

Magnetic Hotplate Stirrers

DLAB 550°C series magnetic stirrer is developed for demanding applications. It is widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, to name a few, etc. Combining with glass ceramic work plate, brushless DC motor, external temperature sensor and the work plate temperature optimized up to 550°C.

MS7-H550-Pro LCD Digital Magnetic Hotplate Stirrer

Features

- LCD display for precise monitoring of speed and temperature
- Built-in PID controller ensures the safe heating of the medium with overheating protection
- Max. Heating plate temperature 550°C
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- External temperature control is possible by connecting the temperature sensor(PT 1000) with an accuracy at $\pm 0.2^{\circ}\text{C}$
- Digital speed controlling, Max. speed at 1500rpm
- Outstanding brushless DC motor performance enables more stirring power
- Two rotating knobs enable the easy and direct change of speed and temperature
- The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off
- Remote function provides PC control and data transmission



MS7-H550-S LED Magnetic Hotplate Stirrer

Features

- LED display for precise monitoring of temperature
- A wide speed range of 0 to 1500rpm
- Max. Heating plate temperature 550°C
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at $\pm 0.2^{\circ}\text{C}$
- The "HOT" warning will flash when the work plate temperature is above 50°C even the hotplate is turned off



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

MS7-H550-Pro		MS7-H550-S	
Work plate Dimension (W x D)	184x184mm (7 inch)	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Shaded pole motor	Shaded pole motor
Motor rating input	18W	15W	15W
Motor rating output	15W	1.5W	1.5W
Power	1050W	1030W	1030W
Heating output	1000W	1000W	1000W
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, (l, O)	20L	10L	10L
Max. magnetic bar (length)	80mm	80mm	80mm
Speed range	100-1500rpm resolution ±1rpm	0-1500rpm	0-1500rpm
Speed display	LCD	Scale	Scale
Temperature display	LCD	LED	LED
Heating temperature range	Room temp.-550°C, increment 1°C	Room temp.-550°C, increment 5°C	Room temp.-550°C, increment 5°C
Temperature control accuracy	±1°C (<100°C) ±1% (>100°C)	±10°C	±10°C
Overheating protection	580°C	580°C	580°C
Temperature display accuracy	±0.1°C	±1°C	±1°C
External temperature sensor	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)
"Hot" warning	50°C	50°C	50°C
Data connector	RS232	-	-
Protection class	IP21	IP21	IP21
Dimension (W x D x H)	215x360x112mm	215x360x112mm	215x360x112mm
Weight	5.3kg	4.5kg	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%	5-40°C, 80%	5-40°C, 80%

Magnetic Hotplate Stirrers

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

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

MS-H-Pro^{*} 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 H₂O 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^T only)
- The high-resolution LCD display shows actual temperatures and speed (MS-H-Pro^{*} include the time)
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at ±0.2°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



MS-H-S10
10-Position Magnetic Hotplate Stirrer

Features:

- Maintenance-free brushless DC motor
- Max speed 1100rpm
- Max temperature 120°C
- Stainless steel work plate, cover with silicone cushion, provides the excellent performance of heating uniformly and skid resistance



Skid resistance



Multiple position



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	400W
Heating output	470W
Voltage	100-120/200-240V 50/60Hz
Stirring positions	10
Max. stirring quantity	0.4L x 10
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 [W x D x H]	183x420x455mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C 80%

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Cat. No.	Descriptions	MS7-H550-Pro	MS7-H550-S	MS-H-Pro	MS-H-Pro	MS-H-S	MS-H280-Pro
1	Blue carrying plate, use with color quarter pie						
2	Blue fixed ring, use with color quarter pie						
3	Red quarter pie, 11 holes, 4 ml, reaction vessel, Ø15.2mm, 20mm depth						
4	Purple quarter pie, 4 holes, 20 mL, reaction vessel, Ø28mm, 24mm depth						
5	Blue 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, 20mm depth						
8	Golden quarter pie, 4 holes, 16ml, reaction vessel, Ø21.8mm, 31.7mm depth						
9	Reaction block for 50ml, round bottom flask (one flask capacity)						
10	Reaction block for 100ml, round bottom flask (one flask capacity)						
11	Reaction block for 250ml, round bottom flask (one flask capacity)						
12	Reaction block for 500ml, round bottom flask (one flask capacity)						
13	F101 protective cover, temperature resistance of 125°C						
14	PT1000-A, length of 230mm						
15	PT1000-B, temperature sensor with glass coated, length of 230mm						
16	Support clamp of PT1000						
17	Support clamp of PT1000						



Stirrer bars

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

Models

MS-H550-Pro MS-H550-S MS-H-Pro ⁺ MS-H-Pro ⁺ MS-H-S MS-S	MS-H280-Pro MS-PA MS-PB	MS-H-510 MS-M-510 FlatSpin EcoStir
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Cat. No.	Size of stirrer bars (L x Ø) [mm]	Suitable for Max. stirrer bar Ø9mm	Suitable for Max. stirrer bar 50mm	Suitable for Max. stirrer bar 40mm
18900006	10mm x 6mm	■	■	■
18900007	15mm x 8mm	■	■	■
18900008	20mm x 8mm	■	■	■
18900009	25mm x 8mm	■	■	■
12500005	30mm x 6mm	■	■	■
18900011	40mm x 8mm	■	■	■
12500004	51mm x 8mm	■	■	■
18900013	65mm x 8mm	■	■	■
18900014	80mm x 13mm	■	■	■
18900015	Stirrer bar remover, length of 200mm	■	■	■

HP550-S
LED Hotplate

Features:

- LED display shows temperature
- Max. temperature to 550°C.
- Separate safety circuits with fixed safety temperature of 580°C.
- External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at ±0.5°C
- Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- The "HOT" warning will flash when the work plate temperature is above 50°C even the hotplate is turned off



Wide range of accessory



Chemical resistance



Overheating protection



"HOT" warning to prevent burns



Specifications

	HP550-S
Work plate Dimension [W x D]	104x104mm (7 inch)
Work plate material	Glass ceramic
Power	1010W
Voltage/Frequency	100-120/200-240V/50/60Hz
Heating Power	1020W
heating position	1
Heating temperature range	Room temp-550°C, increment 5°C
Control accuracy of work plate	±10°C
Safety temperature	580°C
Temperature display	led
Temperature display accuracy	±1°C
External temperature sensor	PT1000±0.5°C
Heating warning	50°C
Protection class	IP2X
Dimension [W x D x H]	215x360x112mm
Weight	4.5kg
Permissible ambient temperature and humidity	5-40°C 80%