





Premium Safety Standards

- To prevent accidents or laboratory fires, all magnetic stirrers feature an overtemperature circuit which switches off the hotplate if an overtemperature situation occurs
- In combination with Heat-On attachments you can convert your lab into a "safety zone"
- Even if the stirrer is exposed to the highest temperatures, damage is categorically ruled out – all models come with a fire-resistant aluminum die-cast housing
- Hotplate residual heat indicator in the digital display is illuminated when unit is turned off and hotplate temperature is above 50 °C to warn operator of potential burn hazards

- For your safety, the unit will power off in case of a short-cut, a damage to the temperature sensor, a motor failure or other incidences during operation
- To protect you from splashes and scalding from bath media, rotation speed ramps up slowly until unit has reached the preprogrammed speed
- In case the heating function fails, stirring will not be discontinued to avoid thermal damage to your sample
- 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

Safe Heating and Mixing

The unique Kera-Disk® heating plate of aluminum provides fast heating times, and the wafer-thin ceramic coating makes the heating plate both chemically and scratch resistant!





Reduced Cost of Ownership

- Reduce your process times! The extended heating capacity of 800 W reduces your heat-up time by 35 % compared to other units at 600 W
- The sealed housing protects the electronics and the non-maintenance of sparkless motors reduce down times
- The design and features give an increased lifespan of 10 years along with significantly reduced maintenance and repair costs

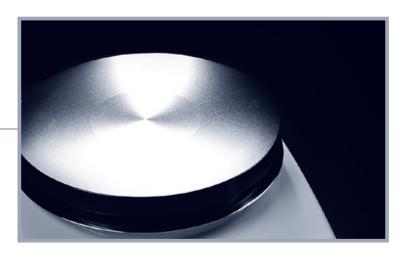
Superior Ease of Use

- All units with digital display allow for easy setting and monitoring values on the illuminated readout
- You can even work with dry ice a robust thermal insulation prevents corrosion inside the housing by preventing condensate from collecting and dripping on any electronic components
- An optional software program is available for the MR Hei-End to aid you in automating your process, and software saves all data in electronic files
- The unique Kera-Disk® coating is extremely chemical-resistant and scratch-proof and can be cleaned easily if solvents, oil or other contaminations are spilled on the plate
- The strong magnetic field allows for easy stirring of even higher viscosity media



Kera-Disk® top plate

With Kera-Disk® material coating, fast heat-up times and chemical resistance is no longer exclusive.

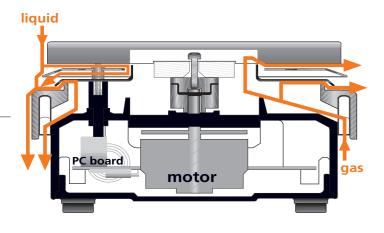


YOUR ADVANTAGES

- Glass ceramic top plates are chemical-resistant and scratchproof but produce longer heatup times
- Aluminum top plates allow for an immediate heat transfer but are not chemical-resistant or scratch-proof
- Kera-Disk® top plates take the best of two worlds: The aluminum top plate allows for immediate heat transfer for quick heat-up times and a thin layer of ceramic coating makes the top plates chemicalresistant and scratch-proof

Sealed housing

The sealed housing of the MR series guarantees extended performance life and reduced maintenance.



YOUR ADVANTAGES

- The sealed housing protects your magnetic stirrer from aggressive fumes, liquids and vapors to prevent internal corrosion. This results in an increased lifespan of 10 years on average at reduced maintenance and repair cost
- Hermetically-sealed housing protects all mechanical and electronic components from aggressive environments
- Corrosion is prevented effectively which reduces maintenance and repair costs to an absolute minimum

The hermetically-sealed housing that protects the PC board and the motor is marked in black. The way a liquid would take flowing down from the hotplate is marked in orange. As one can see, even if the liquid reaches the heat shields, it cannot penetrate to the PC board and the

motor but is drained off. The other line marked in orange shows that gas can neither penetrate to the PC board or to the motor. The apparent crack is due to temperature insulation. Because of that crack the temperature inside the magnetic stirrer stays substantially lower, which

significantly increases the durability of the magnetic

For protection against liquid and gas, the heating elements are completely embedded in ceramic

Safe Heating and Mixing

Premium Safety Standards

Superior Ease of Us

Reduced Cost of Ownership

The extended heating capacity of **800 W** reduces heat-up times by **35 %** compared to other units at 600 W

Hermetically-sealed housing protects all mechanical and electronic components from aggressive environments

In case the heating function fails, stirring will not be discontinued to prevent bumping

The temperature sensor switches off heating in case of any overtemperature situation

In case of a short-circuit, a damage or removal of the temperature sensor from the media, the **unit powers off completely**

Damage to the stirrer is categorically ruled out even if exposed to highest temperatures – all models come with a fire-resistant aluminum die-cast housing

A separate ON/OFF button for heating **prevents unintentional heat-up** – the button is illuminated for visual control

The chemically resistant KeraDisc®

The average operational lifespan of 10 years is backed by a 3 year warranty and makes your purchase a truly worthwhile investment.

Magnetic stirring hotplates

Preferred use of the MR Series magnetic stirrers includes smooth to intense mixing and heating of low-viscosity fluids. Your first choice for decomposing organic and inorganic substances.

- With a heating power of 800 W the hotplate reaches a maximum temperature of 300 °C in a significantly reduced time
- 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 even higher viscosity media or volumes of 20 liters of water with ease
- Speed is variably adjustable from 30 to 1,400 rpm at an accuracy of ± 1 % for gentle mixing



 Convert your magnetic stirrer over to a time-saving multiple-reaction workstation



 By far the safest, fastest and most time-efficient method to heat and stir a sample in a round-bottom flask



MR Hei-Standard

Model for standard applications without display

The magnetic stirrers include all premium safety standards and feature for superior ease of use and reduced cost of ownership, plus:



MR Hei-Standard

P/N 505-20000-00

- For your protection an independent safety circuit will switch off heating if hotplate temperature exceeds 25 °C of set temperature
- Upgrade this magnetic stirrer with the optional digital thermometer EKT Hei-Con that provides precise control of temperature 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

The magnetic stirrers include all premium safety standards and feature for superior ease of use and reduced cost of ownership, plus:



MR Hei-Tec

P/N 505-30000-00

- This unit features a digital display and allows for easy setting and monitoring of values in the illuminated readout
- For your protection an independent safety circuit will switch off heating if hotplate temperature exceeds 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
- 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 digital thermometer EKT Hei-Con that provides precise control for temperature to give you temperature overshoot protection and reproducible results

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MR Hei-End

Model for highest safety

The magnetic stirrers include all premium safety standards and feature for superior ease of use and reduced cost of ownership, plus:



MR Hei-End P/N 505-50000-00

- An independent safety circuit switches off heating at an operator-programmed temperature value between
 10 - 25 °C above your set temperature
- An 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 of values on the illuminated readout. 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 display 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

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 overtemperature situation
- Works efficiently in a very hot environment or under steamy conditions
- Double-spaced digital display for convenient monitoring of the illuminated readout
- By the press of the MAX-button you can see the overtemperature at which the unit will power off for safety reasons

- All heating settings of the hotplate will be indicated on the EKT Hei-Con display
- To make troubleshooting easy a sensor feature signals any short-circuit or breakage on the display to inform operator of disruption
- Equipment automatically switches off heating if temperature sensor is not in contact with the media or is removed from the vessel unintentionally

Accessories

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



EKT Hei-Con stainless steel sensor P/N 509-88000-00

EKT Hei-Con G glass coated sensor P/N 509-88100-00

Software

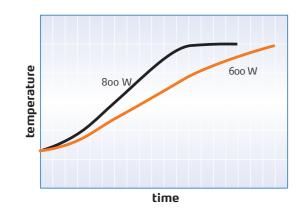
 Utilize the optional software to control and document the entire process. Unit features a digital RS 232 and analog interface for connecting the optional software easily



Hei-PC-Control Software for MR Hei-End P/N 592-50500-00

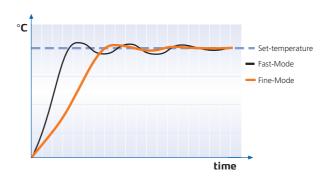
Heat-up graph

 Take advantage of a built-in PID controller that ensures fastest heat-up times while preventing an overtemperature situation of your sample



Select between these two modes:

- The time-saving Fast-Mode guarantees shortest heating-up times
- The precise Fine-Mode ideal to categorically prevent an overtemperature situation



Contact thermometer EKT Hei-Con

Contact thermometer ERT	Tiel-Coll	
Temperature range	(°C)	-50 to +300
Resolution	(°C)	1
Accuracy of measurement	(°C)	± 1
Measuring cycle	(sec)	1.5
Control accuracy	(°C)	± 0.5
Temperature sensor EKT He	ei-Con	Pt 1000, V2A
Temperature sensor EKT He	ei-Con G	Pt 1000, glass
Sensor length	(mm)	210
Cable length	(mm)	700
Min. immersion depth	(mm)	20
Ambient temperature range	(°C)	-5 to +60
Housing		Polyamide
Weight	(kg)	0.3
Dimension l x w x h	(mm)	54 x 22 x 126
Protection class (DIN EN 60529)	IP 40
Power supply	(V)	8 -15

Magnetic stirrers without heating

For gentle stirring in biology and microbiology applications

Hei-Mix D / Hei-Mix L



- Top plate is insulated from the motor and protects your heat-sensitive samples from any thermal damage
- To treat your sample gently and protect it from damage the rotation speed ramps up slowly until it has reached the pre-programmed speed
- Top plate diameter of 145 mm and a speed range from 100 to 1,400 rpm is ideal for quantities up to 20 liter
- Hermetically-sealed housing prevents corrosion and increases the service life of your unit
- You can even work with dry ice a robust thermal insulation prevents corrosion inside the housing which minimizes dripping of condensate on the electronic components
- These models come with a top plate material of finest-quality stainless steel

MR Hei-Mix L (without display)

P/N 505-00000-00

MR Hei-Mix D P/N 505-01000-00

Hei-Mix S



- Stir quickly and efficiently with an extended speed range up to 2,200 rpm
- Space-saving unit for efficiently mixing sample sizes up to 5 liter. Small footprint of 126 x 80 x 140 mm only, and the top plate comes with a diameter of 104 mm
- Ideal for titrations due to white-colored top plate
- Long-lasting polyamide housing and PVDF top plate material

MR Hei-Mix S

P/N 503-02000-00

Heat-On attachments

Are safety at work and preventing oil baths and heating mantles from fire priorities in your lab? Do you want to minimize the messy oil clear-ups that result from changing oil or removing flasks from an oil bath?

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.

Premium Safety Standards

- Prevents accidents, fires and contamination by completely banning all oil baths from your laboratory
- This unique design prevents glass breakage and protects you from spilled chemicals or solvents
- The high temperature range provides unlimited safety for applications up to 260 °C

Superior Ease of Use

- A unique PTFE-coating on the aluminum Heat-On body allows for superior chemical resistance and many years of service life
- Precise temperature control inside the vessel or on the heating block with a thermocouple port that provides actual block temperature back to your MR Series hotplate

Reduced Cost of Ownership

- Increase your daily work throughput significantly and reduce your overall process times by quick changing of Heat-On blocks
- 1,000 ml of water heats up 66 % faster than conventional oil baths
- 150 ml of water boils in less than 11 minutes



Flask Volume	Volume of Water	Hotplate Temperature	Time to reach boiling	
10 ml	6 ml	300 °C	6.8 mins	
25 ml	15 ml	300 °C	8.o mins	
50 ml	30 ml	300 °C	8.5 mins	
100 ml	60 ml	300 °C	8.8 mins	
150 ml	100 ml	300 °C	10.0 mins	
250 ml	150 ml	300 °C	10.8 mins	
500 ml	300 ml	300 °C	16.4 mins	
1,000 ml	600 ml	300 °C	21.1 mins	
2,000 ml	1,200 ml	300 °C	35.1 mins	
5,000 ml	3,000 ml	300 °C	75.5 mins	

13

For best results we recommend round-bottom flasks that comply with DIN EN ISO 4797 and DIN EN ISO 24450

Heat-On attachments

Heat-On Blocks

Each Heat-On block is a stand-alone product that can be placed directly onto the stirring hotplate

Heat-On 250-ml Block	505-80067-00
Heat-On 250-ml Block with flask	
sidearm cutouts	505-80067-01
Heat-On 500-ml Block	505-80069-00
Heat-On 1-Liter Block	505-80071-00
Heat-On 2-Liter Block	505-80073-00
Heat-On 3-Liter Block	505-80075-00
Heat-On 5-Liter Block	505-80076-00



Heat-On 250-ml Block with flask sidearm cutouts

Heat-On Multi-Well Holder



Heat-On 2-Liter Block

Multi-Well Holder and Inserts

This unique Multi-Well Holder is designed to hold either one or two inserts for flasks*.

The inserts are available for 10-ml, 25-ml, 50-ml, 100-ml and 150-ml flasks. Flask inserts also feature cut-away sides for use with two or three-neck flasks and accept the optional safety lifting handles.

* Only accepts one 150 ml insert

Inserts for Multi-Well Holder

Heat-On 10-ml Insert	505-80061-00
Heat-On 25-ml Insert	505-80062-00
Heat-On 50-ml Insert	505-80063-00
Heat-On 100-ml Insert	505-80064-00
Heat-On 150-ml Insert	505-80065-00



P/N 505-80060-00

Heat-On 10-ml Insert

and 100-ml flasks

Package Heat-On Multi-Well

including 1x Multi-Well holder and 6 inserts, 2 each for 25-ml, 50-ml



Heat-On 50-ml Insert

505-81200-00

Heat-On Multi-Well Packages

Package Heat-On Multi-Well Basic
including 1x Multi-Well holder and 3
inserts for 25-ml, 50-ml and 100-ml
flacks

505-81300-00

tlasks

Heat-On Accessories

Support Rod for Heating Bath 4-l Retort Clamp Boss Head	509-97000-00 505-81075-00 570-31100-00
Flask Stand & Clamp Kit	505-81400-00

(including Support Rod for Heating Bath 4-l, Retort Clamp, Boss Head)

Adapter Plate for 135-mm hotplate 505-81000-01

Heat-On Safety Handles (pair) P/N 505-80077-00

PTFE Safety Cover

for Heat-On Multi-Well Holder	505-80080-00
for Heat-On 200/300-ml Block	505-80081-00
for Heat-On 500-ml Block	505-80082-00
for Heat-On 1-Liter Block	505-80083-00



PTFE Safety Cover



Heat-On Safety Cover 500 ml

● Cool-ItTM Bowl - the unbreakable dewar

The safest and most efficient way of cooling and stirring round bottom flasks to -78 °C

Cool-It replaces fragile glass dewars, unstable plastic bowls and keeps your chemistry colder for longer. The compact and virtually unbreakable Cool-It insulated bowls are designed to fit onto a standard stirring hotplate to cool and stir round bottom flasks, beakers, test tubes etc.

Compared to dewars Cool-It offers:

- Cool-It will keep your sample below -70°C for up to 5 times longer than a plastic bowl
- Cool-It will keep your reactions below -70°C for twice as long as a glass dewar



Cool-It Small Bowl + Free Lid For flasks up to 400 ml P/N 505-80085-00





Cool-It Large Bowl + Free Lid For flasks up to 2 liters P/N 505-80086-00

StarFish workstations

Have you always been looking for a means to perform numerous reactions on a small footprint to significantly reduce space and process times?

With our attachments you can turn your magnetic stirrer 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 tasks including chemical reactions, concentrations, extractions under vacuum and by providing protective gas

No special glassware purchase required - use your own glassware and cherry-pick the appropriate attachments for your applications

Base Plate

Base Plate with optional handles fits securely onto the top plate maintaining good thermal contact with the heated surface

StarFish Base Plate (145 mm) 505-81000-00
StarFish Base Plate Handles (Pair) 505-81001-00

MonoBlocks

MonoBlocks are single blocks with multiple wells all of the same size and are ideal for experiments using the same vessel

MonoBlock for 5 x 250-ml Flasks	505-80001-00
Inserts for MonoBlock 5 x 250 ml	
150-ml Flask Insert	505-80040-00

100-ml Flask Insert 505-80041-00 50-ml Flask Insert 505-80042-00 25-ml Flask Insert 505-80043-00 10-ml Flask Insert 505-80044-00 5-ml Flask Insert 505-80045-00 MonoBlock for 16 x 25-mm Tubes 505-80002-00 MonoBlock for 16 x 24-mm Tubes 505-80003-00 MonoBlock for 40 x 16-mm Tubes 505-80004-00 MonoBlock for 40 x 12-mm Tubes 505-80005-00 MonoBlock for 16 x 28-mm Vials 505-80006-00 MonoBlock for 20 x 21-mm Vials 505-80007-00 MonoBlock for 40 x 17-mm Vials 505-80008-00 MonoBlock for 40 x 15-mm Vials 505-80009-00 MonoBlock for 40 x 12-mm Vials 505-80010-00

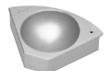
Numerous combinations

Cherry-pick from different PolyBlock options in different sizes or one MonoBlock system for identical round-bottom flasks or vials. In addition, you can choose from a large selection of inserts ranging from 5 ml to 150 ml

PolyBlocks

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

PolyBlock for 1 x 250-ml Flask	505-80020-00
PolyBlock for 3 x 25-mm Tubes	505-80021-00
PolyBlock for 3 x 24-mm Tubes	505-80022-00
PolyBlock for 9 x 16-mm Tubes	505-80023-00
PolyBlock for 9 x 12-mm Tubes	505-80024-00
PolyBlock for 3 x 28-mm Vials	505-80025-00
PolyBlock for 3 x 21-mm Vials	505-80026-00
PolyBlock for 7 x 17-mm Vials	505-80027-00
PolyBlock for 9 x 15-mm Vials	505-80028-00
PolyBlock for 9 x 12-mm Vials	505-80020-00







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. Using different straps on separate clamps allows you to grip the flask neck with the Silicone rubber strap for lifting, whilst the condenser above slides through the Velcro strap



5-way Clamp (Velcro) P/N 505-81010-00



5-way Clamp (Silicone strap and handle) P/N 505-81020-00

Water-Distribution Manifold

Allows coolant from a single source to be evenly distributed to up to five condensers and then recombines the flow to one outlet pipe. Two manifolds are used in each set-up, one to distribute water to the condenser and one to collect coolant for recirculation or to drain. Connectors feature leak-proof shut-off valves



Water Manifold with connector P/N 505-81030-00

Gas/Vacuum-Distribution Manifold

Allows gas or vacuum from a single source to be evenly distributed to up to five positions or vessels (does not control or regulate gas/vacuum flow). Connectors feature leakproof shut-off valves

Replacement Self Adhesive Velcro Pads, 200 mm 505-81070-00 (pack of 10)

Replacement Velcro Loop Strips, 200 mm 505-81080-00 (pack of 5)

Replacement Silicone Straps, 200 mm 505-81090-00 (pack of 5)
650 mm, Support Rod 505-81050-00 650 mm, Support Split Rod 505-81060-00



Gas/Vacuum Manifold with connector P/N 505-81040-00

Accessories



1-l Heating Bath PTFE-coated P/N 504-93100-00



2-l Heating Bath PTFE-coated P/N 504-92100-00



4-l Heating Bath PTFE-coated P/N 504-91100-00



1-l Heating Bath for Oil max. temperature 250 °C P/N 504-93000-00



2-l Heating Bath for Oil max. temperature 250 °C P/N 504-92000-00



4-l Heating Bath for Oil max. temperature 250 °C P/N 504-91000-00



Concave Block Adaptor for 1-l round-bottom flasks P/N 504-94000-00



Temperature Sensor Holder for EKT Hei-Con or Pt 1000 P/N 509-67000-00



Heating Bath Fluid 5 L for up to 240 °C, mixable with water P/N 515-31000-00



Pt 1000 Temperature Sensor - glass-coated for model: MR Hei-End P/N 509-67920-00 Pt 1000 Temperature Sensor - stainless steel



for model: MR Hei-End P/N 509-67910-00



Support Rod for temperature sensor for safe fixation on lab length: 425 mm, Ø 13 mm material: stainless steel P/N 509-81000-00 standard.





P/N 509-96000-00



Silicone Protective Cover

Replaceable cover against splashes and dripping water for MR Hei-Mix D, MR Hei-Mix L, MR Hei-Tec and MR Hei-End

P/N 23-07-06-05-59 for MR Hei-Standard P/N 23-07-06-05-63



Stirring Bars, cross shape



Stirring Bars, oval shape



Stirring Bars, elliptical shape

Stirring Bars

Stirring Bars - cylindrical shape	509-56000-00
(25, 40, 50 mm each)	
Stirring Bars - cross shape (10 mm)	509-58400-00
pack of 40 pcs. for 5-ml to 10-ml flasks	
Stirring Bars - cross shape (16.5 mm)	509-58500-00
pack of 20 pcs. for 25-ml to 50-ml flasks	
Stirring Bars - elliptical shape (25 mm)	509-58600-00
pack of 10 pcs. for 100-ml to 400-ml flasks	
Stirring Bars Evaluation Kit	509-58300-00
pack of 10	

Stirring Bars - oval shape (15x6 mm)	509-53000-00
pack of 3 pcs. for 10-ml flasks	
Stirring Bars - oval shape (25x10 mm)	509-54000-00
pack of 3 pcs. for 25-ml to 50-ml flasks	
Stirring Bars - oval shape (30x10 mm)	509-55000-00
pack of 3 pcs. for 100-ml to 250-ml flasks	
Stirring Bars - oval shape (40 mm)	509-58100-00
pack of 5 pcs. for 500-ml to 1000-ml flasks	
Stirring Bars - oval shape (50 mm)	509-58200-00
pack of 5 pcs. for 2000-ml flasks	

Complete packages at a special price

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

P/N 505-20090-00

Packages 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 x 25 ml, 2 x 50 ml, 2 x 100 ml
- 2 x Retort Clamp, 2 x Boss Head

P/N 505-81600-00

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 x 25 ml, 2 x 50 ml, 2 x 100 ml
- 2 x Retort Clamp, 2 x Boss Head

P/N 505-81500-00

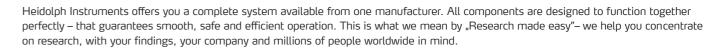
Package StarFish

Package MR Hei-End Multi Workstation

This package includes:

- Magnetic Stirrer MR Hei-End
- Temperature Sensor Pt 1000
- Base Plate
- MonoBlock for 5 x 250 ml Flasks
- 2 x 100-ml Flask Insert
- 2 x 50-ml Flask Insert
- 1 x 25-ml Flask Insert
- 5-way Clamp (Velcro Strap) 5-way Clamp
- (Silicone Strap & Long Handle) 2 x Water Manifold
- 1 x Gas/Vacuum Manifold
- 650-mm Split Rod

P/N 505-81100-00



Call us for a non-obligatory demo



Technical Specifications - Magnetic Stirrers

Modell	MR Hei-Mix S	MR Hei-Mix L	MR Hei-Mix D	MR Hei-Standard	MR Hei-Tec	MR Hei-End
P/N (230	V) 503-02000-00	505-00000-00	505-01000-00	505-20000-00	505-30000-00	505-50000-00
Speed, max. (rp	m) 2,200	1,400	1,400	1,400	1,400	1,400
Speed accuracy	%) ± 5	± 2	± 2	± 2	± 2	± 1
Display	-	_	digital	-	digital	digital
Analog/digital interface	-	-	-	-	-	yes
Heating power (N) -	-	-	800 *	800 *	800 *
Hotplate temperature (C) -	-	-	20 - 300	20 - 300	20 - 300
Medium temperature, max. (C) -			250	250	250
Accuracy temperature setting	C) -			± 5	± 1	± 1
External temperature sensor				EKT Hei-Con	EKT Hei-Con	Pt 1000
Temperature accuracy with external						
temperature sensor (C) -			± 1	± 1	± 0.2
Sensor breakage protection	-	-	-	with EKT Hei-Con	with EKT Hei-Con	with Pt 1000
Temperature control				electronic	electronic	microprocessor
Temperature accuracy hotplate (C) -			± 5	± 5	± 5
Safety circuit hotplate (C) -	-	-	25 °C over	25 °C over	10 - 25 °C
				hotplate	hotplate	over nominal
				temperature	temperature	temperature
Stirring capacity, max. (H ₂ 0)	(l) 5	20	20	20	20	20
Load, max. (I	g) 6	25	25	25	25	25
Power consumption (N) 7	20	20	820	820	825
Permissible ambient temperature (C) 0 - 40	0 - 40	0 - 40	0 - 40	0 - 40	0 - 40
Max. relative humidity	80	80	80	80	80	80
Continuous operation (hours/da	/s) 24/7	24/7	24/7	24/7	24/7	24/7
Plate diameter (m	m) ø 104	ø 145	Ø 145	Ø 145	Ø 145	Ø 145
Plate material	PVDF	V2A	V2 A	Kera-Disk [®] (Silumin	Kera-Disk [®] (Silumin	Kera-Disk [®] (Silumin
				with ceramic coating)	with ceramic coating)	with ceramic coating)
Weight (I	g) 1.2	2.6	2.6	2.9	2.6	2.6
Dimensions (l x w x h) (m	m) 126 x 140 x 80	173 X 277 X 94	173 X 277 X 94	173 X 277 X 94	173 X 277 X 94	173 X 277 X 94
Protection class (DIN EN 605	9) IP 21	IP 32	IP 32	IP 32	IP 32	IP 32
Supply voltage** (V/H	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
	115 / 60	115 / 60	115 / 60	115 / 60	115 / 60	115 / 60



Certificate

To confirm the ability for continuous operation

of the MR Series Magnetic Stirrers with hotplate

The MR Series Magnetic Stirrers with hotplate feature overtemperature safety circuits according to DIN EN 61010-1:2001 and DIN EN 61010-2-010:2003 and therefore, are designed for continuous operation.

This statement is made under the precondition that all units are operated in accordance with the operation manual and in accordance with good practice standards for safety in laboratories, rules for accident preventions, and compliance with directions on hazardous materials.

Schwabach, October 2011

i. V. Stefan Richter **Quality Control Director**

^{**} Standard 230 V / 50 Hz: other voltages upon request, please specify for order



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