

Magnetic Stirrers, Heidolph

Magnetic stirrers with heater

Safe Heating and Mixing

- Variable speed is adjustable from 30 to 1.400 rpm at an accuracy of $\pm 1\%$ for gently mixing
- Safety circuits avoid an overheat situation of your hotplate: If the temperature overshoots the heating will be powered off immediately
- The strong magnetic field allows for stirring of even higher viscosity media or stirring a volume of 20 liters of water with ease
- The hotplate reaches a maximum temperature of 300°C and due to the 800 W heating power in a significantly reduced time

MR Hei-Standard – Model for standard applications without display

- For your protection, an independent safety circuit will switch off heating if hotplate temperature goes above 25°C of set temperature
- Upgrade this magnetic stirrer with the optional digital thermometer, EKT Hei-Con, that provides precise temperature control to give you temperature overshoot protection and reproducible results
- A separate on/off switch for heating prevents an unintentional heat up. If heating is switched on, the on/off button is illuminated for visual control
- Large analog knobs allow for convenient speed setting from 100 to 1,400 rpm at an accuracy of 2% and temperature setting up to 300°C

MR Hei-Tec – Model for higher requirements and reproducible results

- This unit features a digital display and allows for easy setting and monitoring values on the illuminated read out
- For your protection, an independent safety circuit will switch off heating if hotplate temperature goes above 25°C of set temperature
- Digital speed setting from 100 to 1,400 rpm at an accuracy of 2% and temperature setting up to 300°C
- Upgrade this magnetic stirrer with the optional digital thermometer, EKT Hei-Con, that provides precise temperature control to give you temperature overshoot protection and reproducible results
- A separate on/off switch for heating prevents an unintentional heat up. If heating is switched on, the on/off button is illuminated for visual control

MR Hei-End – Model for highest safety

- A separate on/off switch for heating prevents an unintentional heat up. If heating is switched on, the on/off button is illuminated for visual control
- An independent safety circuit switches off heating at an operator pre-programmed temperature value between 10 to 25°C above your set temperature
- Additional operational safety step is required to change parameters which prevents unwanted changes to the actual setting
- Digital display allows for easy setting and monitoring values on the illuminated read out. Speed setting from 30 to 1,400 rpm at an accuracy of 1% and temperature setting up to 300°C
- Hotplate residual heat indicator in the digital illuminates when unit is turned off and hotplate temperature is above 50°C to prevent accidental operator injury
- To protect your sample from overheating, a safety circuit switches off heating if the temperature sensor is not immersed in your media vessel



Article	Order No.
① MR Hei-Standard	10 41 50520
② MR Hei-Tec	10 41 50530
③ MR Hei-End	10 41 50550

Accessories for Heidolph magnetic stirrers

Contact thermometer EKT Hei-Con – Medium temperature control made easy

- For precise temperature control we recommend the optional EKT Hei-Con which is suitable for the MR Hei-Standard and MR Hei-Tec models
- Take advantage of the built-in Fuzzy.Logic controller that ensures the fastest heat up while preventing an over temperature situation
- Work efficiently in a very hot environment or under steamy conditions
- Double-spaced digital display for convenient monitoring of the illuminated read out
- By the press of the MAX-button you can see the over temperature at which the unit for safety reasons will power off
- All heating settings of the hotplate will be indicated on the EKT Hei-Con display
- To make troubleshooting easy, a sensor feature signals if any short-circuit or breakage occurs on the display to inform operator of disruption
- Equipment automatically switches off heating if temperature sensor is not in contact with the media in the vessel

Accessories:

- Temperature sensor are available in two different options: stainless steel or glass coated sensor for improved chemical resistance
- Please order stay bar and temperature sensor holder separately

Technical data:

Temperature range:	-50 to +300°C
Resolution:	1°C
Accuracy of measurement:	±1°C
Measuring cycle:	1,5 sec
Control accuracy:	±0,5°C
Temperature sensor EKT Hei-Con:	Pt 1000, V2A

Temperature sensor EKT Hei-Con G:	Pt 1000, glass
Sensor length:	210 mm
Cable length:	700 mm
Min. immersion depth:	20 mm
Ambient temperature range:	-5 to +60 °C
Housing:	Polyamid
Weight:	0,3 kg
Dimension L x W x H:	54 x 22 x 126 mm
Protection (DIN EN 60529):	IP 40
Power supply:	8 – 15 V

Article	Order No.
④ EKT Hei-Con for models MR Hei-Standard and MR Hei-Tec (measurement probes made of V2A)	10 41 98800
EKT Hei-Con G for models MR Hei-Standard and MR Hei-Tec (measurement probe coated with glass)	10 41 98810
Temperature sensor Pt 1000 for type MR Hei-End, sensor V4A	51 41 96791
Temperature sensor Pt 1000 for type MR Hei-End, sensor glass coated	51 41 96792
Holding rod for temperature sensor Made of V2A, length 425 mm, Ø 13 mm	51 41 98100
Holder for temperature sensor	51 41 96700

⑤ Heat-On blocks

Our attachments are by far the safest, fastest and most efficient method for heating and mixing solutions in round bottom flasks from 10 ml to 5 liter. Heat-On aligns accurately to every flask insuring maximum surface contact and fast heat transfer. Eliminates the mess from cleaning flasks after removing from an oil bath or hazardous spills when an oil bath slips off a stirring plate. As a result oil as a heat transfer media is made redundant and your lab is a safer place with the Heat-On block system.

- This unique design prevents glass breakage and protects you from spilled chemicals or solvents
- A unique PFA coating on the aluminum Heat-On body allows for superior chemical resistance and many years of service life
- Increase your daily work throughput significantly and reduce your over all process times by quick changing of Heat-On blocks
- 1.000 ml of water heats up 66% faster than conventional oil bath
- Each Heat-On block is a stand-alone product that can be placed directly onto the stirring hotplate

Article	Order No.
Heat-On 250 ml block	10 41 58670
Heat-On 250 ml block with flask sidearm cutouts	10 41 58671
Heat-On 500 ml block	10 41 58690
Heat-On 1000 ml block	10 41 58710
⑥ Heat-On 2000 ml block	10 41 58730
Heat-On 3000 ml block	10 41 58750
Heat-On 5000 ml block	10 41 58760

④



⑤



⑥



⑦ Multi-Well holder and inserts

This unique Multi-Well holder is designed to hold either one or two inserts for flasks.
Optional accessories: Heat-On safety handles

Article	Order No.
Heat-On 10 ml insert	10 41 58610
Heat-On 25 ml insert	10 41 58620
Heat-On 50 ml insert	10 41 58630
Heat-On 100 ml insert	10 41 58640
Heat-On 150 ml insert	10 41 58650
Heat-On safety handles	10 41 58600

Heat-On accessories

Article	Order No.
Support rod	10 41 09970
Cross clamp	10 41 58175
Boss head	10 41 70311
Flask stand and clamp kit	10 41 58140
Support rod, cross clamp, boss head	
Adapter plate for 135 mm hotplate	10 41 58109
Heat-On safety handles	10 41 58770

StarFish workstations

Turn your magnetic stirrer with our attachments into an efficiency increasing reaction station for up to 45 samples simultaneously. Upgrade your magnetic stirrer to a product with multiple capabilities; starting from simple heating and mixing flasks including chemical reactions, concentrations, extractions under vacuum and by providing productive gas.

Article	Order No.
StarFish base plate (145 mm)	10 41 58110
StarFish base plate handles (pair)	10 41 58111

Mono Blocks

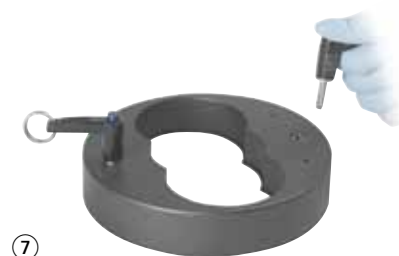
Mono-Blocks are single blocks with multiple wells all of the same size and are ideal for experiments using the same vessel.

Article	Order No.
MonoBlock for 5 × 250 ml flasks	10 41 58112
Inserts for 150 ml flasks	10 41 58046
Inserts for 100 ml flasks	10 41 58041
Inserts for 50 ml flasks	10 41 58042
Inserts for 25 ml flasks	10 41 58043
Inserts for 10 ml flasks	10 41 58044
Inserts for 5 ml flasks	10 41 58045
Mono Block for 16 × 25 mm tubes	10 41 58020
Mono Block for 16 × 24 mm tubes	10 41 58030
Mono Block for 40 × 16 mm tubes	10 41 58040
Mono Block for 40 × 12 mm tubes	10 41 58050
Mono Block for 16 × 28 mm vials	10 41 58060
Mono Block for 20 × 21 mm vials	10 41 58070
Mono Block for 40 × 17 mm vials	10 41 58080
Mono Block for 40 × 15 mm vials	10 41 58090
Mono Block for 40 × 12 mm vials	10 41 58100

Poly Blocks

PolyBlocks are smaller segments (5 per StarFish) which can be mixed to accommodate any combination of vessels; allowing the use of different vessel types and sizes at the same time.

Article	Order No.
Poly Block for 1 × 250 ml flasks	10 41 50200
Poly Block for 3 × 25 mm tubes	10 41 58210
Poly Block for 3 × 24 mm tubes	10 41 58220
Poly Block for 9 × 16 mm tubes	10 41 58230
Poly Block for 9 × 12 mm tubes	10 41 58240
Poly Block for 3 × 28 mm vials	10 41 58250
Poly Block for 3 × 21 mm vials	10 41 58260
Poly Block for 7 × 17 mm vials	10 41 58270
Poly Block for 9 × 15 mm vials	10 41 58280
Poly Block for 9 × 12 mm vials	10 41 58290



StarFish accessories

Universal 5-way clamps

The StarFish clamp allows you to hold glassware of virtually any size and comes with a choice of Silicone rubber or Velcro support straps. Each clamp features 5 telescopic arms which can be extended and locked in place to suit your needs.

Water distribution manifold

Allows coolant from a single source to be evenly distributed to up to five condensers and then the flow re-combined to one outled pipe.

Gas/vacuum distribution manifold

Allows gas or a vacuum from a single source to be evenly distributed to up to five positions or vessels.

Article	Order No.
5-way clamp (velcro)	10 41 58101
5-way clamp (silicone strap and handle)	10 41 58102
Water distribution manifold	10 41 58103
Gas/vacuum distribution manifold	10 41 58104

Complete packages

Package MR Hei-Standard

This package includes:

- Magnetic stirrer MR Hei-Standard
- EKT Hei-Con with temperature sensor
- Support rod for EKT Hei-Con
- Clamp for temperature sensor

Package Heat-On

Package MR Hei-Tec Multi-Well

This package includes:

- Magnetic stirrer MR Hei-Tec
- EKT Hei-Con with temperature sensor
- Support rod for EKT Hei-Con
- Heat-On Multi-Well system including Multi-Well holder and the following inserts: 2 × 25ml, 2 × 50 ml, 2 × 100 ml
- 2 × cross clamp, 2 × boss head

Package MR Hei-Standard Multi-Well

This package includes

- Magnetic stirrer MR Hei-Standard
- EKT Hei-Con with temperature sensor
- Support rod for EKT Hei-Con
- Heat-On Multi-Well system including Multi-Well holder and the following inserts: 2 × 25ml, 2 × 50 ml, 2 × 100 ml
- 2 × cross clamp, 2 × boss head

Package StarFish

Package MR Hei-End Multi-Workstation

This package includes:

- Magnetic stirrer MR Hei-End
- Temperature sensor Pt 1000
- Base plate
- MonoBlock for 5 × 250 ml Flasks
- 2 × 100 ml flask insert
- 2 × 50 ml flask insert
- 1 × 25 ml flask insert
- 5-way clamp (velcro strap)
- 5-way clamp (silicone strap and long handle)
- 2 × Water manifold
- 1 × Gas/vacuum manifold
- 650 mm split rod

Article	Order No.
⑧ Package MR Hei-Standard	10 41 20090
Package MR Hei-Tec Multi-Well	10 41 58016
Package MR Hei-Standard Multi-Well	10 41 58015
Package MR Hei-End Multi-Workstation	10 41 58011

