

## 7 x 7 Digital & Analog Magnetic Hotplate-Stirrers



7 inch square magnetic hotplate/stirrers are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals and other fields. SCIOLOGEX 7 inch hotplate/stirrers utilize a ceramic-glass plate that is extremely resistant to corrosion and easy to clean. Maximum temperature is 550°C. The hotplate models are suitable for use with a PT1000 temperature sensor, to display and control medium temperature.

## LCD Digital 7 Inch Square (hotplate) Magnetic Stirrer MS7-H550-Pro / MS7-Pro



MS7-H550-Pro  
LCD digital hotplate-stirrer



MS7-Pro LCD digital stirrer



MS7-H550-Pro with PT1000 sensor  
& support rod/clamp

### Features of the LCD Digital Hotplates/Stirrers

- ❑ **LCD real-time display**  
Set temperature/speed and actual temperature/speed can be displayed.  
Real-time monitoring of temperature and speed via LCD display.
- ❑ **PT1000 sensor (optional) accessory**  
LCD display hotplate model can utilize a PT1000 temperature sensor, to display and control medium temperature.
- ❑ **Accurate temperature/speed control**  
Microprocessor technology effectively guarantees the temperature and speed precision.  
Control accuracy is  $\pm 1^\circ\text{C}$  with the PT1000 temperature sensor.
- ❑ **Heat display warning**  
The hotplate has a residual heat warning function. After heating, LED display shows "Hot" when the plate temperature is over  $50^\circ\text{C}$ , even if switched off.
- ❑ **Safety cut-out**  
Hotplate turns off with over-heat protection facility.
- ❑ **PC control via RS232**  
PC can control and document all measuring values via RS232 interface.



MS7-S  
Analog magnetic stirrer

## LED Digital 7 Inch Square Hotplate Magnetic Stirrer MS7-H550-S

### Features of the LED Display Hotplate-Stirrer

- ❑ **LED real-time display**  
Set temperature and actual temperature can be displayed, real-time monitoring of temperature via the LED display.  
Note: Speed control is analog.
- ❑ **PT1000 sensor (optional) accessory**  
LED display hotplate model can utilize a PT1000 temperature sensor, to display and control medium temperature.
- ❑ **Accurate temperature control**  
Microprocessor technology effectively guarantees the temperature precision.  
Control accuracy is  $\pm 1^\circ\text{C}$  with the PT1000 temperature sensor.
- ❑ **Heat display warning**  
The hotplate has a residual heat warning function. After heating, LED display shows "Hot" when the plate temperature is over  $50^\circ\text{C}$ , even if switched off.
- ❑ **Safety cut-out**  
Hotplate turns off with over-heat protection facility.



MS7-H550-S  
LED digital hotplate-stirrer



MS7-H550-S with PT1000 sensor  
& support rod/clamp

## Specifications

	MS7-H550-Pro	MS7-Pro	MS7-H550-S	MS7-S
Dimension of heating plate [mm]	184 x 184	184 x 184	184x184	184 x 184
Plate material	Ceramic-glass	Ceramic-glass	Ceramic-glass	Ceramic-glass
Motor type	Exterior rotor brushless motor	Exterior rotor brushless motor	Shaded pole motor	Shaded pole motor
Motor rating input[W]	18	18	15	15
Motor rating output [W]	10	10	1.5	1.5
Power [W]	1050	50	1030	30
Voltage [VAC]	100-120/200-240	100-120/200-240	100-120/200-240	100-120/200-240
Frequency [Hz]	50/60	50/60	50/60	50/60
Max. stirring quantity(H2O) [L]	20	20	10	10
Max. size stir bar(L x Ø) [mm]	80 x 10	80 x 10	80 x 10	80 x 10
Speed range [rpm]	100-1500	100-1500	0-1500	0-1500
Speed display	LCD	LCD	Scale	Scale
Speed display resolution [rpm]	1	1	-	-
Heating area [mm]	176 x 176	-	176 x 176	-
Heat output [W]	1000	-	1000	-
Adjustable safety circuit (heating plate) [°C]	Room temperature to 550	-	Room temperature to 550	-
Control accuracy of heating temperature [°C]	±1(<100°C) ±1% (>100°C)	-	-	-
Safety cut-out temperature [°C]	580	-	580	-
Temperature display	LCD	-	LED	-
Temperature display accuracy [°C]	±0.1	-	±1	-
Temperature sensor of extra position	PT1000	-	PT1000	-
Control accuracy of heating temperature with temperature sensor PT1000 [°C]	±0.2	-	±1	-
Heating warning	+50°C	-	50°C alarm line	-
Remote control (RS232 interface)	Yes	Yes	-	-
Protection class acc. to DIN EN60529	IP21	IP21	IP21	IP21
Dimension(W x D x H) [mm]	215 x 360 x 112	215 x 360 x 112	215 x 360 x 112	215 x 360 x 112
Weight [kg]	4.3	3.6	4.5	3.8
Permitted ambient temperature [°C]	5-40	5-40	5-40	5-40
Permitted relative humidity	80%	80%	80%	80%

## Ordering information

Cat No.	Description
81322300	MS7-H550-Pro LCD Digital 7" Square Hotplate Magnetic Stirrer, ceramic-glass hotplate, 110V/50Hz/60Hz
81321300	MS7-Pro LCD Digital 7" Square Magnetic Stirrer, ceramic-glass hotplate, 110V/50Hz/60Hz
81322100	MS7-H550-S LED Digital 7" Square Hotplate Magnetic Stirrer, ceramic-glass hotplate, 110V/50Hz/60Hz
81321100	MS7-S Analog 7" Square Magnetic Stirrer, ceramic-glass plate, 110V/50Hz/60Hz

## Ordering information - Accessories

Cat No.	Description
18900016	PT-1000 Temperature Sensor
18900017	PT-1000 Sensor Support and Clamp
D-101100	Magnetic stirring bar, round no pivot ring 10 x 3mm
D-101150	Magnetic stirring bar, round no pivot ring 13 x 8mm
D-101200	Magnetic stirring bar, round no pivot ring 19 x 8mm
D-101250	Magnetic stirring bar, round with pivot ring 25 x 7.9mm
D-101300	Magnetic stirring bar, round with pivot ring 32 x 7.9mm
D-101400	Magnetic stirring bar, round with pivot ring 51 x 9.5mm
D-101500	Magnetic stirring bar, round with pivot ring 38 x 9.5mm



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