

ONiLAB | MIXING DISTILLING



7" inch hotplate magnetic Stirrers are suitable for various heating and mixing applications with excellent chemical resistance, compact shape and efficient heat transfer. They are widely used in every field of science like biology, chemistry, physical science, pharmaceutical science etc.

MS7-H550-Pro LCD Hotplate Magnetic Stirrer

Features

- Microprocessor PID controls.
- LCD display with speed and temperature control knobs.
- Ceramic work plate with a high power of 1050W reaches a maximum temperature of 550°C.
- Max. Heating temperature of 550°C.
- Ceramic workplate of 184x184mm inches.
- Speed is adjustable from 100 to 1500rpm.
- Safety indication on LCD when the plate temperature exceeds above 50°C.
- PT1000 External temperature sensor for precise temperature control.
- RS232 interface enables data preservation and control through a PC.



MS7-H550-S LED Hotplate Magnetic Stirrer

Features

- LED display with speed and temperature control knobs.
- Adjustable speed range: 0-1500rpm.
- Ceramic workplate with a maximum temperature of 550°C.
- PT1000 External temperature sensor for precise temperature control at an accuracy of $\pm 0.2^{\circ}\text{C}$
- "Hot" warning safety indication on LED when the plate temperature exceeds above 50°C.





Specifications	MS7-H550-Pro	MS7-H550-S
Work plate Dimension [W x D]	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Shaded pole motor
Motor rating input	18W	15W
Motor rating output	10W	1.5W
Power	1050W	1030W
Heating output	1000W	1000W
Voltage	100-120/200-240V 50/60Hz	100-120/200-240V 50/60Hz
Stirring positions	1	1
Max. stirring quantity, [H ₂ O]	20L	10L
Max. magnetic bar[length]	80mm	80mm
Speed range	100-1500rpm resolution ± 1 rpm	0-1500rpm
Speed display	LCD	Scale
Temperature display	LCD	LED
Heating temperature range	Room Temp.-550°C, increment 1°C	Room temp.-550°C, increment 5°C
Temperature control accuracy	$\pm 1^\circ\text{C}$ (<100°C) $\pm 1\%$ (>100°C)	$\pm 10^\circ\text{C}$
Overheating protection	580°C	580°C
Temperature display accuracy	$\pm 0.1^\circ\text{C}$	$\pm 1^\circ\text{C}$
External temperature sensor	PT1000 (accuracy ± 0.2)	PT1000 (accuracy ± 0.2)
"Hot" warning	50°C	50°C
Data connector	RS232	-
Protection class	IP21	IP21
Dimension [WxDxH]	215x360x112mm	215x360x112mm
Weight	5.3kg	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH

These magnetic stirrers deliver powerful, smooth mixing and safe heating. These are useful in biological, physical, chemical, pharmaceutical laboratories, etc.

MS-H-Pro⁺ LCD Digital Hotplate Magnetic Stirrer

Features

- LCD Digital control of speed and temperature.
- Maintenance free brushless DC motor.
- RS232 interface enables data preservation and transmission and control through a PC.
- Speed setting range from 0-1500rpm.
- RS232 interface provides PC control and data transmission.
- Ceramic work plate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" warning safety indication on LED when the plate temperature exceeds above 50°C.
- PT1000 external temperature sensor for precise temperature control accuracy of $\pm 0.2^{\circ}\text{C}$.



MS-H-Pro^T LCD Digital Hotplate Magnetic Stirrer with Timer

Features

- LCD Digital control of speed, temperature and time.
- Brushless DC motor with 550W power.
- Speed setting range up to 1500rpm.
- RS232 interface provides PC control and data transmission.
- Ceramic work plate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" warning safety indication on LED when the plate temperature exceeds above 50°C.
- PT1000 external temperature sensor for precise temperature control accuracy of $\pm 0.2^{\circ}\text{C}$.
- Timer setting ranges from 1min to 99h59min.



MS-H-S

Magnetic Hotplate Stirrer

Features

- Maximum heating temperature 340°C.
- Maximum speed setting range up to 1500rpm.
- 530W high power brushless DC motor.
- Ceramic coated work plate provides good resistance and efficient heat transfer.
- Overheating protection with "hot" warning indication if temperature exceeds above 50°C.
- Various optional accessories makes it suitable for many applications.



Specifications	MS-H-PRO ⁺	MS-H-PRO ^T	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 ₂ 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[WxDxH]	160×280×85mm	160×280×85mm	160×280×85mm
Weight	2.8kg	2.8kg	2.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH

These magnetic stirrers deliver powerful and smooth mixing and safe heating. These are useful in biological, physical, chemical, pharmaceutical laboratories, etc. These are designed to be useful for biological laboratory applications where weak acids/bases only are used.

MS-H280-Pro Hotplate Magnetic Stirrer

Features

- LED digital display of temperature and speed.
- Temperature and speed control knobs are present below the display screen.
- Maximum temperature and speed ranges are 280°C and 1500rpm respectively.
- Ceramic coated stainless steel work plate with good chemical resistance.
- PT1000 external temperature sensor for precise temperature control accuracy of $\pm 0.5^{\circ}\text{C}$.
- "Hot" warning safety indication on LED if the plate temperature exceeds above 50°C .



Specifications

	MS-H280-Pro
Work plate Dimension	$\phi 135\text{mm}(5\text{ inch})$
Work plate material	stainless steel cover with ceramic
Motor type	Brushless DC motor
Motor rating input	5W
Motor rating output	3W
Power	515W
Heating output	500W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	1
Max. stirring quantity	3L
Max. magnetic bar[length]	50mm
Speed range	200-1500rpm
Speed display	LED
Temperature display	LED
Speed display resolution	$\pm 1\text{rpm}$
Heating temperature range	Room temp.-280, increment 1°C
Control accuracy of work plate	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1\%(>100^{\circ}\text{C})$
Overheating protection	320°C
Temperature display accuracy	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.5^{\circ}\text{C}$)
"Hot" warning	50°C
Protection class	IP21
Dimension[WxDxH]	150x260x80mm
Weight	1.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH



MS-H-S10

10-Position Magnetic Hotplate Stirrer

Features

- Max. of 10 stirring positions on one work plate with anti-slip silicone mat.
- Stirring speed setting range: 0-1100rpm.
- Single temperature setting at all positions from 0-120°C.
- 490W powerful brushless DC motor.

Specifications

	MS-H-S10
Work plate dimension[W x D]	180x450mm
Work plate material	Stainless steel with silicone
Motor type	Brushless DC motor
Motor rating input	12W
Motor rating output	4W
Power	490W
Heating output	470W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	10
Max. stirring quantity	0.4Lx10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	scale
Temperature display	scale
Heating temperature range	Room temp.-120°C
Overheating protection	140°C
Protection class	IP42
Dimension[WxDxH]	182x622x65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH



Cat. No.	Description	MS7-H550-Pro	MS7-H550-S	MS-H-Pro ⁺	MS-H-Pro ^T	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	18900016 PT1000-A, length of 230mm	✓	✓	✓	✓		✓
⑭	18900136 PT1000-B, temperature sensor with glass coated, length of 230mm	✓	✓	✓	✓		✓
⑮	18900017 Support clamp of PT1000	✓	✓	✓	✓		
⑯	18900148 Support clamp of PT1000						✓



①



②



③



④



⑤



⑥



⑦



⑧



⑨



⑩



⑪



⑫



⑬



⑭



⑮



⑯



Stirrer bars

Stirrer bars and stirrer bar remover (PTFE), use below 150°C

Models

MS7-H550-Pro
MS7-H550-S
MS-H-Pro⁺
MS-H-Pro[†]
MS-H-S
MS-S

MS-H280-Pro
MS-PA
MS-PB

MS-H-S10
MS-M-S10
FlatSpin
EcoStir

Cat. No.	Size of stirrer bars (LxØ)[mm]	Suitable for max. stirrer bar 80mm	Suitable for max. stirrer bar 50mm	Suitable for max. stirrer bar 40mm
18900006	10mmx6mm	✓	✓	✓
18900007	15mmx8mm	✓	✓	✓
18900008	20mmx8mm	✓	✓	✓
18900009	25mmx8mm	✓	✓	✓
12500005	30mmx6mm	✓	✓	✓
18900011	40mmx8mm	✓	✓	✓
12500004	51mmx8mm	✓	✓	
18900013	65mmx8mm	✓		
18900014	80mmx13mm	✓		
18900015	Stirrer bar remover, length of 200mm	✓	✓	✓