

Magnetic Stirrers, Heidolph

General features

- Housing sealed all-round for protection from corrosive gases and liquids
- Plug connectors at rear protected by panel overlap
- Powerful stirrer magnet for reliable driving of the stirring bar
- Corrosion-proof aluminium die-cast housing with polyamide coating
- Overheat protection for optimal safety
- 3-year warrant on all Heidolph products

Magnetic stirrers without heater

MR 1000

- Unit with all the general features of Heidolph magnetic stirrers
- White top plate made of highly resistant PVDF, ideal for titrations
- Electronic speed control, infinitely variable from 0 to 2200 1/min.

MR 3000 / MR 3000 D

- Units with all the general features of Heidolph magnetic stirrers
- Top plate made of acid-proof stainless steel (V2A), dia. 145 mm
- Even after extended operation, minor temperature increase in the top plate
- Infinitely variable speed up to 1250 1/min.
- Speed control accuracy $\pm 3\%$

MR 3000 D

- Digital speed display
- Speed control accuracy $\pm 1\%$

	Type	Speed max. 1/min	Speed control	W x D x H mm	Order No.
①	MR 1000	2200	Scale	126x140x 80	51 41 30200
	MR 3000	1250	Scale	155x240x120	51 41 40001
②	MR 3000 D	1250	digital	155x240x120	51 41 40101

Magnetic stirrers with heater

Serie MR 3001

- Standard equipment for every laboratory
- Electronically controlled speed up to 1250 1/min
- Electronically controlled hot plate temperature
- Hot plate made of Silumin for fast heat transmission
- 600 W heater power

MR 3001 K

- Basic unit with all the above merits
- Connector for EKT 3001 or contact thermometer acc. to DIN 12 878.

MR 3001 K8

- Basic unit with all the above merits
- Connector for EKT 3001 or contact thermometer acc. to DIN 12 878.
- Shortest heating up times thanks to 800 W heating power

	Type	Heater cap. W	Speed max. 1/min	W x D x H mm	Order No.
	MR 3001	600	1250	155x240x120	51 41 41000
	MR 3001 K	600	1250	155x240x120	51 41 41010
③	MR 3001 K8	800	1250	155x240x120	51 41 41018

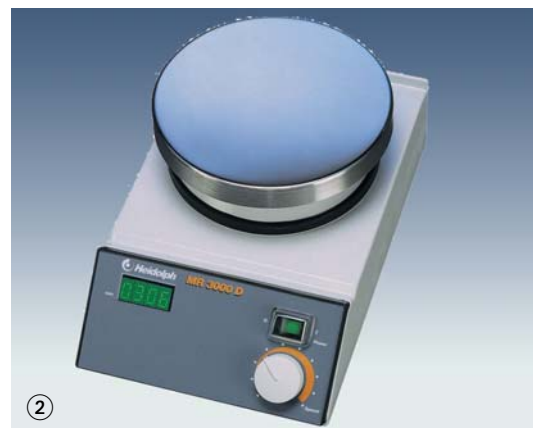
Series MR 3002

- Speed and temperature control for the highest protection
- Infinitely variable temperature and speed
- Reliability of heater control guaranteed by safety cut-out triggered by 2 Pt 100 temperature sensors in the hot plate
- Connector for Heidolph EKT 3001 or contact thermometer acc. to DIN 12 878

	Type	Heating plate material	Heater cap. W	Speed max. 1/min	W x D x H mm	Order No.
④	MR 3002 S	Silumin	600	1250	155x240x120	51 41 42010
	MR 3002 S8	Silumin	800	1250	155x240x120	51 41 42018
	MR 3002 C	Chromium steel	600	1250	155x240x120	51 41 42011
	MR 3002 G	Glass ceramic	600	1250	155x240x120	51 41 42012



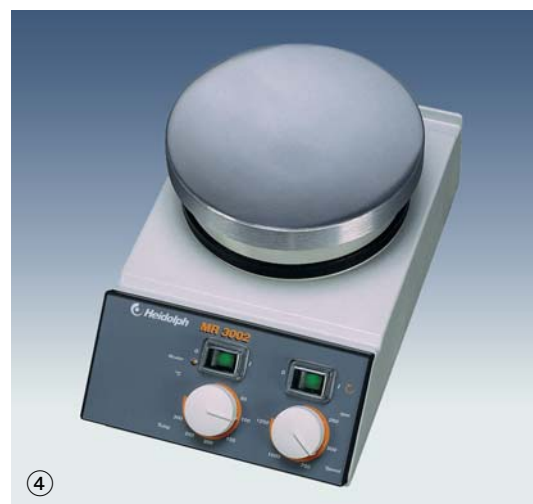
①



②



③



④



Series MR 3004 safety

Highest safety standards available

- Only magnetic stirrer with 4 independent safety circuits
- Unintentional changing of set point temperature is impossible
- Safety control circuit by second independent Pt 100 in the hot plate
- Adjustable safety margin at which the unit will cut-out in case of malfunction
- Digital display for speed and temperature (both, set point and actual)
- Guaranteed not overshooting of the selected set point temperature (protection of thermo-sensitive substances)
- Electronically controlled speed, control accuracy $\pm 1\%$
- Temperature control with microprocessor (fuzzy logic)
- Hot plate residual heat indicator lights when unit is turned off
- Connection for medium temperature sensor (please order separately as an accessory)
- RS 232 interface and analog output

MR 3004 safety S

- Magnetic stirrer with all the above advantages
- Silumin (aluminium alloy) hot plate for superior heat transfer, dia. 145 mm

MR 3004 safety C

- Magnetic stirrer with all the above advantages
- Chromium steel hot plate for high chemical resistance (dia. 145 mm)

MR 3004 safety G

- Magnetic stirrer with all the above advantages
- Glass ceramic hot plate, scratch-proof, for superior chemical resistance (dia. 145 mm)



⑤

Type	Heater capacity W	Speed max. 1/min	W × D × H mm	Order No.
MR 3004 safety S	600	1250	155×240×120	51 41 44320
MR 3004 safety C	600	1250	155×240×120	51 41 44321
MR 3004 safety G	600	1250	155×240×120	51 41 44322

EKT 3001 electronic temperature controller

- High linearity, measuring and control accuracy
- Control range: room temperature to $+300^{\circ}\text{C}$
- Fuzzy logic, i.e. fast heating without temperature overshoot
- Sensor short circuit and breakage protection
- No mercury hazard

Type	Sensor material	Order No.
EKT 3001	V2A	51 41 98700
EKT 3001 G	Glas	51 41 98710

Accessories for Series MR 3000 ff magnetic stirrers

Article	Order No.
Temperature sensor Pt 1000	51 41 96791
For MR 3004, sensor V4A	
Temperature sensor Pt 1000	51 41 96792
For MR 3004, sensor glass coated	
Temperature sensor Pt 1000	51 41 96793
With 2 separate measuring stations, for MR 3004, sensor V4A	
Temperature sensor Pt 1000	51 41 96794
With 2 separate measuring stations, for MR 3004, sensor glass coated	
Bath 1 l	51 41 49300
Not coated (for oil, max. temp. 250°C)	
Bath 1 l	51 41 49310
PTFE-coated, for water	
Bath 2 l	51 41 49200
Not coated (for oil, max. temp. 250°C)	
Bath 2 l	51 41 49210
PTFE-coated, for water	
Bath 4 l	51 41 49100
Not coated (for oil, max. temp. 250°C)	
Bath 4 l	51 41 49110
PTFE-coated, for water	
Concave block adapter for 1 l round flasks	51 41 49400
Holding rod	51 41 98100
Made of V2A, 13×300 mm, thread M10	
Holding rod	51 41 99800
For use with 4 l bath, 13×300 mm, thread M10	
Holder	51 41 96700
For temperature sensor (from EKT 3001 or MR 3004)	
Heating bath liquid	51 41 93100
5 l, up to 240°C , can be mixed with water in any ratio	

Water baths and concave block adapter only for magnetic stirrers with Silumin hot plate!

Complete package at a set price

Magnetic stirrer MR 3001 K with:

- Electronic temperature controller EKT 3001 with temperature sensor made of V2A
- Stay bar made of V2A
- Holder for temperature sensor

For description see model MR 3001 K and electronic temperature controller EKT 3001.

Article	Order No.
⑥ Set MR 3001/EKT	51 41 41009



⑥

