



## HOTPLATE MAGNETIC STIRRER BFL1BH2 (BHMS-104)

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## MAGNETIC HOTPLATE STIRRER



Brushless DC motor is maintenance free and explosion-proof  
Digital temperature control up to 340°C  
Digital speed control up to 1500 rpm  
Maximum stirring quantity of H<sub>2</sub>O is 20 L  
Safety circuits provide overheating protection  
"HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off  
High-resolution LCD display shows actual temperatures and speed (displays the time)  
External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at  $\pm 0.2^\circ\text{C}$   
Work plate with ceramic coating provides good chemical-resistant performance

## SPECIFICATIONS

Model	BFL1BH2
Old Model	BHMS-104
Work plate Dimension [W x D]	Ø135mm (5 inch)
Work plate material	stainless steel cover with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Max. stirring quantity, H <sub>2</sub> O (L)	20L
Max. magnetic bar length	80mm
Speed range	100-1500rpm resolution $\pm 1\text{rpm}$
Speed display	LCD
Temperature display	LCD
Heating temperature range	Room Temp.-340°C, increment 1°C
Heating liquid temperature control accuracy	$\pm 1^\circ\text{C}(<100^\circ\text{C}) \pm 1\%(<100^\circ\text{C})$
Overheating temperature protection	420°C
Temperature display accuracy	$\pm 0.1^\circ\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.2^\circ\text{C}$ )
"Hot" warning	50°C
Data connector	RS232
Protection class	IP21
Timer function	1min to 99h59min
Motor rating output	10W
Power	720W
Heating output	500W
Voltage, Frequency	160x280x100mm
Dimension [WxDxH]	2.8kg
Weight	5-40°C, 80%RH
Permissible ambient temperature and humidity	-
Alt Name	LCD Digital Magnetic Hotplate Stirrer with Timer

## ACCESSORIES FOR PURCHASE

No	Name	Description
1	Blue carrying plate	use with color quarter pies
2	Blue Fixed ring	use with color quarter pies
3	Red quarter pie	11 holes, 4mL reaction vessel, Ø15.2mm, 20mm depth
4	Purple quarter pie	4 holes, 20mL reaction vessel, Ø28mm, 24mm depth
5	Orange quarter pie	4 holes, 30mL reaction vessel, Ø28mm, 30mm depth
6	Black quarter pie	4 holes, 40mL reaction vessel, Ø28mm, 43mm depth
7	Green quarter pie	6 holes, 8mL reaction vessel, Ø17.8mm, 26mm depth
8	Golden quarter pie	4 holes, 16mL reaction vessel, Ø21.6mm, 31.7mm depth
9	Reaction block	Reaction block for 50mL round bottom flask (one flask capacity)
10	Reaction block	Reaction block for 100mL round bottom flask (one flask capacity)
11	Reaction block	Reaction block for 250mL round bottom flask (one flask capacity)
12	Reaction block	Reaction block for 500mL round bottom flask (one flask capacity)
13	F101 protective cover	temperature resistance of 135°C
14	Temperature sensor	PT1000-A, length of 230mm
15	Temperature sensor	PT1000-B, temperature sensor with glass coated, length 230mm
16	Support clamp	Support clamp of PT1000 Vertical bar length: 45cm, stems length: 25cm, stem diameter: 10cm
17	Square Module	Square Module, capacity of 16 x 4mL flat bottom, hole dimensions: Ø15.2x 18.5mm
18	Square Module	Square Module, capacity of 16 x 8mL flat bottom, hole dimensions: Ø17.5x23.5mm
19	Square Module	Square Module, capacity of 9 x 16mL flat bottom, hole dimensions: Ø20.5x 28.5mm
20	Square Module	Square Module, capacity of 4 x 20mL flat bottom, hole dimensions: Ø28.5x23.5mm
21	Square Module	Square Module, capacity of 4 x 30mL flat bottom, hole dimensions: Ø28.5x33.5mm
22	Square Module	Square Module, capacity of 4 x 40mL flat bottom, hole dimensions: Ø28.5x43.5mm
23	Square Module	Ø65x25.5mm-150mL (Aperture x Hole depth - Adapted container volume) Spherical Square Module
24	Square Module	Square Module, capacity 50mL round bottom, hole dimensions: Ø86x31.5mm
25	Square Tray	Square Tray with Handle (Length x depth x width: 160 x 32 x 160 mm), Suitable for 5-inch Ø135mm magnetic stirrer
26	Square Tray	Square Tray without Handle (Length x depth x width: 160 x 32 x 160 mm), Suitable for 5-inch Ø135mm magnetic stirrer





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## FEATURES

Brushless DC motor is maintenance free and explosion-proof

Digital temperature control up to 340°C

Digital speed control up to 1500 rpm

Maximum stirring quantity of H<sub>2</sub>O is 20 L

Safety circuits provide overheating protection

"HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off

High-resolution LCD display shows actual temperatures and speed (displays the time)

External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at ±0.2°C

Work plate with ceramic coating provides good chemical-resistant performance

Remote function provides PC control and data transmission

Wide variety of accessories available to choose

Brushless DC motor is maintenance free and explosion-proof

Digital temperature control up to 340°C

Digital speed control up to 1500 rpm

Maximum stirring quantity of H<sub>2</sub>O is 20 L

Safety circuits provide overheating protection

"HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off

Wide range timer function from 1 min to 99 h 59 min

High-resolution LCD display shows actual temperatures and speed (displays the time)

External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at ±0.2°C

Work plate with ceramic coating provides good chemical-resistant performance

Remote function provides PC control and data transmission

Wide variety of accessories available to choose

### Security:

International safety certification: CE, CTUVUS, FCC and other product safety cert., certifications issued by TUV Rheinland

Safety circuits provide overheating protection

"HOT" warning flashes if the work plate temperature is above 50°C

DC brushless motor free of maintenance and spark, and with long service life

Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability.



External sensor



RS232 connector



Wide range of accessories



Chemical resistance



Brushless DC motor



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