

Magnetic stirrers with heater Hei-PLATE series – safe heating and mixing

- For gentle mixing with 30 to 1,400 rpm at an accuracy of $\pm 1\%$, the speed is individually and continuously adjustable
- An independent seconds safety circuit automatically switched the heater plate off in case of inadvertent temperature increase
- With the reinforced stirring magnet, a 20-liter volume is stirred and mixed without any effort
- Heating capacity of 800 Watt for 35% shorter heating times compared to 600 Watt magnetic stirrers
- The sealed housing protects the electronic and mechanical components of the magnetic stirrer against aggressive media and vapors
- The entire unit is switched off in case of short-circuit, probe breakage of the temperature sensor, or processor fault
- The KeraDisk® heating plate ensures extremely short heating times; an ultra-thin ceramic coat makes the plate resistant to chemicals
- A failure of the heating plate does not cause interruption of the stirring process, which prevents overheating of the sample
- Damage to the unit is excluded, even in case of very high temperatures – the die-cast housing of the units is fire-proof
- An illuminated button indicates clearly if the stirring mode is activated
- 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. In addition, a residual heat indicator prevents from burning hazards when heat function is switched off

MR Hei-Standard – for standard applications, without temperature sensor

- For your protection, an independent safety circuit will switch off heating if hotplate temperature goes above 25°C of set temperature
- Large analog knobs allow for convenient speed setting from 100 to 1,400 rpm at an accuracy of $\pm 2\%$ and temperature setting up to 300°C

MR Hei-Tec – for higher requirements, with temperature sensor

- 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 of hotplate temperature goes above 25°C of set temperature
- Digital speed setting from 100 to 1,400 rpm at an accuracy of $\pm 2\%$ and temperature setting up to 300°C
- Upgrade this magnetic stirrer with the optional Pt 1000 temperature sensor for precise temperature control, 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. In addition, a residual heat indicator prevents from burning hazards when heat function is switched off

MR Hei-Connect – for comprehensive process documentation and reproducible results

- The MR Hei-Connect includes all features of the MR Hei-Tec unit but comes with an additional RS 232 interface
- Monitor and control your process with the Hei-Control software or your own program
- Benefit from reproducible results and the option to program ramps and interval processes
- Hei-Control software included in the scope of delivery

MR Hei-End – 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 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 $\pm 1\%$ 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
- 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
- Upgrade this magnetic stirrer with the optional Pt 1000 temperature sensor for precise temperature control, overshoot protection and reproducible results



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Article	Order No.
① MR Hei-Standard	10 41 50520
② MR Hei-Tec	10 41 50530
③ MR Hei-Connect	10 41 50540
④ MR Hei-End	10 41 50550

Accessories for Heidolph magnetic stirrers

Article	Order No.
Temperature sensor Pt 1000 for type MR Hei-End, MR Hei-Tec and MR Hei-Connect, sensor V4A	51 41 96791
Temperature sensor Pt 1000 for type MR Hei-End, MR Hei-Tec and MR Hei-Connect, sensor glass coated	51 41 96792
Pt 1000 support rod includes support rod and attachment with cable inlet	51 41 98100
Pt 1000 clamp	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 fits precisely to every flask, thus ensuring maximum surface contact and fast heat transfer. Eliminates the mess from cleaning flasks after removal 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 PTFE 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 4000 ml block	10 41 58780
Heat-On 5000 ml block	10 41 58760

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
Multi-well block holder	10 41 58600

Heat-On accessories

Article	Order No.
Retort clamp	10 41 58175
Boss head	10 41 70311
Flask stand and clamp kit	10 41 58140
Support rod for bath attachments from 3 – 5 liter, Retort clamp, Boss head	
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

StarFish accessories

Universal 5-way clamps

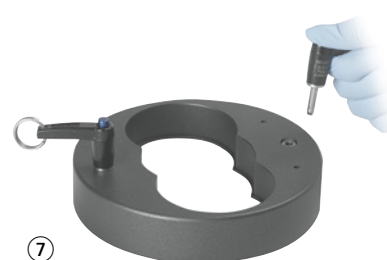
The StarFish clamp allows you to hold glassware of virtually any size and comes with a choice of Silicone rubber or Velcro support straps. Each clamp features 5 telescopic arms which can be extended and locked in place to suit your needs.

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 outlet 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

MR Silver 1 Package

This package includes:

- Magnetic Stirrer MR Hei-Tec
- Temperature sensor Pt 1000 (V4A)
- Pt 1000 clamping system (includes support rod and attachment with cable inlet)

MR Silver 2 Package

This package includes:

- Magnetic Stirrer MR Hei-Connect
- Temperature sensor Pt 1000 (V4A)
- Pt 1000 clamping system (includes support rod and attachment with cable inlet)
- Interface cable RS 232

MR Gold 1 Package

This package includes:

- Magnetic Stirrer MR Hei-Tec
- Temperature sensor Pt 1000 (V4A)
- Pt 1000 clamping system (includes support rod and attachment with cable inlet)
- Multi-Well holder with the following inserts: 2 × 25 ml, 2 × 50 ml, 2 × 100 ml

MR Gold 2 Package

This package includes:

- Magnetic Stirrer MR Hei-Standard
- Multi-Well holder with the following inserts: 2 × 25 ml, 2 × 50 ml, 2 × 100 ml

MR Platinum Package

This package includes:

- Magnetic Stirrer MR Hei-End
- Temperature sensor Pt 1000 (V4A)
- 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 & long handle)
- 2 × Water Manifold
- 1 × Gas/Vacuum Manifold
- 650-mm split rod

Article	Order No.
MR Silver 1 package	10 41 58014
MR Silver 2 package	10 41 50548
⑧ MR Gold 1 package	10 41 58016
MR Gold 2 package	10 41 58015
⑨ MR Platinum package	10 41 50581

