



## HOTPLATE MAGNETIC STIRRER

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Compact, automatic and powerful hotplate magnetic stirrer has stainless steel material with a ceramic coating which prevents corrosion. It is available with external temperature sensor PT1000, timer, PC control. A warning sign is display when over-temperature. Timer can be set from 1min to 99h 59min. Used with a wide variety of accessories.

Used in Cell Culture, Laboratory, Research, Medical.

Also known as Laboratory Magnetic Hotplate Stirrer, Digital Magnetic Stirrer.

## BHMS-101 HOTPLATE MAGNETIC STIRRER



Stainless steel with ceramic coated hotplate resists to corrosion

Separated safety circuit, automatically stop heating when temperature over 350°C

Motor with electronic speed control, constant speed even during changes in load

Variable speed of motor

High magnetic adhesion, prevent the stirrer bar escape

Enclosed assembly with protection class IP42 and DC brushless motor guarantees long service

## SPECIFICATIONS

Model	BHMS-101
Capacity	20 L
Stirring Positions	1
Speed Range	0~1500 rpm
Temperature	RT~340°C
Permissible Ambient Temperature	5-40°C
Safety Temperature	350°C
Permissible Relative Humidity	0.8
Motor rating Input [W&#93	18
Motor rating output [W&#93	10
Heating Output	500 W
Work Plate Size	135 mm
Stirrer Dimension	80 mm
Platform Material	Stainless steel with ceramic coating
Speed Display	Scale
Temperature Display	Scale
Motor Type	DC motor
Protection Class	IP42
Overall Dimension (WxDxH)	160x280x85 mm
Weight	2.8 kg
Power	530 W
Power Supply	100-120V/200-240V, 50/60Hz

# BHMS-102 HOTPLATE MAGNETIC STIRRER



External temperature sensor PT1000 is available for hotplate model, real-time control medium temperature.

Simple running interface easy to use and program.

Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode.

Record and display the last running parameters when switch on.

LCD display target and actual temperature, as well as set speed and actual speed can be displayed.

PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy

Brushless DC motor maintenance free and explosion-proofed, accurately control speed

Separate safety circuits with fixed safety temperature of 580°C, automatically stops heating once exceed secure temperature

HOT warning indicates residual hotplate temperature.

LCD display would show "Hot" when hotplate temperature over 50°C warning point, even if switched off.

Software StirPC, computer can control and document all operation values via RS232 interface

## SPECIFICATIONS

Model	BHMS-102
Capacity	20 L
Stirring Positions	1
Speed Range	100-1500 rpm
Temperature	RT-550°C
Permissible Ambient Temperature	5-40°C
Temperature Increment	1°C
Control Accuracy of Work Plate	±1(<100°C), ±1%(>100°C)
Temperature Accuracy	±0.1°C
Safety Temperature	580°C
Control Accuracy with Sensor PT1000	±0.2°C
Permissible Relative Humidity	0.8
Heating Warning	50°C
Motor rating Input [W&#93	18
Motor rating output [W&#93	10
Heating Output	1000 W
Work Plate Size	184x184 mm
Stirrer Dimension	80 mm
Platform Material	Glass ceramic
Speed Display	LCD
Speed Display Resolution	±1 rpm
Temperature Display	LCD
Remote Control (RS232 interface)	Yes
Motor Type	Brushless DC motor
Protection Class	IP21
Overall Dimension (WxDxH)	215x360x112 mm

Weight	5.3 kg
Power	1050 W
Power Supply	100-120V/200-240V, 50/60Hz

## BHMS-103 HOTPLATE MAGNETIC STIRRER



LED display target and actual temperatures

External temperature sensor PT1000 is available, display and control actual medium temperature, control accuracy of  $\pm 1^{\circ}\text{C}$

Separated safety circuits, fixed safety temperature of  $580^{\circ}\text{C}$ , automatically stops heating once exceed secure temperature

HOT warning indicates residual hotplate temperature.

LCD display would show "Hot" when hotplate temperature over  $50^{\circ}\text{C}$  warning point, even if switched off

## SPECIFICATIONS

Model	BHMS-103
Capacity	10 L
Stirring Positions	1
Speed Range	0-1500 rpm
Temperature	RT- $550^{\circ}\text{C}$
Permissible Ambient Temperature	$5-40^{\circ}\text{C}$
Temperature Increment	$5^{\circ}\text{C}$
Control Accuracy of Work Plate	$\pm 10^{\circ}\text{C}$
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Safety Temperature	$580^{\circ}\text{C}$
Control Accuracy with Sensor PT1000	$\pm 0.5^{\circ}\text{C}$
Permissible Relative Humidity	0.8
Heating Warning	$50^{\circ}\text{C}$
Motor rating Input [W&#93	15
Motor rating output [W&#93	1.5
Heating Output	1000 W
Work Plate Size	184x184 mm
Stirrer Dimension	80 mm
Platform Material	Glass ceramic
Speed Display	Scale
Temperature Display	LED
Remote Control (RS232 interface)	No
Motor Type	Shaded pole motor
Protection Class	IP21
Overall Dimension (WxDxH)	215x360x112 mm
Weight	4.5 kg
Power	1030 w
Power Supply	100-120V/200-240V, 50/60Hz

# BHMS-104 HOTPLATE MAGNETIC STIRRER



Conforms to international safety standards and regulations  
 Brushless DC motor is maintenance free and explosion-proof  
 Fully closed aluminum alloy casing has a high IP protection class (IP42)  
 The temperature sensor consists of two independent safety circuits, which switches off heating in case of any over temperature situation  
 "HOT" sign warning to prevent burns, even if switched off.  
 Intergrated temperature sensor PT 1000 for precise temperature control.  
 Excellent heat control accuracy at the work plate:  $\pm 1(^{<100^{\circ}\text{C}}) \pm 1\%(^{>100^{\circ}\text{C}})$   
 Digital process timer allows for unattended operation and can be set from 1min to 99h 59min. When the set time has elapsed, the operation stops  
 Backlit LCD display target and actual temperatures and speed  
 Automatically identifies temperature sensor PT1000 and transfer to PT1000 operation mode.  
 Stainless steel with ceramic coated hotplate allows immediate heat transfer for quick heat-up times, chemical-resistant and scratch proof  
 PC can control and document all parameters via RS232 interface  
 Used with a wide variety of accessories

## SPECIFICATIONS

Model	BHMS-104
Capacity	20 L
Stirring Positions	1
Speed Range	100-1500 rpm
Temperature	RT-340°C
Permissible Ambient Temperature	5-40°C
Temperature Increment	1°C
Control Accuracy of Work Plate	$\pm 1(^{<100^{\circ}\text{C}}), \pm 1\%(^{>100^{\circ}\text{C}})$
Temperature Accuracy	$\pm 0.1^{\circ}\text{C}$
Safety Temperature	360°C
Control Accuracy with Sensor PT1000	$\pm 0.2^{\circ}\text{C}$
Permissible Relative Humidity	0.8
Heating Warning	50°C
Timing Range	1 min to 99h 59min
Motor rating Input [W&#93	18
Motor rating output [W&#93	10
Heating Output	500 W
Work Plate Size	135 mm
Stirrer Dimension	80 mm
Platform Material	Stainless steel with ceramic coating
Speed Display	LCD
Speed Display Resolution	$\pm 1$ rpm
Temperature Display	LCD
Remote Control (RS232 interface)	Yes
Motor Type	Brushless DC motor
Protection Class	IP42

Overall Dimension (WxDxH)	160x280x85 mm
Weight	2.8 kg
Power	550 W
Power Supply	100-120V/200-240V, 50/60Hz

## BHMS-105 HOTPLATE MAGNETIC STIRRER



Heating temperature up to 280°C

Stainless steel with ceramic coated hotplate resists to corrosion

External temperature sensor PT1000 is available and control accuracy of  $\pm 1^{\circ}\text{C}$ , real-time control medium temperature.

LED display temperature and speed.

50°C HOT warning indicates residual hotplate temperature.

ABS casing with fire retardant material, resistance of weak acid and alkali

## SPECIFICATIONS

Model	BHMS-105
Capacity	3 L
Stirring Positions	1
Speed Range	100-1500 rpm
Temperature	RT-280°C
Permissible Ambient Temperature	5-40°C
Temperature Increment	1°C
Control Accuracy of Work Plate	$\pm 1(<100^{\circ}\text{C})$ , $\pm 1\%(>100^{\circ}\text{C})$
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Safety Temperature	320°C
Control Accuracy with Sensor PT1000	$\pm 0.5^{\circ}\text{C}$
Permissible Relative Humidity	0.8
Heating Warning	50°C
Motor rating Input [W&#93	5
Motor rating output [W&#93	3
Heating Output	500 W
Work Plate Size	135 mm
Stirrer Dimension	50 mm
Platform Material	Stainless steel with ceramic coating
Speed Display	LED
Temperature Display	LED
Remote Control (RS232 interface)	No
Motor Type	Brushless DC motor
Protection Class	IP21
Overall Dimension (WxDxH)	150x260x80 mm
Weight	1.8 kg
Power	515 W

## BHMS-106 HOTPLATE MAGNETIC STIRRER



External temperature sensor PT1000 is available for hotplate model, real-time controls medium temperature.

Simple running interface easy to use and program.

Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode.

Record and display the last running parameter when switch on.

LCD display target and actual temperatures, as well as set and actual speed can be displayed.

PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy.

Brushless DC motor maintenance free and explosion-proofed, accurately control speed

Fully closed assembly guarantees safety and long service life, effectively prevents the liquid into unit to protect the components from damage

Separate safety circuits, fixed safety temperature of 360°C, Automatically stops heating once exceed secure temperature

HOT warning indicates residual hotplate temperature.

LCD display would show "Hot" when hotplate temperature over 50°C warning point, even if switched off

Software StirPC, computer can control and document all operation values via RS232 interface

## SPECIFICATIONS

Model	BHMS-106
Capacity	20 L
Stirring Positions	1
Speed Range	100-1500 rpm
Temperature	RT-340°C
Permissible Ambient Temperature	5-40°C
Temperature Increment	1°C
Control Accuracy of Work Plate	±1(<100°C), ±1%(>100°C)
Temperature Accuracy	±0.1°C
Safety Temperature	360°C
Control Accuracy with Sensor PT1000	±0.2°C
Permissible Relative Humidity	0.8
Heating Warning	50°C
Motor rating Input [W&#93	18
Motor rating output [W&#93	10
Heating Output	500 W
Work Plate Size	135 mm
Stirrer Dimension	80 mm
Platform Material	Stainless steel with ceramic coating
Speed Display	LCD
Speed Display Resolution	±1 rpm
Temperature Display	LCD

Remote Control (RS232 interface)	Yes
Motor Type	Brushless DC motor
Protection Class	IP42
Overall Dimension (WxDxH)	160x280x85 mm
Weight	2.8 kg
Power	550 W
Power Supply	100-120V/200-240V, 50/60Hz

## BHMS-201 HOTPLATE MAGNETIC STIRRER



Four heating plates independently control temperature and speed, independent display.

Adopt sheet metal shell, with high strength, high temperature resistance and corrosion resistance

The temperature control adopts PID control algorithm, digital display, high precision, small flushing temperature (within  $\pm 5^{\circ}\text{C}$ ), and internal and external PT1000 temperature measurement

Can heat or stirrer 50ml~20L standard or non-standard reaction bottles

Brushless DC motor, stable performance, low noise, long life and no sparks

Heated by an enamel heating plate and the maximum surface temperature can reach  $340^{\circ}\text{C}$ .

The  $30^{\circ}$  bevel control panel is suitable for sitting and standing angles

Magnetic stirring technology, stable at low speed, strong at high speed

## SPECIFICATIONS

Model	BHMS-201
Speed Range	200~1200 rpm
Temperature	Temp. Control Range- R.T.+ $5^{\circ}\text{C}$ ~ $340^{\circ}\text{C}$ Temp. setting range- $30^{\circ}\text{C}$ ~ $340^{\circ}\text{C}$ Temp. Stability- $\pm 3^{\circ}\text{C}$ External temp. Sensor- PT1000 Adjustable safety min. temp. Loop- $50^{\circ}\text{C}$ Adjustable safety max. temp. Loop- $350^{\circ}\text{C}$
Stirring Positions	4
Capacity	Max. stirring capacity(H <sub>2</sub> O) 2Lx4
Standard size of stirring bar	$\phi 8 \times 46 \text{ mm}$
Overall Dimension (WxDxH)	610x272x86 mm
Weight	8.5 Kg
Power	1600 W
Power Supply	AC 220V,50/60Hz



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