotest®, Set 1 in a transparent box with hinged lid

Behr

Consisting of: 2x 20 x 6 mm, 2x 25 x 6mm, 2x 30 x 6 mm, 2x 40 x 8 mm, 1x 50 x 8 mm, 1x 60 x 9 mm

Magnetic stirring bars behrotest®, Set 2 in a transparent box with hinged lid including magnetic stirring bar retriever, length 245 mm

Consisting of: 1x 15 x 6 mm, 2x 20 x 6 mm, 2x 25 x 6mm, 1x 30 x 6 mm, 2x 40 x 8 mm, 1x 50 x 8 mm, 1x 60 x 9 mm

6.267 318

Description	PK	Cat. No.
Set 1	1	6.267 317
Set 2	1	6.267 318



3 Magnetic stirring bars, cylindrical, PTFE

PTFE-coated. Cylindrical. Round, smooth surface. Versatile. Autoclavable. Further sizes available on request.

BRAND

Length mm	Diam. mm	PK	Cat. No.
2.5	2.5	1	9.197 502
3.5	3.5	1	9.197 505
5.0	2.0	1	9.197 503
6.0	3.0	1	9.197 506
7.0	2.0	1	9.197 504
8.0	3.0	1	9.197 509
10.0	3.0	1	9.197 507
10.0	6.0	1	9.197 510
12.0	4.5	1	9.197 512
13.0	3.0	1	9.197 508
15.0	6.0	1	9.197 515
15.0	4.5	1	9.197 514
20.0	6.0	1	9.197 520
25.0	6.0	1	9.197 525
30.0	6.0	1	9.197 530
35.0	6.0	1	9.197 535
40.0	8.0	1	9.197 540
45.0	8.0	1	9.197 545
50.0	8.0	1	9.197 550
60.0	9.0	1	9.197 560
70.0	9.0	1	9.197 570
80.0	9.0	1	9.197 580



4 Magnetic stirring bars, triangular, PTFE

Triangular. PTFE-coated. Wedge-shaped, ideal for dissolving solids and re-suspending sediments due to scraping action. Angular surface produces high turbulence, even at low stirring speeds.

BRAND

Length mm	Diam. mm	PK	Cat. No.
12	6	1	7.019 669
20	8	1	7.019 670
25	8	1	9.197 652
25	14	1	7.019 672
35	10	1	7.019 673
40	14	1	9.197 654
50	12	1	7.019 675
55	14	1	9.197 655
80	16	1	9.197 658

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars

1 Magnetic stirring bars ASTEROID, triangular, PTFE

More than 4x higher torque transmissible. Unbeatably enhanced mixing effect in comparison to conventional stirring bars. Strong, stable, long-lasting magnetic field, with no demagnetization effect. Concave design for minimal surface contact and reliable rotation, triangular shape for powerful shear force and enhanced mixing at lower rotational speeds. Significantly higher rotation speeds achievable, high quality, even and sealed PTFE encapsulation. Conform to FDA requirements, steam sterilisable at 121°C. Multiple enhancements against all types of magnetic stirrers.



Length mm	Diam. mm	PK	Cat. No.
25	17	1	9.646 057
40	28	1	9.646 040
70	46	1	9.646 058

2 Magnetic stirring bar, octagonal, PTFE

- Interrupted profile provides greater surface area and added turbulence when compared to the smooth surface of cylindrical bars
- Pivot ring aids in reducing friction and chattering
- PTFE encapsulated Alnico magnet
- Autoclavable

Bel-Art Products



Length mm	Diam. mm	PK	Cat. No.
12.7	8	1	9.197 460
15.9	8	1	9.197 461
22.2	8	1	9.197 462
25.4	8	1	9.197 463
28.6	8	1	9.197 464
38.1	8	1	9.197 465
50.8	8	1	9.197 466

3 Magnetic stirring bars, dumbbell, PTFE

PTFE-coated. Dumbbell-shaped. Excellent centring, low surface contact and high turbulence even at low stirring speeds, ends 20mm diameter. Stem diameter 8mm.

Length mm	PK	Cat. No.
37	1	9.197 643
55	1	9.197 645



4 Magnetic stirring bars, oval, PTFE

Encapsulated in PTFE. Oval. Ideal for round bottom flasks.

Length mm	Diam. mm	PK	Cat. No.
20	10	1	9.197 590
25	12	1	9.197 591
30	15	1	9.197 592
35	15	1	9.197 593
40	20	1	9.197 594
50	20	1	9.197 595



5 LLG-Magnetic Stirring Bar Retrievers, PTFE

PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance. For the removal of stirring bars from aggressive liquids, prevents loss of stirring bars. Lower end diameter 10mm.

Length mm	Diam. mm	PK	Cat. No.
150	8	1	9.197 717
250	8	1	9.197 725
300	8	1	4.008 501
350	8	1	9.197 735



MIESZADŁO MAGNETYCZNE

MS-PB Niebieska seria Chemland

Kompaktowe, analogowe mieszadło magnetyczne

Zakres: 100-1500 obr/min (manualna regulacja)

Max. ilość preparatu (H₂O) [L]: 3

Obudowa ABS z materiałów ogniodpornych, odpornych na słabe kwasy i roztwory alkaliczne.



MIESZADŁO MAGNETYCZNE

MS-PA Niebieska seria Chemland

Kompaktowe mieszadło magnetyczne z wyświetlaczem LED.

Zakres obrotów: 100-1500 obr/min

Max. ilość preparatu (H₂O) [L]: 3

Sterowanie mikroprocesorowe gwarantuje dokładność regulacji mieszania dla stałej prędkości nawet podczas zmiany obciążenia

Obudowa ABS z materiałów ogniodpornych, odpornych na słabe kwasy i roztwory alkaliczne.

numer katalogowy	sterowanie	prędkość [rpm]	wymiary płyty [mm]
06-MS-PA	LED	100-1500	135
06-MS-PB	MANUAL	100-1500	135



MIESZADŁO MAGNETYCZNE Z GRZANIEM - LED

H280PRO Niebieska seria Chemland

Idealne, kompaktowe mieszadło do zastosowań laboratoryjnych.

Max. ogrzewanie do 280 °C

Płyta wykonana z stali nierdzewnej lub ceramiki odporna na korozję.

Opcjonalnie dostępny zewnętrzny czujnik temperatury PT1000 o dokładności ± 1° C, kontrola temperatury medium w czasie rzeczywistym oraz statyw. Wyświetlacz LED temperatury i prędkości.

„50 °C HOT” ostrzeżenie o resztkowej temperaturze pola grzewczego. Obudowa ABS z materiału ogniodpornego, odporna na słabe kwasy.



numer katalogowy	płyta	prędkość [rpm]
06-MS-P280PRO	porcelana	100-1500
06-MS-S280PRO	stal	100-1500



MIESZADŁO MAGNETYCZNE Z GRZANIEM

Średnica płyty 120 mm, płyta wykonana z aluminium, statyw w komplecie,łącz/wyłącz grzanie.

numer katalogowy	typ pracy	prędkość [rpm]	wymiary [mm]
06-781	jednostronny	0-1400	230x160x100
06-782	dwustronny	0-1400	230x160x100



Dwa tryby pracy - po uruchomieniu urządzenia mieszadło obraca się zgodnie z ruchem wskazówek zegara.

Po założeniu przycisku "DIRECTION" uruchamiamy funkcję dodatkową mieszadła - mieszadło po około 90 sekundach zostaje wyhamowane do zera, a następnie zaczyna pracę w przeciwnym kierunku.

numer katalogowy	typ pracy	prędkość [rpm]	wymiary [mm]
06-791	jednostronny	0-1800	260x180x110
06-792	dwustronny	0-1800	260x180x110

NIEBIESKA SERIA!

MIESZADŁO MAGNETYCZNE Z GRZANIEM SERIA MS-H Niebieska seria Chemland

Analogowe mieszadła magnetyczne z płytą grzejną ceramiczną lub stalową o nowoczesnym wzornictwie.



*Ustawne tryby pracy: grzanie, mieszanie lub grzanie z mieszaniem.

*Wysoka dokładność regulacji

*2 regulowane obwody bezpieczeństwa

*Elektroniczna kontrola prędkości dla stałej prędkości nawet podczas zmiany obciążenia

*Silnik bezszczotkowy o długiej żywotności

*Wysoka adhezja magnetyczna

*Płyta ceramiczna lub stalowa o wysokiej odporności chemicznej

Napięcie [V]: 220/240.

[Hz]: 50/60.

Moc [W]: 500.

Mieszadło jednostanowiskowe.

Max. ilość preparatu (H₂O) [L]: 20.

Rodzaj silnika: bezszczotkowy.

Moc znamionowa silnika [W]: 18.

Moc znamionowa [W]: 10.

Zakres prędkości [rpm] :100-1500.

Płyta: porcelana / stal nierdzewna.

Wymiary płyty [mm]: Ø135.

Moc grzewcza [W]: 500.

Wskaźnik ciepła (1Lh) [K / min]: 6.

Zakres temperatury ogrzewania [° C]: RT-340.

Dokładność regulacji temperatury ogrzewania [° C]: 1.

Regulacja obwodu bezpieczeństwa (płyta) [° C]:100-350.

Wymiary [mm]: 300 × 170 × 100.

Waga [kg]: 2,8.

Dopuszczalna temperatura otoczenia [° C]:5-40.

Dopuszczalna wilgotność otoczenia: 80%.

Klasa ochrony wg DIN EN60529: IP42.



numer katalogowy	płyta	prędkość [rpm]
06-MS-H-S S	stal	100-1500
06-MS-H-S P	porcelana	100-1500

MIESZADŁO MAGNETYCZNE Z GRZANIEM SERIA MS-H Pro Niebieska seria CHEMLAND

Cyfrowe mieszadła magnetyczne z płytą grzejną ceramiczną lub stalową o nowoczesnym wzornictwie.

*Łatwy do odczytania wyświetlacz LCD z podświetleniem.

*Ustawne tryby pracy: grzanie, mieszanie lub grzanie z mieszaniem.

*Funkcje mieszania i grzania mogą być zapisywane w pamięci.

*Wysoka dokładność regulacji .

*2 regulowane obwody bezpieczeństwa.

*Informacja o rozgrzanej płycie po wyłączeniu urządzenia.

*Elektroniczna kontrola prędkości dla stałej prędkości nawet podczas zmiany obciążenia.

*Silnik bezszczotkowy o długiej żywotności.

*Wysoka adhezja magnetyczna.

*Płyta ceramiczna lub stalowa o wysokiej odporności chemicznej.

*Funkcja "timer" (tylko model MSH-PRO-T) pozwala na bezobsługową pracę i może być ustawiona od 1 min do 99h 59min. Po upływie ustawionego czasu, mieszadło i grzanie zatrzymuje się.

NIEBIESKA SERIA!



MSH-PRO-T

numer katalogowy	płyta
06-MS-H-S S	stal
06-MS-H-S P	porcelana
06-MSH-PRO-T	porcelana

Moc [W]: 500;

Mieszadło jednostanowiskowe .

Max. ilość preparatu (H₂O) [L]: 20.

Rodzaj silnika: bezszczotkowy.

Moc znamionowa silnika [W]: 18.

Moc znamionowa [W]: 10.

Zakres prędkości [rpm] :100-1500.

Sposób wyświetlania: LCD.

Dokładność prędkości [rpm]: 1.

Płyta: porcelana / stal nierdzewna.

Wymiary płyty [mm]: Φ135.

Moc grzewcza [W]: 500.

Wskaźnik ciepła (1L H₂O) [K / min]: 6.

Zakres temperatury ogrzewania [°C]: RT-340.

Wskaźnik temperatury: LCD.

Dokładność wyświetlania temperatury [°C]: 0,1.

Dokładność regulacji temperatury ogrzewania [°C]: 1.

Regulacja obwodu bezpieczeństwa (płyta grzewcza) [°C]:100-350.

Czujnik temperatury (opcja): PT1000.

Dokładność regulacji temperatury ogrzewania z czujnika temperatury [°C]: 0,2.

Wymiary [mm]: 300 × 170 × 100.

Waga [kg]: 2,8.

Dopuszczalna temperatura otoczenia [° C] :5-40.

Dopuszczalna wilgotność otoczenia: 80%.

Klasa ochrony wg DIN EN60529: IP42.

Rs232: tak.



MSH-H-PRO-S



Nasadka dla kolb okrągłodennych (OPCJA)
do płyt ze stali nierdzewnej

Czujnik temperatury
PT 1000 (opcja)

numer katalogowy	akcesoria
06-18900016	czujnik PT1000
06-18900082	nasadka (do pojemności 250ml)
06-18900083	nasadka (do pojemności 500ml)

**NIEBIESKA
SERIA!**



Czujnik temperatury
PT 1000 (opcja) Czujnik temperatury
PT 1000B (opcja) oprawa szklana

MIESZADŁO MAGNETYCZNE Z GRZANIEM

SERIA MS7-H550 Niebieska seria CHEMLAND

- * Zakres temperatury do 550 °C
- * Obudowa w nowoczesnej stylistyce.
- * Wyświetlacz LCD z podświetleniem.
- * Ustawne tryby pracy: grzanie, mieszanie lub grzanie z mieszaniem.
- * Funkcja mieszania i grzania mogą być zapisywane w pamięci.
- * Elektroniczna kontrola prędkości dla stałej prędkości nawet podczas zmiany obciążenia.
- * Silnik bezszczotkowy o długiej żywotności.
- * Wysoka adhezja magnetyczna.

Grzanie / Mieszanie

Powierzchnia robocza [mm]: 184x184

Max. ilość preparatu (H_2O) [L]: 20

Wyświetlana prędkość na LCD [rpm]: ± 1

Strefa grzewcza [mm]: 200x200

Moc grzania[W]: 1000

Zakres regulacji temperatury [°C]: Temp. pokojowa + 550

Dokładność regulacji temperatury [°C]: $\pm 1 (<100^{\circ}C)$

Bezpieczna temperatura [°C]: 580

Dokładność wyświetlania temperatury [°C] $\pm 0,1$

Zewnętrzny czujnik temperatury Pt1000(opcja)

Dokładność regulacji temperatury Pt1000 [°C]: $\pm 0,2$

Ostrzerzenie przed rozgrzaną płytą 50°C

Wymiary (szer. x gł) [mm] 215 x 360 x 112

Waga [kg] 4,3

Temperatura [°C] 5-40

numer katalogowy	płyta	wyświetlacz
06-MS7-H550	porcelana	LCD
06-MS7-H550L	porcelana	LED



MIESZADŁO MAGNETYCZNE Z GRZANIEM SERIA SH4

Posiada dużą płytę ceramiczną 19x19cm, chemicznie odporną. Płynna nastawa grzania jak i mieszania. Duży wielofunkcyjny wyświetlacz LCD może wskazywać w tym samym czasie temperaturę nastawioną, aktualną temperaturę nastawioną, ilość obrotów, aktualną ilość brotów.

numer katalogowy	prędkość [rpm]	max. temp. [°C]	max. obj. preparatu [ml]
06-SCH4C	100~2000	$300 \pm 10\%$	5000



**NIEBIESKA
SERIA!**

MIESZADŁO MAGNETYCZNE

SERIA MS-M-S10 Niebieska seria CHEMLAND

Analogowe mieszadło magnetyczne 10 miejscowe. Doskonały silnik zapewnia równomierne mieszanie każdej pozycji o objętości do 400 ml. Powierzchnia jest ze stali nierdzewnej z silikonową matą antypoślizgową, która jest odporna na chemikalia i łatwa do utrzymania w czystości. Elektroniczna kontrola prędkości dla stałej prędkości nawet podczas zmiany obciążenia. Wysoka adhezja magnetyczna.

numer katalogowy	typ
06-MS-M-S10	bez grzania
06-MS-H-S10	z grzaniem

MIESZADŁO MAGNETYCZNE Z GRZANIEM

SERIA MS-H-S10 Niebieska seria Chemland

Analogowe mieszadło magnetyczne z grzaniem na 10 miejsc . Doskonały silnik zapewnia równomierne mieszanie każdej stanowiska o objętości do 400 ml. Ustawne tryby pracy : grzanie, mieszanie, mieszanie i grzanie. Powierzchnia jest ze stali nierdzewnej z silikonową matą antypoślizgową, która jest odporna na chemikalia i łatwa do utrzymania w czystości. Elektroniczna kontrola prędkości dla stałej prędkości nawet podczas zmiany obciążenia.

Moc grzewcza [W] 470.

Temperatura ogrzewania [° C] Od temperatury pokojowej do 120.

Temperatury bezpieczeństwa [° C] 140.

Maksymalna ilość cieczy na stanowisko(H_2O) [L] 0,4.

Powierzchnia robocza jednego stanowiska[mm] 90.

Odchylenie prędkości na jedno stanowisko [%] 5.

Maksymalna ilość preparatów na płycie (H_2O) [L] 4.

Rodzaj silnika Bezszczotkowy DC.

Zakres prędkości [rpm] 0-1100.

Wymiary powierzchni roboczej [mm] 180 × 450.

Wymiary [mm] 182 × 552 × 65.

Waga [kg] 3,2.

NIEBIESKA
SERIA!



numer katalogowy	typ
06-MS-M-S10	bez grzania
06-MS-H-S10	z grzaniem