

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 50 mm in diameter | 1 | Protection from dripping water |
| 2 | Protection from object greater than 12 mm in diameter | 2 | Protection from vertically dripping water (tilted up to 15°) |
| 3 | Protection from object greater than 2.5 mm in diameter | 3 | Protection from sprayed water (tilted up to 60°) |
| 4 | Protection from object greater than 1 mm 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 Magnetic stirrer LLG-uniSTIRRER 2

Compact and cost-efficient magnetic stirrer without heating for volumes up to 1000 ml. Adjustable speed from 0 to 2000 rpm. Plate diameter 120 mm. Body made of ABS.

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

Scope of supply: magnetic stirrer, mains adapter, 2 stirring rods 27 x 8mm and 34 x 8mm

Specifications

| | |
|---------------------------------------|------------------------------|
| Stirring quantity (H ₂ O): | 1000 ml |
| Speed range: | 0 ... 2000 min ⁻¹ |
| Permissible ambient temperature: | 0 ... 50 °C |
| Magnetic bar: | 25 x 8 mm |
| Display: | Analog |
| Heating plate: | 120 x 120 mm |
| Dimensions (W x D x H): | 150 x 135 x 53mm |
| Weight: | 0.5 kg |
| Power supply: | 100 ... 230 V, 50/60 Hz |
| IP code: | IP 21 |
| Warranty: | 3 years |

| Type | Plug type | PK | Cat. No. |
|------------------|-----------|----|-----------|
| LLG-uniSTIRRER 2 | EU | 1 | 6.263 430 |
| LLG-uniSTIRRER 2 | UK | 1 | 6.263 431 |

2



2 Magnetic mini-stirrers topolino

Without heating. Extremely convenient magnetic mini-stirrer for mixing volumes up to 250ml.

- Durable, brushless motor
- Infinitely variable speed range
- Strong magnetic coupling

Specifications

| | |
|--|-------------------------|
| Stirring quantity max. (H ₂ O): | 250 ml |
| Speed range: | 300 ... 1800 rpm |
| Permissible ambient temperature: | 5 ... 40 °C |
| Permissible relative humidity: | 80 % |
| Material: | PP |
| Dimensions Top plate (Ø): | 80 mm |
| Dimensions (W x H x D): | 95 x 37 x 115 mm |
| Weight: | 0.32 kg |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| IP code: | IP 21 |

| Type | Plug type | PK | Cat. No. |
|----------|-----------|----|-----------|
| Topolino | EU/CH | 1 | 9.720 220 |

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

1 Magnetic stirrer MST Digital

Small, lightweight magnetic stirrer for volumes up to 5 l. Ideal for titrations, BOD determination, microbiological and biochemical applications.

Velp Scientifica

- Bright LED display
- The device remains cold even in continuous use
- Timer
- Very good chemical resistance
- Torque compensation to keep the speed constant in case of viscosity changes
- Auto reverse function

Specifications

| | |
|----------------------------|-------------------------|
| Volume (H ₂ O): | 5 l |
| Speed (max.): | 1500 min ⁻¹ |
| Display: | Digital |
| Timer: | 1 ... 900 min |
| Auto reverse: | 5 ... 900 s |
| Dimensions (W x D x H): | 120 x 145 x 50 mm |
| Weight: | 0.6 kg |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| Warranty: | 3 years |

| Type | PK | Cat. No. |
|-------------|----|-----------|
| MST Digital | 1 | 4.666 683 |



2 Magnetic stirrer Mini MR standard

Without heating.

- 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): | 1 l |
| Speed range: | 0 ... 2500 rpm |
| Permissible ambient temperature: | 5 ... 40 °C |
| Permissible relative moisture: | 80 % |
| Plate material: | Polyester film |
| Top plate dimensions (W x D): | 115 x 115 mm |
| Overall dimensions (W x D x H): | 115 x 129 x 37 mm |
| Weight: | 0.25 kg |
| Supply requirements: | 100 ... 240 V, 50/60 Hz |
| Protection to DIN EN 60529: | IP42 |
| Tested to DIN EN IEC 61010-1. | |

| Type | Plug type | PK | Cat. No. |
|------------------|--------------|----|-----------|
| Mini MR standard | EU/CH/UK/USA | 1 | 9.720 211 |



3 Magnetic stirrer Hei-Mix

Without heating. Suitable for titration.

Heidolph

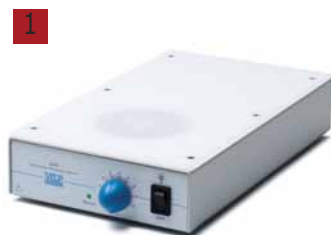
- Stir quickly and efficiently with an extended speed range up to 2200rpm
- Long-lasting polyamide housing and PVDF top plate material
- Ideal for titrations due to white-colored top plate
- Space saving unit for efficiently mixing sample sizes up to 5l. Small footprint of 126 x 80 x 140mm (W x H x D) only, and the top plate comes with a diameter of 104mm
- Powerful stirring magnet for safe rotation of the stirring bar even with more viscous solutions

Specifications

| | |
|---------------------------------------|-------------------|
| Stirring quantity (H ₂ O): | 5 l |
| Speed range: | 0 ... 2.200 rpm |
| Permissible ambient temperature: | 5 ... 31 °C |
| Permissible relative moisture: | 80 % |
| Plate Material: | PVDF |
| Plate Dimensions (Ø): | 104 mm |
| Dimensions (W x D x H): | 126 x 140 x 80 mm |
| Weight: | 1.1 kg |
| Power supply: | 230 V |
| Protection class: | IP 21 |

| Type | Plug type | PK | Cat. No. |
|-----------|-----------|----|-----------|
| Hei-Mix S | EU | 1 | 9.720 167 |
| Hei-Mix S | UK | 1 | 6.201 570 |





1 Magnetic stirrer AMI, illuminated

Magnetic stirrer with illuminated stirring position for stirring volumes up to 5 l. With epoxy-coated metal housing for protection against liquid spills.

Velp Scientifica

- Gentle start-up
- Illuminated stirring position
- Electronic speed control up to 1100 min⁻¹
- Low height

Specifications

| | |
|---------------------------------|-------------------------|
| Max. volume (H ₂ O): | 5 l |
| Motor rating: | 1.2 W |
| Max. speed: | 1100 min ⁻¹ |
| Weight: | 1.2 kg |
| Dimensions (W x D x H): | 150 x 270 x 55 mm |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| Warranty: | 3 years |

| Type | Plug type | PK | Cat. No. |
|------|-----------|----|-----------|
| AMI | EU | 1 | 4.666 684 |



2 Magnetic stirrer myPlate

The magnetic stirrer myPlate combines the excellent technical features of the magnetic stirrers colour squid and big squid with the option of creative individualisation. Thanks to the interchangeable frame the image template provided can be exchanged easily through a personal image.

IKA

Specifications

| | |
|--|-------------------|
| Stirring volume (H ₂ O): | 1.5 l |
| Speed range: | 0 ... 2000 rpm |
| Permissible ambient temperature: | 5 ... 40 °C |
| Permissible relative humidity: | 80 % |
| Material: | Glass |
| Dimensions Top plate (Ø): | 135 mm |
| Dimensions (W x D x H): | 150 x 160 x 30 mm |
| Weight: | 500 g |
| Supply requirements: | 100 ... 240 V |
| Protection class acc. to DIN EN 60529: | IP 54 |

| Type | PK | Cat. No. |
|---------|----|-----------|
| myPlate | 1 | 4.665 612 |



Magnetic stirrer SS151/CS151

Without heating. Stirrers with powerful magnets and motor for mixing large volumes. With LED display indicating the set and actual speed of the unit.

NEW

Stuart

- Spill-resistant front control panel with a chemically toughened glass for extra resilience
- With an integral fixing point for a retort rod
- With BioCote, silver-based, antimicrobial protection

Scope of supply: Stirrer, 2 x 25 mm PTFE coated stirring bars

Specifications

| | |
|--|------------------------------------|
| Max. stirring capacity (H ₂ O): | 15 l |
| Speed: | 50 ... 1400 rpm // 50 ... 1250 rpm |
| Permissible ambient temperature: | 5 ... 40 °C |
| Permissible relative humidity: | <80 % |
| Top plate dimensions (W x D): | 150 x 150 mm // 120 x 120 mm |
| Overall dimensions (W x D x H): | 180 x 300 x 93 mm |
| Weight: | 2.3 kg |
| Power supply: | 230 V, 50/60 Hz |

| Type | Material stirring surface | Colour housing | PK | Cat. No. |
|--------|---------------------------|----------------|----|-----------|
| SS151B | Aluminium, ceramic coated | Blue | 1 | 4.672 493 |
| SS151K | Aluminium, ceramic coated | Black | 1 | 4.672 494 |
| SS151W | Aluminium, ceramic coated | White | 1 | 4.672 495 |
| CS151B | Glass ceramic | Blue | 1 | 4.672 496 |
| CS151K | Glass ceramic | Black | 1 | 4.672 497 |
| CS151W | Glass ceramic | White | 1 | 4.672 498 |

4.672 495



4.672 497

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Magnetic stirrers / Hotplates/Without heating, with motor

1 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 250 rpm, encapsulated stainless steel housing, water-, dust-, germproof, IP 68, 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.
Please order control unit separately.

2mag



Specifications

Max. stirring quantity (H₂O): 5 l
 Speed: 5 ... 250 min⁻¹
 Permissible ambient temperature: -10 up to +50 °C at 100 % H.R. max.
 +50 °C submerged in water
 Housing: Stainless steel
 Protection class: IP 68

| Type | Stirring positions | Dimensions (W x D x H) | Weight | PK | Cat. No. |
|---------------|--------------------|------------------------|--------|----|-----------|
| | | mm | kg | | |
| bioMIXdrive 1 | 1 | 180 x 180 x 38 | 2.5 | 1 | 9.645 950 |
| bioMIXdrive 2 | 2 | 130 x 270 x 38 | 2.5 | 1 | 9.645 978 |
| bioMIXdrive 3 | 3 | 130 x 410 x 38 | 3.5 | 1 | 9.645 979 |
| bioMIXdrive 4 | 4 | 270 x 270 x 38 | 4.7 | 1 | 9.645 980 |

Control units for stirring drives bioMIXdrive

bioMIXcontrol
 Control unit for 1x bioMIXdrive 1/2/3/4, speed range 5 rpm to 250 rpm.

2mag

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, synchronous speed mode for all drives with one touch.



9.645 981

Specifications

Operation conditions: 0 ... 40 °C at 80 % H.R. max.
 Operating voltage: 100-240 V 50/60 Hz, 1.5 A
 Housing: Stainless steel
 Protection category: IP 20

| Type | PK | Cat. No. |
|--------------------|----|-----------|
| bioMIXcontrol | 1 | 9.645 951 |
| bioMIXcontrol S | 1 | 9.645 981 |
| bioMIXcontrol MS4* | 1 | 9.645 982 |

* only for bioMIXdrive 1



9.645 982

4 Magnetic stirrer MIX 1 XL

Wear-free 2mag motor drive, powerful, up to 40 liters, 70-2000 rpm, 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 95 % R.H. max.
 Housing: Stainless steel
 IP code: IP 64

| Type | PK | Cat. No. |
|----------|----|-----------|
| MIX 1 XL | 1 | 6.236 109 |

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.

IKA

- powerful motor for stirring quantities of up to 5l, 10l, or 15l (H₂O)
- raised control panel for protection against leaking liquids

Specifications

Magnetic stirrer

Stirring volume max. (H₂O)

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 (W x D x H)

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 | Plug type | PK | Cat. No. |
|-------------|-----------|----|--------------------|
| C-MAG MS 4 | EU | 1 | 9.720 493 1 |
| C-MAG MS 7 | EU | 1 | 9.720 494 2 |
| C-MAG MS 10 | EU | 1 | 9.720 495 3 |



9.720 493



9.720 494



9.720 495



4 Magnetic stirrer Hei-Mix L

Without heating. For heat-sensitive samples, because the top plate is insulated from the motor.

Heidolph

- Gentle and protective treatment of samples due to smooth start function
- Hermetically-sealed housing prevents corrosion and increases the service life of the unit
- When working with dry ice a robust thermal insulation prevents corrosion inside the housing which prohibits dripping of condensate on the electronic components
- Due to the Kera-Disk® ceramic coating, the top plate is chemical-resistant and scratch-proof

Specifications

Stirring quantity (H₂O): 20 l
 Speed range: 100 ... 1.400 rpm
 Permissible ambient temperature: 5 ... 31 °C
 Permissible relative moisture: 80 %
 Plate Material: Kera-Disk®
 Plate Dimensions (Ø): 145 mm
 Dimensions (W x D x H): 173 x 277 x 94 mm
 Weight: 2.9 kg
 Power supply: 230 V
 IP code: IP 32

| Type | PK | Cat. No. |
|-----------|----|-----------|
| Hei-Mix L | 1 | 9.720 137 |

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with motor

1 Multi-position Magnetic stirrer AMI 4, illuminated

Multi-position magnetic stirrer with illuminated stirring positions for stirring volumes up to 5 l per position. With epoxy-coated metal housing for protection against liquid spills.

Velp Scientifica

- 4 stirring positions
- Gentle start-up
- Illuminated stirring positions
- Electronic speed control up to 1100 min⁻¹
- Low height

Specifications

| | |
|--|-------------------------|
| Stirring volume each (H ₂ O): | 5 l |
| Motor rating: | 4.8 W |
| Speed (max.): | 1100 min ⁻¹ |
| Number of stirring positions: | 4 |
| Distance between stirring positions: | 150 mm |
| Display: | Analog |
| Dimensions (W x D x H): | 600 x 270 x 55 mm |
| Weight: | 4.0 kg |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| Warranty: | 3 years |



| Type | Plug type | PK | Cat. No. |
|-------|-----------|----|-----------|
| AMI 4 | EU | 1 | 4.666 685 |

2 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 ₂ 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 |



9.720 208



9.720 226

| Type | Stirring positions | Dimensions (W x D x H) | Weight | PK | Cat. No. |
|-------|--------------------|------------------------|--------|----|-----------|
| | | mm | kg | | |
| RO 5 | 5 | 120 x 570 x 60 | 3 | 1 | 9.720 208 |
| RO 10 | 10 | 190 x 570 x 60 | 5 | 1 | 9.720 222 |
| RO 15 | 15 | 280 x 570 x 60 | 7 | 1 | 9.720 226 |

4 Bath tanks for multi-position magnetic stirrers RO 15

NEW

| Type | Description | PK | Cat. No. |
|----------------|----------------------------------|----|-----------|
| IB R RO 15 pro | Stainless steel bath vessel | 1 | 4.672 783 |
| IB R RO 15 eco | Plastic bath vessel, max. 100 °C | 1 | 6.283 206 |



6.283 206



1 Magnetic stirrer LLG-uniSTIRRER 1

An **ultra-flat** inductive magnetic stirrer without heating with timer. The modern magnet coil technology consists only of non-moving parts and therefore guarantees a wear-free drive.

For a better mixing of samples it is possible to change the direction of rotation every 30 seconds.

- **Timer** (1 min to 99 min, 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
- Protection class IP 65
- Stainless steel surface

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

Specifications

| | |
|----------------------------------|-------------------------------|
| Stirring positions: | 1 |
| Stirring quantity (H:O): | 0.8 l |
| Speed range: | 15 ... 1500 min ⁻¹ |
| Permissible ambient temperature: | 5 ... 40 °C |
| Magnetic bar: | max. 25 mm |
| Display: | LED |
| Heating plate: | Ø 94 mm |
| Dimensions (W x D x H): | 110 x 155 x 12 mm |
| Weight: | 0.5 kg |
| Power supply: | 100 ... 230 V, 50/60 Hz |
| IP code: | IP 65 |
| Warranty: | 3 years |

| Type | Plug type | PK | Cat. No. |
|------------------|-----------|----|-----------|
| LLG-uniSTIRRER 1 | Universal | 1 | 6.263 420 |



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 it's 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
- lab disc white with white surface, lab disc stream and lab disc pattern with decorative surface

Specifications

| | |
|---|----------------------|
| Max. volume stirred (H ₂ O): | 0.8 l |
| 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 |
| Weight: | 0.3 kg |
| Permissible ambient temperature: | 5°C to 40°C |
| Permissible relative humidity: | 80% |
| IP code | IP 65 |
| Voltage/Frequency | 100V - 240V/50/60Hz |

| Type | Plug type | 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

Magnetic stirrer MIX 1 and MIX 1 eco 2mag

Wear-free inductive drive, powerful, up to 10liters, 100-2000 rpm, 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.

MIX 1 eco

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

Specifications

| | |
|--|---|
| <p>Max. volume stirred (H₂O): Motor rating input: Stirring positions: Speed range: Permissible ambient temperature: Permissible humidity: Display: Dimensions (W x D x H): Weight: IP code: Power supply:</p> | <p>MIX 1 // MIX 1 eco 10 l // 3 l 10 W // 20 W 1 100 ... 2000 // 120 ... 1400 min⁻¹ -10 ... 50 °C 80 % digital // analogue 188 x 238 x 38 mm // 120 x 120 x 35 mm 3.4 kg // 1.4 kg IP 65 115/230 V, 50/60 Hz</p> |
|--|---|



9.645 954



9.645 955

| Type | PK | Cat. No. |
|-----------|----|-----------|
| MIX 1 | 1 | 9.645 954 |
| MIX 1 eco | 1 | 9.645 955 |

3 Magnetic stirrer atexMIXdrive 1 with external control 2mag



Explosion protected. 1 stirring position with maintenance-free and wear-free inductive drive for powerful mixing of liquids. Jerk-free stirring even at low speed.

- Very robust construction, easy to clean, with maximum resistance
- Completely sealed housing made from stainless steel
- Magnetic stirrer is water- dust- and germproof
- Control unit atexMIXcontrol or atexMIXcontrol cleanroom with protection class IP65
- Magnetic stirrer submersible in water- or oil baths
- Suitable for use in CO₂ incubators and ovens
- Certified acc. to ATEX II 2G Ex mb IIC T4 Gb

The magnetic stirrer can only be used together with control unit atexMIXcontrol or atexMIXcontrol cleanroom, which have to be ordered separately. Magnetic stirrer, control unit and power supply are firmly connected to each other to ensure Ex protection.

Specifications

| | |
|--|---|
| <p>Max. volume stirred (H₂O) atexMIXdrive 1: Motor rating input: Stirring positions: Speed range: Permissible ambient temperature: Permissible humidity: Display: IP code:</p> | <p>10 l 20 W 1 100... 2000 min⁻¹ -10... 40 °C 100 % digital IP 68</p> |
|--|---|



| Type | PK | Cat. No. |
|--------------------------|----|-----------|
| atexMIXdrive 1 | 1 | 6.238 005 |
| atexMIXcontrol | 1 | 6.238 006 |
| atexMIXcontrol cleanroom | 1 | 9.646 000 |

* Control unit explosion protection zone 2.

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1 4-Position-Magnetic Stirrer LLG-uniSTIRRER 1/M4

An **Ultra-flat** inductive magnetic stirrer without heating with timer. The modern magnet coil technology consists only of non-moving parts and therefore guarantees a wear-free drive.

For a better mixing of samples it is possible to change the direction of rotation every 30 seconds.

- Max. stirring quantity per stirring position 400 ml
- **Timer** (1 to 99 min, 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

Scope of supply: magnetic stirrer, 1 mains adapter each US, AUS, UK, 1 stirring rod 25 x 8 mm

Specifications

| | |
|--------------------------------------|-------------------------------|
| Stirring positions: | 4 |
| Distance between Stirring positions: | 95 mm |
| Max. Stirring quantity (H:O): | 4 x 0.4 l = 1.6 l |
| Speed range: | 15 ... 1200 min ⁻¹ |
| Permissible ambient temperature: | 5 ... 40 °C |
| Magnetic bar: | max. 25 mm |
| Display: | LED |
| Heating plate (W x D): | 122 x 385 mm |
| Dimensions (W x D x H): | 126 x 457 x 13.5 mm |
| Weight: | 1.9 kg |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| IP code: | IP 65 |
| Warranty: | 3 years |

| Type | Plug type | PK | Cat. No. |
|---------------------|-----------|----|-----------|
| LLG-uniSTIRRER 1/M4 | EU | 1 | 6.263 425 |
| LLG-uniSTIRRER 1/M4 | UK | 1 | 6.263 426 |



2 Multi-position magnetic stirrers, Cimarec i Poly 15

Without heating. 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

| | |
|----------------------------------|-------------------------------|
| Max. stirring volume (H:O): | 3 l |
| Motor rating input: | 10 W |
| Stirring positions: | 15 |
| Speed range: | 130 ... 990 min ⁻¹ |
| Permissible ambient temperature: | -10 ... 40 °C |
| Permissible humidity: | 95 % |
| Display: | digital |
| Dimensions (W x D x H): | 240 x 420 x 35 mm |
| Weight: | 6 kg |
| IP code: | IP 32 |
| Power supply: | 115/230 V, 50/60 Hz |

| Type | PK | Cat. No. |
|-------------------|----|-----------|
| Cimarec i Poly 15 | 1 | 9.720 650 |

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Without heating, with induction

1 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 6 L x 1 L erlenmeyer flasks or 15 ml x 250 ml 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.

2mag



Specifications

| | |
|--|--------------------------------|
| Max. stirring volume (H ₂ O): | 3 l |
| Motor rating input: | 10 W |
| Stirring positions: | 15 |
| Speed range: | 120 ... 1200 min ⁻¹ |
| Permissible ambient temperature: | -10 ... 50 °C |
| Permissible humidity: | 80 % |
| Display: | digital |
| Dimensions (W x D x H): | 245 x 425 x 38 mm |
| Weight: | 7.7 kg |
| IP code: | IP 65 |
| Power supply: | 115/230 V, 50/60 Hz |

| Type | PK | Cat. No. |
|------------|----|-----------|
| MIX 15 eco | 1 | 9.645 958 |

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 250 ml (high form) or 8/12 x 600 ml beakers (high form). Digital stirring speed display and soft-start function. With 4 adjustable power level stirring speeds (5 W to 20 W). 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.

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Specifications

| | |
|---|--------------------------------|
| Max. volume stirred (H ₂ O): | 3 l |
| Motor rating input: | 20 W |
| Speed range Mix 6/15: | 100 ... 2000 min ⁻¹ |
| Speed range Mix 8 XL/Mix 12 XL | 100 ... 1600 min ⁻¹ |
| Permissible ambient temperature: | -10 ... 50 °C |
| Permissible humidity: | 80 % |
| Display: | digital |
| IP code: | IP 65 |
| Power supply: | 115/230 V, 50/60 Hz |

| Type | Stirring positions | Stirring centre distances | Dimensions (W x D x H) | Weight | PK | Cat. No. |
|-----------|--------------------|---------------------------|------------------------|--------|----|-----------|
| | | | | | | |
| MIX 6 | 6 | 130 | 245 x 425 x 38 | 7.6 | 1 | 9.645 956 |
| MIX 15 | 15 | 65 | 245 x 425 x 38 | 7.7 | 1 | 9.645 957 |
| MIX 8 XL | 8 | 90 | 185 x 420 x 38 | 6.4 | 1 | 9.646 026 |
| MIX 12 XL | 12 | 90 | 275 x 420 x 38 | 8.9 | 1 | 9.646 027 |



9.645 957



9.645 956

Magnetic stirrers and reaction blocks



- 🌀 100% wear- and maintenance-free
- 🌀 Submersible and heat resistant
- 🌀 Durable and sustainable

- 🌀 Individual configurations
- 🌀 3 years warranty
- 🌀 Made in Germany

www.2mag.de

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 1 L erlenmeyer flasks, 15-place models for up to 15 x 250 ml 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 10 W, high-power 20 W or ultra high-power 40W version. Preselectable mixing power. SoftStart. 3 years warranty. Made in Germany. **Please order control unit separately.**

2mag

Specifications

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

| Type | Stirring capacity | Stirring positions | Stirring centre distances | Dimensions (W x D x H) | Weight | PK | Cat. No. |
|-------------------|-------------------|--------------------|---------------------------|------------------------|--------|----|-----------|
| | l | | mm | mm | kg | | |
| MIXdrive 1 XS | 1.0 | 1 | | 48 x 48 x 18 | 0.23 | 1 | 9.645 985 |
| MIXdrive 1 XS HT | 1.0 | 1 | | 48 x 48 x 18 | 0.22 | 1 | 9.645 986 |
| MIXdrive 1 eco | 3.0 | 1 | | 120 x 120 x 35 | 1.40 | 1 | 9.645 961 |
| MIXdrive 1 eco HT | 3.0 | 1 | | 120 x 120 x 35 | 1.40 | 1 | 9.645 962 |
| MIXdrive 1 | 10.0 | 1 | | 180 x 180 x 38 | 3.20 | 1 | 9.645 959 |
| MIXdrive 1 HT | 10.0 | 1 | | 180 x 180 x 38 | 3.00 | 1 | 9.645 960 |
| MIXdrive 6 | 3.0 | 6 | 130 | 245 x 375 x 38 | 8.50 | 1 | 9.645 963 |
| MIXdrive 6 HT | 3.0 | 6 | 130 | 245 x 375 x 38 | 8.10 | 1 | 9.645 964 |
| MIXdrive 15 | 3.0 | 15 | 65 | 245 x 375 x 38 | 8.60 | 1 | 9.645 965 |
| MIXdrive 15 HT | 3.0 | 15 | 65 | 245 x 375 x 38 | 8.30 | 1 | 9.645 966 |
| MIXdrive 60 | 0.5 | 60 | 32 | 245 x 375 x 38 | 8.00 | 1 | 9.645 967 |
| MIXdrive 60 HT | 0.5 | 60 | 32 | 245 x 375 x 38 | 7.50 | 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 2 units.
MIXcontrol 20: Stainless steel housing, digital speed display, 4-step power setting, 20 watts.
MIXcontrol 40: Identical to MIXcontrol 20, but 10-step power setting, 40 watts, 2 sockets for MIXdrive stirres.

2mag

Specifications

Display: digital

| Type | Min. speed rpm | Max. speed rpm | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|------------------------------|----------------|----------------|---------------------------|-----------|----|-----------|
| MIXcontrol eco, with EU-plug | 120 | 1200 | 65 x 50 x 45 | 0.08 | 1 | 9.645 969 |
| MIXcontrol 20, with EU-plug | 100 | 1600 | 200 x 155 x 38 | 1.30 | 1 | 9.645 970 |
| MIXcontrol 40, with EU-plug | 100 | 2000 | 200 x 155 x 38 | 1.30 | 1 | 9.645 971 |

1



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9.645 971

1


1 Magnetic mini-stirrers topolino mobil

Mobile magnetic mini-stirrer for mixing quantities up to 250 ml for battery and mains operation.

IKA

- Durable, brushless motor
- Continuously adjustable speed range
- Portable operation with long operating time (8-12 h)
- Short charging time (2-3 h)
- Operation with standard replaceable AA rechargeable batteries and with supplied mains adapter

Specifications

| | |
|----------------------------------|-------------------------|
| Stirring quantity max. (H:O): | 250 ml |
| Speed range: | 300 ... 1800 rpm |
| Permissible ambient temperature: | 5 ... 40 °C |
| Permissible relative moisture: | 80 % |
| Material: | PP |
| Dimensions Top plate (Ø): | 80 mm |
| Dimensions (Ø x H): | 140 x 42 mm |
| Weight: | 0.6 kg |
| Power supply: | 100 ... 240 V, 50/60 Hz |
| IP code: | IP 21 |

| Type | PK | Cat. No. |
|----------------|----|-----------|
| Topolino mobil | 1 | 9.720 219 |

2


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 (H:O). Top plate 150 mm x 160 mm. Variable speed control with battery status indicator. ABS casing 70 mm high. Accessory adapters are available for use on 230V 50Hz mains or 12V vehicle supply using the cigar lighter socket.

Stuart

Specifications

| | |
|----------------------------------|----------------------------|
| Max. volume stirred (H:O): | 1.5 l |
| Stirring positions: | 1 |
| Speed range: | 0.. 1300 min ⁻¹ |
| Permissible ambient temperature: | 5.. 60 °C |
| Permissible humidity: | 80 % |
| Display: | analog |
| Dimensions (W x D x H): | 150 x 160 x 70 mm |
| Weight: | 1.3 kg |
| Power supply: | Battery |

| Type | PK | Cat. No. |
|------|----|-----------|
| SM27 | 1 | 9.950 408 |

3


3 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 100 rpm up to 1600 rpm, 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 12 V adapter cable for the operation at cigarette lighter car sockets.

2mag

Specifications

| | |
|----------------------------------|--------------------------------|
| Max. volume stirred (H:O): | 3 l |
| Motor rating input: | 10 W |
| Stirring positions: | 1 |
| Speed range: | 100 ... 1600 min ⁻¹ |
| Permissible ambient temperature: | -10 ... 50 °C |
| Permissible humidity: | 80 % |
| Display: | analog |
| Dimensions (W x D x H): | 215 x 130 x 40 mm |
| Weight: | 1.5 kg |
| IP code: | IP 30 |
| Power supply: | 8 x AA |

| Type | PK | Cat. No. |
|---------|----|-----------|
| accuMIX | 1 | 9.646 011 |

4. Stirring, Shaking, Mixing Magnetic stirrers / Hotplates/With heating and motor

1 2 Magnetic stirrer with heating LLG-uniSTIRRER 3, complete set

Universal 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 (IP 42) are integrated features. The included PT1000 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.

- 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
- Stainless steel surface
- **Delivered as complete set:** magnetic stirrer, sensor Pt1000, stand rod and sensor holder
- Integrated temperature control

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

1



Specifications

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

| Type | Plug type | PK | Cat. No. |
|------------------|-----------|----|-----------|
| LLG-uniSTIRRER 3 | EU | 1 | 6.263 410 |
| LLG-uniSTIRRER 3 | UK | 1 | 6.263 411 |

Accessories for LLG-uniSTIRRER 3/LLG-uniSTIRRER 5/LLG-uniSTIRRER 7

| Description | For | PK | Cat. No. |
|---|----------------------|----|-----------|
| Stand and sensor holder | LLG-uniSTIRRER 3 | 1 | 6.263 416 |
| Adjustment knob | LLG-uniSTIRRER 3 | 1 | 6.263 414 |
| Heating plate, stainless steel | LLG-uniSTIRRER 3 | 1 | 6.263 613 |
| Silicone Protective cover | LLG-uniSTIRRER 5 | 1 | 6.263 445 |
| PT1000 temperature sensor | LLG-uniSTIRRER 3/5/7 | 1 | 6.263 415 |
| PT1000-B temperature sensor, glass coated | LLG-uniSTIRRER 3/5/7 | 1 | 6.263 417 |

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