

## Hei-PLATE Mix 'n' Heat Expert

P/N: 036110230



Well-designed features for a carefree stirring and heating

The magnetic stirrer Hei-PLATE Mix 'n' Heat Expert convinces with its intuitive handling: Thanks to respectively one display per main function (stirring and heating), you have an easily legible eye on all values and settings at any time. The handling is made via two push-and-rotary controls with LED-rings for an easy identification of the active functions. Separate timers for heating and stirring functions create flexibility and let you control your experiments better. The user-friendly menu navigation makes working with this device particularly easy.

For controlling the temperature, you can choose between three heating modes: FAST for a particularly quick heating, as well as PRECISE and PRECISE+ for a particularly exact control of your target temperature without overshoot - this is how sensitive samples are optimally protected. Therefore, the device is compatible with the temperature sensor Pt1000 as well as the double sensor Pt1000 that allows the measurement in your sample and in the bath liquid simultaneously.

For the stirring speed, there is a three-stage setting (start-up behavior). Furthermore, you can set the rotational direction of the magnetic stirring bar and benefit from the automatic stir bar

detector. As a result, your sample is optimally stirred at any time, even when there are irregularities while stirring.

This magnetic stirrer is equipped with the most important safety features. The large safety distance between the heating plate and the control panel, as well as the visual residual heat indicator at temperatures  $> 50\text{ }^{\circ}\text{C}$ , protect against burns.

The patented Kera-Disk<sup>®</sup> plate made of anodized aluminum is chemical-resistant, scratch-resistant and has a diameter of 145 mm (also available with 135 mm on request). This makes it suitable for the use with many accessories and samples on a small footprint. Moreover, the material used allows the fastest heating times.

## Hei-PLATE Mix 'n' Heat Expert - Technical Data

Overheat protection	-
Analog / digital interface	USB B
Permissible ambient conditions	5 – 31 °C at up to 80 % rel. humidity, 32 – 40 °C at up to 50 % rel. humidity (linearly reducing)
Weight	3 kg
Protection class (EN 60529)	IP 42
Drive	EC motor, counterclockwise/clockwise rotating
Timer	Yes
Display	2 x TFT display
Rotation speed range	100 – 1,400 rpm
Max. stirring capacity (H <sub>2</sub> O)	20 l
Power input	Normal operation 230 V: 825 W (EU) / 115 V: 625 W (US) Standby mode: 1.7 W
Temperature range	20 – 350 °C, setting accuracy 1 K
Temperature measurement accuracy	Operation with external temperature measuring sensor Pt1000: ± 0.2 K, plus tolerance Pt1000
Dimensions (w/d/h)	168 x 299 x 106 mm
Speed accuracy	± 2 %
Heating power	800 W at 230 V (EU) 600 W at 115 V (US)
Accuracy temperature setting	± 1 K
External temperature sensor	Pt100 / Pt1000
Temperature accuracy hotplate	-
Residual heat indicator	Yes
Max. Load	25 kg
Plate diameter ø	135 / 145 mm
Plate material	Kera-Disk®

Operating Mode	-
Speed range	-
Overvoltage Category	II
Connection	L+N+PE
Acoustic pressure	< 50 db(A)
Heating control	PID
Installation altitude	up to 2,000 m asl
EMC class	B, Group 1
Protection class IEC 61140	-
Protection class IEC 60529	I
Usable Surface heating plate	135 / 145 mm
Degree of pollution	2
Temperature measurement resolution	0,1 K
Rated Voltage	230 V, 50/60 Hz (EU) 115 V, 50/60 Hz (US)