



# Stirring & Heating



Labfirst Scientific Instruments (Shanghai) Co., Ltd.

# SUPER HP-7

## LED Hotplate

### Features >>>

- LED screen display actual and accurate temperature
- Maximum temperature up to 550°C
- Separate safety circuits with safety temperature of 580°C
- External temperature control is possible by connecting temperature sensor (PT 1000) with an accuracy of  $\pm 0.2^{\circ}\text{C}$
- Work plate provides excellent chemical-resistant performance and most efficient heat transfer
- “HOT” warning flashes when the workplate temperature is above 50°C












Specifications	Super HP-7
Work plate Dimension [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
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 ( accuracy $\pm 0.2^{\circ}\text{C}$ )
Heating warning	50°C
Protection class	IP21
Power	1010W
Heating Power	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm
Weight	4.5kg
permissible ambient temperature and humidity	5-40°C,80%RH

Cat. No.	Description	Super HS-10Pro	Super HS-7Pro Super HS-7	HS-5 HS-5T	Multi-point HS-4	HS-5S	HS-5 basic	HS-5 basic 2
 920201	Blue carrying plate, use with color quarter pies			■	■	■	■	
 920202	Blue Fixed ring, use with color quarter pies			■	■	■	■	
 920203	Red quarter pie, 11 holes, 4 mL reaction vessel, Ø15.2mm, 20mm depth	■	■	■	■	■	■	■
 920204	Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm, 24mm depth	■	■	■	■	■	■	■
 920205	Blue quarter pie, 4 holes, 30mL reaction vessel, Ø28mm, 30mm depth	■	■	■	■	■	■	■
 920206	Black quarter pie, 4 holes, 40 mL reaction vessel, Ø28mm, 43mm depth	■	■	■	■	■	■	■
 920207	Green quarter pie, 6 holes, 8 mL reaction vessel, Ø17.8mm, 26mm depth	■	■	■	■	■	■	■
 920208	Golden quarter pie, 4 holes, 16 mL reaction vessel, Ø21.6mm, 31.7mm depth	■	■	■	■	■	■	■
 920008	Reaction block for 50mL round bottom flask (one flask capacity)			■	■	■	■	
 920011	Reaction block for 100 mL round bottom flask (one flask capacity)			■	■	■	■	
 920012	Reaction block for 250mL round bottom flask (one flask capacity)			■	■	■	■	
 920013	Reaction block for 500mL round bottom flask (one flask capacity)			■	■	■	■	
 920220	F101 protective cover, temperature resistance of 135°C			■		■	■	
 920002	PT1000-A, length of 230mm	■	■	■	■		■	■
 920003	PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■		■	■
 920218	Support clamp of PT1000 Vertical bar length: 45cm, stems length: 25cm, Stem diameter:10cm	■	■	■				
 920005	Support clamp of PT1000 Vertical bar length: 35cm, stems length: 18cm, Stem diameter:10cm				■		■	■

Magnetic hotplate stirrers are used for low viscosity liquids or solid mixing, chemical synthesis, physical and chemical analysis, bio-pharmaceuticals etc. Lab1st provides different series, heating range covers from 120°C–550°C:




### Magnetic Hotplate Stirrers:

Series	Model	Image	Stirring Position	Display	Work plate Size	Max. Heating Temp.	Max. stirring quantity(H <sub>2</sub> O)
<b>Super HS series</b>	Super HS-10Pro		1	LCD	254X254mm	500°C	30L
	Super HS-7Pro		1	LCD	184x184mm	550°C	20L
	Super HS-7		1	LED	184x184mm	550°C	10L
<b>HS series</b>	HS-5		1	LCD	Ø135mm	340°C	20L
	HS-5+		1	LCD	Ø135mm	340°C	20L
	HS-5T		1	LCD	Ø135mm	340°C	20L
	HS-5S		1	Scale	Ø135mm	340°C	20L
<b>Basic IHSI series</b>	HS-5 basic 2		1	LCD	140x140mm	380°C	5L
	HS-5 basic		1	LED	Ø135mm	280°C	3L
<b>Multi-point series</b>	Multi-point HS-4		4	LCD	Ø135mm	340°C	3Lx4
	Multi-point HS-10		10	Scale	180x450mm	120°C	0.4Lx10

**Magnetic Stirrers:**

Image	Model	Stirring Position	Display	Work plate Size	Max. stirring quantity(H.0)
	Super MS-7S	1	Scale	184x184mm	10L
	MS-5S	1	Scale	Ø135mm	20L
	MS-5 basic 2	1	LCD	140x140mm	5L
	MS-5 basic	1	LED	Ø135mm	3L
	MS-5 basic B	1	Scale	Ø135mm	3L
	MiStir Square	1	Scale	120x115mm	1.5L
	MiStir	1	Scale	Ø120mm	1.5L
	MinThi	1	-	Ø90mm	0.8L
	Multi-point RO-15**	15	LCD	460x304mm	0.4Lx15
	Multi-point RO-10	10	Scale	180x450mm	0.4Lx10

**Hotplate:**

Image	Model	Display	Work plate Size	Max. Heating Temp.
	Super HP-10 Pro	LCD	254x254mm	500°C
	Super HP-7	LED	184x184mm	550°C
	HP-5 basic 2	LCD	140x140mm	380°C

\*\*Coming soon

**Application guidance:**

**Notice:** HS-5 basic 2, HP-5 basic 2 & HS-5 basic are not available for chemical fields.

Fields		Super HS-10Pro/ Super HS-7Pro/ Super HS-7/ Super HP-10Pro/ Super HP-7	HS-5/ HS-5T/ HS-5+/ HS-5S/ Multi-point HS-4	HS-5 basic 2/ HP-5 basic 2	HS-5 basic	Multi-point HS-10	Magnetic Stirrers (none heating models)
<b>Pharmaceutical</b>	Chemical Synthesis	■	■				
	Biochemical Drugs	■	■				
	Medicine Testing	■	■				
	Drug Formulation	■	■				
<b>Chemical Industry</b>	Petrochemical Industry	■	■				
	Inorganic Chemical Synthesis	■	■				
	Organic Chemical Synthesis	■	■				
	Daily Use Chemical Industry	■	■				
	Painting/Rubber/Plastic	■	■				
	Fertilizer/Pesticide	■	■				
<b>Environmental</b>	Water Quality Analysis				■	■	■
	Pesticide Residue Testing				■	■	■
	Chemical Pollution Analysis				■	■	■
<b>Research &amp; Education</b>	Basic Chemical Experiments	■	■		■	■	■
	Material Analysis			■	■	■	■
	Liquid Mixing			■	■	■	■
	Chemical Synthesis	■	■				
<b>Food Industry</b>	Food Additive	■	■	■	■		
	Dairy Products	■	■	■	■		
	Nutrition Analysis	■	■	■	■		
<b>Biological Engineering</b>	Cell Culture						
	Biological Reagents		■	■	■	■	
	Biochemistry		■	■	■	■	

Overhead stirrers are used for middle or high viscosity samples mixing, widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries etc.

### Overhead stirrers:

<b>Models</b>					
<b>Models</b>	MICROSTIR 20Pro	MICROSTIR 20	MICROSTIR 40Pro	MICROSTIR 40	MICROSTIR 70Pro
<b>Max. Stirring Quantity(H<sub>2</sub>O)</b>	20L	20L	40L	40L	70L
<b>Constant Speed</b>	YES	NO	YES	NO	YES
<b>Display</b>	LCD	LED	LCD	LED	LCD
<b>Speed Range</b>	50–2200rpm	50–2200rpm	50–2200rpm	50–2200rpm	50–1100rpm
<b>Max. Torque</b>	40N · cm	40N · cm	60N · cm	60N · cm	300N · cm
<b>Viscosity Max.</b>	10000mPa · s	10000mPa · s	50000mPa · s	50000mPa · s	100000mPa · s