

ONiLAB

MIXING
DISTILLING

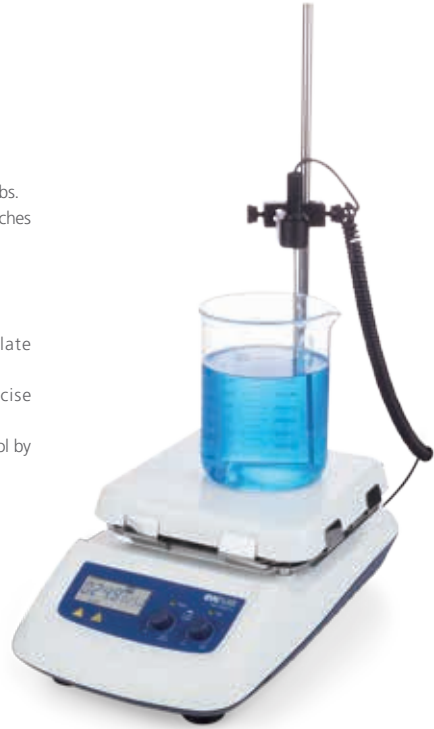


7" inch hotplate magnetic stirrers are suitable for various heating and mixing applications with excellent chemical resistance, compact shape and efficient heat transfer. They are widely used in many scientific disciplines such as biology, chemistry, physics and medicine, etc.

MS7-H550-Pro LCD Hotplate Magnetic Stirrer

Features

- Microprocessor PID controls.
- LCD display with speed and temperature control knobs.
- Ceramic workplate with a high power of 1050W reaches a maximum temperature of 550°C.
- Max. heating temperature of 550°C.
- Ceramic workplate of 184x184mm.
- Speed is adjustable from 100 to 1500rpm.
- "Hot" safety indication on LCD when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control.
- RS232 interface enables data preservation and control by 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 $\pm 0.2^{\circ}\text{C}$.
- "Hot" Safety indication on LED when the plate temperature is above 50°C.



Specifications	MS7-H550-Pro	MS7-H550-S
Workplate Dimension [W x D]	184x184mm (7 inch)	184x184mm (7 inch)
Workplate 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 volume, [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 resolution	$\pm 0.1^\circ\text{C}$	$\pm 1^\circ\text{C}$
External temperature sensor	PT1000 (accuracy ± 0.2)	PT1000 (accuracy ± 0.2)
"Hot" safety indication	50°C	50°C
Data interface	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. They 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, transmission and control by a PC.
- Speed setting range from 0-1500rpm.
- RS232 interface provides PC control and data transmission.
- Ceramic workplate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" safety indication on LED when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control at 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 workplate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" safety indication on LED when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control at $\pm 0.2^{\circ}\text{C}$.
- 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 workplate provides good resistance and efficient heat transfer.
- Overheating protection with “hot” safety indication if temperature is above 50°C.
- Various optional accessories makes it suitable for many applications.

Specifications	MS-H-PRO ⁺	MS-H-PRO [†]	MS-H-S
Workplate dimension	φ135mm(5 inch)	φ135mm(5 inch)	φ135mm(5 inch)
Workplate 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 volume[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	Dial
Temperature display	LCD	LCD	Dial
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)	-
Overheating protection	360°C	360°C	350°C
Temperature display resolution	±0.1°C	±0.1°C	±0.5°C
External temperature sensor	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)	-
Hot safety indication	50°C	50°C	-
Timer function	-	1min to 99h 59min	-
Data interface	RS232	RS232	-
Protection class	IP42	IP42	IP42
Dimension[WxDxH]	160x280x85mm	160x280x85mm	160x280x85mm
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, smooth mixing and safe heating. They are useful in biological, physical, chemical, pharmaceutical laboratories, etc. They are designed to work with weak acid or alkaline solutions in laboratory.

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 workplate with good chemical resistance.
- PT1000 external temperature sensor for precise temperature control accuracy at $\pm 0.5^{\circ}\text{C}$.
- “Hot” safety indication on LED if the plate temperature is above 50°C.



Specifications

MS-H280-Pro

Workplate dimension	$\phi 135\text{mm}(5\text{ inch})$
Workplate material	stainless steel coated 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 volume	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
Temperature control accuracy	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1\%(>100^{\circ}\text{C})$
Overheating protection	320°C
Temperature display resolution	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.5^{\circ}\text{C}$)
Hot safety indication	50°C
Protection class	IP21
Dimension[WxDxH]	150x260x100mm
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 workplate with an 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
Workplate dimension[W x D]	180x450mm
Workplate 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 volume	0.4Lx10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Dial
Temperature display	Dial
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 fixing 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 coated with glass, length of 230mm	√	√	√	√		√
⑮	18900017 Support clamp of PT1000	√	√	√	√		
⑯	18900148 Support clamp of PT1000						√



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]	Max. stirrer length: 80mm	Max. stirrer length: 50mm	Max. stirrer length: 40mm
18900006	10mmx6mm	✓	✓	✓
18900007	15mmx8mm	✓	✓	✓
18900008	20mmx8mm	✓	✓	✓
18900009	25mmx8mm	✓	✓	✓
12500005	30mmx6mm	✓	✓	✓
18900011	40mmx8mm	✓	✓	✓
12500004	50mmx8mm	✓	✓	
18900013	65mmx8mm	✓		
18900014	80mmx13mm	✓		
18900015	Stirrer bar remover, length of 200mm	✓	✓	✓

HP550-S LED Hotplate

Features

- Built-in PID temperature control.
- LED digital display of set and actual temperature.
- Glass ceramic workplate with a max. temperature setting of 550°C.
- Overheating protection at 580°C.
- PT1000 external temperature sensor for precise temperature control accuracy at $\pm 0.5^{\circ}\text{C}$.
- "Hot" safety indication on LED if the plate temperature is above 50°C.



Specifications

Specifications	HP550-S
Workplate dimension[WxD]	184x184mm(7 inch)
Workplate material	Glass ceramic
Power	1010W
Voltage	100-120/200-240V,50/60Hz
Heating Power	1000W
Heating position	1
Heating temperature range	Room temp.-550°C,increment 5°C
Temperature control accuracy	$\pm 1^{\circ}\text{C}$
Overheating protection	580°C
Temperature display	LED
Temperature display resolution	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000($\pm 0.5^{\circ}\text{C}$)
"Hot" safety indication	50°C
Protection class	IP21
Dimension[WxDxH]	215x360x112mm
Weight	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

MS7-S

7" Square Magnetic Stirrer

Features

- Speed adjustable from 0-1500rpm with a simple dial knob.
- Max. stirring capacity of 10L[H₂O].
- Ceramic workplate highly resistance to chemical erosion.



Specifications

	MS7-S	MS-S
Workplate dimension[WxD]	184x184mm(7inch)	φ135mm(5 inch)
Workplate material	Glass ceramic	Stainless steel coated with ceramic
Motor type	Shaded pole motor	Brushless DC motor
Motor rating input	15W	18W
Motor rating output	1.5W	10W
Power	30W	30W
Voltage	100-120/200-240V,50/60Hz	100-240V,50/60Hz
Stirring positions	1	1
Max. stirring volume[H ₂ O]	10L	20L
Max. magnetic bar[length]	80mm	80mm
Speed range	0-1500rpm	0-1500rpm
Speed display	Dial	Dial
Protection class	IP21	IP42
Dimension[WxDxH]	215x360x112mm	160x280x85mm
Weight	3.8kg	2.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH



MS-S

Magnetic Stirrer

Features

- Speed adjustable from 0-1500rpm with a simple dial knob.
- Max. stirring capacity of 20L[H₂O].
- Stainless steel ceramic workplate which can provide good chemical resistance.



MS-PA LED Digital Magnetic Stirrer

Features

- Broad speed range from 100-1500rpm.
- Suitable for high speed mixing applications.
- Max. stirring capacity is 3L [H2O].
- LED digital speed control.
- Good chemical resistant workplate.



MS-PB Magnetic Stirrer

Features

- Broad speed range from 100-1500rpm.
- Suitable for high speed mixing applications.
- Max. stirring capacity is 3L [H2O].
- Good chemical resistant workplate.



Specifications

	MS-PA	MS-PB
Workplate dimension[WxD]	φ135(5 inch)mm	φ135(5 inch)mm
Workplate material	Nylon+GF	Nylon+GF
Motor type	Brushless DC motor	Brushless DC motor
Motor rating input	5W	5W
Motor rating output	3W	3W
Power	15W	10W
Voltage	100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
Stirring positions	1	1
Max. stirring volume[H ₂ O]	3L	3L
Max. magnetic bar[length]	50mm	50mm
Speed range	200-1500rpm	0-1500rpm
Speed display	LED	Dial
Protection class	IP42	IP42
Dimension[WxDxH]	150x260x80mm	150x260x80 mm
Weight	1.8kg	1.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH

MS-M-S10

10-Position Magnetic Stirrer

Features

- Max. of 10 stirring positions on one workplate with an anti-slip silicone mat.
- Stirring speed setting range: 0-1100rpm.
- Strong magnetism keeps stirrer bars in control.



Specifications

MS-M-S10

Workplate Dimension[WxD]	180x450mm
Workplate material	Stainless steel with silicone coating
Motor type	Brushless DC motor
Motor rating input	12W
Motor rating output	4W
Power	20W
Voltage	100-120/200-240V,50/60Hz
Stirring positions	10
Max. stirring volume[H ₂ O]	0.4L x 10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Dial
Protection class	IP21
Dimension[WxDxH]	622x205x65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH



FlatSpin

Ultra-flat Compact Magnetic Stirrer

FlatSpin is a motor less magnetic stirrer available in portable shape and size with high speed range up to 1500rpm. FlatSpin with PET top workplate is suitable for small volume stirring applications.

Features

- Light in weight, portable and easy to operate.
- Electronic speed regulation: from 0-1100rpm.
- High resistance to chemicals.
- Maintenance-free ultra-flat magnetic stirrer.
- Auto reverse rotation ensures enhanced mixing.





EcoStir

Economical Magnetic Stirrer

EcoStir is designed for small volume of liquids. These portable economical magnetic stirrers are useful in day-to-day regular stirring applications in any biological and chemical laboratories.

Features

- Powerful BLDC motor for fast and efficient mixing.
- Maintenance-free ultra model magnetic stirrer.
- Speed is adjustable from 300-2000rpm.
- Compact, noise and vibration free design.
- PET top provides good chemical resistance.

Specifications	FlatSpin	EcoStir
Workplate dimension	φ90mm	φ120mm
Workplate material	PET	PET
Motor type	Motorless	Brushless DC motor
Motor rating output	3W	1.2W
Power	5W	7.2W
Voltage	100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
Stirring positions	1	1
Max. stirring volume[H ₂ O]	0.8L	1.5L
Max. magnetic bar[length]	40mm	40mm
Speed range	15-1500rpm	300-2000rpm
Speed setting	Touch key	Dial
Protection class	IP65	IP21
Dimension [W x D x H]	175x120x15mm	150x145x50mm
Weight	0.3kg	0.3kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH