

# PREMIUM LABORATORY EQUIPMENT



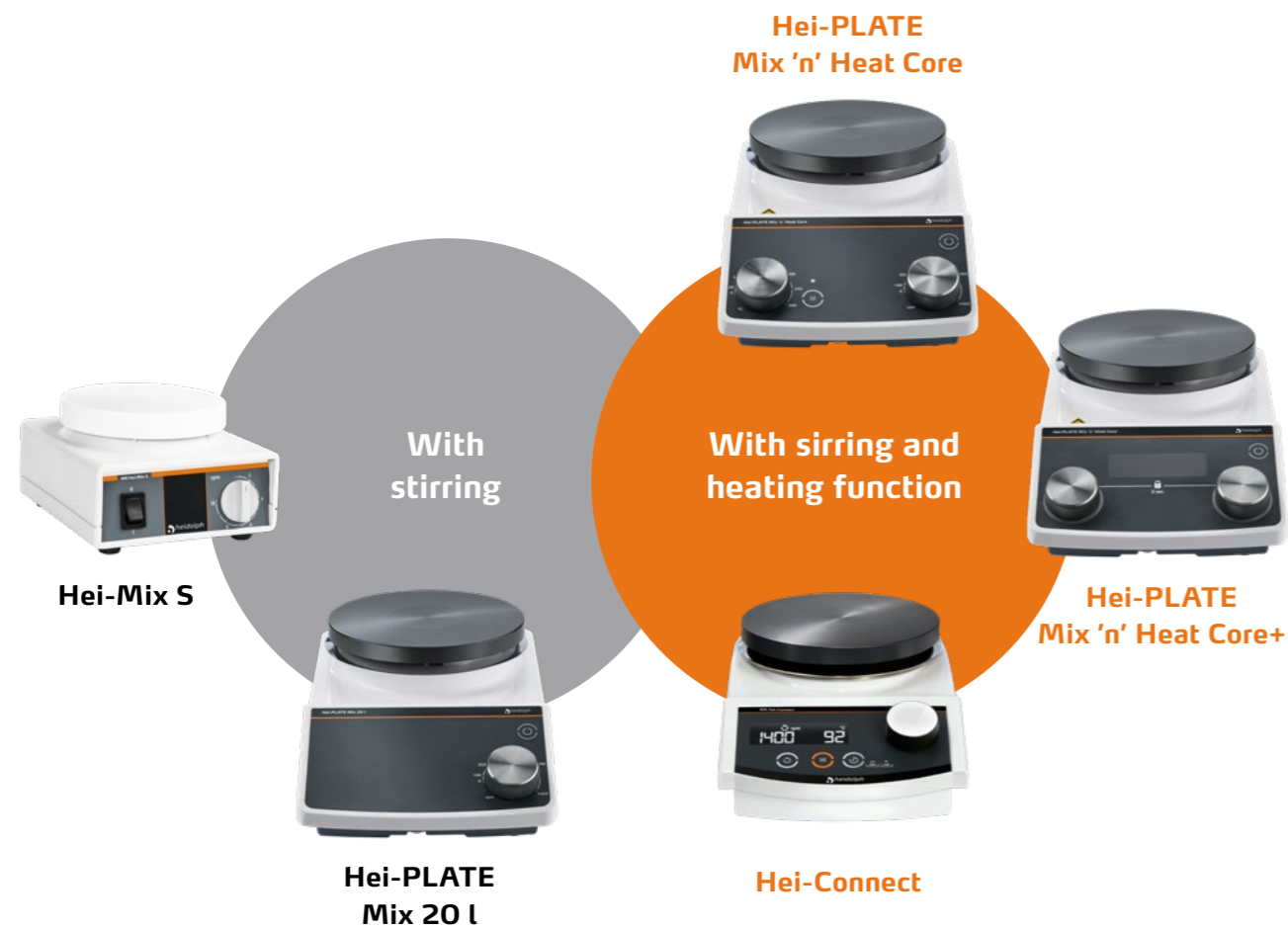
Laboratory and Magnetic Stirrers

## GENTLE POWERHOUSES



# The Hei-PLATE series

Whether with or without a heating function, all our magnetic stirrers have one thing in common: A gentle and yet powerful stirring function, which enables up to 20 liters of low-viscosity media to be mixed.



- Absolutely robust and durable
- Leading safety standards and superior ease of use
- Top chemical resistance and fastest heating times due to the patented Kera-Disk® plate

## Magnetic stirrers

### Hei-Mix S

For biology and biochemistry stirring tasks

- With space-saving polyamide housing
- The white PVDF top plate is ideally suited for titration and has a diameter of 104 mm
- The speed range of up to 2,200 rpm is sufficient for applications up to 5 l



### Hei-PLATE Mix 20 l

For large stirring tasks

- Due to the Kera-Disk® ceramic coating, the top plate is chemical-resistant and scratch-proof
- In order to handle the sample gently, following a soft start, the speed is slowly increased to the required value
- Ideal for applications up to 20 l, as the diameter of the plate is 145 mm and the speed range extends from 100 to 1,400 rpm



Model	P/N
Hei-Mix S	503-02000-00
Hei-PLATE Mix 20 l	506-54100-00

## Magnetic stirrer with heating function

### Hei-PLATE Mix 'n' Heat Core

For easy and safe entry level

### Hei-PLATE Mix 'n' Heat Core+

For academic standards with temperature sensor

Precise setting options and monitoring of the device parameters via the digital display and connection for the external Pt 1000 temperature sensor.

Precise values without temperature fluctuations are achieved with the optional Pt 1000 temperature sensor.



- **Innovative product design:** Underside with grip; flattened edges, which discharge liquids from the device; enlarged safety distance of the control elements from the heating plate, enclosure tested to IP 42
- Two rotary knobs with scale make adjustment of the speed between 100 and 1,400 rpm easier, with a speed accuracy of  $\pm 2\%$  and the max. temperature of 300 °C
- A separate button for the heating function prevents unwanted heating. The button illumination indicates the activated heating function
- Flashing of the heating button signals residual heat and thus also effectively warns to protect against burns even after the heating function is switched off

- Fast access and activation of the heating and stirring function due to the separate rotary-pressure controller for intuitive setting of the parameters – precise or large jumps between 100 and 1,400 rpm and the maximum temperature of 300 °C
- The controller's locking function protects against accidental adjustment
- The values in the illuminated display are easy to read even from a distance. Activated functions are easily detectable due to the LED rings
- Flashing of the orange LED ring signals residual heat and thus also effectively warns to protect against burns even after the heating function is switched off
- Fast and precise temperature control via the connection of an optional external temperature sensor and two selectable heating modes (FAST and PRECISE)
- To protect the sample, the external sensor monitoring switches off the heating automatically if the temperature sensor is no longer immersed in the medium

NEW



Available from mid-2022



Combinable with the Hei-Con electronic contact thermometer (optional) for even more precision when setting the values.

Model	Heating plate	P/N
Hei-PLATE Mix 'n' Heat Core	Ø 145 mm	506-11100-00

NEW



Model	Heating plate	P/N
Hei-PLATE Mix 'n' Heat Core+	Ø 135 mm	506-22100-00
Hei-PLATE Mix 'n' Heat Core+	Ø 145 mm	506-21100-00



# Hei-Connect

## For comprehensive process documentation and reproducible results

For exact process documentation with precise setting option and monitoring of the device parameters via the digital display and connection for the Pt 1000 temperature sensor.

- With connection for the optional Pt 1000 temperature sensor for precise values without temperature fluctuations
- All values can be easily read on the illuminated display even from a distance
- Illuminated buttons indicate activated functions
- The speed can be set precisely via the rotary knob from 100 to 1,400 rpm with a speed accuracy of  $\pm 2\%$  and a max. temperature of 300 °C
- An independent safety circuit switches off the heating to protect against overheating if the set temperature is exceeded by 25 °C
- To protect the sample, the external sensor monitoring switches off the heating automatically if the temperature sensor is not immersed in the medium
- With the timer function, process times for the heating and rotation functions can be defined separately; an acoustic signal sounds at the end of the process
- Residual heat indicator effectively protects from burns



Model	P/N
Hei-Connect	505-40000-00
Hei-Connect with Pt 1000 temperature sensor	505-40081-00





# Technical Specifications

## Magnetic stirrers

Model	Hei-Mix S	Hei-PLATE Mix 20 L
Speed range	0–2.200 rpm	100–1.400 rpm
Speed accuracy	±5 %	±2 %
Drive	Shaded pole motor	EC motor, left-handed
Overheat protection	–	–
Operating mode	Continuous operation	Continuous operation
Power input	7 W	20 W
Connection	L+N+PE	L+N+PE
Sound pressure level	<b>IEC 61010</b> <70 dB (A)	<50 dB (A)
Display	–	–
Analog/digital interface	–	–
Heating power	–	–
Heating temperature range	–	–
Heating control	–	–
Accuracy temperature setting	–	–
Sensor connection	–	–
Control accuracy hotplate	–	–
Residual heat indicator	–	–
Timer	–	–
Max. stirring capacity	<b>H<sub>2</sub>O</b> 5 l	20 l
Max. load	6 kg	25 kg
Usable area of heating plate	<b>Ø</b> 104 mm	145 mm
Top plate material	PVDF	Kera-Disk® aluminum alloy, coated
Weight	1.1 kg	3.0 kg
Dimensions	<b>w/d/h</b> 126×140×80 mm	168×299×101 mm
Maximum height above sea level	up to 2,000 mamsl	up to 2,000 mamsl
Admissible permissible ambient conditions	5–31 °C at up to 80% rel. humidity, 32–40 °C at up to 50% rel. humidity (linearly reducing)	5–31 °C at up to 80% rel. humidity, 32–40 °C at up to 50% rel. humidity (linearly reducing)
EMC class		B, Group 1
Overvoltage category		II
Protection class	<b>IEC 61140</b>	I
Degree of protection	<b>IEC 60529</b> IP 21	IP 42

Standard supply voltage: 230 V. Other supply voltages on request.

# Technical Specifications

## Magnetic stirrers with heating function

Hei-PLATE Mix 'n' Heat Core	Hei-PLATE Mix 'n' Heat Core+	Hei-Connect
100–1.400 rpm	100–1.400 rpm	100–1.400 rpm
±2 %	±2 %	±2 %
EC motor, left-handed	EC motor, left-handed	EC motor
–	–	no, but error message
Continuous operation	Continuous operation	Continuous operation
825 W	825 W	825 W
L+N+PE	L+N+PE	L+N+PE
<50 dB (A)	<50 dB (A)	<70 dB (A)
–	LCD display	digital
–	–	digital (RS 232)
800 W	800 W	800 W
20–300 °C	20–300 °C	20–300 °C
PID	PID	Micro controller
–	±1 K	±1 K with sensor
EKT Hei-Con	Pt 1000	Pt 1000
±5 °C	±5 °C	±5 °C
yes	yes	yes
–	–	yes
20 l	20 l	20 l
25 kg	25 kg	25 kg
145 mm	135 /145 mm	145 mm
Kera-Disk® aluminum alloy, coated	Kera-Disk® aluminum alloy, coated	Kera-Disk® aluminum alloy, coated
3.0 kg	3.0 kg	2.9 kg
168×299×101 mm	168×299×101 mm	173×277×94 mm
up to 2,000 mamsl	up to 2,000 mamsl	up to 2,000 mamsl
5–31 °C at up to 80% rel. humidity, 32–40 °C at up to 50% rel. humidity (linearly reducing)	5–31 °C at up to 80% rel. humidity, 32–40 °C at up to 50% rel. humidity (linearly reducing)	5–31 °C at up to 80% rel. humidity, 32–40 °C at up to 50% rel. humidity (linearly reducing)
B, Group 1	B, Group 1	
II	II	
I	I	I
IP 42	IP 42	IP 32

Standard supply voltage: 230 V. Other supply voltages on request.

# Accessories for Magnetic Stirrers



## Heating bath<sup>1</sup>

1l	PTFE coated	504-93100-00
2l	PTFE coated	504-92100-00
4l	PTFE coated	504-91100-00



## Heating bath for oil<sup>1</sup>

1l	max. temperature 250 °C	504-93000-00
2l	max. temperature 250 °C	504-92000-00
4l	max. temperature 250 °C	504-91000-00



## Concave block adapter<sup>1</sup>

For 1 l round-bottom flasks 504-94000-00



## Magnetic stirring bars

PTFE coated

**cylindrical**  
25, 40, 50 mm 1 piece each 509-56000-00

**Cross shape 16.5 mm**  
For 25–50 ml flask Pack of 20 509-58500-00

**Evaluation kit for round-bottom flask**  
cross-shaped 10 and 16.5 mm,  
elliptical 25 mm,  
oval 40 and 50 mm 2 pieces each 509-58300-00

**oval 15 × 6 mm**  
for round-bottom flask 10 ml Pack of 3 509-53000-00

**oval 25 × 10 mm**  
for round-bottom flask 25–50 ml Pack of 3 509-54000-00

**oval 30 × 10 mm**  
for round-bottom flask 100–250 ml Pack of 3 509-55000-00



## Silicone protective cover

Protects magnetic stirrers from splashing and dripping water

For Hei-Connect 23-07-06-05-59

For Hei-PLATE Mix 20l 23-07-06-05-77

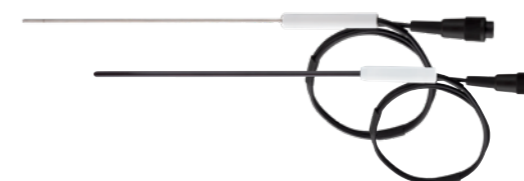
For Hei-PLATE Mix 'n' Heat models 23-07-06-05-76



## Adapter plate

For use of accessories for Ø 145 mm heating plate with Ø 135 mm models

**P/N 505-99000-01**



## Pt 1000 temperature sensor

For Hei-PLATE Mix 'n' Heat Core+

V4A 509-67910-00  
Glass-coated 509-67920-00



## Pt 1000 clamping system

With support rod and clamping device with cable routing

**P/N 509-63100-00**

## Pt 1000 clamping system for large attachments (3–5 l)

With support rod and clamping device with cable routing

For Hei-Connect 509-63200-00  
For Hei-Plate Mix'n'Heat models 509-63300-00



Available from mid-2022

## Hei-Con electronic contact thermometer

For Hei-PLATE Mix 'n' Heat Core+

V4A 509-88000-00  
Glass-coated 509-88100-00



## RS 232 cable

9-pin, for Hei-Connect

**P/N 14-007-040-72**



## Heating bath liquid

Heating bath liquid (5 kg)

up to 170 °C 515-31000-00  
up to 220 °C 569-00600-00

<sup>1</sup> For magnetic stirrers with plate Ø 145 mm.  
An adapter plate is available for models with Ø 135 mm.

# Packages

## Hei-PLATE sensor packages

## Hei-PLATE reflux packages

### HEI-PLATE SENSOR ADVANCED PACKAGE CORE+

- Hei-PLATE Mix 'n' Heat Core+
- Pt 1000 temperature sensor
- Clamping system for Pt 1000 (includes support rod and attachment with cable conduit)
- Silicone protective cover

Ø 135 mm  
P/N 506-22151-00

Ø 145 mm  
P/N 506-21151-00



### HEI-PLATE REFLUX PACKAGE CORE+

- Hei-PLATE Mix 'n' Heat Core+
- Pt 1000 temperature sensor
- Heat-On block 1 l
- Findenser NS29/24
- Attachment kit

P/N 506-21156-00

### HEI-PLATE PACKAGE SILVER 2

- Hei-Connect
- Pt 1000 temperature sensor (V4A)
- Clamping system for Pt 1000 (includes support rod and attachment with cable conduit)
- Interface cable RS 232

P/N 505-40080-00

### HEI-PLATE SENSOR ADVANCED PACKAGE CORE

- Hei-PLATE Mix 'n' Heat Core
- Hei-Con contact thermometer incl. clamping system
- Silicone protective cover

P/N 506-11157-00

Available from mid-2022

### HEI-PLATE SENSOR BASIC PACKAGE CORE+

- Hei-PLATE Mix 'n' Heat Core+
- Pt 1000 temperature sensor (V4A)
- Clamping system for Pt 1000 (includes support rod and attachment with cable conduit)

Ø 135 mm  
P/N 506-22150-00

Ø 145 mm  
P/N 506-21150-00

### HEI-PLATE REFLUX PACKAGE CORE+ MINI

- Hei-PLATE Mix 'n' Heat Core+
- Pt 1000 temperature sensor
- Heat-On block 250 ml
- Findenser Mini NS24/24
- Attachment kit

P/N 506-21155-00

### HEI-PLATE REFLUX PACKAGE CONNECT

- Hei-Connect
- Pt 1000 temperature sensor
- Heat-On block 1 l
- Findenser NS29/24
- Attachment kit

P/N 505-40715-00

### HEI-PLATE REFLUX PACKAGE CONNECT MINI

- Hei-Connect
- Pt 1000 temperature sensor
- Heat-On block 250 ml
- Findenser Mini NS24/24
- Attachment kit

P/N 505-40732-00





# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.