

# Magnetic Hotplate Stirrers

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

## SCI550-Pro LCD Digital Magnetic Hotplate Stirrer

### Features

- LCD display for precise monitoring of speed and temperature
- Built-in PID controller ensures 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(PT1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$
- Digital speed controlling, max. speed at 1500rpm
- Outstanding brushless DC motor enables more stirring power
- Two rotating knobs enable easy adjustment of speed and temperature
- The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Remote function provides PC control and data transmission



## SCI550-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(PT1000) with accuracy at  $\pm 0.2^{\circ}\text{C}$
- The "HOT" warning will flash if the work plate temperature is above 50°C



# Magnetic Hotplate Stirrers



Overheating protection



External sensor



Wide range of accessories



Chemical resistance



## Specifications

	SCI550-Pro	SCI550-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 <sub>2</sub> O]	20L	10L
Max. magnetic bar[length]	80mm	80mm
Speed range	100-1500rpm resolution ±1rpm	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	±1°C(<100°C) ±1%(>100°C)	±10°C
Overheating protection	580°C	580°C
Temperature display accuracy	±0.1°C	±1°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

# Magnetic Hotplate Stirrers

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

## SCI340-ProT LCD Digital Magnetic Hotplate Stirrer with Timer



## SCI340-Pro LCD Digital Magnetic Hotplate Stirrer



### Features

- Brushless DC motor is maintenance free
- Digital temperature control with max. temperature at 340°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 20L
- Safety circuits provide overheating protection
- The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off
- Wide range timer function from 1min to 99h59min(MS-H-ProT only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-ProT displays the time also)
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at  $\pm 0.2^{\circ}\text{C}$
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- A wide variety of accessories are available

## SCI340-HS Magnetic Hotplate Stirrer

### Features

- Maintenance free brushless DC motor
- Max. 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





External sensor



Brushless DC motor



Wide range of accessories



RS232 connector



Chemical resistance



## Specifications

	SCI340-Pro	SCI340-ProT	SCI340-HS
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 <sub>2</sub> 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

# Magnetic Hotplate Stirrers

SCIOGEX SCI280-Pro is a perfect device for handling small volume task on daily application, as a low temperature magnetic stirrer with max. temperature at 280°C.

## SCI280-Pro

### LED Digital Magnetic Hotplate Stirrer

#### Features

- Digital temperature control with max. temperature up to 280°C
- Digital speed control with max. speed up to 1500rpm
- Stainless steel work plate with ceramic coating provides good chemical resistant performance
- External temperature control is possible by connecting the temperature sensor(PT1000) with an accuracy at  $\pm 0.5^{\circ}\text{C}$
- LED display shows temperature and speed
- The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off



External sensor



Wide range of accessories



Chemical resistance



LED display

#### Specifications

	SCI280-Pro
Work plate Dimension	φ135mm(5 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	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1^{\circ}\text{C}(>100^{\circ}\text{C})$
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]	150×260×80mm
Weight	1.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH





# Magnetic Hotplate Stirrers

## SCI380H-Pro LCD Digital Hotplate

## SCI6-Pro LCD Digital Magnetic Stirrer

## SCI380HS-Pro LCD Digital Magnetic Hotplate Stirrer

SCIOGEX 380°C magnetic hotplate stirrers include all leading safety standards and is chemically-resistant with white ceramic work plate. They can be used in physical, chemical, analytical and biological laboratories.



### Features:

- Max. heating temperature is 380°C
- High resolution LCD displays actual temperature and speed.
- Brushless DC motor is maintenance free
- Aluminum cover with ceramic work plate, allows for immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital temperature control with max. temperature at 380°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 5L

Specifications	SCI380HS-Pro	SCI6-Pro	SCI380H-Pro
Work plate Dimension	140x140mm	140x140mm	140x140mm
Work plate material	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	-
Motor rating input	2.4W	2.4W	-
Motor rating output	1.8W	1.8W	-
Power	510W	10W	510W
Heating output	500W	-	500W
Voltage	100-120/200-240V, 50/60Hz	100-240V, 50-60Hz	100-120/200-240V, 50/60Hz
Stirring positions	1	1	-
Max. stirring quantity[H <sub>2</sub> O]	5L	5L	-
Max. magnetic bar[length]	50mm	40mm	-
Speed range	200-1500rpm	200-1500rpm	-
Speed display	LCD	LCD	-
Temperature display	LCD	-	LCD
Heating temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C
Over heat Protection	420°C	-	420°C
Temperature display accuracy	±0.1°C	-	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)
Control accuracy of sensor	±20rpm	±20rpm	-
Protection class	IP21	IP21	IP21
Dimension [W x D x H]	320x180x108mm	320x180x108mm	320x180x108mm
Weight	2.2kg	2.2kg	2.2kg
Permissible ambient temperature and humidity	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH

# Magnetic Hotplate Stirrers

## SCI340H-4

### LCD 4-Channel Digital Magnetic Hotplate Stirrer



It is widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals etc.

#### Features

- Independent heating and stirring control
- LCD display shows actual temperatures and speed
- PID controller ensures a precise and steady heating process, Max. temperature up to 340°C
- Brushless DC motor enables more powerful speed control
- External temperature sensor(PT1000) with accuracy at 0.2°C
- Overheating protection temperature at 420°C
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- A wide variety of accessories are available

#### Specifications

	SCI340H-4
Work plate dimension	Φ 134mm ( 5inch )
Plate material	Stainless steel with ceramic coating
Motor type	Brushless DC motor
Motor rating input[W]	1.8W × 4
Power[W]	515W × 4
Heating Power[W]	500 × 4
Voltage	100-120V,60Hz; 200-240V,50 Hz
Stirring positions	4
Max. stirring quantity of single position (H2O)	10L
Max. magnetic bar[mm]	40
Speed range[rpm]	200-1500
Speed display	LCD
Temperature display	LCD
Control accuracy of sensor[rpm]	± 20
Temperature range[° C]	25-340°C
Over temperature protection[° C]	420
Temperature display accuracy[° C]	± 0.1
External temp. sensor	PT1000 ( Accuracy ± 0.2°C )
IP Protection class	IP21
Dimensions[WxDxH][mm]	698*270*128
Weight[kg]	9.5kg
Permissible ambient temperature[° C]	5 ~ 40
Permissible relative humidity	80%

# Magnetic Hotplate Stirrers

## SCI120-HS

### 10-Position Magnetic Hotplate Stirrer

#### Features

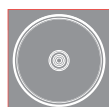
- Maintenance-free brushless DC motor
- Max speed 1100rpm
- Max.temperature 120°C
- Stainless steel work plate, covered with silicone cushion, provides the excellent performance of heating uniformity and skid resistance



Skid resistance



Multiple position



Brushless DC motor



#### Specifications

	SCI120-HS
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]	182×622×65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH



# Hotplates

## SCI550-H

### LED Hotplate

#### Features

- LED screen shows temperature
- Max. temperature up 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  $\pm 0.5^{\circ}\text{C}$
- Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off



Wide range of accessories



Chemical resistance



Overheating protection



"HOT" warning prevents burning

#### Specifications



	SCI550-H
Work plate dimension[WxD]	184x184mm(7 inch)
Work plate material	Glass ceramic
Power	1010W
Voltage Frequency	100-120/200-240V,50/60Hz
Heating Power	1000W
Heating position	1
Heating temperature range	Room temp.-550°C,increment 5°C
Control accuracy of work plate	$\pm 10^{\circ}\text{C}$
Safety temperature	580°C
Temperature display	LED
Temperature display accuracy	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000( $\pm 0.5^{\circ}\text{C}$ )
Heating warning	50°C
Protection class	IP21
Dimension[WxDxH]	215x360x112mm
Weight	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

## SCI7-S

### 7" Square Magnetic Stirrer

#### Features

- Speed range of 0-1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 10L
- Ceramic work plate provides excellent chemical resistant performance



## SCI-S

### Magnetic Stirrer

#### Features

- Maintenance free brushless DC motor
- Speed range of 0-1500 rpm
- Max. stirring quantity of H<sub>2</sub>O at 20L
- Stainless steel work plate cover with ceramic material provides good chemical resistance performance

#### F100 protective cover

for non-hotplate model,  
use with MS-S



Chemical resistance



Strong magnetism



#### Specifications

Work plate dimension[WxD]	
Work plate material	
Motor type	
Motor input power	
Motor output power	
Power	
Voltage	
Stirring positions	
Max. stirring quantity[H <sub>2</sub> O]	
Max. magnetic bar[length]	
Speed range	
Speed display	
Protection class	
Dimension[WxDxH]	
Weight	
Permissible ambient temperature and humidity	

SCI7-S
184x184mm(7inch)
Glass ceramic
Shaded pole motor
15W
1.5W
30W
100-120/200-240V,50/60Hz
1
10L
80mm
0-1500rpm
Scale
IP21
215x360x112mm
3.8kg
5-40°C, 80%RH

SCI-7
φ135mm(5 inch)
Stainless steel cover with ceramic
Brushless DC motor
18W
10W
30W
100-240V,50/60Hz
1
20L
80mm
0-1500rpm
Scale
IP42
160x280x85mm
2.8kg
5-40°C, 80%RH

# Magnetic Stirrers



## SCI-PA LED Digital Magnetic Stirrer

### Features

- Digital speed control within the range of 100-1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 3L
- LED display shows speed
- Nylon+GF housing provides a good performance of chemical resistance

## SCI-PB Magnetic Stirrer

### Features

- A wide range of 0-1500rpm
- Max. stirring quantity of H<sub>2</sub>O at 3L
- Nylon+GF housing provides a good performance of chemical resistance



Chemical resistance



Strong magnetism



LED display



### Specifications

	SCI-PA	SCI-PB
Work plate dimension[WxD]	φ135(5 inch)mm	φ135(5 inch)mm
Work plate material	Nylon+GF	Nylon+GF
Motor type	Brushless DC motor	DC motor
Motor input power	5W	5W
Motor output power	3W	3W
Power	15W	10W
Voltage	100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
Stirring positions	1	1
Max. stirring quantity[H <sub>2</sub> O]	3L	3L
Max. magnetic bar[length]	50mm	50mm
Speed range	200-1500rpm	0-1500rpm
Speed display	LED	Scale
Protection class	IP42	IP42
Dimension[WxDxH]	150×260×80mm	150×260×80 mm
Weight	1.8kg	1.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH

SCI-S10  
10-Position Magnetic Stirrer

Features

- Maintenance-free brushless DC motor
- Speed range of 0-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skid resistance



Multiple position



Specifications

SCI-S10	
Work plate Dimension[WxD]	180×450mm
Work plate material	Stainless steel with silicone coating
Motor type	Brushless DC motor
Motor input power	12W
Motor output power	4W
Power	20W
Voltage	100-120/200-240V,50/60Hz
Stirring positions	10
Max. stirring quantity[H <sub>2</sub> O]	0.4LX10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Scale
Protection class	IP21
Dimension[WxDxH]	622×205×65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

# Magnetic Stirrers

## SCI-Spin

### Ultra-flat Compact Magnetic Stirrer

With excellent stirring functionality, the compact shape of FlatSpin takes less bench space and makes storage easier.

#### Features

- A wide range of speed from 15 to 1500rpm
- Automatic reverse rotation for excellent mixing
- Protection class (IP65)
- PET top provides excellent chemical resistance
- Ultra silence and vibration-free



EcoStir is a magnetic stirrer customized for liquid mixing, suitable for chemical analysis, biology reagent mixing, regular laboratory experiments and liquid handling.

## SCI-Stir

### Economical Magnetic Stirrer

#### Features

- Maintenance free brushless DC motor
- Rare earth magnets give powerful stirring
- Stepless speed regulation 300-2000rpm
- Ultra silence and vibration-free design.
- PET top provides excellent chemical resistance
- Shaft can be fitted with a PH sensor or sensors for other purposes

#### Specifications

	SCI-Spin	SCI-Stir
Work plate Dimension	φ90mm	φ120mm
Work plate material	PET	PET
Motor type	Motorless	Brushless DC motor
Motor output power	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 quantity[H <sub>2</sub> O]	0.8L	1.5L
Max. magnetic bar[length]	40mm	40mm
Speed range	15-1500rpm	300-2000rpm
Speed setting	button	scale
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



# Magnetic Hotplate Stirrers | Accessories



Cat. No.	Description	SCI550-Pro	SCI550-S	SCI340-Pro	SCI340-T	SCI340-HS	SCI280-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 18900019	F101 protective cover, temperature resistance of 135°C			■	■	■	■
⑭ 18900016	PT1000-A, length of 230mm	■	■	■	■		■
⑮ 18900136	PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■		■
⑯ 18900017	Support clamp of PT1000	■	■	■	■		
⑰ 18900148	Support clamp of PT1000						■

## Magnetic Hotplate Stirrers | Accessories



### Stirrer bars

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

#### Models

SCI550-Pro  
SCI550-SS  
SCI340-Pro  
SCI340-T<sup>+</sup>  
SCI340-S  
SCI-S

SCI280-Pro  
SCI-PA  
SCI-PB

SXC120-HS  
SCI-S10  
SCI-Spin  
SCI-Stir



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	50mmx8mm	■	■	
18900013	65mmx8mm	■		
18900014	80mmx13mm	■		
18900015	Stirrer bar remover, length of 200mm	■	■	■