

DLAB 340°C magnetic hotplate stirrers include all leading safety standards and features for superior easy of use and cost-effective. They are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

## **MS-H-Pro<sup>T</sup>** LCD Digital Magnetic Hotplate Stirrer with Timer

## **MS-H-Pro<sup>+</sup>** LCD Digital Magnetic Hotplate Stirrer

### Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control with Max. temperature at 340°C
- Digital speed control with Max. speed up to 1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 20L
- Safety circuits provide overheating protection
- The "HOT" warning will flash when the plate temperature is above 50°C even the hotplate is turned off
- Wide range timer function from 1min to 99h59min(MS-H-Pro<sup>T</sup> only)
- The high-resolution LCD display shows actual temperatures and speed(MS-H-Pro<sup>T</sup> include the time)
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at  $\pm 0.2^{\circ}\text{C}$
- Stainless steel work plate with ceramic coating providing good chemical-resistant performance
- Remote function provide PC control and data transmission
- A wide variety of accessories are available



## **MS-H-S** Magnetic Hotplate Stirrer

### Features

- Maintenance free brushless DC motor
- Temperature to 340°C
- Stirring speed up to 1500 rpm
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- Safety circuits provide overheating protection
- A wide variety of accessories are available



# Magnetic Hotplate Stirrers



External sensor



Brushless DC motor



Wide range of accessory



RS232 connector



Chemical resistance



## Specifications

	MS-H-PRO <sup>+</sup>	MS-H-PRO <sup>T</sup>	MS-H-S
Work plate Dimension	φ135mm(5 inch)	φ135mm(5 inch)	φ135mm(5 inch)
Work plate material	stainless steel cover with ceramic	stainless steel cover with ceramic	stainless steel cover with ceramic
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Motor rating input	18W	18W	18W
Motor rating output	10W	10W	10W
Power	550W	550W	530W
Heating output	500W	500W	500W
Voltage	100~120/200~240V 50/60Hz	100~120/200~240V 50/60Hz	100~120/200~240V 50/60Hz
Stirring positions	1	1	1
Max. stirring quantity[H <sub>2</sub> O]	20L	20L	20L
Max. magnetic bar[length]	80mm	80mm	80mm
Speed range	100~1500rpm resolution±1rpm	100~1500rpm resolution±1rpm	0~1500rpm resolution±1rpm
Speed display	LCD	LCD	Scale
Temperature display	LCD	LCD	Scale
Heating temperature range	Room temp.-340°C, increment 1°C	Room temp.-340°C, increment 1°C	Room temp.-340°C
Temperature control accuracy	±1°C(<100°C) ±1%(>100°C)	±1°C(<100°C) ±1%(>100°C)	-
Over temperature protection	360°C	360°C	350°C
Temperature display accuracy	±0.1°C	±0.1°C	±0.5°C
External temperature sensor	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)	-
"Hot" warning	50°C	50°C	-
Timer function	-	1min to 99h 59min	-
Data connector	RS232	RS232	-
Protection class	IP42	IP42	IP42
Dimension [W x D x H]	160x280x85mm	160x280x85mm	160x280x85mm
Weight	2.8kg	2.8kg	2.8kg
Permissible ambient temperature and humidity	5~40°C 80%	5~40°C 80%	5~40°C 80%

# Magnetic Hotplate Stirrers | Accessories



	Cat. No.	Descriptions	MS7-H550-Pro	MS7-H550-S	MS-H-Pro <sup>+</sup>	MS-H-Pro <sup>T</sup>	MS-H-S	MS-H280-Pro
①	18900001	Blue carrying plate, use with color quarter pies			■	■	■	■
②	18900065	Blue Fixed ring, use with color quarter pies			■	■	■	■
③	18900002	Red quarter pie, 11 holes, 4 mL reaction vessel, Ø15.2mm, 20mm depth	■	■	■	■	■	■
④	18900003	Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm, 24mm depth	■	■	■	■	■	■
⑤	18900004	Blue quarter pie, 4 holes, 30mL reaction vessel, Ø28mm, 30mm depth	■	■	■	■	■	■
⑥	18900005	Black quarter pie, 4 holes, 40mL reaction vessel, Ø28mm, 43mm depth	■	■	■	■	■	■
⑦	18900048	Green quarter pie, 6 holes, 8mL reaction vessel, Ø17.8mm, 26mm depth	■	■	■	■	■	■
⑧	18900049	Golden quarter pie, 4 holes, 16mL reaction vessel, Ø21.6mm, 31.7mm depth	■	■	■	■	■	■
⑨	18101006	Reaction block for 50mL round bottom flask (one flask capacity)			■	■	■	■
⑩	18101007	Reaction block for 100mL round bottom flask (one flask capacity)			■	■	■	■
⑪	18101008	Reaction block for 250mL round bottom flask (one flask capacity)			■	■	■	■
⑫	18101009	Reaction block for 500mL round bottom flask (one flask capacity)			■	■	■	■
⑬	18900019	F101 protective cover, temperature resistance of 135°C			■	■	■	■
⑭	18900016	PT1000-A, length of 230mm	■	■	■	■		■
⑮	18900136	PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■		■
⑯	18900017	Support clamp of PT1000	■	■	■	■		
⑰	18900148	Support clamp of PT1000						■