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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

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

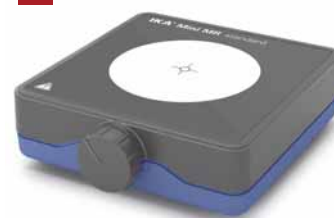
Without heating.

- 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

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

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.**



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 2mag

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



9.645 981

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.

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



9.645 982

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

4 Magnetic stirrer MIX 1 XL 2mag

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.



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

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

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

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: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

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.

2mag



9.645 954

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>
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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>
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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.

2mag

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.
		mm	mm	kg		
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



2



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

2





1 2 Magnetic stirrer with heating LLG-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 1 min to 99 h 59 min. 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 Ø 135 mm stainless steel plate with glass ceramic, suitable for the LLG-Universal reaction block systems.

- **Timer** (1 min to 99 h 59 min)
- Maintenance-free, brushless DC motor
- Stainless steel plate with glass ceramics coating
- Digital control and **backlit display**
- Stirrer and display can be controlled remotely via an RS232 interface
- Hot surface indicator
- Sturdy metal housing
- Powerful stirring
- Connection for PT1000, integrated control function

Scope of delivery: Magnetic stirrer with PT1000 probe, rod and holder

Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed:	100 ... 1500 min ⁻¹
Accuracy:	±1 min ⁻¹
Magnetic bar:	max. 80 mm
Display:	LCD
Heating plate:	Ø 135 mm
Permissible ambient temperature:	5 ... 40 °C
Temperature range:	RT ... 340 °C
Setting accuracy:	±0.1 °C
Control accuracy:	±0.2 °C
Heat output:	550 W
Safety temperature:	360 °C
Dimensions (W x D x H):	160 x 285 x 85 mm
Weight:	2.8 kg
Power supply:	200 ... 240 V, 50/60 Hz
IP code:	IP 42
Warranty:	3 years



Type	Plug type	PK	Cat. No.
LLG-uniSTIRRER 5	EU	1	6.263 440
LLG-uniSTIRRER 5	UK	1	6.263 441



3 LLG-Magnetic stirring bars, cylindrical, PTFE, *eco pack*

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

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

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

1 2 Magnetic stirrer with heating LLG-uniSTIRRER 7, 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. An integrated control function offers precise control of the heated fluid temperature via a remote PT1000 temperature probe. The device is equipped with a stainless steel plate with glass ceramic (184 x 184 mm).

- Maintenance-free, brushless DC motor
- Digital control and **backlit display**
- Stirrer and display can be controlled remotely via an RS232 interface
- Hot surface indicator
- Stainless steel plate with glass ceramic
- Sturdy metal housing
- Powerful stirring
- Connection for PT1000, integrated control function
- Mountable rod on the left and on the right side of the stirrer

Scope of delivery: Magnetic stirrer with PT1000 probe, rod and holder

Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed range:	100 ... 1500 min ⁻¹
Accuracy:	±1 min ⁻¹
Magnetic bar:	80 mm
Display:	LCD
Heating plate:	184 x 184 mm
Permissible ambient temperature:	5 ... 40 °C
Temperature range:	ambient ... 550 °C
Setting accuracy:	±0.1 °C
Control accuracy:	±0.2 °C
Heat output:	1000 W
Safety temperature:	580 °C
Dimensions (W x D x H):	215 x 360 x 112 mm
Weight:	5.3 kg
Power supply:	200 ... 240 V, 50/60 Hz
IP code:	IP 42
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniSTIRRER 7	EU	1	6.263 450
LLG-uniSTIRRER 7	UK	1	6.263 451



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

3 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.

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



➔ Universal reaction block system for magnetic stirrers please see page 475.

1

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
- Tested acc. to DIN EN IEC 61010-1

Scope of supply: magnetic stirrer, temperature sensor PT1000 , screwdriver, protective cover, C16 mains cable (H11)

2

Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed range:	50 ... 1500 min ⁻¹
Accuracy:	±1 min ⁻¹
Magnetic bar:	80 mm
Display:	LED
Heating plate:	Ø 135 mm
Permissible ambient temperature:	5 ... 40 °C
Temperature range:	ambient ... 310 °C
Setting accuracy:	±1 K
Control accuracy:	±2 K
Heat output:	600 W
Safety temperature:	50 ... 360 °C
Dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.5 kg
Power supply:	220 ... 230 V, 50/60 Hz
IP code:	IP 42
Warranty:	3 years

Type	Plug type	PK	Cat. No.
RCT Standard safety control incl. PT 1000	EU	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

3

3 Magnetic stirrer/hotplate RH basic 2

Low-priced, magnetic stirrer/hotplate, with heating, with stainless steel top plate.

IKA

Specifications

Stirring volume:	10L
Motor rating input/output:	15/2W
Speed indication:	Scale (0 to 6)
Speed range	100 to 2000rpm
Heating power:	400W
Heating rate (1 litre water):	3K/min
Temperature range:	Amb. to +320°C
Hotplate surface:	Stainless steel (AISI 304), 125mm dia.
Dimensions W x D x H:	168 x 220 x 105mm
Weight:	2.4kg
Protection class acc. to DIN EN 60529:	IP21
Supply requirement:	230V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
RH basic 2	EU	1	9.720 402

1 Magnetic stirrer ARE

Magnetic stirrer with aluminium heating plate for stirring speeds up to 1500 min⁻¹.

Velp Scientifica

- Suitable for stirring volumes of up to 20 l
- Operating temperature up to 370 °C
- Chemical- and scratch-resistant heating plate
- Electronic speed control for stable stirring speeds
- Torque compensation to keep the speed constant even on viscosity changes

Specifications

Volume (H ₂ O):	20 l
Power rating:	630 W
Speed (max.):	1500 min ⁻¹
Number of stirring positions:	1
Display:	Analog
Temperature range:	RT ... 370 °C
Stirring position material:	Aluminium
Stirring position:	Ø 155 mm
Dimensions (W x D x H):	165 x 280 x 115 mm
Weight:	2.6 kg
IP code:	IP 42
Power supply:	230 V, 50/60 Hz
Warranty:	3 years



Type	Plug type	PK	Cat. No.
ARE	EU	1	4.661 100

Magnetic stirrers RH basic/digital

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.

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

Specifications

Max. stirring quantity (H ₂ O):	15l
Motor rating input/output:	15/2 W
Speed range:	50... 2000 min ⁻¹
Speed display RH basic/RH digital:	scale/LED
Heat output:	600 W
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/ETS-D6:	±0.5K/±0.2 K
Set-up plate:	Stainless steel 1.4301, diam. 135 mm
Dimensions (W x D x H):	160 x 246 x 90 mm
Weight:	2.8 kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	220-240 V, 50/60 Hz

Type	Plug type	PK	Cat. No.
RH basic	EU	1	9.720 411
RH basic	UK	1	9.720 412
RH basic white	EU	1	9.720 417
RH digital	EU	1	9.720 414
RH digital white	EU	1	9.720 418

2

IKA



9.720 411

3



9.720 414

4



9.720 418

Magnetic stirrers SS/SD/SP/CS/CD/CP 152

With heating. Magnetic stirrers with strong magnets and powerful motor for mixing large volumes. The analog models have a LED display for the set and actual temperature of the device. With the digital models, the set and actual temperature is shown on the display, while the speed is indicated on the LED display. Stuart

- Spill-resistant front control panel with a chemically toughened glass for extra resilience
- Hot surface warning light flashes when plate temperature is above 50 °C
- With an integral fixing point for a retort rod
- With BioCote, silver-based, antimicrobial protection

SP152/CP152 additionally with:

- Full-colour 10-cm TFT screen which simultaneously displays target settings and the actual temperature
- Individual profiles can be created and saved
- User calibration for adjusting the temperature output ($\pm 5\%$ at 50 and 450 °C)
- Incl. Pt100 Temperature sensor

Specifications

Maximum Stirring Capacity:	15 l
Display resolution:	1 °C
Accuracy:	± 1 °C
Plate Dimensions:	150 x 150 mm
Dimensions (W x D x H):	180 x 300 x 93 mm
Weight:	2.9 kg
Power supply:	230 V, 50/60 Hz
Warranty:	3 years



4.672 505



4.672 580



4.672 522



4.672 585

Magnetic stirrer SS152/SD152 /SP152

NEW

Durable chip-resistant aluminum top plate offers excellent heat transmission, rapid heating, and oven temperature distribution Stuart

Specifications

Plate Material:	Aluminium, ceramic coated
Heated Area:	150 x 150 mm
Heater Power:	700 W
Max plate temp:	325 °C
Stirrer Speed:	50 ... 1400 rpm

Type	Colour housing	Display type	PK	Cat. No.
SS152B	Blue	Analogue	1	4.672 505 1
SS152K	Black	Analogue	1	4.672 506
SS152W	White	Analogue	1	4.672 507
SD152B	Blue	Digital	1	4.672 517
SD152K	Black	Digital	1	4.672 518
SD152W	White	Digital	1	4.672 519
SP152B	Blue	Digital	1	4.672 579
SP152W	Black	Digital	1	4.672 580 2
SP152K	White	Digital	1	4.672 581
SP152P	Pink	Digital	1	4.672 582

Magnetic stirrers CS152/CD152 /CP152

NEW

Ceramic top plate is chemical resistant and easy to clean, plus the white surface ensures good visibility of colour changes. Stuart

Specification

Plate Material:	Glass ceramic
Heated Area:	120 x 120 mm
Heater Power:	500 W
Max plate temp:	450 °C
Stirrer Speed:	50 ... 1250 rpm

Type	Colour housing	Display type	PK	Cat. No.
CS152B	Blue	Analogue	1	4.672 508
CS152K	Black	Analogue	1	4.672 509
CS152W	White	Analogue	1	4.672 510
CD152B	Blue	Digital	1	4.672 520
CD152K	Black	Digital	1	4.672 521
CD152W	White	Digital	1	4.672 522 3
CP152B	Blue	Digital	1	4.672 583
CP152W	Black	Digital	1	4.672 584
CP152K	White	Digital	1	4.672 585 4
CP152P	Pink	Digital	1	4.672 586

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/With heating and motor

Magnetic stirrer C-MAG HS 4/C-MAG HS 7/C-MAG HS 10

With heating. Ceramic hotplate which offers excellent chemical resistance.
 - powerful motor for stirring quantities of up to 5L, 10L or 15L (H₂O).

IKA

- fixed safety circuit of 550°C
- Hot Top indicator - hot surface warning to prevent burns
- exact temperature setting via digital display (LED)
- digital error code display
- elevated control panel for protection against spilled liquids

C-MAG HS 7 and C-MAG HS 10:

Connection acc. to DIN 12878 for attaching a contact thermometer, e.g. ETS-D5; enables precise temperature control.

Specifications

Magnetic stirrer

Stirring quantity (H₂O):
 Motor rating input/output:
 Speed range:
 Speed display:

HS4 // HS7 // HS10

5 l // 10 l // 15 l
 15/1.5W
 100 ... 1500rpm
 scale

Heating function

Temperature display:
 Heat output:
 Heating rate (1 l H₂O):
 Heating temperature range:
 Heat control accuracy:
 Fixed safety circuit:
 Control accuracy with sensor
 C-MAG HS 4:
 C-MAG HS 7/HS 10:

digital
 250W // 1000W // 1500W
 2.5 K/min // 5 K/min // 5 K/min
 50 ... 500°C
 ±10K
 550°C
 -
 ETS-D5/±0.5K

Top plate

Material:
 Dimensions:
 Protection class according to DIN EN 60529:

glass ceramic
 100 x 100mm // 180 x 180mm // 260 x 260mm
 IP21

1



9.720 490

2



9.720 491

3



9.720 492

Type	Plug type	PK	Cat. No.
C-MAG HS 4	EU	1	9.720 490
C-MAG HS 4	UK	1	4.008 087
C-MAG HS 7	EU	1	9.720 491
C-MAG HS 7	UK	1	4.008 090
C-MAG HS 10	EU	1	9.720 492
C-MAG HS 10	UK	1	4.008 093

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

Specifications

Max. volume stirred (H₂O):
 Motor rating input:
 Motor rating output:
 Stirring positions:
 Speed range:
 Permissible ambient temperature:
 Permissible humidity:
 Display:
 Plate (W x D):
 Dimensions (W x D x H):
 Weight:
 IP code:
 Power supply:

10 l
 15 W
 2 W
 1
 100... 1500 min⁻¹
 5... 40 °C
 80 %
 digital
 180 x 180 mm
 220 x 330 x 105 mm
 5 kg
 IP 21
 230/120/100 V, 50/60 Hz

4



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

Magnetic stirrer AREX-6 Connect PRO

Magnetic stirrer with ceramic-coated aluminium heating plate, stirring speeds up to 1700 min⁻¹, timer and PT100 temperature sensor. **With WiFi connection to the VELP Ermes Cloud Platform for uploading, managing, monitoring and exchanging results and parameters.** Access to the device is possible via PC, Smartphone and Tablet.

Velp Scientifica

Equipped with extensive safety functions: independent safety circuits protect the device in case of overtemperature, adjustable temperature limitation, warning in case of hot surface, protection against unattended heating as well as alarm and switch-off function if the temperature sensor is not immersed in the medium.

- Suitable for stirring volumes up to 20 l
- Powerful, brushless motor
- Torque compensation to keep the speed constant even on viscosity changes
- Reverse of stirring direction
- Resistant housing made of die-cast
- Chemical- and scratch-resistant heating plate
- Gentle start of the stirrer
- Temperature control via software up to 370 °C
- All settings configurable on menu
- Clear display of all parameters
- Software updates by WiFi

Scope of delivery AREX-6 Connect PRO: Magnetic stirrer AREX-6 Connect PRO, PT100 temperature sensor

Scope of delivery AREX-6 Connect PRO Set: Magnetic stirrer AREX-6 Connect PRO, PT100 temperature sensor, support rod, clamp for the temperature sensor

Specifications

Volume (H ₂ O):	20 l
Motor rating:	630 W
Speed range:	30 ... 1700 min ⁻¹
Speed accuracy:	5 min ⁻¹
Number of stirring positions:	1
Display:	Digital
Temperature range:	RT ... 370 °C
Temperature accuracy:	±1 °C
Stirring position material:	Aluminium, ceramic coated
Stirring position:	Ø 135 mm
Permissible ambient temperature:	5 ... 40 °C
Dimensions (W x D x H):	160 x 280 x 105 mm
Weight:	2.6 kg
IP code:	IP 42
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
AREX-6 Connect PRO	EU	1	4.666 720
AREX-6 Connect PRO Set	EU	1	4.666 733



4.666 720

Magnetic Stirrers MR Hei-PLATE

The Hei-PLATE series with heating consists of models Hei-Standard, Hei-Tec and Hei-Connect.

Heidolph

- The chemically resistant KeraDisk® hot plate allows for immediate heat transfer resulting in quick heat-up times
- In case the heating function fails, stirring will not be discontinued to prevent bumping
- A separate on/off button for heating prevents unintentional heat-up
- With fire-resistant aluminum die-cast housing, which prevents the stirrer from damage, even if exposed to highest temperatures
- In case of a short-circuit, damage to the temperature sensor or disorder of the process, the unit powers off completely
- The temperature sensor consists of two independent safety circuits which switches off heating in case of any overtemperature situation
- Hermetically-sealed housing protects all mechanical and electronic components from aggressive environments
- With connection for optional temperature sensor Pt 1000

Hei-Tec and Hei-Connect additionally with:

- Digital display enables full process monitoring and precise setting of all parameters.
- This unit features a digital display and allows for easy setting and monitoring of values in the illuminated readout
- An illuminated button indicates clearly if the stirring mode is activated
- Precise adjustment of the desired hotplate temperature by turn-push-button
- Overheating protection by a safety circuit that switches off heating if the temperature sensor is not immersed in the media vessel

Specifications

Stirring quantity (H ₂ O):	20 l
Speed range:	100 ... 1400 rpm
Heating power:	800 W
Temperature range:	20 ... 300 °C
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
Warranty:	3 years

1



9.720 201

2



6.256 440

3



1 Magnetic stirring hotplates MR Hei-Standard

Model for standard applications without temperature sensor.

Heidolph

Type	Plug type	PK	Cat. No.
MR Hei-Standard EU	EU	1	9.720 201
MR Hei-Standard UK	UK	1	6.263 289

Magnetic stirring hotplates MR Hei-Tec

Precise adjustment and monitoring of device parameters via digital display.

Heidolph

Type	Plug type	PK	Cat. No.
MR Hei-Tec with Pt 1000	EU	1	6.256 440
MR Hei-Tec, stirrer only	EU	1	9.720 145
MR Hei-Tec, stirrer only	UK	1	6.240 766

3 Packages Magnetic stirrers MR Hei-PLATE

Package Hei-PLATE Silver 1

Heidolph

- Magnetic Stirrer MR Hei-Tec
- Temperature sensor Pt 1000
- Support rod for Pt 1000
- Clamp for Pt 1000

Type	PK	Cat. No.
Package MR Hei-PLATE Silver 1	1	6.256 441



6.312 903

Magnetic stirrers Guardian 7000

NEW
OHAUS

The durable Hotplate Stirrers are designed with outstanding safety features and superior heating and mixing performance.

- SmartRate™ enables to select fast or slow temperature and speed ramp rates
- SmartHousing™ stays cool to the touch and is chemical-resistant
- SmartHeat™ safely controls and monitors the maximum temperature
- SafetyHeat™ assures safety in heating applications with dual monitoring of system health
- SmartLink™ turns off heating function if Bluetooth® link is broken
- SmartPresence™ turns off heating function if users are not recognised nearby

Scope of supply: Magnetic stirrer, temperature sensor, in use cover



6.312 905

Specifications

Speed:	60 ... 1600 rpm
Timer:	1 min ... 99 h 59 min
Permissible ambient conditions:	5 ... 40 °C
Power supply:	230 V, 50/60 Hz

Type	Stirring capacity	Temp. range	Material stirring surface	Plate dimensions	Dimensions (W x D x H)	PK	Cat. No.
	l	°C		mm	mm		
e-G71HS07C	15	ambient +5 ... 500	Ceramic	178 x 178	223 x 309 x 122	1	6.312 903
e-G71HS10C	18	ambient +5 ... 500	Ceramic	254 x 254	286 x 415 x 122	1	6.312 904
e-G71HSRDM	20	ambient +5 ... 380	Aluminium	Ø 135	173 x 267 x 126	1	6.312 905



Magnetic stirrer IKA Plate (RCT digital)

IKA

With glass surface. The control can be optimized by regular firmware updates. The integrated timer and counter function supports the control of kinetics and sensitive reactions. The IKA SmartTemp® function protects users intelligently and predictably.

- Alteration of the stirring direction possible
- Heating plate made of aluminium alloy for optimum heat transmission
- Clearly arranged LCD display
- Housing made of glass for optimum cleaning and chemical resistance
- Temperature control directly in the medium with PT 1000 temperature sensor
- Adjustable safety circuit up to 360 °C
- IKA SmartTemp® function prevents users from burn injuries
- Timer
- USB-/RS232 interface
- 10 years warranty

Scope of supply: Magnetic stirrer incl. Temperature sensor PT1000

Specifications

Max. stirring quantity (H ₂ O):	20 l
Motor rating input/output:	50 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heating power:	600 W
Heating rate (1 l H ₂ O):	7 K/min
Temperature range:	ambient +10 to 310 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	50 to 360 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	Aluminium alloy
Set-up plate Dimensions:	diam. 135 mm
Protection class acc. to DIN EN 60529:	IP 42
Overall dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.4 kg
Power supply:	220-230/115/100 V, 50/60 Hz

Type	PK	Cat. No.
RCT digital	1	6.286 692

1 Magnetic stirrer RCT 5 digital



1

Powerful Magnetic stirrer with glass surface for demanding stirring tasks. The stirring process can be programmed individually from beginning to end and so the reaction runs reliably and safely even without monitoring.

- Alteration of the stirring direction is possible
- Timer functions or sequence programming is adjustable
- Set-up plate made of white, scratch-resistant ceramic coating
- Warning in case of a hot surface
- Adjustable safety circuit up to 370 °C
- USB-/RS232 interface

Specifications

Max. stirring quantity (H ₂ O):	20 l
Motor rating input/output:	50 W/9 W
Speed range:	50 ... 1500 rpm
Max. stirring bar length:	80 mm
Heating power:	850 W
Heating rate (1 l H ₂ O):	7.5 K/min
Temperature range:	ambient +13 to 310 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	50 ... 370 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	Aluminium, ceramic coating
Set-up plate Dimensions:	137 x 137 mm
Overall dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.6 kg
IP code acc. to DIN EN 60529:	IP 42
Power supply:	220-230/115/100 V, 50/60 Hz



Type	Plug type	PK	Cat. No.
RCT 5 digital	EU	1	4.669 085

2 Magnetic stirrer C-MAG HS 7 control

IKA

2

The magnetic stirrer C-Mag HS 7 control has a square top made of ceramic which offers excellent chemical resistance. The C-Mag HS 7 control improves over time with regular firmware updates. Control of kinetics and sensitive reactions are supported by the integrated timer and counter function.

- Alteration of the stirring direction possible
- Clearly arranged LCD display
- Temperature control directly in the media with PT1000 temperature sensor
- Adjustable safety circuit up to 650 °C
- IKA SmartTemp® hot surface warning to prevent burns
- Elevated control panel for protection against leaking liquids
- Timer
- USB/RS232 interface
- 10 years warranty

Scope of supply: Magnetic stirrer incl. Temperature sensor PT1000

Specifications

Max. stirring quantity (H ₂ O):	20 l
Motor rating input/output:	20 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heat output:	1000 W
Heating rate (1l H ₂ O):	5 K/min
Temperature range:	ambient + 5 to 500 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	100 to 650 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	ceramic
Set-up plate Dimensions (W x D):	180 x 180 mm
Protection class acc. to DIN EN 60529:	IP 21
Overall dimensions (W x D x H):	220 x 354 x 88 mm
Weight:	4 kg
Power supply:	220-230/115/100 V, 50/60 Hz



Type	PK	Cat. No.
C-MAG HS 7 control	1	6.288 285


1
1 2 Magnetic stirrer/hotplates, RET basic

Wide speed range from 0/50 to 1700rpm. Integrated temperature control. Incl. PT 1000 temperature sensor (PT 1000.60). Exact temperature and speed setting via digital display, even when switched off. Set safety temperature limit displayed digitally. Hot Top indicator: hot surface warning to prevent burns. Digital error code display.

IKA

- With adjustable safety circuit of heating plate temperature (50 to 380°C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control
- High level of safety thanks to improved heat control technology
- Enclosed assembly (IP 42) guarantees long service life
- Very broad temperature range (RT to 340°C)
- Extremely fast heating times
- Electronic speed control
- High magnetic adhesion
- Incl. protection cover H 100


2
Specifications
Magnetic stirring:

Volume stirred (water):	20L
Motor rating input/output:	16/9W
Speed adjustment:	Dial
Speed range:	50 to 1700 rpm
Maximum magnetic stirrer bar (L x dia.):	80 x 10 mm

Heating

Heat output:	600W
Heating rate (1 l H ₂ O in H15):	7 K/min
Temperature range:	Amb. to 340 °C
Accuracy:	±1 K
Speed control:	stepless
Adjustable safety circuit:	min 50 °C max 360 °C
Connection for ext. temperature sensor:	DIN 12 878
Control accuracy with temp. probe:	PT 1000/ ±1 K ETS-D 5/ ±0.5 K
Hotplate material:	Stainless steel
Dimensions:	dia. 135 mm
Dimensions (W x D x H):	160 x 270 x 95 mm
Weight:	2.5 kg
Protection system to DIN EN 60529:	IP 42
Tested to DIN EN IEC 61010-1.	
Supply requirements:	230 V 50/60 Hz

Type	Plug type	PK	Cat. No.
RET® basic control-visc	EU	1	9.720 248
RET® basic control-visc	UK	1	4.008 113

Optional Accessories: Electronic contact thermometer: ETS-D5, IKAFLON®- Stirring bars, TRIKA®-Stirring bars, RS 1 Set of stirring bars, RSE Stirring bar remover, Protection cover H 100, Temperatur sensors: PT 1000.60, PT 1000.70

Overall accessories for IKA magnetic stirrers

IKA

Type	For model	Description	PK	Cat. No.
PT 1000.60	RCT basic, RET basic, C-MAG HS digital	Temperature sensor, 230 mm	1	6.229 702
PT 1000.70	RCT basic, RET basic, C-MAG HS digital	Temperature sensor, glass-coated	1	6.231 283
PT 1000.80	RCT basic, RET basic, C-MAG HS digital	Temperature sensor, 150 mm	1	9.720 352
H 104	RET control	Protective cover	1	9.910 338
H 29	RET, RCT	Oil bath attachment, i. d. : 136 - 180 mm, H: 81 mm, Vol. : 1 l	1	7.017 796
H 30	RET, RCT	Oil bath attachment, i. d. : 136 - 190 mm, H: 110 mm, Vol. : 1.5 l	1	7.017 797

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

Electronic Contact thermometer ETS-D5/ETS-D6

3 possible operation modes guarantee optimum adjustment to your application:

Operating mode A: Suitable for work with varying parameters (from -50°C to 450°C).

Adjustable safety temperature

Operating mode B: Suitable for repeated operation under uniform conditions and parameters

Operating mode C: Suitable for unsupervised operation

- with optimised PID control
- reset function
- includes stainless steel sensor probe H 62.51
- for all magnetic stirrers with a DIN 12878 class 2 contact thermometer connection, e.g. IKA®, Heidolph and Corning with adapter AD-C1.

ETS-D6 additionally with integrated pH measuring instrument (without pH electrode) and large, graphic LCD display with multilingual user guide.

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
ETS-D6	96 x 45 x 98	1	9.720 242



9.720 241



9.720 242

3 Multiposition magnetic stirrer with heating Multi-HS digital



For synchronous stirring and heating at homogeneous temperatures up to 120°C.

Velp Scientifica

- CerAlTop™ plate - easy cleaning and maximum resistance
- Brushless motor guarantees constant speed
- SpeedServo™ technology maintains speed constant when viscosity changes
- Digital interface with icons
- Integral timer
- Programmable auto-reverse of the stirring direction
- Safe hot plate warnings when the plate temperature is above 50°C
- The Lock feature prevents unintentional changes

Specifications

Max. stirring quantity per stirring position (H ₂ O):	Multi-HS 6 // Multi-HS 15 400 ml // 250 ml
Number of stirring positions:	6 // 15
Temperature range:	0 ... 120 °C
Speed range:	100 ... 1000 min ⁻¹
Timer:	1 min ... 99 h : 59 min
Plate dimension:	223 x 432 mm
Distance between stirring positions:	100 mm // 74 mm
Dimensions (W x D x H):	240 x 550 x 65 mm
Weight:	4.7 kg // 4.8 kg
Power rating:	620 W
Heating output:	600 W
Power supply:	230 V/50 ... 60 Hz



Type	PK	Cat. No.
Multi-HS 6	1	4.678 195
Multi-HS 15	1	4.678 196

1 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

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 (W x D):	3 x 160 x 160 mm
Dimensions (W x D x H):	600 x 270 x 110mm
Weight:	11kg
Power supply:	230V, 50Hz
IP code:	IP 32

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



2 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



9.720 603

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

Type	Stirring positions	Dimensions (W x D x H)	Plug type	Weight	PK	Cat. No.
		mm		kg		
RT 5	5	120 x 610 x 60	EU	4.0	1	9.720 603
RT 5	5	120 x 610 x 60	UK	4.0	1	9.720 604
RT 5	5	120 x 610 x 60	CH	4.0	1	9.720 605
RT 10	10	190 x 610 x 60	EU	7.5	1	9.720 606
RT 10	10	190 x 610 x 60	UK	7.5	1	9.720 607
RT 10	10	190 x 610 x 60	CH	7.5	1	9.720 608
RT 15	15	280 x 610 x 60	EU	10.5	1	9.720 609
RT 15	15	280 x 610 x 60	UK	10.5	1	9.720 610
RT 15	15	280 x 610 x 60	CH	10.5	1	9.720 611



9.720 609

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, with this system, oil as a heat transfer media is made redundant and your lab is a safer place. 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
Adapter plate for rectangular hotplates, for attachment 1000 and 2000ml	1	9.728 900
2 spare screws (countersunk), for attachment 1000 and 2000ml	1	9.728 901



4 LLG-Magnetic stirring bars, cylindrical, PTFE, *eco pack*

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

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



4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars



1 Magnetic stirring bars, PTFE, cylindrical

BRAND



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

Diam. mm	Length mm	PK	Cat. No.
2.5	2.5	1	9.197 502
3.5	3.5	1	9.197 505
2.0	5.0	1	9.197 503
3.0	6.0	1	9.197 506
2.0	7.0	1	9.197 504
3.0	8.0	1	9.197 509
3.0	10.0	1	9.197 507
6.0	10.0	1	9.197 510
4.5	12.0	1	9.197 512
3.0	13.0	1	9.197 508
6.0	15.0	1	9.197 515
4.5	15.0	1	9.197 514
6.0	20.0	1	9.197 520
6.0	25.0	1	9.197 525
6.0	30.0	1	9.197 530
6.0	35.0	1	9.197 535
8.0	40.0	1	9.197 540
8.0	45.0	1	9.197 545
8.0	50.0	1	9.197 550
9.0	60.0	1	9.197 560
9.0	70.0	1	9.197 570
9.0	80.0	1	9.197 580
27.0	108.0 *	1	7.019 622
27.0	159.0 *	1	7.019 623

* flattened sides



6.267 317

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

Both sets with a deep insert for easier removal and sorting of the stirring bars.



6.267 318

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



4 Magnetic stirring bars, triangular, PTFE

BRAND

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.

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

4. Stirring, Shaking, Mixing

Magnetic stirrers / Hotplates/Accessories, Magnetic stirring bars

1 Magnetic stirring bars ASTEROID, triangular, PTFE



2mag



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.

Diam. mm	Length mm	PK	Cat. No.
12	25	1	9.646 057
32	40	1	9.646 040
39	70	1	9.646 058

2 Magnetic stirring bars, oval, PTFE

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

BOLA

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



3 Magnetic stirring bars, PTFE, oval

For vessels with round bottom.

BRAND

Diam. mm	Length mm	PK	Cat. No.
5	10	1	7.019 637
6	15	1	7.019 638
10	20	1	6.072 442
12	25	1	6.073 271
15	32	1	6.072 441
15	34	1	4.667 792
20	40	1	4.667 793
20	50	1	4.667 794
20	65	1	9.197 596
20	70	1	9.197 597

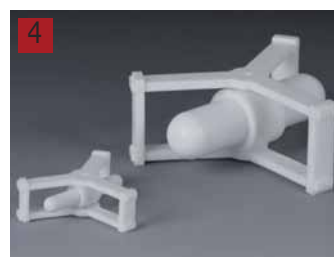


4 Magnetic Stirring Beakerliner, PTFE

PTFE-encapsulated magnetic core (Alnico 5) axially mounted in a guide cage made of PTFE, universal chemical resistance. No shear action on the bottom of the beaker, smooth running in glass beakers also on an uneven bottom. The cage acts like a baffel and thus provides optimum mixing results.

BOLA

For beaker ml	Ext. diam. mm	Height mm	Length mm	Diam. mm	PK	Cat. No.
400	67	21	50	8	1	9.197 585
600	74	28	60	9	1	9.197 586
2000	103	32	80	10	1	9.197 587
3000, 5000	125	48	106	25	1	9.197 588



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.

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



1 2 Overhead stirrer LLG-uniSTIRRER OH2, digital

Cost-effective laboratory stirrer designed for simple stirring tasks for quantities up to 20 l (H₂O). Automatic speed adjustment in the range between 50 and 2200 min⁻¹ via microprocessor-controlled technology. Safety circuits ensure automatic cut-off in an anti-stall or overload situation. Actual and set speed are constantly monitored ensuring no undesired speed variations, even if the sample viscosity changes.

- Brushless, maintenance-free motor
- Digital speed display
- **Display for speed or torque changeable**
- Infinitely adjustable speed
- **Overload protection**
- Non-slippery mat
- Slim casing
- Quiet operation
- Error code display
- RS232 port

Stand:

Stainless steel stand incl. boss head, dimension (W x D x H): 200 x 310 x 780 mm, non-slippery mat

Stirrer:

4-blade propeller stirrer, stainless steel, shaft length 400 mm, stirrer diameter 50 mm

Scope of supply: Overhead stirrer LLG-uniSTIRRER OH2, stand, non-slippery mat and 4-blade-propeller stirrer

Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed range:	50 ... 2.200 min ⁻¹
Max. viscosity:	10.000 mPas
Motor rating input/output:	60/50 W
Speed display accuracy:	±3 min ⁻¹
Max. torque at stirring shaft:	40 Ncm
Display:	LCD
Chuck range:	0.5 ... 10 mm
Dimensions (W x D x H):	83 x 186 x 220 mm
Power supply:	110 ... 240 V, 50/60 Hz
IP code:	IP 21
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniSTIRRER OH2	EU	1	6.263 455
LLG-uniSTIRRER OH2	UK	1	6.263 456

Accessories for Overhead stirrer LLG-uniSTIRRER OH2

Description	PK	Cat. No.
4-blade propeller stirrer, diam. 50, shaft diam. 8, 400 mm	1	6.263 454
2-blade propeller stirrer, diam. 60, shaft diam. 8, 400 mm	1	6.263 457
3-hole paddle stirrer, diam. 67, shaft diam. 8, 400 mm	1	6.263 458
2-blade centrifugal stirrer, diam. 80, shaft diam. 8, 400 mm	1	6.263 459
Spare boss head	1	6.263 453
Replacement power adapter	1	6.263 452



1 Overhead Stirrer Nanostar 7.5 digital



1

This powerful overhead stirrer convinces with perfect basic functionalities. It has a compact, space-saving design and is easy-to-use.

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty



Specifications

Stirring quantity max. (H ₂ O):	5 l
Max. viscosity:	4000 mPas
Motor rating input/output:	32 W/22 W
Speed range:	0/50 ... 2000 rpm
Max. torque:	7.5 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	53 x 130 x 147 mm
Weight:	0.8 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
Nanostar 7.5 digital	1	6.311 510

Overhead Stirrers MICROSTAR Digital

2

These powerful overhead stirrers convince with perfect basic functionalities. They have a compact, space-saving design and are easy-to-use.

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty



6.274 940

Specifications

	7.5 digital // 15 digital // 30 digital
Stirring quantity max. (H ₂ O):	5 l // 10 l // 20 l
Max. viscosity:	4000 mPas // 8000 mPas // 20000 mPas
Motor rating input/output:	32 W/22 W
Speed range:	0/50 ... 2000 rpm // 0/50 ... 1000 rpm // 0/50 ... 500 rpm
Max. torque:	7.5 Ncm // 15 Ncm // 30 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	60 x 126 x 173 mm
Weight:	1.18 kg // 1.26 kg // 1.26 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MICROSTAR digital 7.5	1	4.665 208
MICROSTAR digital 15	1	6.313 057
MICROSTAR digital 30	1	6.274 940

1


4.665 663

Overhead Stirrers MINISTAR Digital

These powerful overhead stirrers convince with perfect basic functionalities. They have a compact, space-saving design and are easy-to-use.

IKA

- Operation via a stable rotary knob
- Hardened glass display for maximum visibility and chemical resistance
- Display clearly shows the rotational speed
- Regular software updates can be made rapidly and simply via the USB interface
- Chemical resistant housing
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity
- 10 years warranty

Specifications

Stirring quantity max. (H ₂ O):	20 digital // 40 digital // 80 digital 15 l // 25 l // 50 l
Max. viscosity:	10000 mPas // 30000 mPas // 60000 mPas
Motor rating input/output:	60 W/46 W
Speed range:	0/50 ... 2000 rpm // 0/50 ... 1000 rpm // 0/50 ... 500 rpm
Max. torque:	20 Ncm // 40 Ncm // 80 Ncm
Display:	LED
Chuck range:	0.5 ... 8 mm
Dimensions (W x D x H):	70 x 147 x 193 mm
Weight:	1.56 kg // 1.72 kg // 1.72 kg
Protection class DIN EN 60529:	IP 54
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MINISTAR 20 digital	1	7.983 353
MINISTAR 40 digital	1	4.665 663
MINISTAR 80 digital	1	7.983 354

2


2 Overhead stirrer EUROSTAR 20 digital

Overhead stirrer designed for simple stirring tasks for quantities up to 15 l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000 rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation

Specifications

Stirring quantity max. (H ₂ O):	15 l
Max. viscosity:	10000 mPas
Motor rating input/output:	70/42 W
Speed range:	0/30 to 2000 rpm
Max. torque at stirring shaft:	20 Ncm
Display:	LED
Chuck range:	0.5 to 10 mm
Dimensions (W x D x H):	86 x 208 x 248 mm
Weight:	4.4 kg
Protection class DIN EN 60529:	IP 42
Power supply:	230 V, 50/60 Hz

Type	Connector	PK	Cat. No.
EUROSTAR 20 digital	EU	1	9.816 691
EUROSTAR 20 digital	UK	1	9.816 692
EUROSTAR 20 digital	CH	1	9.816 693

1 Overhead stirrer EUROSTAR 40 digital

Universal laboratory stirrer designed for simple stirring tasks for quantities up to 25l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation

Specifications

Stirring quantity max. (H ₂ O):	25l
Max. viscosity:	30000mPas
Motor rating input/output:	118/84W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	40Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (W x D x H):	86 x 208 x 248mm
Weight:	4.4 kg
Protection class DIN EN 60529:	IP 42
Power supply:	230V, 50/60Hz

Type	Plug type	PK	Cat. No.
EUROSTAR 40 digital	EU	1	9.816 697
EUROSTAR 40 digital S 2	UK	1	9.816 698
EUROSTAR 40 digital S 3	CH	1	9.816 699

1



2 Overhead stirrer EUROSTAR 60 digital

Universally used strong overhead stirrer for quantities up to 40l (H₂O). It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/30 to 2000rpm. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

IKA

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	40l
Max. viscosity:	50000mPas
Motor rating input/output:	176/126 W
Speed range:	0/30 to 2000rpm
Max. torque at stirring shaft:	60Ncm
Display:	LED
Chuck range:	0.5 to 10mm
Dimensions (W x D x H):	86 x 208 x 248mm
Protection class DIN EN 60529:	IP 42
Power supply:	230V, 50/60Hz

Type	Plug type	PK	Cat. No.
EUROSTAR 60 digital	EU	1	9.816 700
EUROSTAR 60 digital S 2	UK	1	9.816 701
EUROSTAR 60 digital S 3	CH	1	9.816 702

2



➔ Accessories for the IKA overhead stirrers please see page 490

1


1 Overhead stirrer EUROSTAR 100 digital

NEW

IKA

Powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 100 l (H₂O). It automatically adjusts the speed through microprocessor controlled technology. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

Specifications

Stirring quantity max. (H ₂ O):	100 l
Max. viscosity:	70000 mPas
Motor rating input/output:	186/136 W
Speed range:	0/30 ... 1300 rpm
Max. torque at stirring shaft:	100 Ncm
Display:	LED
Chuck range:	0.5 ... 10 mm
Protection class DIN EN 60529:	IP 42
Power supply:	230 V, 50/60 Hz

Type	Dimensions (W x D x H) mm	Plug type	PK	Cat. No.
EUROSTAR 100 digital	86 x 208 x 248	EU	1	9.816 706
EUROSTAR 100 digital S 2	86 x 208 x 248	UK	1	9.816 707
EUROSTAR 100 digital S 3	86 x 208 x 248	CH	1	9.816 708

2


2 Overhead stirrer OHS 200 Digital

Velp Scientifica

Powerful, robust overhead stirrers with display and electronic speed control. With integrated timer and overload, overtemperature and overcurrent protection.

- For high viscosities up to 100000 mPas or large volumes up to 100 l
- With 2 speed gears
- Stable torque over the entire speed range with automatic compensation
- Torque indication in the display
- LED display
- Timer
- Key lock
- Brushless, quiet motor
- Rotor change without tools
- USB interface for installing software updates

Specifications

Number of speed gears:	2
Speed range:	6 ... 400 min ⁻¹ /30 ... 2000 min ⁻¹
Power rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Dimensions (W x D x H):	90 x 235 x 315 mm
Weight:	4.6 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	Torque	PK	Cat. No.
	l	mPa.	Ncm		
OHS 200 Digital	100	100000	200	1	4.666 656

Overhead stirrer EUROSTAR 400 digital/400 control



1

Powerful laboratory stirrer for highly viscous applications and intensive mixing for quantities up to 150 l (H₂O). It automatically adjusts the speed through microprocessor controlled technology. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.



6.291 143

EUROSTAR 400 digital:

- Digital speed display
- Infinitely adjustable speed
- Push-through agitator shafts
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display

EUROSTAR 400 control additionally:

- Multilingual TFT display
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Connection for external temperature sensor

Scope of supply EUROSTAR 400 control: Overhead stirrer, temperature sensor H 67.60, WiCo holder WH 11

Specifications

Stirring quantity max. (H ₂ O):	150 l
Max. viscosity:	100000 mPas
Motor rating input/output:	220/176 W
Speed range:	0/6 ... 2000 rpm
Max. torque at stirring shaft:	400 Ncm
Display:	LED // TFT
Chuck range:	3 ... 16 mm
Dimensions (W x D x H):	114 x 245 x 325 mm // 114 x 268 x 345 mm
Protection class DIN EN 60529:	IP 42 // IP 40
Power supply:	230 V, 50/60 Hz
EUROSTAR 400 control only:	
Temperature sensor:	PT1000
Temperature measuring range:	-10 ... +350 °C

2



6.310 512

Type	Plug type	PK	Cat. No.
EUROSTAR 400 digital	EU	1	6.291 143
EUROSTAR 400 control	EU	1	6.310 512





**VELP LAB EQUIPMENT
IS DESIGNED AND
MANUFACTURED IN
ITALY TO PROVIDE
INNOVATIVE SOLUTIONS
AND RELIABILITY TO
SCIENTISTS.**

Heating Magnetic Stirrers **ARE/AREX-6 Series**



More than hot plate stirrers! Superior Safety and state-of-the-art thermoregulation delivering you an Organic synthesis solution with all relevant accessories

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Unmatched experience! The truly ergonomic vortex mixer with patented IR sensor reducing arm stress.

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Perform your Biochemical Oxygen Demand analysis without altering the incubation condition. Manage up to 80 BOD sensors directly from your PC thanks to the unique connectivity of VELP BOD EVO.

www.velp.com

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Overhead stirrers OHS Advance

Powerful, robust overhead stirrers with digital display, electronic speed control and integrated PT100 temperature probe. With vibration sensor, timer and overload, overtemperature and overcurrent protection. **The connection via WLAN to the VELP Ermes Cloud Platform is used for uploading, managing, monitoring and exchanging results and parameters.** Access to the devices is possible via PC, Smartphone and Tablet.

Velp Scientifica

- Direct measurement of temperature in the medium via PT100 sensor
- Stable torque over the entire speed range with automatic compensation
- Torque indicated in display
- 3.5" TFT display
- Timer
- Key lock
- Brushless, quiet motor
- Easy rotor change without tools
- Various methods programmable
- USB interface for installing software updates and process documentation

Specifications	OHS 60 Advance // OHS 100 Advance
Number of speed gears:	1
Speed range:	30 ... 2000 min ⁻¹ // 30 ... 1300 min ⁻¹
Motor rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Temperature measuring range:	-10 ... 350 °C
Temperature measuring accuracy:	0.1 °C
Dimensions (W x D x H):	90 x 235 x 285 mm
Weight:	4.1 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	Torque	PK	Cat. No.
	l	mPa.	Ncm		
OHS 60 Advance	40	50000	60	1	4.666 655
OHS 100 Advance	100	70000	100	1	4.666 654

1



4.666 655

Overhead stirrer OHS 200 Advance

Powerful, robust overhead stirrers with digital display, electronic speed control and integrated PT100 temperature probe. With vibration sensor, timer and overload, overtemperature and overcurrent protection. **The connection via WLAN to the VELP Ermes Cloud Platform is used for uploading, managing, monitoring and exchanging results and parameters.** Access to the devices is possible via PC, Smartphone and Tablet.

Velp Scientifica

- With 2 speed gears
- For high viscosities up to 100000 mPas or large volumes
- Direct measurement of temperature in the medium via PT100 sensor
- Stable torque over the entire speed range with automatic compensation
- Torque indicated in display
- 3.5" TFT display
- Timer
- Key lock
- Brushless, quiet motor
- Easy rotor change without tools
- Various methods programmable
- USB interface for installing software updates and process documentation

Specifications	OHS 200 Advance
Number of speed gears:	2
Speed range:	6 ... 400 min ⁻¹ /30 ... 2000 min ⁻¹
Power rating:	190 W
Chuck range:	Ø 1 ... 13 mm
Display:	Digital
Temperature measuring range:	-10 ... 350 °C
Temperature measuring accuracy:	0.1 °C
Dimensions (W x D x H):	90 x 235 x 315 mm
Weight:	4.6 kg
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	Torque	PK	Cat. No.
	l	mPa.	Ncm		
OHS 200 Advance	100	100000	200	1	4.666 653

2





1 Overhead stirrer RW 20 digital

- Technical improvements on the trusted RW20 series design, mechanically controlled
- with digital display
- robust, ergonomic design
- constant power-drive
- two speed ranges for universal use from 60rpm to 2000rpm
- hollow-shafted chuck for rotor shaft height adjustment (only when stationary)

IKA

Specifications

Stirring volume max. (H ₂ O):	20L
Viscosity range:	up to 10000mPas
Motor rating input/output:	70/35W
Output max. at stirring shaft:	26W
Max. stirring shaft torque (at 100rpm.):	150Ncm
Speed range I (at 50Hz):	60 to 500rpm.
Speed range II (at 50Hz):	240 to 2000rpm.
Chuck range:	0.5 to 10mm
Diameter/length of extension arm:	13mm/160mm
Dimensions (W x D x H)	88 x 212 x 294mm
Weight:	3.1kg
Protection class acc. to DIN EN 60529:	IP20
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
RW 20 digital	EU	1	9.816 622
RW 20 digital	UK	1	6.227 717

Optional accessories: Stands: R 1825, R 1826, R 1827, R 182 Boss head, FK 1 Flexible coupling, RH 3 Strap clamp, R 301 Stirring shaft protection, Stirring elements: e.g. R 1342, R 1381



2 Overhead stirrer RW 28 digital

Powerful, mechanically controlled laboratory stirrer designed for highly viscous applications for quantities up to 80l (H₂O). It is suitable for intensive mixing for use in laboratories and pilot plants. The stirrer comes equipped with a protection for overheating of the motor by means of self-locking temperature limiter. Additionally, to secure bowls, a stirring shaft protection and clamping fixture are optionally available.

IKA

- Digital speed display
- Infinitely adjustable speed in two speed ranges
- Push-through agitator shafts
- Overload protection
- Error code display
- Robust, ergonomic design
- Quiet operation
- With constant power-drive

Specifications

Stirring quantity max. (H ₂ O):	80l
Max. viscosity:	50000mPas
Motor rating input/output:	220/90W
Speed range (at 50/60 Hz):	60 to 1400rpm/72 to 1680rpm
Speed range I (at 50/60 Hz):	60 to 400rpm/72 to 480rpm
Speed range II (at 50/60 Hz):	240 to 1400rpm/288 to 1680rpm
Max. torque at stirring shaft:	900Ncm
Display:	LED
Chuck range:	1 to 10mm
Dimensions (W x D x H):	123 x 252 x 364mm
Protection class DIN EN 60529:	IP 40
Power supply:	220-240V,/50/60Hz

Type	Plug type	PK	Cat. No.
RW 28 digital	EU	1	9.816 630
RW 28 digital S 2	UK	1	9.816 631
RW 28 digital S 3	CH	1	9.816 632

1 Stand with Laboratory balance IKA [scale] for overhead stirrers

NEW

The stand with integrated scale and data interface is ideally suited for the direct and controlled addition of sample material while stirring. The quantities of samples to be added are weighed immediately and continuously documented during the stirring process.

IKA

- Clear LCD display
- Stable die cast zinc housing
- Overload protection
- USB interface
- Bluetooth connection

Specifications

Weighing range:	5 ... 6000 g
Readability:	1 g
Accuracy:	±6 g
Load capacity weighing function:	max. 10 kg
Dimensions - Weighing plate:	200 x 200 mm
Dimensions (W x D x H):	213 x 391 x 570 mm
Weight:	5.2 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	PK	Cat. No.
IKA [scale]	1	4.672 719

2 Overhead stirrer STARVISC 200-2.5 control

NEW

High precision torque-measuring stirrer with direct display of the measured values for a wide range of applications. Especially suitable for product development, because precise measuring is taking place during the manufacturing process and the viscosity can be calculated via the user friendly display. Samples no longer have to be taken separately.

IKA

- Viscosity calculation
- Stepless adjustable speed
- With detachable remote control - Wireless Controller (WiCo)
- Powerful stirrer for highly viscous substances

Specifications

Stirring quantity max. (H ₂ O):	100 l
Max. viscosity:	100000 mPas
Motor rating input/output:	130 W/84 W
Speed range:	0/6 ... 2000 rpm
Speed range I (at 50Hz):	6 ... 400 rpm
Speed range II (at 50Hz):	30 ... 2000 rpm
Max. torque at stirring shaft:	200 Ncm
Display:	TFT
Chuck range:	0.6 ... 10 cm
Dimensions (W x D x H):	91 x 231 x 395 mm
IP code acc. to DIN EN 60529:	IP 40
Power supply:	230/100, 115/100 V, 50/60 Hz

Type	PK	Cat. No.
STARVISC 200-2.5 control	1	4.672 715



1



1 Overhead stirrers Hei-TORQUE Value

Ideal for all standard stirring tasks. They are designed to mix and disperse media that require non-reproducible results in high-viscosity applications.

Heidolph

- Indication of torque tendencies to monitor viscosity changes
- Digital 2.4" display for ease of operation
- Constant speed even under changing loads
- Safe start and stop of operation via slide touch panel
- Minimum noise level at maximum power (<50 dB)

2



2 Overhead stirrers Hei-TORQUE Value 100

Heidolph

Specifications

Max. stirring quantity (H ₂ O):	50 l
Speed range:	10 ... 2000 rpm
Max. viscosity:	60000 mPas
Motor rating input/output:	90/50 W
Max. torque at stirring shaft:	100 Ncm
Display:	digital
Chuck range:	8 ... 10.5 mm
Dimensions (W x D x H):	86 x 247 x 350 mm
Weight:	4.4 kg
Power supply:	230 V, 50/60 Hz
Protection class:	IP 54

Type	Plug type	PK	Cat. No.
Hei-TORQUE Value 100	EU	1	7.981 688
Hei-TORQUE Value 100	UK	1	6.283 476

3



3 Overhead Stirrers Hei-TORQUE Core

Heidolph

Compact, electronic overhead stirrer for easy operation.

- Can be integrated in closed systems such as fume hoods, reactors or production systems
- Suitable for low to medium viscosity media
- Quick-action chuck for stirring tools up to 10 mm diameter
- "Max" button for short-term operation at maximum speed
- Timer function
- Digital rotation speed display
- Automatic switch-off with overheating protection

Specifications

Stirring quantity max. (H ₂ O):	25 l
Speed range:	20... 2000 rpm
Max. viscosity:	10000 mPas
Motor rating input/output:	105/75 W
Max. torque at stirring shaft:	40 Ncm
Display:	digital
Chuck range:	8 ... 10.5 mm
Dimensions (W x D x H):	70 x 195 x 281.5 mm
Weight:	2.3 kg
Power supply:	230 V, 50/60 Hz
Protection class:	IP 42

Type	PK	Cat. No.
Hei-TORQUE Core	1	4.662 304

Accessories for Overhead Stirrers Hei-TORQUE

Heidolph

Type	For	PK	Cat. No.
Stand clamp for holder rod 13 to 32mm	Hei-TORQUE	1	9.816 562
Stand S 2, 425 x 420 x 700mm, 5.8kg	Hei-TORQUE	1	9.816 564
Stirrer shaft guard, PMMA, height-adjustable	Hei-TORQUE Core	1	9.816 566
Stirrer shaft guard, PMMA, height-adjustable	Hei-TORQUE	1	6.284 078
Flexible shaft including chuck, 8mm	Hei-TORQUE	1	7.047 043
Base Stand S2 XXL	Hei-TORQUE	1	6.228 500
Stirrer shaft gland NS 29/32 - PTFE	Hei-TORQUE	1	7.076 415
Telescopic stand	Hei-TORQUE	1	7.621 811



9.816 564



7.047 043

3 Flexible clutch

Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural variances.

Clamping range: 6 to 10mm
Torque max. 10 Ncm

Type	PK	Cat. No.
FK 1	1	9.197 060



Globe Stirrer Couplings, POM

Made of POM, a plastic material with a good mechanical strength, powerful transmission of up to 300 Ncm, suitable for a speed of up to 1.200 rounds per minute, maximum misalignment of axes 10 mm. Ideal for balancing misalignment of axes between agitator and stirrer shaft, suitable for glass, metal or PTFE stirrer shafts.

BOLA

- very low centrifugal forces due to low weight
- suitable for both left and right-handed rotation
- no resonance
- simple assembly by means of screw joints with clamp rings
- pivot (length 90 mm) can be shortened by the user

Opening for stirrer shaft	Chuck adaptor Ø bottom	Overall length	PK	Cat. No.
mm	mm	mm		
Diam. 6.5 + 10	10	190	1	6.240 637
Diam. 8 + 10	10	190	1	7.632 676
Inner square SW6	SW8	180	1	6.231 539



7.632 676

5 Keyless chuck for overhead stirrers

Only for use with EUROSTAR 20/40/60/100/200/RW 20, excluding EUROSTAR 20 high speed digital and control.

Clamping range: 0.5 to 10 mm.

NEW

IKA



Type	PK	Cat. No.
R 60	1	6.258 335

1


9.779 201

Magnetic stirrer bearing with ground joint

Stirrer head with a permanent magnetic coupling for mixing applications under vacuum. No straight-through shaft, no shaft sealing rings required as the torque is provided contactless by magnetic force.

Buddeberg

Rotational speed: 2500rpm
 Material: 1.4435 (AISI 316L)
 Seal: Viton
 Bearings: Ball bearing steel

Type	Joint size	Capacity	Temp. range		For fluid viscosity	Torque	PK	Cat. No.
			NS	ml				
BUK K20 S1	29/32	500	240		500	20	1	9.779 201
BUK K40 S1	29/32	1000	240		1500	40	1	9.779 202
BUK K60 S1	29/32	3000	240		6000	60	1	9.779 203
BUK K90 S1	29/32	5000	240		10000	90	1	9.779 204

2


2 Connection couplings

Fixed-diameter connection between motor and stirring shaft. Suitable for use in potentially explosive atmospheres (ATEX). Material no. 1.4404

Buddeberg

Type	For	PK	Cat. No.
VK 14 x 10	BSR 64 with stand	1	6.287 716
VK 14 x 14	BSR 64 with stand	1	6.287 718
VK 7 x 8	BUK/MRK	1	9.779 342

3


9.224 292

4


9.224 293

Bossheads for overhead stirrers

IKA

Type	Jaw opening mm	PK	Cat. No.
R 182	Stand / extension arm: 6 to 16	1	9.224 292
R 270	Stand / extension arm: 25 to 36 / 5 to 21	1	9.224 293
R 271	Stand / extension arm: 34 / 16	1	9.224 266

6


9.224 762

5


9.224 761

Strap clamps for overhead stirrers

IKA

Type	Rod diam.	Vessel diam.	PK	Cat. No.
	mm	mm		
RH 3	8 to 16	40 to 300	1	9.224 761
RH 5*	25 to 36	40 to 300	1	9.224 762

*with R 270 bosshead

8


9.816 735

7


9.224 026

Stands for overhead stirrers

IKA

Type	Description	Rod diam.	Height	Max. load	PK	Cat. No.
		mm	mm	kg		
R 1825	Stand with baseplate	16	560	5	1	9.224 031
R 1826	Stand with baseplate	16	800	5	1	9.224 032
R 1827	Stand with baseplate	16	1000	5	1	9.224 033
R 2722	H-stand	34	1010	10	1	9.224 026
R 2723	Telescopic stand	34	620 - 1010	10	1	9.224 028
R 474	Telescopic stand	48	500 - 1000	30	1	9.816 735
R 472	Floor stand	80x80	980 - 1860	30	1	9.816 736

Further stands available on request.

4. Stirring, Shaking, Mixing Overhead stirrers/Stirrer Heads-Stirrers

3 PLR compressed air laboratory stirrers up to 30 L for use in potentially explosive atmospheres, without/with tachometer

PLR compressed air laboratory stirrers are designed for all kinds of standard mixing tasks. The vane type, air-driven motor offers a high power density and is significantly lighter and smaller than an equivalent electric motor.

Buddeberg

General specifications:

- operating pressure max. 6 bar
- air consumption 260 L/min. at 6 bar
- power output 200W at 6 bar
- clockwise rotation
- ATEX certification

Basic models include:

- all-stainless steel housing
- continuously adjustable speed control valve
- support arm diam. 14 mm
- snap connection for NW 5
- output shaft L x diam. 26 x 10 mm



Type	Capacity max.	Off-load speed	Torque	For fluid viscosity	Rating	ATEX certification	PK	Cat. No.
	litres	rpm.	Nm	mPa.	W			
PLR 10	3	15000	0.3	1000	200	Ex II 2G Ex h IIC T4 Gb	1	9.778 950
PLR 11	30	1900	3.5	50000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 951
PLR 12	30	870	5.3	70000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 952
PLR 28	30	580	10.4	100000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 954
PLR 13	30	80	19.8	150000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 953
PLR 10T*	3	15000	0.3	1000	200	Ex II 2G Ex h IIC T4 Gb	1	9.778 960
PLR 11T*	30	1800	3.5	50000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 961
PLR 12T*	30	950	5.3	70000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 962
PLR 28T*	30	550	10.4	100000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 964
PLR 13T*	30	80	19.8	150000	200	Ex II 2G Ex h IIC T5 Gb	1	9.778 963

* analogue tachometer
The viscosity data are intended as a guideline.

4 Compressed air industrial stirrers BSR 64 with floor stand

BSR series stirrers perform routine mixing tasks up to 200 l.

Buddeberg

General specifications:

- operating pressure max. 6 bar
- air consumption 800 l/min. at 6 bar
- power output 640 W at 6 bar
- clockwise rotation
- ATEX rating to Ex II 2G Ex h IIC T5 Gb

Basic models include:

- all-stainless steel housing
- continuously adjustable speed control valve
- spherical clamping device with support arm diam. 16 mm, length 200 mm
- floor stand with rod (height 1000 mm, width 600 mm) and bosshead
- plug-in connector DN 7.8
- silencer
- output shaft L 32 mm x diam. 14 mm



Type	Capacity max.	Off-load speed	For fluid viscosity	Rating	PK	Cat. No.
	litres	rpm.	mPa.	W		
BSR 64/160-A-V	200	1600	20000	640	1	9.779 163
BSR 64/65-A-V	200	650	50000	640	1	9.779 164
BSR 64/30-A-V	200	300	100000	640	1	9.779 165

Stands

Floor stand BS

with angled foot, side length 600 mm, rod diam. 34 mm.

Buddeberg

Wall bracket WS

Rod diam. 34 mm, clearance from wall: 200 mm.

Type	Description	Length mm	PK	Cat. No.
BS 1	Floor stand	1000	1	9.224 000
BS 2	Floor stand	1500	1	6.206 348
BS 3	Floor stand	1000	1	6.314 306
WS	Wall bracket	1000	1	6.225 791





9.198 010



9.779 013



9.779 065

Compressed air powered stirrers, PLR, accessories

Connection couplings VK:

Fixed-diameter connection for motor/magnetic coupling drive shaft and stirring rod. Suitable for use in potentially explosive atmospheres. Material No. 1.4404.

Flexible glass stirring shaft couplings PK:

For stirring tasks using glass stirring rods. Elastic connector between motor and stirring shaft. Provides exact alignment of motor and shaft, and evens out axial and height differences. Accepts 6mm to 10mm diameter shafts.

Flexible glass stirring shaft couplings K:

For stirring tasks using glass stirring rods. Elastic connector between motor and stirring shaft. Provides exact alignment of motor and shaft, and evens out axial and height differences. Accepts 6mm to 10mm diameter shafts

Double-Cardan-Coupling DCK I:

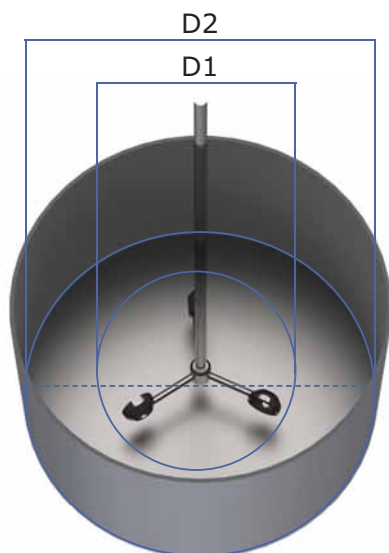
With 8mm dia. hexagonal input drive receiver and 6mm square socket drive output.

Buddeberg

Type	Description	PK	Cat. No.
VK 10x8	Connection couplings 10 x 8 mm	1	6.286 426
VK 10x10	Connection couplings 10 x 10 mm	1	6.285 834
PK 10	Flex coupling receiver i. d. 10mm	1	9.779 013
PK 10/13	Flex coupling receiver i. d. 10/13mm	1	9.779 014
K 10	Flex coupling receiver i. d. 10mm	1	9.198 010
K 10/13	Flex coupling receiver i. d. 10/13mm	1	9.197 400
DCK I	Stainless steel, L = 110mm	1	9.779 065



How to select the correct stirring rotor size



Propeller stirrer

 $D1 = D2 \times \text{min. } 0.1 \text{ to max. } 0.5$


Diagonal blade stirrer

 $D1 = D2 \times \text{min. } 0.25 \text{ to max. } 0.5$


Anchor stirrer

 $D1 = D2 \times \text{min. } 0.9 \text{ to max. } 0.98$


Dissolver stirrer

 $D1 = D2 \times \text{min. } 0.2 \text{ to max. } 0.5$


BuddeMix

 $D1 = D2 \times \text{min. } 0.3 \text{ to max. } 0.75$


Buddeberg Laboratory Technology GmbH develops and manufactures explosion-protected compressed air laboratory stirrers and industrial stirrers as well as magnetic stirrer couplings and drives for the chemical, pharmaceutical, coating and food industry.

Furthermore, we offer **individual solutions** tailored to suit your special requirements. Please feel free to contact us.

Your Contact

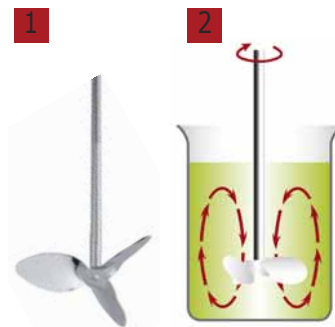
Marcel Schreiber
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 📠 +49 621 87690-39
 ✉ schreiber@buddeberg.de

4. Stirring, Shaking, Mixing Overhead stirrers/Stirrers

1 2 Propeller stirring rotors, 3-blade, stainless steel 1.4305

The 3-blade propellers produce axial flow, and reduce shear forces to a minimum, even at high stirring speeds, thanks to their optimised blade design. Recommended for medium to high speed operations. Other sizes available on request.

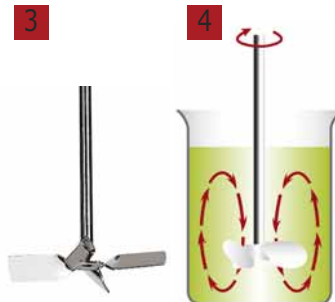
Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 1381	45	8	350	1	9.197 021
R 1382	55	8	350	1	9.197 022
R 1385	140	10	550	1	9.197 023
R 1388	140	10	800	1	9.197 024



3 4 Diagonal blade stirring rotors, 4-blade, stainless steel 1.4305

The 4-blade diagonal blade stirring rotor provides axial flow and creates increasing shear forces at higher stirring speeds. Recommended for medium to high speed operations. Other sizes available on request.

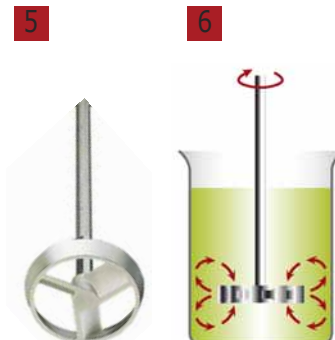
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
50	8	350	1	9.197 006
100	8	540	1	9.197 009
100	10	550	1	4.662 011



5 6 Turbine stirring rotors, 3-blade with guide ring, stainless steel 1.4305

The 3-blade turbine stirring rotor produces axial flow; the guide ring surrounding the blades reduces shear forces, and offers protection when contacting the wall or bottom of the vessel. Recommended for medium to high speed operations.

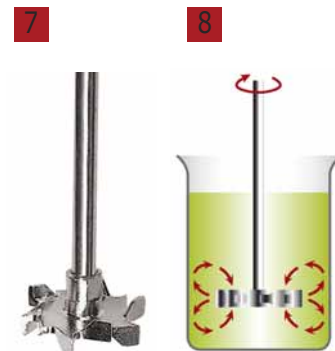
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
30	8	350	1	9.197 030
50	8	350	1	9.197 031
70	10	400	1	9.197 032



7 8 Dissolver stirring rotors, stainless steel 1.4404

The dissolver stirring rotor creates a radial flow with high turbulence. The mixture is drawn from top to bottom. High shear forces are created at the dissolver disk, which provides effective particle reduction. Recommended for medium to high speed operations.

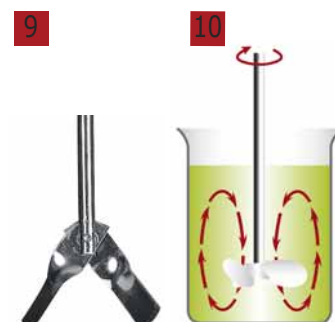
Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
30	8	350	1	9.779 322
40	8	350	1	9.197 007
50	10	550	1	9.779 336
60	10	550	1	9.779 337
70	10	550	1	9.779 338
80	8	350	1	9.197 001
80	10	550	1	9.779 339
100	10	350	1	9.197 003

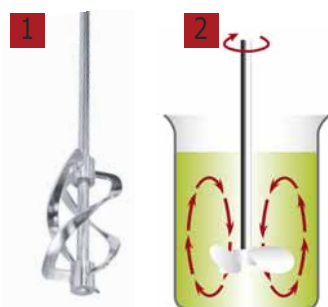


9 10 Centrifugal stirring rotors, 2-blade, stainless steel 1.4305

The folding blades of this 2-blade centrifugal stirring rotor open with increasing speed, allowing use with narrow-neck vessels. The stirring effect it provides is similar to a standard diagonal blade stirring rotor. Recommended for medium to high speed operations.

Ø agitator open / closed mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
60/15	8	350	1	9.197 011
100/24	8	550	1	9.197 013



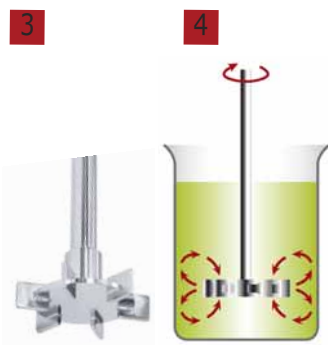


1 2 Spiral stirrer, stainless steel 1.4571

Generates axial flow. Medium is conveyed from the bottom upwards. For homogeneous mixing and heat exchange of medium to high viscosity media. Recommended for medium speed operations.

IKA

Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 3003	50	8	350	1	6.265 595
R 3003.1	100	10	550	1	6.265 596
R 3003.2	150	10	800	1	6.265 597

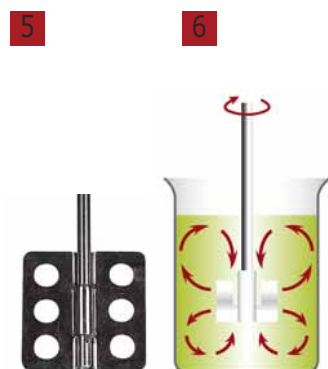


3 4 Blade stirrer, stainless steel 1.4571

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

IKA

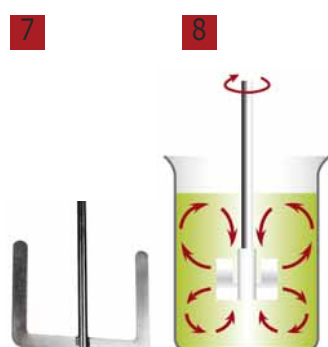
Type	Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
R 3004	30	8	359	1	6.265 598
R 3004.1	50	10	565	1	6.265 599
R 3004.2	70	10	819	1	6.265 700



5 6 Paddle stirring rotors, 6 holes, stainless steel 1.4305

The paddle stirring rotor creates a tangential flow with minimum turbulence. Its design ensures a gentle action on sensitive products and good heat exchange. Recommended for low to medium speed operations. Other sizes available on request.

Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
70	8	550	1	9.197 019
150	10	550	1	9.197 020



7 8 Anchor stirring rotors, stainless steel

The anchor-shape rotor creates a tangential flow and high shear forces between the vessel wall and stirring blades. This stirrer is especially suitable for medium to high viscosity fluids. Recommended for low speed operations.

Ø agitator mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
45	8	350	1	9.197 033
80	10	500	1	9.779 346
90	8	350	1	9.197 034
100	10	500	1	9.779 347
150	10	550	1	9.197 036



1 | 2 BuddeMix Stirring System 1 - 4

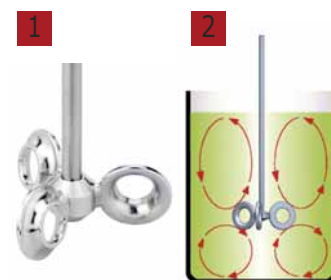
This novel stirring system has been conceived to mix low viscosity fluids as well as highly viscous media at slow speeds. Its special design creates inherent dynamic currents to produce perfectly homogeneous mixing results in very little time. Additional components like baffles, bottom bearings, etc. are not needed.

Advantages at a glance:

- suitable for low to highly viscous fluids
- stirs media containing solids and fibres without any difficulty
- gentle, low-shear stirring, due to slow stirring speed
- constant product temperature, with no heating effect
- short mixing times as the entire contents of the container are agitated
- no air addition, no foaming
- no baffles required
- low gear wear due to balanced forces
- minimal power consumption thanks to low speeds and short operation times
- easy cleaning
- material no. 1.4404

Particularly for potentially explosive atmospheres:

- a single stirring zone, near to the container base, ensures easy mixing of settled residues, e.g. in flow-through mixing containers
- no baffles required, thus no additional sources of ignition



Type	Ø agitator mm	Ø agitator shaft mm	Length mm	Material No.	PK	Cat. No.
BuddeMix 1	60	10	350	1.4404	1	9.779 352
BuddeMix 2	80	10	350	1.4404	1	9.779 332
BuddeMix 3	120	10	550	1.4404	1	9.779 333
BuddeMix 4	150	10	850	1.4404	1	9.779 334
BuddeMix Mini 30	35	8	350	1.4404	1	6.314 307
BuddeMix Mini 40	46	8	350	1.4404	1	6.314 308

Customised shaft length possible. Fine polishing Ra 0.6 to 0.8 µm and/or material certificate available on request.

Impellers VISCO JET®

The worldwide patented VISCO JET® Mixing System is the result of the so-called cone-principle. Turbulent flows are created at the taper end by acceleration, displacement and retardation. These flows advance through the stirred medium and result in the new dynamic mixing motion.

Heidolph

- One system for literally all mixing tasks for low to high viscosity media
- Patented cone-principle creates even at low speeds a turbulent flow which is unique to the VISCO JET®
- Even with high-viscosity media and gels which naturally do not mix by using common impellers you will observe an immediate flow through the entire beaker
- This technology allows for de-gassing of gels while preventing air intake and foaming
- Reduce process times significantly while performing the best mixing result ever

The stirring systems are made of stainless steel (V4A or AISI 316 Ti) or polyoxymethylene (POM).



Material	For Vessels mm	Ø agitator shaft mm	Length mm	PK	Cat. No.
V4A	80-150	10	500	1	9.816 595
V4A	115-200	10	500	1	9.816 596
POM	115-200	10	500	1	9.816 597
V4A	170-300	10	500	1	9.816 598
POM	170-300	10	500	1	9.816 599
AISI 316Ti	115-200	10	500	1	6.290 570
AISI 316Ti	170-300	10	500	1	7.646 872

Other versions available.

Stirring rotors made of PTFE

The stirrer shafts consist of a PTFE-jacketed, stainless steel shaft and a stirrer paddle made of solid PTFE. The stainless steel core assures stability of the stirrer shaft and allows safe attachment of the stirrer chuck. Thanks to the thick PTFE coat and the paddle made of solid PTFE, the medium will only come into contact with PTFE. High chemical resistance makes it almost universally suitable. PTFE is extremely nonstick so that residues are repelled from shaft and paddle. The stirrer shafts are similar in size to (KPG) glass stirring rods and are therefore interchangeable easily.

BOLA

Operating temperature: -200 °C to +250 °C

Additional sizes and accessories are available on request.

Information on the mixing effects of the different stirring geometries can be found in the descriptions of the stainless steel stirring rotors.

1


1 Propeller, 3 blades, PTFE

The blades are inclined at 45°. Recommended for medium to high speed operations.

BOLA

Ø agitator mm	Ø agitator shaft mm	To fit chuck diam. mm	Length mm	Blades	PK	Cat. No.
50	6	4.0	450	round	1	9.197 138
75	8	6.5	350	angular	1	9.197 130
75	10	8.0	450	angular	1	9.197 140
75	10	8.0	800	angular	1	9.197 149
140	10	8.0	600	round	1	9.197 194
140	10	8.0	800	round	1	9.197 195
14	16	14.0	1000	round	1	6.244 067

2


2 Crescent-shaped stirring rotors, PTFE

The semi-circular shape of the paddle is ideal for mixing in round-bottom flasks. The pivoting blade allows insertion into vessels with narrow necks and/or ground joints.

BOLA

Ø agitator mm	Ø agitator shaft mm	To fit chuck diam. mm	Length mm	PK	Cat. No.
65	8	6.5	350	1	9.197 121
90	8	6.5	450	1	9.197 122
90	10	8.0	350	1	9.197 127
90	10	8.0	450	1	9.197 124
90	10	8.0	510	1	9.197 128
90	10	8.0	600	1	9.197 125
125	16	14.0	800	1	9.197 126

3


3 Anchor stirrer, PTFE

Recommended for low speed operations.

BOLA

Ø agitator mm	Ø agitator shaft mm	To fit chuck diam. mm	Length mm	PK	Cat. No.
60	8	6.5	350	1	9.197 144
60	8	6.5	450	1	6.076 374
80	8	6.5	450	1	6.076 375
100	10	8.0	450	1	6.286 974
100	8	6.5	600	1	9.197 145
80	10	8.0	350	1	9.197 146
100	10	8.0	600	1	9.197 147
130	10	8.0	800	1	7.659 979
150	16	14.0	1000	1	6.210 121

Additional wings available on request

4


4 Overhead stirrer rotors, centrifugal paddle, PTFE

With PTFE-coated, stainless steel shaft.

BOLA

Shaft diam. mm	To fit chuck diam. mm	Ø Paddle mm	Length mm	PK	Cat. No.
6	4.0	50	350	1	9.197 176
8	6.5	90	350	1	7.510 300
8	6.5	90	450	1	9.197 177
10	8.0	90	350	1	9.197 178
10	8.0	90	450	1	9.197 179

1 Test tube shaker LLG-uniTEXER 1

Compact and cost-efficient test tube shaker with brushless motor drive and touch function for short-term operation. Adjustable speed control up to 4500 rpm for excellent mixing results in a very short time. Especially for small volumes.

Scope of supply: vortexer, 1 mains adapter each US, AUS, UK

Specifications

Type of movement:	orbital
Orbit:	4.5 mm
Speed:	0 ... 4500 min ⁻¹
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	< 80 %
Dimensions (W x D x H):	100 x 100 x 70 mm
Weight:	0.55 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 43
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniTEXER 1	EU	1	6.263 490
LLG-uniTEXER 1	UK	1	6.263 491

1



2 3 4 Vortexer LLG-uniTEXER with universal attachment

One head - multiple uses

Vortexer with single carrier head, accommodating the most popular consumables and tubes: for 1 x assay plate, 2 x 50 ml conical tubes, 2 x 15 ml conical tubes, 2 x 5 ml conical tubes, 4 x 1.5/2 ml microcentrifuge tubes, 6 x 0.5 ml and 24 x 0.2 ml microcentrifuge tubes.

- Touch function for short-term operation
- Very easy to clean
- Elastomeric feet ensure excellent stability on the bench
- Modern design
- Robust housing made of ABS

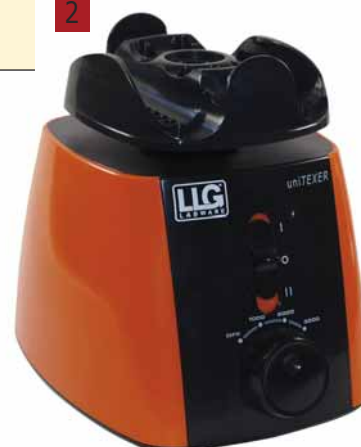
Scope of supply: vortexer, 1 x universal attachment

Specifications

Type of movement:	orbital/vortex
Orbital diameter:	3.7 mm
Speed:	1000, 2000 und 3000 min ⁻¹
Dimensions (W x D x H):	173 x 198 x 198 mm
Weight:	3.8 kg
Power supply:	220 V, 50/60 Hz
IP code:	IP 20
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniTEXER	EU	1	6.261 826
LLG-uniTEXER	UK	1	4.655 191

2



3



4





7.971 461

Vortex mixers ZX4/WIZARD/TX4 with IR sensor

Vortexers with patented IR sensor for sample recognition: the shaking process starts automatically when the sample tube approaches the mixing cup head. This enables fatigue-free working, as the sample doesn't have to be pressed on the device.

Velp Scientifica

- For IR sensor and continuous operation
- Electronic speed control
- Adjustable shaking speeds up to 3000 min⁻¹
- Very good chemical resistance
- Broad range of accessories available

ZX4: Analog vortex mixer

WIZARD: Compact, analog vortex mixer

TX4: Digital vortex mixer with timer and LCD display

Scope of delivery: Vortex mixer with mixing head

Specifications

Type of movement:	orbital
Orbital diameter:	4.5 mm
Speed range:	0 ... 3000 min ⁻¹
Input power:	15 W
IP code:	IP 42
Power supply:	100 ... 240 V, 50 ... 60 Hz
Warranty:	3 years



4.666 537



4.666 537

Type	Net weight	Plug type	PK	Cat. No.
	kg			
ZX4	2.7	EU	1	7.971 461 1
ZX4 with foam stands	2.7	EU	1	4.666 714
WIZARD	2.2	EU	1	4.666 536 2
TX4	2.7	EU	1	4.666 537 3



4.659 498

Mini Vortex Mixer VXMN series

Four Mini Vortex Mixer models for gentle to high-speed mixing are available. Analog model offers variable speed control, and digital model allows input of the exact speed and time to achieve reproducible results. Pulsing model features a unique pulse action that reduces heat generation, while providing more effective mixing and cell disruption. Fixed speed model offers one-touch, high-speed mixing.

OHAUS
VXMNFS: Fixed high speed mixing, TOUCH mode operation

VXMNAL: Auto/Off/On Rocker switch, Speed Knob: Variable 1 to 10 Dial Marks, continuous or TOUCH mode operation

VXMNDG: Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control, continuous or TOUCH mode operation

VXMNPS: Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control Pulse Button

Scope of supply:

VXMNFS/AL/DG: Vortexer incl. Cup head and 76 mm head with cover

VXMNPS: Vortexer incl. Cup head and 76 mm head with cover and stainless steel tube holder


4.659 499

Specifications

Type of movement:	orbital
Type of movement PS:	pulsing
Orbit:	4.9 mm
Orbit PS:	2.5 mm
Timer (DG and PS only):	1 s to 160 h
Permissible ambient conditions:	4 to 40 °C
Dimensions (L x W x H):	211 x 122 x 165 mm
Weight:	4.5 kg
Power supply:	230 V, 50/60 Hz



4.659 501

Type	Min. speed rpm	Max. speed rpm	PK	Cat. No.
VXMNFS	2500	2500	1	4.659 498 4
VXMNAL	500	2500	1	4.659 499 5
VXMNDG	300	2500	1	4.659 500
VXMNPS	500	2500	1	4.659 501 6

1 Vortex mixer PV-1

With low profile and small footprint for gentle mixing to vigorous re-suspension of cell or chemical pellets.

Grant

- variable speed: 750rpm to 3000rpm
- continuous or touch operation
- for tubes up to 28.5 mm (50 ml) diameter

Specifications

Type of movement:	orbital
Orbit:	4mm
Speed range:	750 to 3000rpm
Dimensions (WxDxH):	90 x 150 x 80mm
Temperature range:	4 to 40°C

Type	Plug type	PK	Cat. No.
PV-1	EU/UK	1	9.721 000



2 Shaker VORTEX 2

Vortex shaker especially for short time operation (Touch function) or continuous operation.

IKA

Specifications

Type of movement:	orbital
Orbital diameter:	4 mm
Max. shaken quantity:	400 g
Motor rating input/output:	39/9 W
Speed range:	500 to 2500 rpm
Dimensions (W x H x D):	120 x 138 x 140 mm
Weight:	3.9 kg
Enclosure according to DIN EN 60529:	IP 21

Type	PK	Cat. No.
VORTEX 2	1	7.971 443



Test Tube Shakers Reax top/control

Ideal for mixing samples in Eppendorf tubes, vials and similar vessels of different diameters at extremely high speed rates. The strong 5 mm vibration orbit yields the best results even with high viscosity media or solids out of solution and quickly gives a smooth and even dispersion. Short time and continuous mode.

Heidolph

Standard model Reax top:

- Features an analog dial speed control, no settings of specified rpm numbers

Precise model Reax control additionally with:

- Features analog dial speed control with accurate rpm numbers setting
- Electronic speed control provides constant rpm output even at very low speed and under changing loads
- Precise speed control with settings of specified rpm numbers

Scope of delivery: Test tube shaker incl. attachment diam. 20 mm. Optional attachment for vessels up to 50 mm available.

Specifications

Type of movement:	orbital
Orbit:	5 mm
Speed range:	0 ... 2500 rpm
Power consumption:	51 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	134 x 172 x 105 mm
Weight:	2.8 kg
Power supply:	230 V, 50 Hz
IP code:	IP 22

Type	Plug type	PK	Cat. No.
Reax top	EU	1	9.730 040
Reax top	UK	1	9.730 041
Reax control	EU	1	9.730 042

3



9.730 040

4



9.730 042

1


1 Test tube shaker, lab dancer

Inexpensive, compact test tube vortex shaker. Designed for mixing small test samples by touch function.

IKA

- Small, compact and reliable
- For small containers up to 30mm in diameter, e.g. test tubes, centrifuge tubes, Eppendorf tubes
- Fixed speed (2800rpm)
- Excellent mixing
- Top of housing and the test tube accessories are made from chemically inert plastic. The bottom section is a coated, zinc die-casting.
- Includes lightweight 12V mains adapter

Specifications

Mixing:	orbital
Orbit:	4.5mm
Capacity, volume:	1 tube, max. 50ml
Motor rating input/output:	1.2/0.8W
Speed:	2800rpm (fixed)
Dimensions (Diam. x H):	100 x 70mm
Weight:	550g
Material housing:	PP
Material attachment:	TPU
Material base:	Zinc, coated
Enclosure according to DIN EN 60529:	IP40
Supply requirements:	100-240V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
lab dancer	EU/CH	1	9.729 936
lab dancer	UK	1	4.008 065

2


2 Shaker Vortex 3

Vortex shaker suitable for intermittent operation (touch function), activated by pressing shaker attachment, or for continuous operation.

IKA

- Wide speed range, infinitely adjustable
- Versatile, due to 3 accessory interchangeable attachments and 7 inserts (e.g. Eppendorf tubes, microtitre plates, 250ml Erlenmeyer flasks etc.), please order separately
- Attachments securely click onto shaker in any position
- Strap clamp (VG3.36) ensures easy holding of round/Erlenmeyer flasks
- Sturdy, die cast zinc casing
- Stable at high speeds due to special feet (silicone base with ultra-high vibration damping)
- Eccentric drive with ball bearings
- Self-ventilated motor allows continuous operation with minimal warm-up of the housing

Supplied with standard attachment.

Specifications

Type of movement:	orbital
Orbital diameter:	4mm
Motor rating input/output:	58/10W
Speed range:	500rpm to 2500rpm
Speed indication:	scale 0 to 6
Dimensions (W x D x H):	127 x 149 x 136mm
Weight:	4.5kg
Protection class acc. to DIN EN 60529:	IP 21
Supply requirements:	230V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
VORTEX 3	EU	1	9.729 950
VORTEX 3	CH	1	4.008 062
VORTEX 3	UK	1	4.008 061

Orbital Shaker Hula Dancer Basic/Digital

The Hula Dancer is a powerful orbital shaker with robust housing for high stability. It is suitable for a maximum load of 100 g. Hula Dancer basic with fixed speed of 2800 rpm.

IKA



4.665 611

Specifications

Mixing:	orbital
Orbit:	4.5 mm
Capacity, volume:	100 g
Motor rating input/output:	9.5/5 W
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	80 %
Dimensions (Diam. x H):	123 x 123 x 42 mm
Weight:	700 g
Power supply:	100 ... 240 V, 50 ... 60 Hz
Enclosure according to DIN EN 60529:	IP 40

Type	Speed range	PK	Cat. No.
	rpm		
Hula Dancer basic	2800	1	6.274 875
Hula Dancer digital	1200 ... 2800	1	4.665 611

2 Vortex-Genie®-series

Robust and reliable shakers for speedy mixing and shaking of samples. Multiple accessories: e.g. adapter tops for test tubes, beakers, centrifuge tubes etc. Adapter tops can be changed easily with the snap fit system.

Scientific Industries



Vortex-Genie® 2: Variable speed for precise mixing from gentle to vigorous. Broad range of attachments for most tubes, plates and other containers. Hands-Free or Touch On control.

Vortex-Genie® 2T with an integrated timer: Timer function: (Touch On) 1-60 seconds, (Hands-Free) 1-60 minutes or continuous. Unit automatically stops at the end of user programmed time.

Digital Vortex-Genie® 2 with digital control and display of speed and time: Digital display provides accuracy, reproducibility and repeatability. Timer function: (Touch On) 1-99 seconds, (Hands-Free) 1-99 minutes or continuous. Specially configured unit for Applied Biosystems protocol available.

Vortex Genie® Pulse: Fully programmable vortex mixer with ON/OFF feature. Pulse 0.1 sec to 99 min.

Scope of supply: Vortexer, 3-inch Platform with rubber cover, Pop-off cup

Specifications

Shaking movement:	orbital
Speed display/Timer:	Scale/No/Scale/Scale/Digital/Digital
Speed range:	600-2700rpm/600-2700rpm/500-2850rpm/500-2850rpm
Timer	
Interval operation:	-/ 1 to 60s/1 to 99s/0.1 s to 99 min
Hands-free mode:	-/ 1 to 60min/1 to 99min/1 to 99 min
Dimensions (L x W x H):	165 x 122 x 165mm
Permissible ambient conditions:	0 to 38°C at 95% rh
Weight:	4kg
Power supply:	230V, 50/60Hz

Vortex-Genie® 2/Vortex-Genie® 2T/Digital Vortex-Genie®2/ Vortex Genie® Pulse

Type	Min. speed rpm	Max. speed rpm	Plug type	PK	Cat. No.
Vortex Genie® 2	600	2700	EU	1	9.730 060
Vortex Genie® 2	600	2700	UK	1	6.251 939
Vortex Genie® 2	600	2700	CH	1	6.235 684
Vortex-Genie® 2T	600	2700	EU	1	6.252 823
Vortex-Genie® 2T	600	2700	UK	1	6.252 946
Vortex-Genie® 2T	600	2700	CH	1	9.730 121
Digital Vortex-Genie® 2	500	2850	EU	1	6.242 793
Digital Vortex-Genie® 2	500	2850	UK	1	9.730 120
Digital Vortex-Genie® 2	500	2850	CH	1	6.240 599
Vortex Genie® Pulse	500	2850	EU	1	6.287 671
Vortex Genie® Pulse	500	2850	UK	1	6.287 674
Vortex Genie® Pulse	500	2850	CH	1	6.287 675

1



9.729 938

Shaker MS3 basic/digital

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtitre plates.

IKA

- Continuous or touch operation (with standard attachment)
- Two operating modes available:

Mode A (safe mode with attachment detection)

the maximum speed of 3000rpm is only attained with the standard attachment in touch mode. When using other attachments the speed is limited to 1300rpm.

Mode B (without attachment detection)

a speed of 3000rpm is possible with all attachments.

- Stable in all speed ranges
- Sturdy, zinc, die-cast casing

MS 3 digital additionally with countdown function timer (1sec to 999min).

Items supplied with MS3 basic + digital: Standard attachment, universal attachment, one-hand insert
Additional items supplied with MS3 digital: Microtitre plate attachment, test tube insert with 6 holes for 12mm diameter tubes

Specifications:

Type of movement:	orbital
Orbit:	4.5mm
Max. permitted shaking weight (incl. attachment):	0.5kg
Motor rating input/output:	10/8W
Speed display:	Scale
Speed range:	0 to 3000rpm
Dimensions (W x D x H):	148 x 205 x 63mm
Weight:	2.9kg
Protection class acc. to DIN EN 60529	IP21
Supply requirements:	100-240V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
MS 3 basic	EU/UK/CH/US	1	9.729 938
MS 3 digital	EU/UK/CH/US	1	9.729 939

2



2 Mini shaker Matrix Orbital

NEW

IKA

Powerful thermoshaker available for samples with small volumes, e.g. blood samples, pharmaceutical agents, DNA/RNA samples, DNA/RNA samples or Elisa assays. Without cross-contamination and with an optimal mixing result.

- Large and clear display with a simple menu structure allows for intuitive operation
- Two different speed modes for optimal mixing
- Speed adjustment according to insert, attachment and filling volume
- Robust aluminum die cast housing

Scope of supply: Shaker, 3 inserts (1 x 0.5 ml tubes, 1 x 1.5/2.0 ml tubes and 1 x 0.2 ml PCR tubes)

Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	300 ... 3000 rpm
Power consumption:	80 W
Max. permitted shaking weight (incl. attachment):	0.3 kg
Timer:	1 s ... 6000 min
Permissible ambient temperature:	5 ... 40 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	198 x 318 x 124 mm
Weight:	7.2 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	PK	Cat. No.
Matrix Orbital	1	4.664 739

➔ Microplate shakers, see page 539.

1 Vortex Mixer VX-200



Economical vortex mixer for mixing all kinds of samples. The continuously variable speed makes the Vortex Mixer useful for a variety of applications.

- "Touch" or continuous mode
- Pressure on vibrating plate starts device and enables effective working with one hand
- Continuously variable mixing speed

Specifications

Speed range 230 V:	0 ... 2850 rpm
Operating modes:	Touch or continuous
Dimensions (W x D x H):	140 x 160 x 130 mm
Weight:	2.2 kg

Type	PK	Cat. No.
Vortex Mixer	1	6.292 017

1



2 Test tube shakers Multi Reax

Heidolph

Versatile Test tube shaker with 3 mm vibration orbit, accomplishes excellent results especially in large vessels. The Multi Reax allows for rigid to smooth dispersion of viscous media and solids.

- Short term and continuous run
- Stepless speed adjustment
- Digital display
- Timer function allows for unattended operation and can be set from 1 to 999 minutes. With acoustic alarm when the operation stops.

Scope of delivery: Test tube shaker incl. 2 attachments.

- Attachment for 26 vessels with diameters from 10 mm to 16 mm
- Attachment for 12 vessels with diameters from 16 mm to 32 mm

Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	150 ... 2000 rpm
Power consumption:	50 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Dimensions (W x D x H):	270 x 410 x 172 mm
Weight:	9.8 kg
Power supply:	230 ... 240 V/50/60 Hz
IP code:	IP 30

Type	PK	Cat. No.
Multi Reax	1	9.839 810

2



Vortex Mixers for multi tubes

OHAUS

Multi-Tube Vortexers are ideal for high throughput sample processing. Holds up to 50 samples simultaneously. Interchangeable foam racks for vortexing tubes from 10 to 29 mm in diameter available. Vortexing action is created by securing the top of the sample in place while allowing the bottom to rotate freely in a 3.6 mm orbit. Suction cup feet reduce motion and prevent sliding on work surface. Analogue and digital models, both microprocessor-controlled and run in continuous or timed mode.

- Digital Model is ideal for Applications that Require Accuracy and Repeatability
- Pulsing Mode on Digital Model to Enhance Vortexing Action
- Analogue Model Offers an Economical Alternative When Exact Speed/Time is not required

Scope of supply: Vortex Mixer incl. Tray Pad Set for support and one 12 mm Test Tube Foam Rack.

Specifications

Orbit:	3.6 mm
Max. load:	4.5 kg
Timer VXMTAL/VXMTDG:	0 to 60 s/1 s to 160 h
Permissible ambient conditions:	4 to 40 °C
Dimensions (L x W x H):	241 x 384 x 406 mm
Weight:	19.1 kg
Power supply:	230 V, 50/60 Hz

Type	Min. speed rpm	Max. speed rpm	Display type	PK	Cat. No.
VXMTAL	1200	2400	analogue	1	4.659 506
VXMTDG	500	2500	digital	1	4.659 507

3



4.659 506

4



4.659 507

1

1 Shaker MixMate®
NEW

Eppendorf AG

The 3-in-1 mixer for plates, tubes and vortex mixing. High speed instrument for the complete resuspending of pellets, mixing PCR setups, mixing viscous liquids and suspensions (incl. beads), mixing restriction digestions, immunoassays, colorimetric assays, reporter gene assays, vortexing numerous tube formats (e.g. 15 and 50 ml conical tubes). Fully mixing in plates (96 or 384-wells) or reaction tubes in seconds.

- High-speed mixer for fast and efficient mixing of small volumes in all common vessel formats up to 50 ml
- 5 soft keys with pre-defined standard mixing parameters for easy usage
- Integrated vortex function for individual sample mixing
- 2DMix-Control (planar mixing orbit) and anti-spill technology for controlled mixing in seconds, without lid wetting and cross-contamination
- Minimal hand/arm vibration transfer during vortexing (PhysioCare Concept®)
- Very stable, remains stationary even at maximum mixing speed
- Whisper quiet operation

Specifications

Type of movement:	orbital
Orbit:	3 mm
Speed range:	300 ... 3000 rpm
Touch vortex frequency	3500 rpm
Timer:	15 s ... 99.5 h, continuous
Noise level	<50 dB(A)
Dimensions (W x D x H):	170 x 230 x 130 mm
Weight:	4.2 kg
Max. power consumption	40 W
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
MixMate®	1	4.671 525

2


9.730 090

Shaker Multi Vortex Genie®/Vortex-Genie® Max

Scientific Industries

Robust and reliable shaking device for mixing and shaking of samples in Erlenmeyer flasks, vials, tubes, beakers or microplates.

- Digital display for speed and time
- Speed increase in steps of 10 rpm
- Robust metal case
- Secure stand at high speed thanks to supports with high vibration damping
- Can be loaded with e. g. max. 6 Erlenmeyer flasks 250 ml or 2 multi racks each for 12 test tubes (max. tube diameter 29 mm, length min. 85 mm)

Vortex-Genie® Max additionally:

- Unique ratcheting clamping system, ideal for repetitive protocols and use with open containers
- Fully programmable
- Revers and interval mixing
- Pulse function

Scope of supply:

Multi Vortex-Genie®: Shaker, Platform with clamp/tension roller (for securely attaching standing vessels), 2 multi-racks

Vortex-Genie® Max: Shaker, Platform with 2 ratcheting clamps

Specifications

Type of movement:	orbital
Orbit:	4 mm
Speed range:	200 ... 950 rpm // 500 ... 2000 rpm
Overall dimensions (W x D x H):	310 x 270 x 195 mm
Weight:	11.3 kg // 10.4 kg
Supply requirements:	230 V, 50 Hz

Multi Vortex-Genie® // Vortex-Genie® Max

Type	Plug type	PK	Cat. No.
Multi Vortex-Genie®	EU	1	9.730 090 2
Multi Vortex-Genie®	UK	1	6.265 221
Multi Vortex-Genie®	CH	1	6.265 222
Vortex-Genie® Max	EU	1	4.670 816 3
Vortex-Genie® Max	UK	1	4.670 817
Vortex-Genie® Max	CH	1	4.670 818

Suitable accessories can be found in our online shop.

3


4.670 816

4. Stirring, Shaking, Mixing Shakers and mixers/Orbital shakers

1 Orbital Shaker PSU-10i Grant

Microprocessor controlled shaking platform providing smooth and quiet horizontal orbital motion for mixing in bottles, flasks and beakers.

- Continuous or timed operation with automatic switch-off
- Reliable direct drive system
- Automatic load balancing system
- The five interchangeable accessory platforms enable a wide choice of vessels to be used, including bottles, flasks and beakers, dishes, boxes and petri-dishes.

Specifications

Type of movement:	orbital
Orbit:	10mm
Max. Load:	3kg
Speed range:	50 to 450rpm/10rpm increments
Timer range:	1min to 96 hours or continuous
Overall dimensions (W x D x H):	220 x 205 x 90mm
Power supply:	100 - 240V, 50/60Hz

Type	PK	Cat. No.
PSU-10i	1	9.721 019



Accessories for Orbital shaking platform PSU-10i Grant

Type	Description	PK	Cat. No.
Bio PP-4	Flat platform, working area 230 x 230mm	1	9.721 018
PUP-12	Universal platform, working area 270 x 195mm	1	9.721 021
P12-100	Platform with clamps for 12 x 100ml flasks / 150ml beakers	1	9.721 023
P6-250	Platform with clamps for 6 x 250ml flasks / 300ml beakers	1	9.721 024
P16-88	Platform with spring holders for 88 tubes up to 30mm	1	9.721 049



9.721 021

Orbital shakers SHLD series OHAUS

These light Duty Shakers are designed for applications with loads up to 3.6 kg. Choose from two orbits and speed ranges to optimize your sample mix.

Microprocessor-controlled and available as an analog model with basic speed control, 3 digital models which include a non-slip mat. The mat can be removed to mount flask clamps and tube racks directly onto the tray.

The digital Microplate Shaker model can hold up to 4 microplates or 2 microtube racks.

- Microprocessor Control
- Triple Eccentric Drive
- Speed Ramping Feature
- Spill-Resistant Design
- Suitable for CO₂ environments

Digital models additionally with:

- Overload protection
- LED display for speed and time
- Audible Alarm

Scope of supply:

0415AL/0415DG/0403DG: Shaker incl. built-in tray and non-slip rubber mat

MP03DG: Microplate shaker incl. built-in tray with holder for 4 microplates or 2 microtube racks

Specifications

Type of movement:	orbital
Max. Load:	3.6 kg
Max. Load MP03DG:	4 microplates or 2 microtube racks
Motor:	brushless DC motor
Timer:	1 s to 160 h (0415AL without Timer)
Dimensions (L x W x H):	413 x 254 x 102 mm
Weight:	11.3 kg
Power supply:	230 V, 50/60 Hz

Type	Min. speed rpm	Max. speed rpm	PK	Cat. No.
0415AL	40	300	1	4.659 467
0415DG	40	300	1	4.659 470
0403DG	100	1200	1	4.659 468
MP03DG	100	1200	1	4.659 469



4.659 467



4.659 470



4.659 469

1


1 Orbital shaker RS-OS series

A compact, orbital shaker with ideal swivel motion. The shakers can be set up individually by using the comprehensive range of accessories.

Phoenix Instrument

Features at a glance RS-OS 10/20:

- compact shaker for a maximum shaking weight of 2.5 and 7.5 kg
- Backlight LCD display for speed and timer adjustment.
- Speed, time and operating mode can be viewed simultaneously
- Comprehensive accessories
- Adjustable safety speed
- PC control via RS232 interface, the special Shaker PC software can realise the setting of instrument parameters on the PC and the display of working curves real-time.
- 2 years warranty

Please order attachments and further accessories separately.

Specifications	RS-OS10 // RS-OS 20
Type of movement:	orbital
Orbit:	4 mm
Speed range:	100 ... 800 rpm // 100 ... 500 rpm
Max. Load:	2.5 kg // 7.5 kg
Power consumption:	30 W
Speed display:	digital
Interface:	RS-232
Platform dimensions (W x D):	240 x 240 mm
Overall dimensions (W x D x H):	340 x 300 x 100 mm // 420 x 370 x 100 mm
Weight:	8.1 kg // 13.5 kg
Voltage:	100 ... 240 V
IP code:	IP 21

Type	PK	Cat. No.
RS-OS 10	1	9.852 120
RS-OS 20	1	9.852 121

2


2 Accessories for shakers RS-OS/RS-LS/RS-RS 5/RS-DS 5 series

Phoenix Instrument

Type	Description	For Type	PK	Cat. No.
RSS-E 100	Universal attachment with clamping rolls	OS/LS 10, RS/DS 5	1	9.852 125
RSS-E 110	Universal attachment with vertical adjustable clamping rolls	OS/LS 10, RS/DS 5	1	9.852 127
RSS-E 200	Universal attachment with clamping rolls	OS/LS 20	1	9.852 129
RSS-E 220	Dish attachment with tensioning belt	OS/LS 20	1	9.852 146
RSS-E 160	Dish attachment, 200 x 300 mm	OS/LS 10, RS/DS 5	1	4.660 779
RSS-E 165	Dish attachment, 280 x 280 mm	OS/LS 10, RS/DS 5	1	4.660 780
RSS-E 168	Connectors for 2 dish attachments	RSS-E 160, RSS-E 165	4	4.660 781

3


3 Platform shaker Mini-100 Orbital-Genie®

Benchtop orbital shaker with non-slip, rubber-coated platform and spill-proof edges for gentle shaking.

Scientific Industries

- Variable shaking speed up to 100 min⁻¹
- Also suitable for use in cold rooms and incubators (not CO₂ incubators)
- Further platform optionally available

Scope of delivery: Shaker incl. platform

Specifications	
Type of movement:	orbital
Orbit:	19 mm
Speed range:	20 ... 100 rpm
Max. Load:	3 kg
Working temperature:	0 ... 38 °C
Platform dimensions (W x D):	290 x 290 mm
Overall dimensions (W x D x H):	350 x 350 x 85 mm
Net weight:	3.5 kg

Type	Plug type	PK	Cat. No.
Mini-100 Orbital-Genie	EU	1	4.667 502
Mini-100 Orbital-Genie	UK	1	4.667 503
Mini-100 Orbital-Genie	CH	1	4.667 504

1 2 Digital Orbital Shaker

- Electronically controlled and programmable shakers
- Slow, soft-start greatly decreases the risk of spills
- Erlenmeyer flasks, beakers, culture flasks and micro plates can easily be fixed using 8 rubber strips
- Digital LCD display for speed and run time control
- Integrated overload shutdown
- Permanent motor feedback, which automatically adjusts the speed even if the load is changed during operation
- Continuous mode or timer for up to 49 hours
- Soft rubber feet minimise system movement
- Platform with non-slip surface

Platform capacity:

Erlenmeyer Flasks e.g.: 25 x 50 ml, 16 x 125 ml, 9 x 250 ml, 4 x 500 ml, 4 x 1000 ml, 1 x 2000 ml

Beakers e.g.: 36 x 50 ml, 25 x 100 ml, 16 x 250 ml, 9 x 400 ml, 4 x 1000 ml

Deep well assay plates e.g.: 6 x standard (more if stacking is an option)

Supplied with: Orbital Shaker incl. universal attachment, universal power supply, non-slip rubber mat and 8 elastic ties

Specifications

Type of movement:	orbital
Orbit:	19.0 mm
Speed range:	20 to 300rpm
Max. Load:	4.5kg
Timer range:	1min to 49 hours or continuous
Speed display:	digital
Ambient conditions:	4 to 40°C; 20% to 40% RH, non-condensing
Platform interior dimensions:	279 x 279mm
Overall dimensions (W x D x H):	314 x 310 x 197 mm
Weight:	8.2kg
Power supply:	100 to 240 V, 50/60 Hz
Warranty:	5 years

Type	PK	Cat. No.
Orbital shaker	1	6.270 566

Heathrow Scientific



2



3 Orbital shaker SSM1

- Smooth orbital shaking action
- Built-in digital timer
- Variable speed control 30 to 300rpm
- Supplied with non-slip mat for microplates etc.
- Optional accessory cradle system for flasks and bottles

The compact SSM1 provides a smooth uniform circular motion with an orbit of 16mm. It is supplied with a non-slip mat that can hold up to four microplates or diagnostic cards. Alternatively, an accessory cradle system is available that can accommodate a variety of vessels including flasks, bottles or beakers via four rubber securing bars. It will hold up to: 4 x 250ml or 2 x 500ml or 1 x 1000ml Erlenmeyer Flasks or bottles.

Speed is variable from 30rpm to 300rpm. Once set on the digital display, the shaking speed is effectively maintained even over long periods of time. Shaking times can be set to run for 1 second to 9 hours on the built-in digital timer, or the unit can also be set for continuous operation.

With BioCote, silver-based, antimicrobial protection.

Specifications

Type of movement:	orbital
Orbit:	16mm
Speed range:	30 to 300rpm
Max. Load:	3kg
Platform dimensions (W x D):	220 x 220mm
Overall dimensions (W x D x H):	240 x 300 x 140mm
Net weight:	5kg
Supply requirement:	230V, 50Hz, 50W

Type	PK	Cat. No.
SSM1	1	9.728 830

Attachments are not included. - Please order separately.

Stuart



1


1 Orbital Shaker PSU-20i

 Powerful and efficient microprocessor controlled, multi-functional orbital shaker Grant

providing all that is required to mix your samples: rotation, reciprocation and vibration. This enables optimisation of the mixing whether in flasks, beakers, Petri dishes or other laboratory vessels.

- Orbital motion, orbital reciprocation and vibration functions all in one product
- Reciprocal rotation: 0 to 360° turning angle, in 30 degree steps
- Vibration: 0 to 5° turning angle, 1 degree steps
- Loading capacity: 8 kg
- Fully programmable sequence that can use one or all the functions
- 6 interchangeable platforms for vessels up to 1000ml including a multi-level platform to hold a large number of various microplates, Petri dishes and culture bags.

Scope of supply: Orbital Shaker PSU-20i, external power adapter, manual and certificate.

Optional Platform attachments please order separately.

Specifications

Type of movement:	orbital/reciprocal/vortex
Orbit:	20mm/0 to 360°/0 to 5°
Speed range:	20 to 250rpm
Max. Load:	8kg
Timer:	1min to 96h
Permissible ambient temperature:	4 to 40°C
Dimensions (W x D x H):	410 x 410 x 130mm
Weight:	11.7kg
Power supply:	240V, 50/60Hz

Type	Plug type	PK	Cat. No.
PSU-20i	EU/UK	1	6.256 816

2


9.721 063

Accessories for Orbital shaker PSU-20i

Grant

Type	Description	PK	Cat. No.
PUP-330	Universal platform with adjustable bars	1	9.721 081
PP-20	Platform flat with non-slip mat, 480 x 380 mm	1	6.256 809
PP-20-3	Platform flat 3-level tower with non-slip mat, 480 x 380 x 460 mm	1	6.267 727
PP-20-4	Platform flat 4-level tower with non-slip mat, 480 x 380 x 600 mm	1	6.282 418
P30-100	Platform with clamps for 30 x 100 ml flasks	1	9.721 061
P16-250	Platform with clamps for 16 x 250 ml flasks	1	9.721 062
P9-500	Platform with clamps for 9 x 500 ml flasks	1	9.721 063
P6-1000	Platform with clamps for 6 x 1000 ml flasks	1	9.721 064

3


4.670 829

Platform shaker Mini-300 Orbital-Genie®

NEW

 Compact and powerful high-speed benchtop shakers with a choice of 3 models for various applications. Scientific Industries

- Model with ratcheting clamps provides the flexibility for using a mix of different size and shape vessels on one single platform
- Model with flask clamps for accommodating various flask or beaker sizes
- Model with adhering mat is perfectly suitable for open containers
- Suitable for use in cold rooms and incubators (Not for CO₂ incubators)

Scope of supply: Shaker, platform

Please order clamps for Mini-300 Orbital-Genie with flask separately.

Specifications

Type of movement:	orbital
Orbit:	19 mm
Speed range:	35 ... 300 rpm
Max. Load:	3 kg
Working temperature:	0 ... 38 °C
Platform dimensions (W x D):	305 x 305 mm
Overall dimensions (W x D x H):	350 x 350 x 85 mm
Net weight:	10.3 kg

Type	Description	Plug type	PK	Cat. No.
Mini-300 Orbital-Genie®	Ratcheting Clamps	EU	1	4.670 823
Mini-300 Orbital-Genie®	Ratcheting Clamps	UK	1	4.670 824
Mini-300 Orbital-Genie®	Flask Clamps	EU	1	4.670 826
Mini-300 Orbital-Genie®	Flask Clamps	UK	1	4.670 827
Mini-300 Orbital-Genie®	Adhering Mat	EU	1	4.670 829
Mini-300 Orbital-Genie®	Adhering Mat	UK	1	4.670 830

Orbital shaker SHHD series

With load capacities from 16 to 68 kg and over 70 accessory options, the Heavy Duty Shakers are designed to handle a range of applications. Available as analog or digital models with microprocessor control to provide variable speed and consistent shaking, while ramping to the set speed. Microprocessor displays the last set-point and will restart if power is interrupted. Built-in tray and non-slip rubber mat included with all models.

- Microprocessor Control
- Triple Eccentric Drive
- Speed Ramping Feature
- Spill-Resistant Design
- Suitable for CO₂ environments

Digital models additionally with:

- Patented Accu-Drive Shaking System
- Touchpad Control with Independent LED Displays for speed and time
- Speed Calibration Mode
- RS232 Interface
- Load Sensor and Overload Protection
- Audible Alarm

Scope of supply: Shaker incl. built-in tray and non-slip rubber mat

Specifications

Type of movement:	orbital
Motor:	brushless DC motor
Timer Models analogue/digital:	1 s to 120 min/1 s to 160 h
Environment Models analogue/digital:	0 to +40 °C/-10 to +60 °C
Power supply:	230 V, 50/60 Hz

Type	Permissible shaking quantity / maximum load kg	Min. speed rpm	Max. speed rpm	Shaking stroke / Shaking orbit mm	Dimensions (W x D x H) mm	PK Cat. No.
1619AL	16.0	25	500	19	355 x 413 x 149	1 4.659 457
1619DG	16.0	15	500	19	355 x 413 x 149	1 4.659 458
2325AL	22.7	25	500	25	678 x 610 x 149	1 4.659 461
2325DG	22.7	20	500	25	678 x 610 x 149	1 4.659 462
4525DG	45.4	15	500	25	678 x 729 x 170	1 4.659 463
4550DG	45.4	15	300	51	678 x 729 x 170	1 4.659 464
6825DG	68.0	15	300	25	914 x 744 x 170	1 4.659 465
6850DG	68.0	15	300	51	914 x 744 x 170	1 4.659 466

1



4.659 457

2



4.659 465

Orbital shaker KM CO₂/KM 2

KM CO₂/KM CO₂-FL: Stainless Steel Shaker especially for incubators with CO₂ concentration.

Scope of supply: Shaker incl. basic platform with rubber mat and external control unit.

KM 2: Highly reliable shaker which requires little space.

Scope of supply: Basic device incl. basic platform and rubber mat.

Specifications

Type of movement:	orbital
Orbit:	20 mm
Speed range:	5 ... 220 rpm, in steps of 5
Max. Load:	2 kg
CO ₂ concentration (KM CO ₂):	20 %
Timer:	0 ... 99 h 59 min/continuous
Power consumption:	4 W
Permissible ambient temperature:	4 ... 45 °C
Length standard cable (KM CO ₂):	2000 mm
Length ribbon cable (KM CO ₂ -FL):	1200 mm
Dimensions platform (B x T):	200 x 295 mm
Power supply:	100 ... 240 V, 50/60 Hz
Protection class:	IP 21

3

Bühler



6.285 189

4



9.838 140

Type	Dimensions (W x D x H) mm	Net weight kg	PK Cat. No.
KM CO ₂	230 x 340 x 145	7.6	1 6.285 189
KM CO ₂ -FL	230 x 340 x 145	7.6	1 6.275 858
KM 2	250 x 415 x 145	8.1	1 9.838 140

1


6.900 348

Accessories for Orbital shaker KM CO₂/KM 2

Bühler

Description	PK	Cat. No.
Universal tray KM Mini for KM (without spring clamps)	1	6.070 276
Universal tray KM (without spring clamps)	1	6.900 348
Clamping strips KM	1	6.070 277

2


2 Orbital shaker MaxQ 2000 CO₂ Plus, CO₂ resistant

NEW

Thermo Scientific

CO₂-resistant orbital shaker with variable speed and external digital control unit. Suitable for use in CO₂ incubators.

- Speed adjustment from 30 to 300 min⁻¹
- Brushless magnetic shaker motor
- External control unit with LED display for easy setting and display of device parameters without opening the incubator door
- Minimum heat output
- With timer
- Stainless steel construction for protection against atmospheres up to 20 % CO₂ content

Platforms are not included - Please order separately.

Scope of supply: shaker, control unit, mains adapter

Specifications

Type of movement:	orbital
Speed range:	30 ... 300 min ⁻¹
Accuracy:	±1 min ⁻¹
Orbit:	19 mm
Max. load:	6 kg
Timer:	59 min ... 99 h
Environment:	4 ... 60 °C, r.F. 90 %
Dimensions (W x D x H):	360 x 300 x 96 mm
Weight:	13 kg
Warranty:	2 years
Power supply:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
MaxQ 2000 CO2 Plus	1	6.311 871

Accessories for orbital shaker MaxQ 2000 CO₂ Plus, CO₂-resistant

NEW

Thermo Scientific

Type	PK	Cat. No.
Clamp for 50 ml flasks	1	4.671 320
Clamp for 100 ml flasks	1	4.671 321
Clamp for 150 ml flasks	1	4.671 322
Clamp for 200 ml flasks	1	4.671 323
Clamp for 250 ml flasks	1	4.671 324
Clamp for 500 ml flasks	1	4.671 325
Clamp for 1000 ml flasks	1	4.671 326
Clamp for 2000 ml flasks	1	4.671 327
Clamp for 3000 ml flasks	1	4.671 328
Clamp for 5000 ml flasks	1	4.671 329
500 ml Infusion bottle clamp	1	4.671 330
1000 ml Infusion bottle clamp	1	4.671 331
Separating funnel clamp	1	4.671 332
Tube rack 40 x 14 mm	1	4.671 333
Tube rack 40 x 16 mm	1	4.671 334
Adjustable tube rack 40 x 14 mm	1	4.671 335
Adjustable tube rack 40 x 16 mm	1	4.671 336
Aluminium universal platform	1	4.671 337
Platform with rubber mat	1	4.671 338
96-well microplate holder	1	4.671 339
Spring wire frame	1	4.671 340
Adhesive mat 140 x 140 mm	1	4.671 341

1 Orbital shakers SSL1

- digital speed selection up to 300rpm with soft start
- built-in digital timer
- reliable, quiet running mechanism
- fully adjustable cradle system

Stuart

This lab scale platform shaker has powerful yet quiet shaking mechanisms and has been designed for trouble-free, continuous use. The cradle type platforms have four rubber cushioned horizontal securing bars which can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. For example, they will accommodate the following Erlenmeyer flasks or bottles: 12 x 250ml or 9 x 500ml or 6 x 1000ml or 2 x 2000ml. Speed is continuously adjustable and is set digitally. The speed is accurately maintained, even over long runs. A built-in digital timer allows shaking times from 1 to 999 minutes to be set. Alternatively the unit can be set for continuous operation.

With BioCote silver based antimicrobial protection.



Specifications

Type of movement:	orbital
Orbit:	16 mm
Speed range:	30 ... 300 rpm
Max. Load:	10 kg
Timer:	1 ... 999 min
Power consumption:	50 W
Working temperature:	4 ... 40 °C
Platform dimensions (W x D):	335 x 335 mm
Overall dimensions (W x D x H):	360 x 420 x 270 mm
Net weight:	11 kg
Supply requirements:	230 V, 50 Hz
Protection class:	IP 31

Type	PK	Cat. No.
SSL1	1	9.728 840

Orbital shaker, KS 260 basic/Package/KS 260 control/Package

Compact, low-level, platform shaker with highly effective, orbital motion, maximum capacity 7.5 kg. Large selection of attachments enable use with a wide variety of vessel shapes and sizes. Electronic speed control and timer adjustment.

IKA

Only Orbital shaker KS 260 control/ Package:

- Separate digital speed and timer displays with operating mode indication
- Timer: 0 to 9 h 59 min or continuous operation
- Controlled stop-point positioning function (enables use in automated robotic sampling routines)
- All functions can be controlled and documented using labworldsoft® software
- Interface: RS 232/analogue
- Special variant with reverse rotation function available on request



9.838 074

Attachments are not included - Please order separately.

Specifications

Type of movement:	orbital
Orbit:	10mm
Max. Load (incl. attachment):	7.5kg
Motor rating input/output:	45/10W
Speed range KS 260 basic/KS 260 control:	20 to 500rpm/10 to 500rpm
Speed indication KS 260 basic/KS 260 control:	LED/digital
Timer KS 260 basic/KS 260 control:	5 to 50min/continuous/1 to 599min/continuous
Dimensions (W x D x H):	360 x 420 x 98mm
Weight KS 260 basic/KS 260 control:	8.5kg/8.8kg
Housing IP rating to DIN EN 60529:	IP21
Interface:	RS232/analogue
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	



9.838 175

Type	Plug type	PK	Cat. No.
KS 260 basic	EU	1	9.838 074 2
KS 260 control	EU	1	9.838 175 3

➔ Accessories for KS260, see page 517.

1


1 Orbital shaker SHEX1619DG

Ideal for applications that require CO₂ and humidity for optimal cell growth, the Extreme Environment Shaker is designed for use in extreme environments such as CO₂ incubators. A remote controller allows for external control of settings without disturbing the incubator atmosphere, and the shaker base is placed inside of the incubator. OHAUS

- Designed for use in CO₂ Incubators
- Can withstand extreme environments up to 100 % humidity
- Remote controller magnetically attaches to most incubators
- Patented Accu-Drive Shaking System
- Microprocessor Control
- Triple Eccentric Drive
- Speed Ramping Feature
- Spill-Resistant Design
- Touchpad Control with Independent LED Displays for Speed/Time
- Speed Calibration Mode
- RS232 Interface
- Overload Protection
- Audible Alarm

Scope of supply: Shaker incl. built-in tray and non-slip rubber mat

Specifications

Type of movement:	orbital
Orbit:	19 mm
Speed range:	15 to 500 rpm
Max. Load:	16 kg
Motor:	brushless DC Motor
Permissible ambient conditions:	-10 to +60 °C
Dimensions (W x D x H)	
Instrument:	294 x 355 x 149 mm
Remote control:	150 x 356 x 112 mm
Weight:	22.2 kg
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
SHEX1619DG	1	4.659 459

2


2 Orbital shaker KS501 digital

Low-profile laboratory shaker with large platform and 15kg load capacity. With continuously adjustable speed range: 0 to 300rpm, digital display and timer. Continuous operation is guaranteed even under extreme loads. Requires accessory attachments for operation (these are not supplied) IKA

Ideally suited for vessel sizes over 250ml, e.g. round bottom flasks, erlenmeyer flasks, culture flasks, bottles etc. Developed for biological and microbiological growth tests and for production of stock solutions.

Specifications

Type of movement:	orbital
Orbit:	30mm
Max. Load (incl. attachment):	15kg
Motor rating input/output:	70/19W
Speed range:	0 to 300rpm
Timer:	0 to 56 min./continuous
Interface:	RS 232
Dimensions (W x D x H):	505 x 585 x 120mm
Weight (without attachment):	26kg
Protection class acc. to DIN EN 60529:	IP21
Supply requirements:	230V 50/60Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
KS 501 digital	1	6.285 448

Optional accessories: Shaking attachments: AS 501.1, AS 501.4, AS 501.5, Non-slip mat STICKMAX

Shakers, KS/HS501 digital, accessories

For orbital shaker Ika KS501 digital and reciprocating shaker Ika HS501 digital.

IKA

AS 501.1 Universal attachment

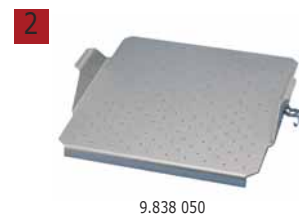
For a variety of vessels (flasks, beakers etc.) with volumes of at least 50 ml (ideally greater than 250 ml). With tension rollers that can be mounted on 2 levels.
Usable area: 420 mm x 420 mm.
Dimensions (W x D x H) 480 mm x 500 mm x 120 mm. Weight: 4000 g.



9.838 046

AS 501.4 Gridded clip attachment

(Without spring clips). For shaking round bottom, flat-bottom, pear-shaped, volumetric and erlenmeyer flasks etc. Minimum volume 25 ml. Dimensions (W x D x H) 475 mm x 460 mm x 95 mm, weight 2640 g.
Capacity: Number of fixing clips (volume held) 110 x AS 2.1 (25ml), 55 x AS 2.2 (50 ml), 35 x AS 2.3 (100 ml), 16 x AS 2.4 (250 ml), 12 x AS 2.5 (500 ml), 8 x AS 2.6 (1000 ml)



9.838 050

AS 501.5 Dish attachment

For the gentle movement of petri dishes, but also suitable for gentle mixing in vessels with large, flat bottoms (wide mouth erlenmeyers, beakers). Fitted with a non-slip, plastic mat.
Dimensions (W x D x H) 450 mm x 450 mm x 45 mm.
Usable area: 420 mm x 420 mm, weight 1120 g



9.838 049

Further accessories on request.

Type	Description	PK	Cat. No.
AS 501.1	Universal attachment	1	9.838 046
AS 501.4	Gridded clip attachment*	1	9.838 050
AS 501.5	Dish attachment	1	9.838 049

* Clips AS 2.1 (9.838 091), AS 2.2 (9.838 092), AS 2.3 (9.838 093), AS 2.4 (9.838 094), AS 2.5 (9.838 095) please order separately.

Orbital shakers Solaris™ 2000 and 4000



Thermo Scientific

Robust, high-capacity orbital shakers for advanced research, production and routine tasks. Can be used in incubators, climatic cabinets and refrigerators. With variable speed adjustment from 15 to 525 min⁻¹.

- For timer and continuous operation
- 99 individual programs can be stored
- Gentle starting and stopping of the device
- Automatic Imbalance detection with optical/acoustic alarm: the device stops until the incorrect loading has been corrected
- Automatic restart after disconnection of the power supply while maintaining all parameters
- Large, easy-to-read touchscreen display with speed and run time indication
- With maintenance-free, brushless motor
- Logging of warnings, alarms and operating steps
- USB and Ethernet connection for data output and device monitoring
- Low noise level
- Easily removable platforms and rounded corners for rapid cleaning



6.311 880

Scope of supply: shaker, mains cable, universal platform, platform screws and screw locking lacquer

Specifications

Type of movement:	orbital
Speed range:	15 ... 525 min ⁻¹
Accuracy:	±1 min ⁻¹
Orbit:	25 mm
Timer:	59 min ... 99 h
Environment:	-5 ... 40 °C, 80 % r.H.
IP code:	IP 20
Warranty:	2 years
Power supply:	100 ... 240 V, 50/60 Hz

Type	Permissible shaking quantity / maximum load kg	Width of the moving table mm	Depth of the moving table mm	Dimensions (W x D x H) mm	Net weight kg	PK	Cat. No.
Solaris™ 2000	19	305	356	370 x 470 x 150	20.9	1	6.311 880
Solaris™ 4000	38	762	457	580 x 650 x 180	75.1	1	6.311 881

1

1 2 Orbital shaker LLG-uniSHAKER 25

Powerful and smooth running orbital shaker. The maintenance-free brushless motor and the shaking mechanism with counterweight ensure smooth and stable running at all times. Digital display for speed and time.

Two different platforms (610 x 460 mm or 760 x 460 mm) and 7 clamps for vessels from 25 ml to 2000 ml available.

Please order platforms and clamps separately.

- Maximum load 25 kg

- Sturdy and robust steel housing
- Digital display with speed and time settings
- Variable speed from 50 to 500 min⁻¹
- Orbital Diameter of 25 mm for thorough mixing
- Timer setting from 1 to 99 min and continuous mode
- Various platforms and brackets available

Scope of supply: shaker, mains cable

2

Specifications

Type of movement:	orbital
Orbital diameter:	25 mm
Speed range:	50 ... 500 min ⁻¹
Max. load:	25 kg
Motor:	brushless DC motor
Timer:	1 ... 99 min, continuous
Power consumption:	250 W
Permissible ambient temperature:	4 ... 75 °C
Dimensions (W x D x H):	600 x 550 x 150 mm
Weight:	48 kg
Power supply:	230 V, 50 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniSHAKER 25	EU	1	6.263 590
LLG-uniSHAKER 25	UK	1	6.263 599

3


6.263 589

Accessories for Orbital shaker LLG-uniSHAKER 25

Description	PK	Cat. No.
Universal attachment, 610 x 460 mm	1	6.263 591
Universal attachment, 610 x 460 mm, with securing bars	1	6.263 589
Universal attachment, 760 x 460 mm	1	6.263 592
Clamp, 25 ml	1	6.263 699
Clamp, 50 ml	1	6.263 700
Clamp, 100 ml	1	6.263 593
Clamp, 250 ml	1	6.263 594
Clamp, 500 ml	1	6.263 595
Clamp, 1000 ml	1	6.263 596
Clamp, 2000 ml	1	6.263 597
Adhesive rubber mat, blue, 150 x 150 x 3 mm	2	6.263 598

4


9.838 400

Multi-Flask Shaker VKS 75 control

Big heavy-duty shaker for high loads also during continuous operation (floor installation only). Further accessories on request.

Bühler

Scope of supply: Basic device without shaking plate, without rack system. With digital display and programmable control with Touch-Display.

Specifications

Speed range:	30 ... 200 rpm in steps of 5
Orbit or stroke:	26 mm (model A) 50, 36, 60 or 80 mm (model B)
Max. loading:	max. 75 kg
Platform (W x D):	760 x 600 mm
Overall (W x D x H):	1050 x 835 x 250 mm
Weight:	110 kg
Supply requirements:	100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.
VKS 75 A control	1	9.838 400
VKS 75 B control	1	9.838 403

1 Combi shaker KL 2

Mini shaker which can be switched between orbital and reciprocating motions. Includes flask attachment system with 3 clamping rollers. Versatile, for use in medical diagnostics, haematology, for cell cultivation or analysis. Max. load 4 x 500 ml or 2 x 1000 ml Erlenmeyer flasks.

Bühler

Scope of supply: Shaker and accessory platform with 3 clamping rollers and anti-slip mat.

Speed range:	30 ... 420 rpm with stepless electronic adjustment
Orbit or stroke:	8 mm
Max. loading:	2 kg
Platform (W x D):	300 x 300 mm
Timer:	0 ... 120 min/continuous
Overall (W x D x H):	355 x 455 x 195 mm
Weight:	13.5 kg
Supply requirements:	230 V, 50/60 Hz
Protection class:	IP 21



Type	PK	Cat. No.
KL 2	1	9.838 320

2 Flask shaker SF1

Creates a vigorous reciprocal shaking action. With clamps to accept 8 flasks up to 500ml capacity. With stepless variable speed control from 80 to 800 oscillations/min. and 10 to 60 minute timer with off and continuous run settings. Electronic feedback control ensures a constant speed irrespective of the load. For 230V 50Hz single phase supplies. With BioCote, silver-based, antimicrobial protection.

Stuart

Scope of delivery: Flask shaker incl. 2 arms, 8 clamps and allen key..

Please order extension kit for shaking of 12 bottles or flasks separately.

Specifications

Type of movement:	reciprocal
Orbit:	1.5 mm
Speed range:	8 ... 800 rpm
Max. Load:	3 kg
Timer:	10 ... 60 min/continuous
Power consumption:	50 W
Permissible ambient temperature:	5 ... 40 °C
Dimensions (W x D x H):	780 x 270 x 240 mm
Weight:	8.3 kg
Power supply:	230 V, 50 Hz



Type	PK	Cat. No.
SF1	1	9.950 372

3 Reciprocating shaker HS 501 digital

Low-profile laboratory shaker with large platform and 15kg load capacity. With continuously adjustable speed range: 0 to 300rpm, digital display and timer. Continuous operation is guaranteed even under extreme loads. Requires accessory attachments for operation (these are not supplied). Ideally suited for flasks, measuring cylinders and particularly separating funnels. Developed for universal applications.

IKA

Specifications

Type of movement:	reciprocal
Shaking diameter:	30 mm
Max. Load (with attachment):	15 kg
Motor rating input/output:	70/19 W
Speed range:	0 to 300rpm
Timer:	0 to 56 mins./continuous
Dimensions (W x D x H):	505 x 585 x 120 mm
Weight (without attachment):	26 kg
Protection class acc. to DIN EN 60529:	IP 21
Supply requirements:	230 V, 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	PK	Cat. No.
HS 501 digital	1	6.270 850



➔ Accessories for Model HS 501 - please see page 513.

1


9.838 305

Compact shakers, KS 15 series / KS 15 control

Robust shakers for medium loads. Cost-effective. Suitable for continuous operation. Bühler
 From gentle orbital movement for cell or tissue cultures to powerful reciprocating movement of shallow vessels or separating funnels in food or environmental analysis. Programmable controller with Touch-Display and advanced features for control devices.

Comprises: shaker without platform. Requires, but is not supplied with, platform attachments for operation.

Accessories:

- Attachment Combifix KS with 3 clamping strips and rubber mat
- Universal tray KS with holes for spring clips

Shaking speed:	30 ... 420 rpm continuously electronically adjustable, control devices in steps of 5
Orbit/travel:	17 mm
Max. loading:	15 kg
Timer:	0 ... 120 min/continuous, control devices programmable/continuous
Usable platform area (W x D):	400 x 300 mm
Overall (W x D x H):	510 x 490 x 150 mm
Weight:	19 kg
Supply requirements:	230 V, 50/60 Hz

Type	Type of movement	PK	Cat. No.
KS 15 A control	orbital	1	9.838 305
KS 15 B control	reciprocal	1	9.838 306
KS 15 A	orbital	1	9.838 307
KS 15 B	reciprocal	1	9.838 308

2


9.838 063

Reciprocating shaker, HS 260 basic / HS 260 control

Compact, low-level, platform shaker with highly effective, reciprocating motion, maximum capacity 7.5 kg. Electronic speed control and timer adjustment. Large selection of attachments enable use with a wide variety of vessel shapes and sizes. Attachments are not included - Please order separately. IKA

Only Reciprocating shaker HS 260 control:

- Separate digital speed and timer displays with operating mode indication
- Timer: 0 to 9 h 59 min or continuous operation
- Controlled stop-point positioning function (enables use in automated robotic sampling routines)
- All functions can be controlled and documented using labworldsoft® software

Specifications

Type of movement:	reciprocal
Shaking diameter:	20 mm
Max. Load (incl. attachment):	7.5 kg
Motor rating input/output:	45W/10 W
Speed range HS 260 basic/ HS 260 control:	20 to 300 rpm/10 to 300 rpm
Speed indication HS 260 basic/ HS 260 control:	LED/digital
Time switch clock HS 260 basic/ HS 260 control:	5 to 50min/continuous/1 to 599min/continuous
Dimensions (W x D x H):	360 x 420 x 100 mm
Weight HS 260 basic/ HS 260 control:	8.5 kg/8.8 kg
Housing IP rating to DIN EN 60529:	IP 21
Interface:	RS 232/analogue
Power supply:	230V, 50/60Hz
Tested to DIN EN IEC 61010-1.	

3


9.838 185

Type	Plug type	PK	Cat. No.
HS 260 basic	EU	1	9.838 063
HS 260 control	EU	1	9.838 185

4. Stirring, Shaking, Mixing Shakers and mixers/Reciprocating shakers

Accessories for shakers HS/KS 260

AS 260.1 Universal attachment

Able to hold most types of container using adjustable tension rollers. Surface: 320 x 320mm

AS 260.2 Fixing clip platform

For shaking round bottom vessels, volumetric and Erlenmeyer flasks. Supplied without clips.

Max. number of clips (capacity held): 56 x AS 2.1 (25ml), 23 x AS 2.2 (50ml), 23 x AS 2.3 (100ml), 11 x AS 2.4 (250ml), 9 x AS 2.5 (500ml), 5 x AS 2.6 (1000ml)

AS 260.3 Petri dish attachment

For gentle mixing and suspension of cell cultures or growth media in petri dishes, culture bottles and containers. With integral anti-slide mat (PP).

AS 260.5 Separating funnel attachment

For HS 260 basic and control

For shaking, elution, extraction, gassing out, dissolving, enriching. The 3 tension rollers supplied are height-adjustable to accommodate different separating funnel sizes. The separating funnels are secured by means of O-rings (6 O-rings supplied).

Capacity: Number of funnels (pear shaped) x volume 6 x 50ml, 5 x 100ml, 3 x 250ml, 3 x 500ml

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.
AS 260.1	Universal attachment	425 x 335 x 135	1	9.838 080
AS 260.2	Gridded clip platform attachment*	330 x 330 x 24	1	9.838 191
AS 260.3	Petri dish attachment	410 x 370 x 32	1	9.838 192
AS 260.5	Separating funnel attachment	334 x 425 x 145	1	9.838 193

* Clips AS 2.1 (9.838 091), AS 2.2 (9.838 092), AS 2.3 (9.838 093), AS 2.4 (9.838 094), AS 2.5 (9.838 095) please order separately.



Universal shakers, SM 30 series /SM 30 control

Powerful shakers for large loads. Choice of orbital or reciprocating action models.

Suitable for continuous operation. For analytical or diagnostic processes in biology, chemistry or pharmacy, plant culture or in the food industry, e.g. for transport simulations.

Various attachments for different requirements are available as accessories. Programmable controller with Touch-Display and advanced features for control devices.

Scope of supply: supplied with shaking rack and rubber mat.

Attachments required, please order separately.

Speed range:	15 ... 300 rpm
	stepless, electronic adjustment, control devices in steps of 5
Orbit or travel:	26 mm (A + C models)
	30, 46 or 50 mm (B models)
Max. loading:	30 kg
Timer:	0 ... 120 min/continuous, control devices programmable/continuous
Platform (W x D):	560 x 400 mm
Overall (W x D x H):	680 x 610 x 160 mm
Weight:	33 kg
Supply requirements:	230 V, 50/60 Hz

Type	Type of movement	PK	Cat. No.
SM 30 A	orbital	1	9.838 101
SM 30 B	reciprocating	1	9.838 111
SM 30 C	orbital, reciprocating	1	9.838 115
SM 30 A control	orbital	1	9.838 121
SM 30 B control	reciprocating	1	9.838 131
SM 30 C control	orbital, reciprocating	1	9.838 135

6 7 Accessories for universal shaker SM 30

Type	PK	Cat. No.
Rack system Combifix SM, Set A	1	9.838 201
Rack system Combifix SM, Set B	1	9.838 205
Rack system Combifix SM, Set C	1	9.838 208
Universal tray SM (without spring clamps)	1	9.838 210
Sliding plate for top frame with Combifix SM, Set A	1	6.231 576
Sliding plate for top frame with Combifix SM, Set B	1	6.285 190
Sliding plate for top frame with Combifix SM, Set C	1	6.285 191
Mounting set for universal trays or sliding plates	1	6.255 238
2-storey top frame SM (without platforms)	1	9.838 211
2-storey top fram SM/TH (for using SM with TH)	1	6.510 572

Bühler



9.838 121

Bühler



1



1 Rocking shaker RS-RS 5

Analogue laboratory shaker with a maximum load of 3 kg for gentle and effective mixing of samples.

Phoenix Instrument

- Safe stand
- Adjustable screw feet
- D.c. motor
- Wide range of accessories

Scope of supply: Shaker incl. tray attachment

Specifications

Type of movement:	rocking
Rocking angle:	7°
Max. Load:	3 kg
Rating:	16 W
Speed range:	0 to 80 rpm
Dimensions (W x D x H):	270 x 330 x 130 mm
Dimensions platform (W x D):	240 x 240 mm
Weight:	2.7 kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240 V, 50/60 Hz

Type	PK	Cat. No.
RS-RS 5	1	4.660 777

Rocking shaker 35 EZ

The Rocker 35 EZ is the next generation large capacity rocker from Labnet.

Labnet

This upgraded Rocker 35 is designed for durability in laboratories requiring a larger platform area and precise control over rocking parameters. It is backed by a 5 year warranty. Both speed and time are easily selectable and the analog control has been upgraded to display discreet values. The tilt is now easily adjustable with knob on side. This system can easily handle up to 5 kg of load so a double platform can be fully loaded without any variation to speed. This unit comes in both single and dual platform models and includes a ribbed non-slip rubber mat to keep containers in place.

2



6.283 296

Specifications

Type of movement:	rocking
Rocking angle:	adjustable, ±20°
Max. Load (incl. attachment):	5 kg
Timer:	10 to 120 min or continuous
Speed range:	10 to 120 rpm
Power:	6 W
Dimensions (W x D x H)single/double platform:	360 x 360 x 170 mm/360 x 360 x 260 mm
Weight single/double platform:	6.5 kg/7.8 kg
Power supply:	230 V, 50/60 Hz

Type	Description	Plug type	PK	Cat. No.
35 EZ	Single platform	EU/UK	1	6.283 296
35 EZ	Double platform	EU/UK	1	6.283 298

Rocking shaker Rocker 2D basic/2D digital

Rocking shaker with fixed speed for smooth mixing tasks. For homogeneous mixing in flasks, culture flasks, Petri dishes and tubes. Even with load and voltage fluctuations the shaking speed remains constant. A fixed tilt angle ensures reproducible test results.

- Different attachments allow a variety of applications
- Usable at 4 to 50 °C in incubators
- Anti-slip rubber mat included
- Easy operation by foil keypad
- Suitable for continuous operation

Rocker 2D digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	rocking
Rocking angle Rocker 2D basic/2D digital:	8°/0 - 15°
Max. Load (incl. attachment):	2kg
Motor rating input/output:	16/9W
Speed range:	5 to 80rpm
Speed display:	7 segment LED
Dimensions (W x D x H):	280 x 330 x 150mm
Weight:	2.2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	PK	Cat. No.
Rocker 2D basic	1	9.729 984
Rocker 2D digital	1	9.729 985

1

IKA



9.729 984

Rocking Shakers SHRK series

The Rocking Shakers are ideal for cell culture and blotting applications and are designed to be used in a variety of environmental conditions.

- Variable control for speed, tilt and time
- Two-tier model 07AL2 doubles workable capacity
- Low Profile Design
- Microprocessor Control
- Independent Control Knobs (analogue)
- Overload Protection
- Speed Ramping Feature
- Spill-Resistant Design
- Clock timer
- Suitable for CO₂ environments

Scope of supply:

- 07AL1/04DG:** Shaker incl. built-in tray with non-slip rubber mat
- 07AL2:** as 07AL1/04DG, additionally incl. second tray with screws and mat

Specifications

Type of movement:	rocking
Rocking angle:	0 to 15°
Timer models analogue/digital:	1 to 120 min/1 s to 160 h
Motor:	Stepper Motor
Permissible ambient conditions:	-10 to +60 °C
Weight:	7 kg
Power supply:	230 V, 50/60 Hz

Type	Permissible shaking quantity / maximum load kg	Min. speed rpm	Max. speed rpm	Display type	Dimensions (l x w x h) mm	PK	Cat. No.
07AL1	7	1	75	analogue	425 x 279 x 140	1	4.659 476
07AL2	7	1	75	analogue	425 x 279 x 241	1	4.659 477
04DG	4	1	50	digital	425 x 254 x 140	1	4.659 481

2

OHAUS



4.659 476

3



4.659 481

1 Rocking Shaker, Mini, SSM4

This compact rocker is ideal where gentle mixing is required. It has a see-saw rocking action that creates a wave motion within vessels such as culture flasks, Petri dishes etc.

Stuart

- Small space saving design, ideal for personal use
- Gentle rocking action
- Digital speed control and built-in timer
- Optional tier system available to increase capacity
- supplied with a non-slip mat
- digital selection of both speed and time

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples. With BioCote, silver-based, antimicrobial protection.

Specifications

Type of movement:	rocking
Rocking angle:	7°
Angle adjustable:	No
Speed range:	5 to 70rpm
Max. Load:	3kg
Platform dimensions (W x D):	235 x 235mm
Overall dimensions (W x D x H):	240 x 300 x 150mm
Net weight:	5kg
Power supply:	230V 50Hz, 50W

Type	PK	Cat. No.
SSM4	1	9.728 821



2 Rocking shaker SSL4, large platform

- Large platform rockers - ideal for multiple users
- Gentle rocking action
- Digital speed control and built-in timer
- Optional tier system available to increase capacity
- Incl. non-slip mat

Stuart

This rocker has large platform able to accommodate a number of samples, ideal for a busy lab. It is very quiet in operation and designed to be run continuously.

The see-saw rocking action creates a wave motion within vessels such as culture flasks, petri dishes etc.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples. With BioCote, silver-based, antimicrobial protection.

Specifications

Type of movement:	rocking
Rocking angle:	7°
Angle adjustable:	No
Speed range:	5 to 70rpm
Max. Load:	10kg
Platform dimensions (W x D):	355 x 355mm
Overall dimensions (W x D x H):	360 x 420 x 160mm
Net weight:	10kg
Supply requirements:	230V, 50Hz, 50W

Type	PK	Cat. No.
SSL4	1	9.728 801

Attachments are not included - Please order separately

4. Stirring, Shaking, Mixing

Shakers and mixers/Rocking shakers-Tumbling shakers

1 Rocking shaker PMR-100

Large capacity, adjustable angle and speed platform rocker, providing soft or intensive side to side rocking for optimal mixing of samples. For use in cold rooms or incubators with ambient operating temperature range +4°C to +40°C. Continuous or timed operation, with automatic switch-off. Integral timer: 1min to 99h 59min.

Grant



Specifications

Type of movement:	rocking
Rocking angle (adjustable):	0 to 10° (fixed at 10° over 50 rpm)
Max. Load (incl. attachment):	5 kg
Power consumption:	13 W
Speed range:	1 to 99 rpm
Speed display:	LCD
Dimensions platform (W x D):	480 x 380 mm
Dimensions (W x D x H):	430 x 480 x 210 mm
Weight:	12 kg
Protection class acc. to DIN EN 60529:	IP20
Power supply:	12 V

Type	PK	Cat. No.
PMR-100	1	9.721 015

2 Rocking shakers Duomax 1030

The Rocking shakers Duomax are suitable for the modular Incubator 1000 and are recommended for applications which require variable temperatures. With 2-dimensional tilting movement, suitable for petri dishes, culture bottles, erlenmeyer flasks and all standard vessels.

Heidolph

- 2 models available: Tilt angle to 5° for soft and gentle movements or tilt angle to 10° for a much stronger motion
- An overtemperature sensor preventatively shuts off the unit in a dangerous heat-up situation, particularly valuable for you in case of continuous operation
- Insulated drive system prevents any heat-up coming from the motor and consequently thermal damage to your sample
- Designed with a low center of gravity which prevents gliding at high speed, even on a damp surface
- Set and continuously adjust the variable speed on the analog control knob, suitable for all standard vessels
- An analog process timer allows for unattended operation. When the set time has elapsed, an acoustic alarm will sound and the operation stops



Specifications

Type of movement:	rocking
Tumbling angle:	5° or 10°
Speed range:	2 ... 50 rpm
Max. Load:	5 kg
Timer:	1 ... 120 min
Power consumption:	115 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Platform dimensions (W x D):	290 x 258 mm
Overall dimensions (W x D x H):	320 x 375 x 185 mm
Weight:	8 kg
Power supply:	230 V, 50/60 Hz
Protection class acc. to DIN EN 60529:	IP 40

Type	Inclination angle °	PK	Cat. No.
Duomax 1030	5	1	9.839 855
Duomax 1030	10	1	9.839 856



1 Tumbling Shaker LLG-uniSHAKER 2

Multi-functional shaker with dimpled mat, perfect for foam-free mixing of blood and other biological samples in centrifuge tubes. Suitable for a variety of tubes and dishes.

Scope of supply: shaker, non-slip mat

Specifications

Type of movement:	tumbling
Tumbling angle:	20°
Speed:	fixed, 20 min ⁻¹
Max. Load:	1.6 kg
Ambient Temperature:	4 ... 45 °C
Platform Dimensions (W x D):	202.5 x 152.5 mm
Dimensions (W x D x H):	202.5 x 152.5 x 202.5 mm
Weight:	2 kg
Power supply:	230 V, 50 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniSHAKER 2	EU	1	6.263 640
LLG-uniSHAKER 2	UK	1	6.263 641



2 Platform tumbling shaker PS-3D

Platform shaker with smooth, 3-dimensional tumbling movement. Ideal for mixing tubes, culture bottles, culture dishes and microtiter plates. Space-saving, robust and quiet.

Grant

- Simple speed adjustment
- Robust drive
- Suitable for continuous operation up to 7 days
- Low energy consumption
- With anti-slip mat
- Fixed angle of 7°

Specifications

Type of movement:	tumbling
Tumbling angle:	7°
Speed range:	5 to 60 rpm
Max. Load:	1.0 kg
Ambient Temperature:	+4 to 40 °C
Dimensions Plattform (W x D):	215 x 215 mm
Dimensions (W x D x H):	235 x 235 x 140 mm
Weight:	1.2 kg
Power supply:	12 V

Type	Plug type	PK	Cat. No.
PS-3D	EU/UK	1	9.721 014



3 Platform tumbling shaker PMR-30

Smooth rocking motion for gentle sample agitation in tubes, culture flasks, dishes and boxes. Continuous or timed operation with automatic switch-off.

Grant

Specifications

Type of movement:	tumbling
Tumbling angle:	7°
Speed range:	5 to 30rpm
Max. Load:	1.0kg
Timer:	1min to 23h 59min
Ambient Temperature:	+4 to 40°C
Dimensions Plattform (W x D):	215 x 215 mm
Dimensions (W x D x H):	220 x 205 x 120mm
Weight:	2kg
Power supply:	12V

Type	Plug type	PK	Cat. No.
PMR-30	EU/UK	1	9.721 011

1 Tumbling shakers Mini Twist and Mini Mixer

Both shakers may be used in temperature controlled environments.

- Gyrotory action provides gentle, thorough mixing
- Mini Twist: Perfect for centrifuge and blood tubes
- Mini Mixer: Designed for processing blots and staining gels

Labnet



Supplied with:

Mini Twist incl. positioning mat

Mini Mixer incl. anti-slip mat and 2 large blot boxes

Specifications

Speed range	20rpm
Motion/Pitch	Mini Twist: 3-D/fixed 20° Mini Mixer: 3-D/fixed 5°
Maximum load	0.8 kg
Ambient operating range	+4°C to 65°C
Dimensions (W x D x H):	Mini Twist: 24.1cm x 17.15cm x 15.24 cm Mini Mixer: 24cm x 17.5cm x 15cm
Weight	0.88kg
Electrical supply	230V, 50 Hz

Type	PK	Cat. No.
Mini Twist	1	9.595 330
Mini Mixer	1	9.595 331

2 Multi-function tumbling shaker PS-M3D

With consistent and reproducible agitation throughout the speed range, multi segment program.

Grant



Specifications

Type of movement:	orbital (diam. 22mm) reciprocal (0 to 360°, 30° steps) vibrating (0 to 5°, 1° steps)
Tumbling angle:	7°
Speed range:	1 to 100rpm
Max. Load:	1.0kg
Timer Type of movement orbital and reciprocal/vibrating:	0 to 250 sec/0 to 5 sec
Ambient Temperature:	+4 to 40°C
Dimensions Plattform (W x D):	215 x 215 mm
Dimensions (W x D x H):	235 x 235 x 140 mm
Weight:	2kg
Power supply:	12V

Type	Plug type	PK	Cat. No.
PS-M3D	EU/UK	1	9.721 017



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9.729 986

Tumbling shakers Rocker 3D basic/3D digital

Shaker with three-dimensional tumbling motion and a fixed speed for smooth mixing tasks. A fixed angle ensures reproducible test results.

IKA

- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Anti-slip rubber mat included
- Easy operation by foil keypad
- Suitable for continuous operation

Rocker 3D digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:	tumbling
Tumbling angle Rocker 3D basic/3D digital:	8°/0 - 15°
Max. Load (incl. attachment):	2kg
Motor rating input/output:	16/9W
Speed range Rocker 3D basic/3D digital:	30rpm (fixed)/5 to 80rpm
Speed display (Rocker 3D digital only):	7 segment LED
Dimensions (W x D x H) Rocker 3D basic/3D digital:	280 x 330 x 165mm/280 x 330 x 185mm
Weight:	2.2kg
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	Min. speed rpm	Max. speed rpm	PK	Cat. No.
Rocker 3D basic	30	30	1	9.729 986 1
Rocker 3D digital	5	80	1	9.729 987

2


4.664 342

Orbital Platform S haker Belly Button®

IBI Scientific

This shaker is designed with available space in mind. The easily adjustable speed and platform pitch angle controls provide a wide range of agitation conditions, from extremely gentle to vigorous. The Belly Button® shaker is an exceptionally simple liquid agitation system consisting of an orbiting platform flexibly anchored at four corners so that the platform motion, when adjusted by the platform pitch control collar, is an extremely effective combination of rocking platform and orbital shaker.

- Compact version with low space requirement
- Ideal for cell and tissue culture applications, gel or blot processing
- Suitable for cold store and incubator
- Made of chemically resistant materials such as stainless steel and anodised aluminium
- Solid, robust and long-lasting design

BBUAAUV1S: With round 220 V power cord, white silicone mat and operation manual.

BBULS0001: With tube mat and round 220 V European power cord.

3


4.664 343

Specifications

Type of movement:	tumbling
Tumbling angle:	0° ... 8°
Speed range:	0 ... 100 rpm
Max. load:	2.2 kg
Overall dimensions (W x D x H):	203 x 203 x 133 mm
Platform dimensions (W x D):	178 x 178 mm
Rel. humidity:	97 %
Operation temperature:	0 ... 60 °C
Supply requirements:	230 V
Power:	11 W

Type	PK	Cat. No.
BBUAAUV1S	1	4.664 342 2
BBULS0001	1	4.664 343 3

Tumbling Shakers SHWV series

- The Tumbling Shakers are ideal for cell culture and blotting applications and are designed to be used in a variety of environmental conditions.
- Variable control (analogue model) or display (digital model) for speed, tilt and time
 - Low Profile Design
 - Microprocessor Control
 - Independent Control Knobs (analogue)
 - Overload Protection
 - Speed Ramping Feature
 - Spill-Resistant Design
 - Clock timer
 - Suitable for CO₂ environments

Scope of supply: 02DG/02AL Shaker incl. built-in tray with non-slip rubber mat

Specifications

Type of movement:	tumbling
Tilt angle Model analogue/digital:	0 to 16°/0 to 20°
Max load:	2.3 kg
Timer Model analogue/digital:	1 to 120 min/1 s to 160 h
Motor:	Stepper Motor
Permissible ambient conditions:	-10 to +60 °C
Weight:	approx. 7 kg
Power supply:	230 V, 50/60 Hz

Type	Min. speed rpm	Max. speed rpm	Display type	Dimensions (l x w x h) mm	PK	Cat. No.
02AL	1	75	analogue	425 x 279 x 165	1	4.659 478 2
02DG	1	30	digital	413 x 254 x 165	1	4.659 475 1



3 Tumbling shaker SSL3, large platform

- Large platform rocker - ideal for multiple users
- Gentle rocking action
- Digital speed control and built-in timer
- Optional tier system available to increase capacity
- incl. non-slip mat

This rocker has a large platform able to accommodate a number of samples, ideal for a busy lab. Designed to be run continuously, they are very quiet in operation. The tumbling gyratory motion is ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The tilt angle can be adjusted to any position by hand to optimise mixing of vessels.

An accessory tier system is available. Fitted in seconds, without the need for tools, it triples the available space for samples.
With BioCote, silver-based, antimicrobial protection.

Specifications

Type of movement:	tumbling
Tumbling angle:	3° to 12°
Angle adjustable:	Yes by hand
Speed range:	5 to 70rpm
Max. Load:	10kg
Platform dimensions (W x D):	355 x 355mm
Overall dimensions (W x D x H):	360 x 420 x 170mm
Net weight:	10kg
Supply requirements:	230V, 50Hz, 50W

Type	PK	Cat. No.
SSL3	1	9.728 800

Attachments are not included - Please order separately

Stuart



Tumbling Shakers Polymax 1040/2040

The Tumbling Shakers Polymax are suitable for the Modular Incubator 1000 and are recommended for applications which require variable temperatures. With 3-dimensional tilting movement, suitable for Petri dishes, culture bottles, Erlenmeyer flasks and all standard vessels.

Heidolph

- An overtemperature sensor preventatively shuts off the unit in a dangerous heat-up situation, particularly valuable for you in case of continuous operation
- Designed with a low center of gravity which prevents gliding at high speed, even on a damp surface
- Set and continuously adjust the variable speed on the analog control knob, suitable for all standard vessels
- An analog process timer allows for unattended operation.

Specifications

Type of movement:	tumbling
Tumbling angle:	5° or 10°
Timer:	1 ... 120 min
Power consumption:	115 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Power supply:	100 ... 240 V, 50/60 Hz



1 Tumbling Shakers Polymax 1040

Suitable for a medium sample throughput.

Heidolph

Specifications

Speed range:	2 ... 50 rpm
Max. Load:	5 kg
Platform dimensions (W x D):	290 x 258 mm
Overall dimensions (W x D x H):	320 x 375 x 195 mm
Weight:	8 kg
Protection class acc. to DIN EN 60529:	IP 40

Type	Inclination angle	PK	Cat. No.
Polymax 1040	5	1	9.839 857
Polymax 1040	10	1	9.839 859



4.663 380

2 Orbital platform shaker Belly Dancer®

The undulating, three-dimensional motion of this lab shaker has been designed to provide optimal movement for tissue culture, staining and destaining gels, Northern, Southern or Western blotting and immunoprecipitation. The simple liquid agitation system, consisting of an orbiting platform, which is flexibly anchored at four corners, so that the platform movement, with an appropriately set inclination, is an effective combination of orbital and tumble shaker.

IBI Scientific

- Ideal for gel or blot processing
- Suitable for cold store and incubator
- Made of chemically resistant materials such as stainless steel and anodised aluminium
- Solid, robust and long-lasting design
- Low-noise

BDRLS0004: With additional 2nd story platform (approx. 300 x 300 mm), aluminium spacer legs (approx. 114 mm) and a non-skid removable mat.

BDRLS0005: With extension platform (approx. 450 x 450 mm) and a non-skid removable mat.

BDRLS0006: With non-skid mat for tubes.

BDRAA220S: With white silicone mat.

Specifications

Type of movement:	tumbling
Orbit size:	25.4 mm
Tumbling angle:	0° ... 8°
Speed range:	0 ... 100 rpm
Max. load:	9.1 kg
Overall dimensions (W x D x H):	381 x 381 x 229 mm
Platform dimensions (W x D):	305 x 305 mm
Rel. humidity:	97 %
Operation temperature:	0 ... 40 °C
Supply requirements:	230 V/50/60 Hz
Power:	70 W

Type	PK	Cat. No.
BDRLS0004	1	4.663 380
BDRLS0005	1	4.664 345
BDRLS0006	1	4.664 346
BDRAA220S	1	4.664 344

Suitable accessories can be found in our online shop.



4.664 345

Thermo shaker LLG-uniTHERMIX 1 pro and 2 pro

The LLG-uniTHERMIX pro is ideal for shaking and temperature control of a variety of tubes or plates (depending on the block used). With its high temperature uniformity, fast heating rate and excellent mixing results the LLG-uniTHERMIX pro is perfect for the incubation of samples of any kind, in particular for Life Science applications, e.g. Enzyme reactions, transformations, denaturation of DNA and RNA. The heating blocks are magnetically attached to the LLG-uniTHERMIX pro and do not have to be screwed down.

- Easy and quick change of heating blocks due to magnetic fastening
- Precise temperature control system
- Temperatures up to 100 °C
- Temperature accuracy of ±0.5 °C (20 ... 45 °C)
- Efficient mixing up to 1500 rpm (depending on the heating block)
- Up to 9 storable programs
- Many block options available
- Automatic block recognition

LLG-uniTHERMIX 1 pro:
with shaking and heating function, Temperature range: RT + 5 °C ... approx. 100 °C

LLG-uniTHERMIX 2 pro:
with shaking, cooling and heating function, Temperature range: 15 °C below RT ... approx. 100 °C

Blocks must be ordered separately.

Scope of supply: thermal shaker, 4 suction feet

Specifications

Temperature range	
LLG-uniTHERMIX 1 pro:	RT + 5 °C ... approx. 100 °C
LLG-uniTHERMIX 2 pro:	15 °C below RT ... approx. 100 °C
Temperature control:	±0.5 °C (at 20 ... 45 °C)
Uniformity:	±0.5 °C (at 20 ... 45 °C)
Max. heating rate:	5.5 °C/min
Max. cooling rate (LLG-uniTHERMIX 2 pro only):	5 °C/min (100 °C ... RT) 0.5 °C/min (below RT)
Electrical heating/cooling power:	200 W
Speed range:	300 ... 1500 min ⁻¹
Orbit:	3 mm
Display:	LCD
Programs:	6 stages, 9 programs
Timer:	1 ... 99 hours or continuous
Capacity:	1 exchangeable block*
Dimensions (W x D x H):	200 x 235 x 120 mm
Weight:	7.3 kg
Power supply:	220 ... 240 V, 50/60 Hz
Warranty:	3 years

1



6.263 482

2



6.263 484

Type	Plug type	PK	Cat. No.
LLG-uniTHERMIX 1 pro	EU	1	6.263 482
LLG-uniTHERMIX 1 pro	UK	1	6.263 483
LLG-uniTHERMIX 2 pro	EU	1	6.263 484
LLG-uniTHERMIX 2 pro	UK	1	6.263 485

Heating blocks for Thermo shaker LLG-uniTHERMIX 1 and 2 pro

For	PK	Cat. No.
24 tubes, 0.5 ml	1	6.263 486
24 tubes, 1.5 ml	1	6.263 487
24 tubes, 2 ml	1	6.263 494
8 tubes, 5 ml	1	6.263 495
8 tubes, 15 ml	1	6.263 496
4 tubes, 50 ml	1	6.263 497
96 well PCR plates, 0.2 ml tubes	1	6.263 498
96/384 microplate	1	6.263 499

3



6.263 487



1 Thermoshaker PCMT for microtubes and PCR plates

Variable speed, variable temperature heating and cooling thermoshaker with a choice of blocks for microtubes and microplates. The PCMT can cool down to 15°C below ambient temperature.

Grant

- Fast heat-up and cooling times
- Temperature setting range +4°C to +100°C
- Temperature control range 15°C below ambient to +100°C
- Shaking speed: 250 to 1400 rpm
- Temperature uniformity at 37°C: ±0.1°C
- Choice of 5 interchangeable blocks
- orbit 2mm

Block is required and not included in delivery. Please order separately.

Applications:

- Genetic analyses, extraction of DNA, RNA and further sample preparation
- Biochemical studies of enzymatic reactions and processes
- Extraction of metabolites from cellular material

Type	PK	Cat. No.
PCMT	1	9.721 050

Accessory blocks for Thermoshaker PCMT

Grant

Type	For	PK	Cat. No.
HC24N	24 x 1.5 ml microtubes	1	9.721 073
HC18	20 x 0.5 + 12 x 1.5 ml microtubes	1	9.721 052
HC24	24 x 2.0 ml microtubes	1	9.721 053
HC32	20 x 0.2 + 12 x 1.5 ml microtubes	1	9.721 054
HC96	96-well microplates (0.2 ml)	1	9.721 055



9.721 052

3 Thermo shaker AccuTherm

The AccuTherm is a temperature controlled mixer that uses peltier technology to rapidly heat and cool precious samples. The combination of heating/cooling with mixing makes the AccuTherm ideal for many life science research applications in the fields of molecular biology, biochemistry and clinical chemistry. It's compact footprint incorporates an intuitive control panel with a large multicolor display, which allows users to easily program and view temperature, time and speed settings. Eight interchangeable aluminum blocks accommodate PCR plates and tubes ranging in size from 0.2ml to 15ml.

Labnet

Specifications

Temperature operation range:	Amb. -14°C to +100°C
Temperature adjustable range:	0°C to +105°C
Accuracy/resolution:	±0.5°C/0.5°C
Max. heating time:	6.5°C/min
Max. cooling time:	1.5°C/min
Shaking frequency:	300 to 1500rpm
Orbit:	3mm
Dimensions (W x D x H):	330 x 166 x 240mm
Capacity:	1 exchangeable block*
Weight:	8.5kg
Electrical heating/cooling power:	150W
Power supply:	230V, 50/60Hz

Type	PK	Cat. No.
AccuTherm	1	6.261 411

*Exchangeable blocks are not included in delivery.

Accessories for Thermo shaker AccuTherm

Labnet

Description	PK	Cat. No.
Block A for 40 x 1.5 ml reaction tubes	1	6.261 695
Block B for 54 x 0.5 ml reaction tubes	1	6.261 696
Block C for 96 x 0.2 ml reaction tubes	1	6.261 697
Block D for 24 x 15 mm reaction tubes	1	6.261 698
Block E, water bath (115 x 73 x 38mm)	1	6.261 699
Block G for 26 x 0.5 ml and 24 x 1.5 ml reaction tubes	1	6.261 706
Block H for 40 x 2.0 ml reaction tubes	1	6.261 707
Block J for 96 well Elisa plates	1	6.261 708

Microtube thermoshaker PHMT

By combining the mixing operation with the incubation phase, reaction process times and operator workload are reduced and efficiency of many procedures is increased, resulting in a higher throughput.

- temperature range: +5 to 100 °C
- uniformity at 37 °C: ±0.1°C
- shaking speed: 250rpm to 1400 rpm
- timed shaking operation: 1 min to 96 hours
- rapid heat-up
- continuous or timed operation, with alarm buzzer and automatic switch-off facility
- incl. interchangeable block
- mixing and incubation phases are combined reducing reaction processing times

Grant

1



6.234 725

Scope of supply: Thermoshaker with one block as indicated. Further blocks on request.

Type	For	PK	Cat. No.
PHMT-PSC18	20 x 0.5 ml + 12 x 1.5 ml	1	6.234 725
PHMT-PSC32	20 x 0.2 ml + 12 x 1.5 ml	1	9.721 079
PHMT-PSC24	24 x 2.0 ml	1	9.721 041
PHMT-PSC24N	24 x 1.5 ml	1	9.721 072
PHMT-PSC96	1 x 96 well	1	9.721 080

Thermal Shaker ISTHB

The Thermal Shakers and Cooling Thermal Shakers are designed for applications that require consistent and precise results. With heating, cooling and shaking capabilities. These shakers use interchangeable blocks to accommodate a wide variety of tubes and microplates. The easy-to-use, 4.3", colour, LCD touch screen allows the user to save and visibly track progress through the live status bar for five user defined programs, each with five individual steps. The unit's enhanced electronics and dual temperature sensors provide accurate, dependable temperature settings across the operating range.

OHAUS

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4.659 483

- 4.3" colour LCD touch screen display provides an intuitive interface
- Rapid heating, cooling and high speed shaking ability
- Internal memory stores five separate 5-step programs, unlimited with USB
- Temperature ramp rate, 0.5 °C steps
- Single Point Calibration Mode
- Pulse Mode Feature
- Maximum Temperature Limiting Function
- Hot Top Indicator
- Audible Alarm

Scope of supply: Thermal Shaker incl. 1.5 ml block, clear rack and cover

Specifications

Temperature range	
Thermal Shaker:	4 °C above ambient up to 100 °C
Cooling Thermal Shaker:	17 °C below ambient up to 100 °C
Temperature Accuracy	
Thermal Shaker:	±1 °C from 20 °C to 45 °C
	±2 °C above 45 °C
Cooling Thermal Shaker:	±0.5 °C from 20 °C to 45 °C
	±2 °C below 20 °C and above 45 °C
Speed/Accuracy:	300 to 3000 rpm/±2 %
Timer:	1 min to 99 h, 59 min
Orbit:	3 mm
Cooling rate	
above ambient:	2 to 3 °C/min
below ambient:	0.5 to 1.0 °C/min
Heating rate:	5 °C/min
Permissible ambient conditions:	5 to 35 °C
Dimensions (L X W X H):	260 x 248 x 132 mm
Weight:	5.4 kg
Power supply:	230 V, 50/60 Hz

3



4.659 482

Type	PK	Cat. No.
LHTS Thermal Shaker	1	4.659 483
LCTS Cooling Thermal Shaker	1	4.659 482



IKA

Thermo shaker Matrix Orbital Δ/Orbital Δ +

Powerful thermoshakers available for samples with smallest volumes, e.g. blood samples, pharmaceutical agents, DNA/RNA samples, DNA/RNA samples or Elisa assays. Without cross-contamination and with an optimal mixing result. Thermo shaker Orbital Δ + with heating/cooling function (cooling rate 2.5 K/min).

- Large and clear display with a convenient menu structure allows for intuitive operation
- Two different speed modes for optimal mixing
- Speed adjustment according to insert, attachment and filling volume
- Robust aluminum die cast housing

Specifications

	Orbital Δ // Orbital Δ +
Temperature range:	ambient +5 ... 100 °C // ambient -15 ... 100 °C
Temperature control:	1 ±K
Uniformity:	0.5 °C
Orbit:	1.5 mm
Display:	TFT
Programs:	2
Timer:	1 s ... 6000 min
Capacity:	0.3 kg
Dimensions (W x D x H):	220 x 350 x 150 mm // 220 x 350 x 125 mm
Weight:	9.5 kg // 8.8 kg
Power consumption:	100 W
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	Description	Min. speed	Max. speed	max. heating rate	PK	Cat. No.
		rpm	rpm	K/min		
Matrix Orbital Δ F0.5	fix attachment, 24 x 0.5 ml	300	2000	15	1	4.664 742
Matrix Orbital Δ F1.5	fix attachment, 24 x 1.5 ml	300	1500	11	1	4.664 740
Matrix Orbital Δ F2.0	fix attachment, 24 x 2.0 ml	300	1500	13	1	4.664 743
Matrix Orbital Δ FP	fix attachment, 1 x microplate	300	2000	18	1	4.664 741
Matrix Orbital Δ+	variable attachments	300	3000	7	1	4.664 744

Suitable accessories can be found in our online shop.

1



4.664 743

2



4.664 741

3

3 Shaking Incubators VorTemp™ 56/1550

Labnet

VorTemp™ 56 is supplied with interchangeable platforms for microtubes (56 x 1.5ml tubes, or small tubes with adapters) or microplates (accepts standard and deepwell plates, up to 2.0ml). VorTemp™ 1550 includes platforms for 8 x 50ml and 18 x 15ml tubes. The shaker in the VorTemp™ 56 may be turned off, allowing the unit to be used as a static incubator.

- shake and incubate samples simultaneously
- interchangeable platforms
- broad temperature and speed range
- intelligent control with digital LED display

Specifications

	VorTemp™ 56 // VorTemp™ 1550
Temperature range:	5...100 °C
Temperature accuracy:	±1 °C
Speed range:	200 ... 1300 min ⁻¹ // 200 ... 900 min ⁻¹
Motion/orbit:	3 mm, circular
Timer:	1 ... 999 minutes or continuous
Capacity:	56 x 1.5/2.0ml tubes, 4 standard or 2 deep well microplates // 18 x 15ml, 8 x 50ml tubes
Dimensions (W x D x H):	230 x 310 x 230 mm // 260 x 310 x 310 mm
Weight:	11 kg // 12 kg
Power supply:	230 V/50 Hz or 120 V/60 Hz

Type	PK	Cat. No.
VorTemp 56	1	9.945 760
VorTemp 1550	1	9.945 761



1 Eppendorf ThermoMixer C

The Eppendorf ThermoMixer C combines unique mixing performance with excellent temperature control to consistently guarantee complete, dependable and reproducible test results. Improve your assay results by mixing and incubating samples at the same time.

Eppendorf AG

- Excellent mixing performance due to unique 2DMix-Control technology
- Prevent condensation and improve temperature homogeneity with the new ThermoTop
- Ergonomic design
- Eppendorf QuickRelease™ Technology for fast and simple block exchange of Eppendorf SmartBlocks™
- Highest flexibility thanks to broad choice of exchangeable SmartBlocks™
- Heating, mixing and cooling of all common tubes and microplates with a volume range of 5µl to 50ml



Now you can control the temperature of your samples with ease: The ThermoTop, with unique condensation protection technology, reliably prevents condensation formation on the tube lid and wall. It also improves temperature homogeneity. The Eppendorf ThermoTop does not have a cable connection. It is detected by the device as soon as it is positioned, via inductive signal transmission, and thermo-regulation starts automatically. The sample temperature is not affected: optimal sample protection with optimal reaction conditions produce optimal results.

Specifications

Temperature operation range:	min: 15°C below RT, max: +100°C
Temperature adjustable range:	+1 to +100°C
Accuracy/Resolution:	±0.5°C at +20 to +45 °C
Max. heating time:	6°C/min
Max. cooling time:	2.5°C/min between +100°C and RT
Shaking frequency:	300 to 3000rpm
Orbit:	3mm
Dimensions (W x D x H):	206 x 304 x 131mm
Capacity:	dependent on Eppendorf SmartBlock™
Weight:	6.2kg
Electrical heating power:	200W (max.)
Power supply:	220 - 240V ±10%, 50/60Hz

Type	PK	Cat. No.
ThermoMixer™ C	1	9.776 902

2 Eppendorf ThermoMixer™ F0.5/F1.5/F2.0/FP

To simplify lab routines. Whether work with regularly 0.5, 1.5 or 2.0 ml reaction vessels or plates (MTP and DWP) - the customized systems from Eppendorf offer the perfect solution for special applications. The devices combine precise heating and mixing with the highest stability, even at maximum mixing frequency. Mixing and incubation steps can be performed independently.

Eppendorf AG

- For 24 reaction vessels or one microplate/deepwell plate
- Efficient mixing thanks to 2DMix-Control and anti-spill technology
- Simple and intuitive operation using predefined temperature keys (37 °C, 42 °C, 56 °C and 95 °C)
- Improved temperature homogeneity with the new ThermoTop



Specifications

Temperature operation range:	Min. 4 °C above RT, max. 100 °C
Temperature adjustable range:	1 °C/100 °C
Accuracy/Resolution:	±0.5°C at 20 ... 45 °C
Max. heating time:	18 °C/min//15 °C/min //11 °C/min//13 °C/min
Shaking frequency ThermoMixer™ F1.5/F2.0:	300 to 1500 rpm
Shaking frequency ThermoMixer™ FP/F0.5:	300 to 2000 rpm
Orbit:	3 mm
Weight:	6.1 kg//6.2 kg//6.3 kg//6.3 kg
Electrical heating power:	200 W
Power supply:	220-240 V, 50/60 Hz

Type	Dimensions (W x D x H) mm	PK	Cat. No.
ThermoMixer™ FP	206 x 304 x 164	1	9.776 905
ThermoMixer™ F0.5	206 x 304 x 163	1	9.776 936
ThermoMixer™ F1.5	206 x 304 x 170	1	9.776 904
ThermoMixer™ F2.0	206 x 304 x 170	1	9.776 937

1 Exchangeable blocks Eppendorf SmartBlocks™ and accessories for Eppendorf ThermoMixer™ C and ThermoStat C

Exchangeable blocks:

Flexibility has never been this easy. Eppendorf offers a variety of SmartBlocks™ for tubes from 0.5ml to 50ml.

- Fast and simple block exchange due to Eppendorf Quick Release
- Optimized block design guarantees maximum temperature transfer to the sample

Transfer Racks:

- Autoclavable transport aid for tubes from 0.5 to 2.0 ml
- For transferring up to 24 tubes in/from the heating block at the same time
- Offers protection against burns when transferring hot samples

SmartExtender:

A heatable frame/attachment for mixer, with separate temperature control (3 °C above RT to 110 °C), for simultaneous operation at two different temperatures.

- Enables 2 incubations at the same time

Eppendorf AG

Type	Description	PK	Cat. No.
Eppendorf SmartBlock™ 0.5 mL	24 tubes, 0.5ml	1	9.776 906
Eppendorf SmartBlock™ 1.5 mL	24 tubes, 1.5ml	1	9.776 907
Eppendorf SmartBlock™ 2.0 mL	24 tubes, 2.0ml	1	9.776 908
Eppendorf SmartBlock™ 5.0 mL	8 Eppendorf Tubes®, 5.0ml	1	9.776 909
Eppendorf SmartBlock™ 15 mL	8 conical tubes, 15ml	1	9.776 910
Eppendorf SmartBlock™ 50 mL	4 conical tubes, 50ml	1	9.776 911
Eppendorf SmartBlock™ 12 mm	24 tubes, diam. 11 to 11.9mm	1	9.776 912
Eppendorf SmartBlock™ cryo	24 cryogenic tubes, 1.5 to 2.0ml, all bottom forms	1	9.776 913
Eppendorf SmartBlock™ plates	For micro plates and Deepwell plates, incl. lid	1	9.776 914
Eppendorf SmartBlock™ PCR 96	PCR plates 96, incl. lid	1	9.776 915
Eppendorf SmartBlock™ PCR 384	PCR plates 384, incl. lid	1	9.776 916
Eppendorf SmartExtender™	12 tubes 1.5 - 2.0 ml	1	4.664 579
Transfer Rack	For 24 tubes, 0.5ml	1	6.280 936
Transfer Rack	For 24 tubes, 1.5 to 2.0ml	1	6.280 935

2 Accessories for Eppendorf Thermomixer™

Eppendorf ThermoTop® with condens.protect® technology avoids condensation and improves temperature uniformity.

Lid for Eppendorf Thermomixer™ F1.5 and FP, for Eppendorf Smart Blocks™ 0.5-2.0 mL, plates, PCR 96 and PCR 384

Eppendorf AG

Type	PK	Cat. No.
Eppendorf ThermoTop®	1	9.776 918
Lid	1	9.776 917



4. Stirring, Shaking, Mixing Shakers and mixers/Overhead shakers

1 Overhead mixer LLG-uniROTATOR 2

Analogue overhead mixer with vertical rotary motion for gentle but effective mixing. Ideal for biological samples. Suitable for cutting and mixing processes of powdered and liquid samples in tubes up to 50 ml. With easily interchangeable clamps that allow a quick cleaning of the mixer.

- Compact design
- Housing easy to clean
- Non-slip, adjustable screw feet

Scope of delivery: Overhead mixer incl. 12 clamps each for 2 ml, 15 ml and 50 ml tubes

Specifications

Type of movement:	overhead
Speed:	0 ... 80 min ⁻¹
Rotation angle:	360°
Permissible shaking weight (incl. attachment):	2 kg
Permissible relative moisture:	80 %
Permissible ambient temperature:	5 ... 40 °C
Motor rating input:	20 W
Dimensions (W x D x H):	530 x 150 x 190 mm
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21
Warranty:	3 years



Type	Plug type	PK	Cat. No.
LLG-uniROTATOR 2	EU	1	6.263 660
LLG-uniROTATOR 2	UK	1	6.263 661

2 Vertical mini rotator PTR-25

Compact, economy solution with simple to use controls, providing thorough mixing of samples in tubes up to 50ml. Suitable for preventing blood coagulation in tubes and for fulfilment of procedures of extraction of biological components. For use in cold rooms and incubators.

- 360° vertical rotation
- Vertical rotation speed range: 5rpm to 30 rpm
- Timer: 1 min to 24 hours, with audible alarm and automatic switch-off
- Simple to use controls
- Platform accommodating 22 tubes (up to 16mm diameter) is included as standard

Grant



Type	Plug type	PK	Cat. No.
PTR-25	EU/UK	1	9.721 016

3 Vertical mini rotator RotoFlex™ Plus

This simple benchtop rotator is ideal for a number of laboratory applications including DNA purification, hybridization or sample mixing. It is digitally controlled and can also be set in an oscillating mode to increase mixing efficiency. This tube rotator accepts tubes from 0.5 to 50 ml. The rotisseries to hold each of the tubes are included in the set.

Argos Technologies

Features:

- 360° revolution, adjustable angle from 0 to 90°
- Speed: 10 to 40 rpm, adjustable
- For tubes of 0.5 to 50 ml, interchangeable tube racks
- Can be used in a cold room or incubator (4 °C to 60 °C)

Type	PK	Cat. No.
RotoFlex™ Plus	1	6.281 561



1

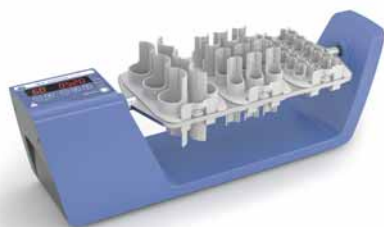

1 Multi-function rotator PTR-35/PTR-60

360° vertical multi-function rotator for thorough mixing in tubes, with multi-segment programme.

Grant

- Multi-function: vertical rotation, reciprocation, vibration
- Continuous or timed operation for each phase
- Choice of two models with different microtube capacities
- Speed: 1 rpm to 100 rpm with 1 rpm increment
- Reciprocal rotation: 1° to 90° turning angle
- Vibration: programmable in a burst of 1 to 5 seconds
- Fully programmable sequence of functions, including pause
- Alternative platforms for larger tubes

Type	Permissible shaking quantity / maximum load kg	Plug type	PK	Cat. No.
PTR-35	0.5	EU/UK	1	9.721 028
PTR-60	0.8	EU/UK	1	9.721 030

2


9.837 871

Overhead shaker Trayster basic/digital

Overhead shaker with vertical rotation for smooth but effective mixing with a fixed speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50 ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

IKA

- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Suitable for continuous operation
- Easy operation by foil keypad
- Trayster digital only:**
- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Attachments are not included. Please order separately.

Specifications

Type of movement:	overhead
Shaking diameter:	vertical or horizontal
Permissible shaking weight (incl. attachment):	2kg
Motor rating input/output:	16/9 W
Dimensions (W x D x H):	460 x 140 x 180 mm
Protection class acc. to DIN EN 60529:	IP 21
Power supply:	100-240V, 50/60Hz

Type	PK	Cat. No.
Trayster basic, EU	1	9.837 870
Trayster digital, EU	1	9.837 871

3


3 Overhead Shaker Reax 2

- Incl. Universal adapter with clamps for 2 closed vessels of 50 to 160 mm height
- Especially suitable for hematology, medical diagnostics and biochemistry
- Speed continuously adjustable
- Additionally an optional adaptor is available for the use of 20 test tubes

Heidolph

Specifications

Type of movement:	overhead
Speed:	20 ... 100 rpm
Rotation angle:	360°
Permissible shaking weight:	1 kg
Motor rating input:	27 W
Dimensions (W x D x H):	510 x 235 x 180 mm
Weight:	5.2 kg
Power supply:	230 V/50 Hz
Protection class:	IP 21

Type	Plug type	PK	Cat. No.
Reax 2	EU	1	6.270 264
Reax 2	UK	1	6.290 978

Overhead shaker Reax 20

- Overhead Shaker for 4, 8 or 12 bottles or mixing cylinders with 160 to 270 mm height and max. 136 mm diameter
- Ideal for waste water analysis acc. to DIN 38414 Part 4
- Bottles can be easily inserted and removed by quick-release technology
- Set and continuously adjust the variable speed on the analog control knob
- Other rotation speeds available upon request, for example 0.5 to 8 rpm or 2 to 32 rpm

Heidolph



9.839 805

Specifications

Type of movement:	overhead
Speed:	1 ... 16 rpm
Rotation angle:	360°
Permissible shaking weight:	30 kg
Motor rating input:	280 W
Power supply:	230 V/50 Hz
Protection class:	IP 21

Type	Dimensions (W x D x H) mm	Net weight kg	PK	Cat. No.
Reax 20 / 4	490 x 520 x 465	23	1	9.839 805
Reax 20 / 8	770 x 520 x 465	28	1	9.839 806
Reax 20 / 12	1050 x 520 x 465	33	1	9.839 807

2 Disc rotator LLG-uniLOOPMIX 2

- Analogue Disc rotator for gentle and effective sample mixing. Suitable for all biological samples. With easily interchangeable clamps that allow a **quick cleaning** of the rotator.
- For a maximum of 48 x 1.5 ml, 16 x 5 or 15 ml, 8 x 50 ml tubes. Also for parallel use of different sizes, can be equipped individually.
- Compact design
 - Housing easy to clean
 - Non-slip, adjustable screw feet
 - Additional clamps on request

Scope of delivery: Disc rotator incl. 12 clamps each for 2 ml, 15 ml and 50 ml tubes

Specifications

Type of movement:	rotating
Speed:	0 ... 80 min ⁻¹
Rotation angle:	360°
Permissible shaking weight (incl. attachment):	2 kg
Permissible relative moisture:	80 %
Permissible ambient temperature:	5 ... 40 °C
Motor rating input/output:	20 W
Dimensions (W x D x H):	220 x 300 x 310 mm
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniLOOPMIX 2	EU	1	6.263 665
LLG-uniLOOPMIX 2	UK	1	6.263 666



Rotators SB2/SB3

The Stuart rotators give gentle but effective mixing, ideal for life sciences applications such as keeping blood samples in suspension. The angle of tilt is fully adjustable. The Rotators can be used in incubators up to 60°C and in cold rooms down to 4°C.

Stuart

SB2: Fixed speed of 20rpm.

SB3: Variable speed of 2rpm to 40rpm. Additional digital timer of 1 to 999 minutes. Digital speed control.

There are six types of tube holder available. Please order separately.

Specifications:

Dimensions (W x D x H):	200 x 270 x 230mm
Supply:	230 V/50 Hz, 50W
Weight:	3.2kg

Type	PK	Cat. No.
SB2	1	9.645 322
SB3	1	9.645 323



9.645 323

1 Tube holders for rotators SB2/SB3

Stuart

Type	For	No. of vessels	PK	Cat. No.
SB3/1	Micro tubes, 10 to 11.5mm dia.	46	1	9.645 324
SB3/2	Test/blood tubes, 9 to 20mm dia.	20	1	9.645 325
SB3/3	50ml centrifuge tubes, 25 to 35mm dia.	12	1	9.645 326
SB3/4	Culture tubes, 12mm dia.	63	1	9.645 327
SB3/5	Culture tubes, 16mm dia.	63	1	9.645 328
SB3/6	Culture tubes, 26mm dia.	30	1	9.645 329
SB3/1/PC	Spare Clips for SB3/1	-	1	6.258 527

Additional accessories on request.

Rotators Loopster basic/digital

Rotators for smooth but effective mixing with a fixed speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

IKA

- Freely adjustable rotary angle
- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Easy operation by foil keypad
- Suitable for continuous operation

Loopster digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

Specifications

Type of movement:

Shaking diameter:

Permissible shaking weight (incl. attachment):

Motor rating input/output:

Dimensions (W x D x H):

Protection class acc. to DIN EN 60529:

Power supply:

rotating

adjustable from horizontal to vertical

2kg

16/9W

300 x 300 x 360mm

IP 21

100-240V, 50/60Hz

Type	Min. speed rpm	Max. speed rpm	PK	Cat. No.
Loopster basic	20	20	1	9.729 982
Loopster digital	5	80	1	9.729 983

1



2



9.729 983

Roller Mixers LLG-uniROLLER 6 easy and pro



1

Analog or digital tube rollers with 6 rolls for the efficient mixing of biological samples, viscous substances and liquid-solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation, immune precipitation.

- Max speed 70 rpm
- For gentle rolling of samples
- Easy to clean

LLG-uniROLLER 6 easy:

- Analog control
- Easy to use

LLG-uniROLLER 6 pro:

- LCD display
- Continuous or timer operation



6.263 645

2



6.263 647

Specifications

Type of movement:	rocking and rolling
Amplitude:	24 mm
Speed:	0 ... 70 rpm
Timer:	- // 1 ... 1199 min
Load max.:	4 kg
Ambient temperature:	5 ... 40 °C
Max. humidity:	80 % RH
Dimensions (W x D x H):	260 x 450 x 120 mm
Weight:	4.5 kg // 5.1 kg
Power consumption:	25 W // 30 W
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

LLG-uniROLLER 6 easy // LLG-uniROLLER 6 pro

Type	Plug type	PK	Cat. No.
LLG-uniROLLER 6 easy	EU	1	6.263 645
LLG-uniROLLER 6 easy	UK	1	6.263 646
LLG-uniROLLER 6 pro	EU	1	6.263 647
LLG-uniROLLER 6 pro	UK	1	6.263 648

Tube Roller Mixer, SRT6, SRT6D, SRT9, SRT9D

3 Stuart

There are four models available, two analogue models with either 6 or 9 rollers, with a fixed speed of 33 rpm. Or two more advanced digital models with either 6 or 9 rollers, with digitally controlled speed between 5 and 60 rpm and programmable timer. The rollers conveniently detach to accommodate larger vessels. Recommended for mixing blood samples, viscous substances and liquid-solid suspensions where minimum aeration is required. Units can be used in incubators up to 60 °C and humidity up to 80 %, or in cold rooms down to 4 °C.

- Rocking and rolling action for complete mixing
- 6 or 9 roller design with footprint
- With antimicrobial BioCote protection

Specifications

Type of movement:	rocking and rolling
Amplitude:	16 mm
Speed:	33 rpm // 5 ... 60 rpm
Number of rollers:	6 // 9
Load max.:	3 kg
Timer:	continuous // 1 s ... 9 h, continuous
Ambient temperature:	up to 60 °C
Max. humidity:	up to 80 %
Dimensions (W x D x H):	565 x 240 x 110 mm // 565 x 360 x 110 mm
Roller size (l x Ø):	340 x 30 mm
Weight:	5.1 kg // 6.9 kg
Power supply:	230 V, 50/60 Hz
IP code:	IP 20

SRT6/SRT6D // SRT9/SRT9D



9.728 811

Type	Display type	PK	Cat. No.
SRT6	analogue	1	9.728 810
SRT6D	digital	1	9.728 811
SRT9	analogue	1	9.728 812
SRT9D	digital	1	9.728 813

1


9.729 970

Tube roller Roller 6 basic/6 digital/10 basic/10 digital

Roller shaker with 6 or 10 rolls, with smooth rocking and rolling action and a fixed speed. Particularly for mixing blood samples, solid and liquid suspensions and viscous samples. The unit can be used for all conventional tubes and cylindrical bottles. The easy removable rolls allow simple and quick cleaning of the unit from spilled samples.

IKA

- Usable from 4 to 50°C in incubators
- Suitable for continuous operation
- Removable rolls make it suitable for larger tubes
- Easy operation by foil keypad
- Easy removable rolls

Roller 6 digital/10 digital only:

- Timer: Countdown, adjustable from 1s to 99h 59min
- Counter: Display of shaking time
- Error code display

2


9.729 973

Specifications

Type of movement:	rocking and rolling
Amplitude:	24.5 (height)
Speed:	30 rpm // 5 ... 80 rpm
Number of rollers:	6 // 10
Load max.:	2 kg
Timer:	- // 1 s ... 99 h 59 min
Ambient temperature:	+4°C to +50°C
Max. humidity:	80%
Dimensions (W x D x H):	240 x 545 x 115 mm // 380 x 545 x 115 mm
Roller size (l x Ø):	310 x 32 mm
Weight:	4 kg // 6 kg
Power supply:	100-240V, 50/60Hz
IP code:	IP 21

Roller 6 /10 basic // Roller 6 /10 digital

Type	PK	Cat. No.
Roller 6 basic	1	9.729 970
Roller 6 digital	1	9.729 971
Roller 10 basic	1	9.729 972
Roller 10 digital	1	9.729 973

3


3 Tube roller RM 2

Robust tube roller with gentle tilting and rolling movement. Small space requirement. Suitable for all common tube sizes, bottles and other cylindrical vessels with a diameter of up to 80 mm.

Bühler

- Gentle start-up for optimum development of cell cultures.
- Minimal heat emission, thus no influence on the ambient conditions
- Can be used at CO₂ concentrations up to 5%.
- Easy setting of speed and time via LED display
- Drip tray and plastic rollers can be removed for easy cleaning
- Overhead attachment available as accessory

Scope of delivery: basic unit including 6 removable plastic rollers and drip tray

Specifications

Type of movement:	rocking and rolling
Amplitude/angle:	15 mm, 3° fixed
Speed:	5 ... 80 rpm
Max. load:	2 kg
Number of rollers:	6
Timer:	0 ... 99 h 59 min/continuous
Temperature range:	5 ... 45 °C
Max. CO ₂ range:	5 %
Max. humidity:	85 %, not condensing
Dimensions (W x D x H):	244 x 465 x 115 mm
Roller size (l x Ø):	300 x 32 mm
Weight:	7.3 kg
Power supply:	100 ... 240 V, 50/60 Hz
Protection class:	IP 21

Type	PK	Cat. No.
RM 2	1	4.663 359

4. Stirring, Shaking, Mixing

Shakers and mixers/Roller mixers-Microtitre plate shakers

1 Overhead attachment RM 2, PVC

For tube rollers RM 2. With 12 holes at 29.5 mm Ø. Other borings available on request. Bühler

Type	PK	Cat. No.
Overhead rack RM 2	1	4.663 360



2 3 Microtitre shaker LLG-uniPLATESHAKER 1

The LLG-uniPLATESHAKER 1 has been designed for accommodating and mixing a single micro plate. Due to its **small footprint** it can be used in working areas with limited space such as fume hoods and bio safety cabinets. It can also be used inside a cold-room.

- Digital display with speed and time settings
- **Variable speed** from 300 to 1800 min⁻¹
- Maintenance-free brushless DC motor
- Orbital Diameter of 2 mm for thorough mixing
- Timer setting from 1 to 99 min and continuous mode
- **Universal fit**; comes with interchangeable clamps for different micro plate sizes
- Comes with foam attachment for 20 x 1.5/2 ml microtubes

Scope of supply: shaker, mains adapter, 2 attachments (foam attachment and attachment for microtitre plates), 6 clamps

Specifications

Type of movement:	orbital
Orbital diameter:	2 mm
Speed range:	300 ... 1800 min ⁻¹
Max. load:	1 kg
Motor:	brushless DC motor
Timer:	1 ... 99 min, continuous
Power consumption:	15 W
Permissible ambient temperature:	4 ... 40 °C
Dimensions (W x D x H):	127 x 85 x 86 mm
Weight:	1.4 kg
Power supply:	100 ... 230 V, 50/60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniPLATESHAKER 1	EU	1	6.263 488
LLG-uniPLATESHAKER 1	UK	1	6.263 489



4 Microtitre shaker PMS-1000i

Reliable, regulated shaking for two or four microplates. Simple screw attachments allow quick and easy fitting of any standard depth 96 or 384 well plates, holding the plate securely in place. Grant

- direct drive
- brushless motor
- RPM set and display
- variable speed: 150rpm to 1200rpm
- orbit: 2mm
- continuous or timed operation
- integral timer: 1 min to 24 hours
- standard option for two microplates
- optional platform MPP-4 for four microplates
- ambient 4°C to 40°C

Type	PK	Cat. No.
PMS-1000i	1	9.721 074



Accessories for Microtitre shaker PMS-1000i

Description	PK	Cat. No.
Platform for 4 micro plates	1	9.721 026

Microtitre Plate Shakers Titramax 100/101/1000

- Set and continuously adjust the variable speed on the analog control knob for gentle to powerful mixing
- An analog process timer allows for unattended operation.

Heidolph

Specifications

Type of movement:	orbital, vibrating
Speed range:	150 ... 1350 rpm
Timer:	120 min, continuous
Power consumption:	31 W
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80 %
Weight:	5.5 kg
Power supply:	100 ... 240 V, 50/60 Hz
Protection class:	IP 30

1


9.839 831

Microtitre Plate Shakers Titramax 100/101

Compact and space-saving models for 4 microtiter plates. Titramax 100 with 1.5 mm shaking orbit is ideal for gentle mixing. Titramax 101 with a 3 mm shaking orbit is especially suitable for mixing of viscous media and solids.

Heidolph

Specifications

Max. Load:	2 kg
Platform dimensions (W x D):	220 x 220 mm
Overall dimensions (W x D x H):	245 x 310 x 125 mm

Type	Shaking stroke / Shaking orbit mm	PK	Cat. No.
Titramax 100	1.5	1	9.839 831
Titramax 101	3.0	1	9.839 832

2


Microtitre Plate Shakers Titramax 1000

Compact model for 6 microtiter plates for gentle mixing. The Titramax 1000 is suitable for the modular Incubator 1000 and is recommended for applications which require variable temperatures.

Heidolph

Specifications

Orbit:	1.5 mm
Max. Load:	5 kg
Platform dimensions (W x D):	290 x 258 mm
Overall dimensions (W x D x H):	320 x 375 x 125 mm

Type	PK	Cat. No.
Titramax 1000	1	9.839 830

3


9.721 033

Microplate thermoshaker PHMP/PHMP-100/PHMP-4

For 96- and 384-well plates. The PHMP is a variable speed, variable temperature microplate shaker incubator with excellent temperature uniformity across the microplate. The patented heated lid and base which completely cover the plate produce a controlled micro-environment. This is combined with powerful orbital shaking to produce the maximum yield from your incubations.

Grant

- Stability ± 0.1 °C, uniformity ± 0.25 °C, rapid heat-up
- For standard 96 or 384-well plates (max. 14mm height)
- Variable speed: 250 rpm to 1200 rpm
- 2mm shaking orbit for effective mixing
- Temperature setting range: +25 to 60°C, PHMP-100: +25 to 100°C
- Temperature control range: RT +5 to 60°C, PHMP-100: RT +5 to 100°C
- Timed operation: 1 min to 96 hours

4


6.227 761

Type	Min. operating temperature RT + °C	Max. operating temperature °C	For	PK	Cat. No.
PHMP	5	60	2 microplates	1	9.721 033
PHMP-4	5	60	4 microplates	1	6.227 761
PHMP-100	5	100	2 microplates	1	6.280 073