LAB1ST



Stirring&Heating

Labfirst Scientific Instruments (Shanghai) Co., Ltd.

MULTI-POINT HS-4

LCD 4-Channel Digital Magnetic Hotplate Stirrer

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



Features >>>

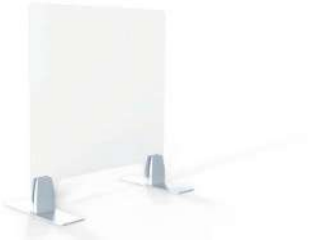
- Independent heating and stirring control for each position
- LCD display shows real-time temperature and speed
- PID controller ensures a precise and stable heating process (maximum temperature up to 340℃)
- Brushless DC motor is quiet, reliable & maintenance free, and provides more powerful speed control
- External temperature sensor (PT1000) with accuracy 0.2℃
- Overheating protection temperature at 420℃
- Stainless steel work plate with ceramic coating provides good chemical resistance
- Wide variety of accessories available to choose from

Specifications	Multi-point HS-4
Work plate dimension	Ø135mm(5inch) x4
Plate material	Stainless steel with ceramic coating
Motor type	Brushless DC motor
Stirring positions	4
Max. stirring quantity of single position (H_2O)	10L x 4
Max. magnetic bar	40mm
Speed range	200-1500rpm
Speed display	LCD
Temperature display	LCD
Control accuracy of sensor	±20rpm
Temperature range	25-340℃
Over temperature protection	420℃
Temperature display accuracy	±0.1℃
External temperature sensor	PT1000(accuracy±0.2℃)
IP Protection class	IP20
Motor input power	1.8Wx4
Power	515Wx4
Heating Power	500Wx4
Voltage,Frequency	100-120V,60Hz; 200-240V,50 Hz
Dimensions[WxDxH]	698x270x128mm
Weight	9.5kg
Permissible ambient temperature	5~40℃
Permissible relative humidity	80%RH

Cat.NO.	Picture	Name of stirrer bars	Size [mm]
920604		Stirrer bar, cross	Ø5 X 10
920605		Stirrer bar, cross	Ø10 X 20
920606		Stirrer bar, cross	Ø9 X 25
920607		Stirrer bar, cross	Ø10 X 30
920608		Stirrer bar, cross	Ø11 X 38
920609		Stirrer bar, cross	Ø20 X 65
920610		Stirrer bar, Triangular prism	Ø14 X 25
920611		Stirrer bar, Triangular prism	Ø14 X 50
920612		Stirrer bar, Triangular prism	Ø9 X 35
920613		Stirrer bar, Triangular prism	Ø14 X 80
920614		Stirrer bar, Gear shape	Ø8 X 30
920615		Stirrer bar, Gear shape	Ø8 X 38
920616		Stirrer bar, Gear shape	Ø10 X 50
920617		Stirrer bar, ellipse	Ø10 X 20
920618		Stirrer bar, ellipse	Ø12 X 25
920619		Stirrer bar, ellipse	Ø11X 30
920620		Stirrer bar, ellipse	Ø15X 35
920621		Stirrer bar, ellipse	Ø20 X 40
920622		Stirrer bar, ellipse	Ø20 X 50
920623		Stirrer bar, ellipse	Ø22 X 70
920624		Stirrer bar, slide round	Ø6 X 25
920625		Stirrer bar, slide round	Ø6 X 30
920626		Stirrer bar, slide round	Ø8 X 40
920627		Stirrer bar, slide round	Ø8 X 50
920628		Stirrer bar, slide round	Ø10 X 60
920629		Stirrer bar, slide round	Ø13 X 80
920630		Stirrer bar, slide round	Ø24 X 159
920631		Stirrer bar, Eight prism	Ø8 X 20
920632		Stirrer bar, Eight prism	Ø10 X 30
920633		Stirrer bar, Eight prism	Ø8 X 40
920634		Stirrer bar, Eight prism	Ø8 X 50
920635		Stirrer bar, Eight prism	Ø9 X 90
920636		Stirrer bar, round	Ø27X57
920637		Stirrer bar, round	Ø27X108
920638		Stirrer bar, round	Ø27X159
920016		Stirrer bar, round	Ø6 X 10
920017		Stirrer bar, round	Ø8 X 15
920018		Stirrer bar, round	Ø8 X 20
920019		Stirrer bar, round	Ø8 X 25
920020		Stirrer bar, round	Ø6X 30
920021		Stirrer bar, round	Ø8 X 40
920022		Stirrer bar, round	Ø8 X 50
920216		Stirrer bar, round	Ø8X 65
920217		Stirrer bar, round	Ø13X 80
920639		Stirrer bar, crown	Ø9X6
920024		Stirrer bar remover	length of 30cm
920023		Stirrer bar remover	length of 25cm



920222 7 inch Magnetic Stirrer transparent safety shield



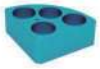
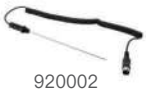
920221 5 inch Magnetic Stirrer transparent safety shield



920223 10 inch Magnetic Stirrer transparent safety shield

Cat.NO./Picture	RS 1 Set of magnetic stirring bars
 920601	Stirrer bar, round, Ø6X10, 2
	Stirrer bar, round, Ø6X15, 2
	Stirrer bar, round, Ø8X20, 2
	Stirrer bar, round, Ø8X25, 2
	Stirrer bar, round, Ø6X30, 2
	Stirrer bar, round, Ø8X40, 2
	Stirrer bar, round, Ø8X50, 2
	Stirrer bar, round, Ø10X80, 2
	Stirrer bar, Triangular prism, Ø14 X 25, 2
	Stirrer bar, Triangular prism, Ø14 X 50, 2

Cat.NO./Picture	RS 2 Set of magnetic stirring bars
 920603	Stirrer bar, round, Ø8X40, 2
	Stirrer bar, Eight prism, Ø8 X 40, 2
	Stirrer bar, Gear shape, Ø8 X 30, 2
	Stirrer bar, slide round, Ø8 X 40, 2
	Stirrer bar, ellipse, Ø20 X 40, 2
	Stirrer bar, cross, Ø9 X 25, 2
	Stirrer bar, crown, Ø9X6, 2
	Stirrer bar, round, Ø8X50, 2
	Stirrer bar, Triangular prism, Ø9 X 35, 2

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℃			■		■	■	
 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, stents length: 25cm, Stem diameter:10cm	■	■	■				
 920005	Support clamp of PT1000 Vertical bar length: 35cm, stents 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_2O]
Super HS series	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
HS series	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
Basic [HS] series	HS–5 basic 2		1	LCD	140x140mm	380˚C	5L
	HS–5 basic		1	LED	Ø135mm	280˚C	3L
Muiti-point series	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_2O]
	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℃
	Super HP-7	LED	184x184mm	550℃
	HP-5 basic 2	LCD	140x140mm	380℃

**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)
Pharmaceutical	Chemical Synthesis	■	■				
	Biochemical Drugs	■	■				
	Medicine Testing	■	■				
	Drug Formulation	■	■				
Chemical Industry	Petrochemical Industry	■	■				
	Inorganic Chemical Synthesis	■	■				
	Organic Chemical Synthesis	■	■				
	Daily Use Chemical Industry	■	■				
	Painting/Rubber/ Plastic	■	■				
	Fertilizer/Pesticide	■	■				
Environmental	Water Quality Analysis				■	■	■
	Pesticide Residue Testing				■	■	■
	Chemical Pollution Analysis				■	■	■
Research & Education	Basic Chemical Experiments	■	■		■	■	■
	Material Analysis			■	■	■	■
	Liquid Mixing			■	■	■	■
	Chemical Synthesis	■	■				
Food Industry	Food Additive	■	■	■	■		
	Dairy Products	■	■	■	■		
	Nutrition Analysis	■	■	■	■		
Biological Engineering	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:

Models					
Models	MICROSTIR 20Pro	MICROSTIR 20	MICROSTIR 40Pro	MICROSTIR 40	MICROSTIR 70Pro
Max. Stirring Quantity[H20]	20L	20L	40L	40L	70L
Constant Speed	YES	NO	YES	NO	YES
Display	LCD	LED	LCD	LED	LCD
Speed Range	50–2200rpm	50–2200rpm	50–2200rpm	50–2200rpm	50–1100rpm
Max. Torque	40N · cm	40N · cm	60N · cm	60N · cm	300N · cm
Viscosity Max.	10000mPa · s	10000mPa · s	50000mPa · s	50000mPa · s	100000mPa · s