

# BlueSpin Magnetic Hotplate Stirrer

## BlueSpin LCD Digital 7 Inch Square Magnetic Hotplate Stirrer MS7-H550-Pro

7 inch square hotplate magnetic stirrers are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals and other fields.

PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy, heating temperature up to 550°C.

SCILOGEX 7 inch square magnetic stirrers have glass ceramic plate extremely resistant to corrosion and easy to clean. The heating models are suitable for external temperature sensor PT1000, display and control actual medium temperature.

The heating temperature up to 550°C

Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode. Record and display the last running parameters when switch on

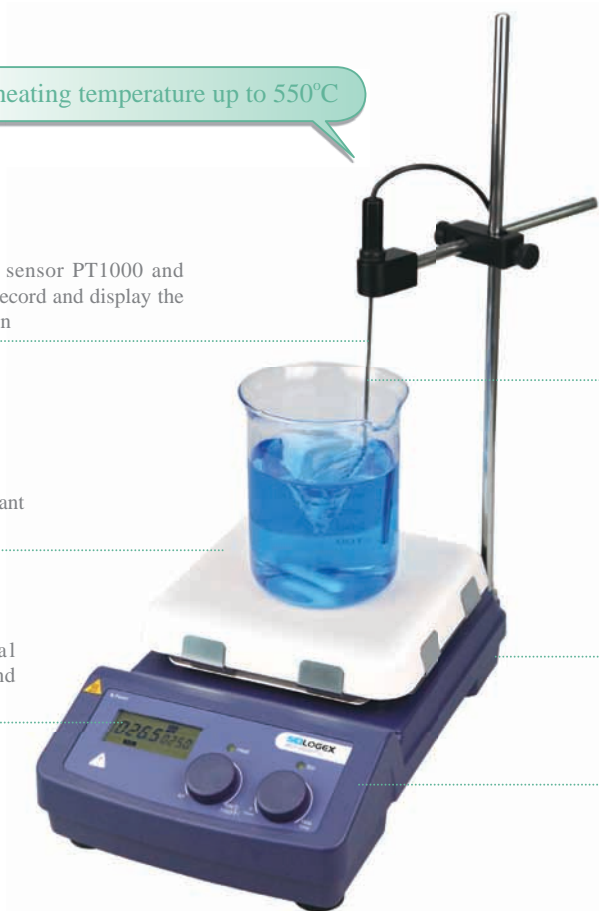
External temperature sensor PT1000 real-time controls medium temperature, control accuracy of  $\pm 0.2^{\circ}\text{C}$

Glass ceramic plate is extremely resistant to corrosion and easily clean

Brushless DC motor maintenance free and lower noise

LCD displays target and actual temperatures, as well as set speed and actual speed can be displayed

Enclosed aluminum alloy casing has excellent resistance to chemicals and quick heating transfer



MS7-H550-Pro  
BlueSpin LCD Digital 7" Square Hotplate Magnetic Stirrer  
with external temperature sensor PT1000



MS7-H550-Pro  
BlueSpin LCD Digital Magnetic Hotplate Stirrer  
(Glass ceramic plate)



MS7-H550-Pro  
with color pies

## Features of MS7-H550-Pro BlueSpin LCD Digital Magnetic Hotplate Stirrer

- External temperature sensor PT1000 is available for hotplate model, real-time control medium temperature.
- Simple running interface easy to use and program. Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode. Record and display the last running parameters when switch on.
- LCD display target and actual temperature, as well as set speed and actual speed can be displayed.
- PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy Brushless DC motor maintenance free and explosion-proofed, accurately control speed
- Separate safety circuits with fixed safety temperature of 580°C, automatically stops heating once exceed secure temperature
- HOT warning indicates residual hotplate temperature. LCD display would show "Hot" when hotplate temperature over 50°C warning point, even if switched off.
- Free software StirPC, computer can control and document all operation values via RS232 interface



MS7-H550-S  
BlueSpin LED Digital Magnetic Hotplate Stirrer  
(Glass ceramic plate)

## Features of MS7-H550-S BlueSpin LED Digital Magnetic Hotplate Stirrer

- LED display target and actual temperatures
- External temperature sensor PT1000 is available, display and control actual medium temperature, control accuracy of  $\pm 0.5^{\circ}\text{C}$
- Separated safety circuits, fixed safety temperature of  $580^{\circ}\text{C}$ , automatically stops heating once exceed secure temperature
- HOT warning indicates residual hotplate temperature. LCD display would show „Hot%“ when hotplate temperature over  $50^{\circ}\text{C}$  warning point, even if switched off



MS7-H550-S  
with external temperature sensor PT1000

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

340°C magnetic hotplate stirrers are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals and other fields.

PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy, heating temperature up to 340°C.

Stainless steel hotplate extremely resists of impact and corrosion, also with good uniformity of heating. The hotplate models are suitable for external temperature sensor PT1000, display and control actual medium temperature.



The heating temperature up to 340°C

Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode. Record and display the last running parameters when switch on

External temperature sensor PT1000 real-time controls medium temperature, control accuracy of  $\pm 0.2^{\circ}\text{C}$

RS232 interface and free StirPC software

DC Brushless motor maintenance free and quiet running

LCD display target and actual temperatures, as well as set speed and actual speed can be displayed

Fully closed aluminum alloy casing has excellent resistance to chemicals and quick heating transfer

MS-H-Pro<sup>+</sup>  
BlueSpin LCD Digital Hotplate Magnetic Stirrer  
with external temperature sensor PT1000

## Features of MS-H-Pro<sup>+</sup> BlueSpin LCD Digital Magnetic Hotplate Stirrer

- External temperature sensor PT1000 is available for hotplate model, real-time controls medium temperature.
- Simple running interface easy to use and program. Automatically identify temperature sensor PT1000 and transfer to PT1000 operation mode. Record and display the last running parameter when switch on.
- LCD display target and actual temperatures, as well as set and actual speed can be displayed.
- PID temperature technology precise controls heating process, rapidly reaches target temperature and enhances control accuracy.
- Brushless DC motor maintenance free and explosion-proofed, accurately control speed
- Fully closed assembly guarantees safety and long service life, effectively prevents the liquid into unit to protect the components from damage
- Separate safety circuits, fixed safety temperature of 360°C, Automatically stops heating once exceed secure temperature
- HOT warning indicates residual hotplate temperature. LCD display would show „Hot% when hotplate temperature over 50°C warning point, even if switched off
- Free software StirPC, computer can control and document all operation values via RS232 interface



MS-H-Pro<sup>+</sup>  
with ceramic coated hotplate

### Tips

#### Performance of work plates

Work plates	Max heating temp (°C)	Corrosion resistance	Uniformity of heating	Impact resistance	Color	Cleaning
Glass ceramic	550	Good	Limited	Limited	White	Excellent
Ceramic	550	Good	Limited	Limited	White	Good
Ceramic coated stainless steel	370	Excellent	Good	Good	White	Good
Stainless steel	370	Good	Good	Good	Silver	Good



## Features of MS-H-S BlueSpin Classic Magnetic Hotplate Stirrer

- Stainless steel and ceramic coated hotplates are optional
- Separated safety circuit, automatically stop heating when temperature over 350 °C
- Motor with electronic speed control, constant speed even during changes in load
- Variable speed of motor
- High magnetic adhesion, prevent the stirrer bar escape
- Enclosed assembly with protection class IP42 and DC brushless motor guarantees long service



MS-H-S  
with ceramic coated hotplate

## Features of MS-H-S10 BlueSpin 10-Channel Classic Magnetic Hotplate Stirrer

- Heating temperature up to 120 °C
- High-performance multi-position magnetic stirrer with uniform temperature distribution
- Electronic speed control motor provides constant speed
- DC brushless motor maintenance free and quiet running
- Stainless steel plate with silicone fms, anti-slip and anti-corrosion



MS-H-S10  
BlueSpin 10-Channel Classic Magnetic Hotplate Stirrer  
(Stainless steel plate with silicone film)



BlueSpin MS-H280-Pro  
LED Digital Magnetic Hotplate Stirrer  
(Stainless steel with corrosion-resistant coated or ceramic coated plate)

## Features of MS-H280-Pro BlueSpin LED Digital Magnetic Hotplate Stirrer







Digital control system is ideal for applications for physical - chemical analysis and biotech labs.

- Heating temperature up to 280 °C
- Stainless steel with corrosion-resistant coated or ceramic coated hotplate is optional
- External temperature sensor PT1000 is available and control accuracy of  $\pm 0.5^{\circ}\text{C}$ , real-time control medium temperature.
- LED display temperature and speed.
- 50°C HOT warning indicates residual hotplate temperature.
- ABS casing with fire retardant material, resistance of weak acid and alkali














MS-H280-Pro  
BlueSpin with external temperature  
sensor PT1000

## Specifications of BlueSpin Hotplate Magnetic Stirrer

					
<b>MS7-H550-Pro</b>	<b>MS7-H550-S</b>	<b>MS-H-Pro+</b>	<b>MS-H-S</b>	<b>MS-H280-Pro</b>	<b>MS-H-S10</b>
184×184 (7 inch)	184×184 (7 inch)	φ 135 (5 inch)	φ 135 (5 inch)	φ 135 (5 inch)	180 × 450
Glass ceramic	Glass ceramic	Stainless steel with ceramic coated hotplate	Stainless steel with ceramic coated hotplate	Stainless steel with ceramic coated hotplate	Stainless steel with silicone Film
DC brushless motor	Shaded pole motor	DC brushless motor	DC brushless motor	DC motor	DC Brushless motor
18	15	18	18	5	12
10	1.5	10	10	3	4
1050	1030	550	550	515	490
100-120/200-240	100-120/200-240	100-120/200-240	100-120/200-240	100-120/200-240	100-120/200-240
50/60	50/60	50/60	50/60	50/60	50/60
1	1	1	1	1	10
20	10	20	20	3	0.4 (each stirring position)
80	80	80	80	50	40
100-1500	0-1500	100-1500	100-1500	100-1500	0-1100
LCD	Scale	LCD	Scale	LED	Scale
± 1	-	± 1	-	-	-
1000	1000	500	500	500	470
RT-550, increment 1	RT-550, increment 5	RT-340, increment 1	RT-340, increment 1	RT-280, increment 1	RT-120
± 1(<100 °C)	± 10	± 1(<100 °C)	± 1(<100 °C)	± 1(<100 °C)	-
± 1%(>100 °C)		± 1%(>100 °C)	± 1%(>100 °C)	± 1%(>100 °C)	-
580	580	360	360	320	140
LCD	LED	LCD	Scale	LED	Scale
± 0.1	± 1	± 0.1	-	± 1	-
PT1000	PT1000	PT1000	N/A	PT1000	N/A
± 0.2	± 0.5	± 0.2	-	± 0.5	-
Control accuracy with external temperature sensor PT1000 [± °C]					
50 °C	50 °C	50 °C	N/A	50 °C	N/A
Yes	N/A	Yes	N/A	N/A	N/A
IP21	IP21	IP42	IP42	IP21	IP42
EN60529					
215x360x112	215x360x112	160 × 280 × 85	160 × 280 × 85	150 × 260 × 80	182 × 552 × 65
5.3	4.5	2.8	2.8	1.8	3.2
5-40	5-40	5-40	5-40	5-40	5-40
80	80	80%	80%	80%	80%
Permissible relative humidity					








# Accessories

											
<b>Cat. No.</b>	<b>18900001</b>	<b>18900002</b>	<b>18900003</b>	<b>18900004</b>	<b>18900005</b>	<b>189000048</b>	<b>189000049</b>	<b>189000080</b>	<b>189000081</b>	<b>189000082</b>	<b>189000083</b>
<b>Descriptions</b>	Blue carrying plate, use with color quarter pies	Red quarter pie, 11 holes, 4 ml reaction vessel, ±15.2mm, 20mm depth	Purple quarter pie, 4 holes, 20 ml reaction vessel, ±28mm, 24mm depth	Blue quarter pie, 4 holes, 30 ml reaction vessel, ±28mm, 30mm depth	Black quarter pie, 4 holes, 40 ml reaction vessel, ±28mm, 43mm depth	Green quarter pie, 6 holes, 8ml reaction vessel, ±17.8mm, 26mm depth	Golden quarter pie, 4 holes, 16ml reaction vessel, ±21.6mm, 31.7mm depth	Reaction block for 50ml round bottom flask (one flask capacity)	Reaction block for 100ml round bottom flask (one flask capacity)	Reaction block for 250ml round bottom flask (one flask capacity)	Reaction block for 500ml round bottom flask (one flask capacity)



MS-H-Pro<sup>+</sup> with PT1000 and 1/4 color pies

<b>Models</b>											
MS7-H550-Pro											
MS7-H550-S											
MS-H-Pro <sup>+</sup>											
MS-H-S											
MS-H280-Pro											

				
<b>Cat. No.</b>	<b>18900019</b>	<b>18900016</b>	<b>189000136</b>	<b>189000148</b>
<b>Descriptions</b>	F101 protective cover, for hotplate models, temperature resistance of 135°C	PT1000-A, temperature sensor for digital hotplate models, length of 230mm	PT1000-B, temperature sensor with glass coated, length of 230mm, used for digital hotplate models	Support clamp of PT1000, use with MS-H280-PRO
<b>Models</b>				
MS7-H550-Pro				
MS7-H550-S				
MS-H-Pro <sup>+</sup>				
MS-H-S				
MS-H280-Pro				



MS-H-Pro<sup>+</sup> with PT1000 and reaction block

It is available of stirrer bars



Stirrer bars and stirrer bar remove (PTFE) , use below 150°C				
Models				
		MS7-Pro MS-H-Pro+ MS-H-S MS-S	MS-H280-Pro MS-PA MS-PB	MS-H-S10 MS-M-S10
Cat. No.	Size of stirrer bars [mm]	Suitable for Max. stirrer bar 80mm	Suitable for Max. stirrer bar 50mm	Suitable for Max. stirrer bar 40mm
18900006	10mm × 6mm	●	●	●
18900007	15mm × 8mm	●	●	●
18900008	20mm × 8mm	●	●	●
18900009	25mm × 8mm	●	●	●
12500005	30mm × 6m	●	●	●
18900011	40mm × 8mm	●	●	●
12500004	51mm × 8mm	●	●	
18900013	65mm × 8mm	●		
18900014	80mm × 13mm	●		
18900015	Stirrer bar remover, length of 200mm	●	●	●

### Ordering information

P/N	Descriptions	Power supply	Work plate	Cat No.
MS7-H550-Pro	BlueSpin LCD Digital 7" Square Hotplate Magnetic Stirrer	USA plug, 100-240V/50Hz/60Hz	Glass ceramics	813223009999
		Cn plug, 100-240V/50Hz/60Hz		813223019999
		Euro plug, 100-240V/50Hz/60Hz		813223029999
		UK plug, 100-240V/50Hz/60Hz		813223039999
MS7-H550-S	BlueSpin LED Digital 7" Square Hotplate Magnetic Stirrer	USA plug, 100-240V/50Hz/60Hz	Glass ceramics	813221009999
		Cn plug, 100-240V/50Hz		813221019999
		Euro plug, 100-240V/50Hz/60Hz		813221029999
		UK plug, 100-240V/50Hz/60Hz		813221039999
MS-H-Pro +	BlueSpin LCD Digital Hotplate Magnetic Stirrer	USA plug, 100-240V/50Hz/60Hz	Ceramic coated	861242019999
		Cn plug, 100-240V/50Hz/60Hz	Stainless steel	861142019999
			Ceramic coated	861242129999
		Euro plug, 100-240V/50Hz/60Hz	Stainless steel	861142129999
			Ceramic coated	861242229999
		UK plug, 100-240V/50Hz/60Hz	Stainless steel	861142229999
MS-H280-Pro	BlueSpin LED Digital Hotplate Magnetic Stirrer,	USA plug, 100-240V/50Hz/60Hz	Ceramic coated	861431019999
		Cn plug, 100-240V/50Hz/60Hz		861431129999
		Euro plug, 100-240V/50Hz/60Hz		861431229999
		UK plug, 100-240V/50Hz/60Hz		861431329999
	BlueSpin LED Digital Hotplate Magnetic Stirrer	USA plug, 100-240V/50Hz/60Hz	Stainless steel with corrosion-resistant	861131019999
		Cn plug, 100-240V/50Hz/60Hz		861131129999
		Euro plug, 100-240V/50Hz/60Hz		861131229999
		UK plug, 100-240V/50Hz/60Hz		861131329999
MS-H-S10	BlueSpin 10-Channel Classic Hotplate Magnetic Stirrers	USA plug, 100-240V/50Hz/60Hz	Stainless steel plate with silicone film	811321029999
		Cn plug, 100-240V/50Hz/60Hz		811321019999
		Euro plug, 100-240V/50Hz/60Hz		811321039999
		UK plug, 100-240V/50Hz/60Hz		811321049999