

Technical specifications

General device data		
Hei-PLATE Mix'n'Heat	Expert	Ultimate
Dimensions (W × H × D)	168 × 101 × 299 mm	
Usable surface heating plate	∅ 135 / 145 mm	∅ 145 mm
Weight	approx. 3 kg	
Maximum permissible load	25 kg	
Drive	EC motor, counterclockwise/clockwise rotating	
Speed range	100 – 1,400 rpm, setting accuracy 1 rpm	
Heating power	800 W at 230 V (EU) 600 W at 115 V (US)	
Heating temperature range	20 – 350 °C, setting accuracy 1 K	
Heating control	PID	
Temperature measurement accuracy	Operation with external temperature measuring sensor Pt1000: ±0.2 K, plus tolerance Pt1000	
Temperature measurement resolution	0.1 K	
Display	2× TFT display	
Protection class (EN 60529)	IP42	
Acoustic pressure	< 50 db(A)	
Electrical data		
Rated voltage	230 V, 50/60 Hz (EU) 115 V, 50/60 Hz (US)	
Connection	L+N+PE	
Protection class	I	
Overvoltage category	II	
Degree of pollution	2	
Power input	Normal operation 230 V: 825 W (EU) / 115 V: 625 W (US) Standby mode: 1.7 W	
EMC class	B, Group 1	
Permissible ambient conditions		
Operating temperature	5 °C–31 °C at up to 80% rel. humidity, 32 °C–40 °C at up to 50% rel. humidity (linearly reducing)	
Installation altitude	up to 2,000 m asl	

Lab jack

Load capacity	max. 10 kg
Protection class (EN 60529)	Mechanical parts IP02, electronic components IP42
Power supply	Via magnetic stirrer/USB C cable
Weight	6 kg

List of the factory settings

Parameters	Factory setting	Adjustment range
Heating mode	FAST	<ul style="list-style-type: none"> ▪ FAST ▪ PRECISE ▪ PRECISE+
Temperature [unit]	°C	<ul style="list-style-type: none"> ▪ °C ▪ °F
Soft start	Medium	<ul style="list-style-type: none"> ▪ Slow ▪ Medium ▪ Fast
[Magnetic field] stir bar detector	Off	<ul style="list-style-type: none"> ▪ On ▪ Off
[Rotating field] direction	Counterclockwise	<ul style="list-style-type: none"> ▪ Counterclockwise ▪ Clockwise
Interval operation	Off	<ul style="list-style-type: none"> ▪ On ▪ Off
Language [menu navigation]	English	<ul style="list-style-type: none"> ▪ English ▪ German
Sound [button sounds]	On	<ul style="list-style-type: none"> ▪ On ▪ Off
Interface mode	Safe	<ul style="list-style-type: none"> ▪ Safe ▪ Expert
Auto standby	Off	<ul style="list-style-type: none"> ▪ On ▪ Off
[Safety temperature] safety delta T	25 °C	<ul style="list-style-type: none"> ▪ 10 °C –25 °C
Sensor monitoring	On	<ul style="list-style-type: none"> ▪ On ▪ Off
Restart [after interruption of the power supply]	A: Heating Rotation off	<ul style="list-style-type: none"> ▪ A: Heating Rotation off ▪ B: Rotation on ▪ C: Heating Rotation on
T limit [maximum heating plate temperature]	375 °C	<ul style="list-style-type: none"> ▪ 50 °C –375 °C