

## ➤ 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
- The Hei-Mix D comes with a digital display for set and actual speed

- 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 D**  
P/N 505-01000-00

**MR Hei-Mix L (without display)**  
P/N 505-00000-00



### Hei-Mix S

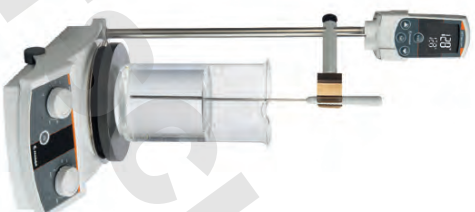
- Stir quickly and efficiently with an extended speed range up to 2,200 rpm
- Space-saving unit for efficiently mixing sample sizes up to 5 liter. Small footprint of L 140 / W 126 / H 80 mm only, and the top plate comes with a diameter of 104 mm

- Ideal for titrations due to white-colored top plate
- Long-lasting polyamide housing and PVDF top plate material



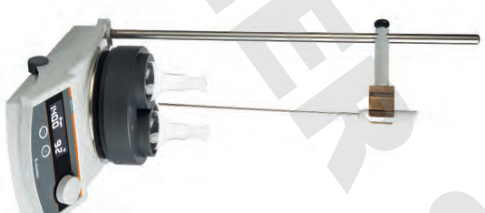
**MR Hei-Mix S**  
P/N 503-02000-00

## ➤ MR Plug & Play Packages



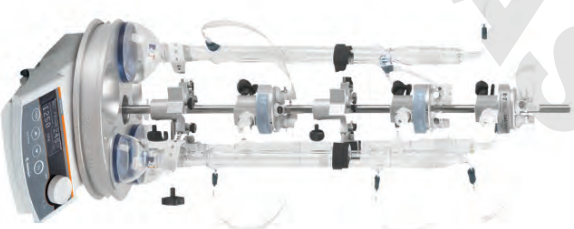
### MR Plug & Play Hei-Standard

- This package includes:**
- Magnetic Stirrer MR Hei-Standard
  - EKT Hei-Con with temperature sensor (stainless steel)
  - Support Rod for EKT Hei-Con
  - Clamp for temperature sensor
- P/N 505-20090-00



### MR Plug & Play Multi-Well Hei-Tec

- This package includes:**
- Magnetic Stirrer MR Hei-Tec
  - Temperature sensor Pt 1000
  - Support Rod for Pt 1000
  - Clamp for temperature sensor
  - 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



### MR Plug & Play 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 (Valcro Strap)
  - 5-Way Clamp (Silicone Strap & Long Handle)
  - 2 x Water Manifold
  - 1 x Gas/Vacuum Manifold
  - 650-mm Split Rod
- P/N 505-81000-00

### MR Plug & Play Multi-Well Hei-Standard

- This package includes:**
- Magnetic Stirrer MR Hei-Standard
  - EKT Hei-Con with temperature sensor (stainless steel)
  - Support Rod for EKT Hei-Con
  - Clamp for temperature sensor
  - 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

## Technical Specifications - Magnetic Stirrers

Model	MR Hel-Mix S	MR Hel-Mix L	MR Hel-Mix D	MR Hel-Standard	MR Hel-Tec	MR Hel-End
PMU	505-00000-00	505-00000-00	505-01000-00	505-20000-00	505-30000-00	505-50000-00
Speed, max.	2,200 (rpm)	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	(W)	-	-	800 *	800 *	800 *
Hotplate temperature	(°C)	-	-	20 - 300	20 - 300	20 - 300
Medium temperature, max.	(°C)	-	-	250	250	350
Accuracy, temperature setting	(°C)	-	-	±5	±1	±1
External temperature sensor	-	-	-	EKT Hel-Con	Pt 1000	Pt 1000
Temperature accuracy with external temperature sensor	(°C)	-	-	±1	±1	±0.2
Sensor breakage protection	-	-	-	with EKT Hel-Con	with Pt 1000	with Pt 1000
Temperature control	-	-	-	Micro controller	Micro controller	Micro controller
Temperature accuracy hotplate	(°C)	-	-	±5	±5	±5
Safety circuit hotplate	(°C)	-	-	25 °C over hotplate temperature	25 °C over hotplate temperature	10 - 25 °C over nominal temperature
Stirring capacity, max. (H <sub>2</sub> O)	(l)	5	20	20	20	20
Load, max.	(kg)	6	35	25	25	25
Power consumption	(W)	7	20	20	820	825
Permissible ambient temperature	(°C)	0 - 40	0 - 40	0 - 40	0 - 40	0 - 40
Max. relative humidity	(%)	80	80	80	80	80
Plate diameter	(mm)	ø 104	ø 145	ø 145	ø 145	ø 145
Plate material	PVDf	V2A	V2A	Kera-Dig® (Silicon with ceramic coating)	Kera-Dig® (Silicon with ceramic coating)	Kera-Dig® (Silicon with ceramic coating)
Weight	(kg)	1.2	2.6	2.6	2.6	2.6
Dimensions (L x W x H)	(mm)	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
Protection class	(DIN EN 60950)	IP 21	IP 32	IP 32	IP 32	IP 32

\* 600 W for 15 V-units  
Standard supply voltage: 230 V - other voltages upon request, please specify for order



# 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, January 2013

*I. V. Jan Weizien*

I. V. Jan Weizien  
Technical Director

*S. Stefan Richter*

S. Stefan Richter  
Quality Control Director