









- "Three-In-One" and "Six-In-One" Hot plate stirrers
- Individually controlled stirring and heating positions
- Ideal for several applications at one time
- Multiple type and compact design

- Max. Temperature : 380°C
- Max. speed: 1500rpm
- Feedback speed control
- · Precise speed control by feedback control

- ▶ It is possible to use stir only, heat only, or heat and stir same time
- It is individually controlled stirring and heating positions that let you perform different applications simultaneously
- Ceramic coated top plate provides excellent chemical resistance, thermal-proof, and corrosion resistance
- ▶ Bright white color lets you easily view stirring processes
- High-heat conductivity of top plate provides thermal uniformity over the entire heating surface
- Heating temperature controlled by the electronic energy regulator(Time proportional ON/OFF auto control)
- ▶ Electronic feedback control maintains a precise speed
- Smooth acceleration of stirring speed ensures no spillage,

	Model	HS12-03P	HS15-03P	HS12-06P	HS15-26P
Heating & Strirring Positions		3 Positions		6 Positions	
	Range	Max,380℃			
Temperature	Display	Scale(Temperature)			
	Controller	Analog temperature controller			
Heater Power		350W×3	480W×3	350W×6	480W×6
	Speed	100~1500rpm			
Stirring	Speed display	Scale(rpm)			
	Capacity(H <sub>2</sub> 0)	up to 1L	up to 2L	up to 1L	up to 2L
Speed Controller		Feedback control			
Top Plate		Ceramic coated top plate			
Dimensions	Plate area(mm)	Each 120×120	Each 150×150	Each 120×120	Each 150×150
	Overall(W×D×H)(mm)	410×250×125	500×280×125	830×250×125	540×450×125
Electrical Supply		220V 50/60Hz or 110V 50/60Hz			
Weight		6.3Kg	7.7Kg	12Kg	13,5Kg





- Three-In-One Hot plate stirrers
- Individually controlled stirring and heating positions with digital display
- Max, temperature : 380°C
  Max, speed : 1500rpm
- Precise temperature control by PID auto-tuning, built-in timer
- · Feedback speed control with digital display
- Excellent precision and accuracy of the temperature and speed control
- · Ideal for several applications at one time
- · Multiple type and compact design

- It is individually controlled stirring and heating positions
- It is possible to change stirring speed and heating temperature on same and different condition
- By use of the temperature controller with function of the builtin digital PID auto-tuning, control temperature accurately and confirm set temperature and actual temperature at the same time
- ► Temperature controller with built—in timer function (99hr 59min,)
- Possible to control the temperature of the sample with external sensor(Option)

- Digital display of stirring speed and precise speed by feedback control
- It is individually controlled stirring and heating positions that let you perform different applications simultaneously
- Ceramic coated top plate provides excellent chemical resistance, thermal-proof, and corrosion resistance
- ▶ Bright white color lets you easily view stirring processes
- High-heat conductivity of top plate provides thermal uniformity over the entire heating surface
- Smooth acceleration of stirring speed ensures no spillage.

	Model	HSD120-03P	HSD150-03P	
Heating & Strirring Positions		3 Positions		
	Range	Max,380℃		
Temperature	Accuracy	±1°C		
	Controller	Digital PID auto-tuning		
	Times	99hr 59min		
Heater Power		350W×3	480W×3	
	Speed	100~1500rpm		
Stirring	Speed display	Digital		
	Capacity	up to 1L	up to 2L	
Speed Controlle	r	Feedback control		
Top Plate		Ceramic coated top plate		
Dimensions	Plate area(mm)	Each 120×120	Each 150×150	
Dimensions	Overall(W×D×H)(mm)	480×260×125	510×300×125	
Electrical Supply		220V 50/60Hz	or 110V 50/60Hz	
Weight		7,3Kg	8,3Kg	













- Space saving design with compact and light weight(MS12, MS15)
- Portable & ideal for stirring of the small vessels(MS12, MS15)
- Various sizes of the top plate
- Ceramic coated top plate
- Precise speed by electronic feedback control
- Max. speed: 1500rpm

- ▶ Various sizes of the top plate and flexible choice
- ► Ceramic coated top plate provides excellent chemical resistance, thermal—proof, and corrosion resistance
- Reflective, bright white color ceramic coated plate enhances sample visibility
- ▶ Electronic feedback control maintains a precise speed
- Smooth acceleration of stirring speed ensures no spillage.

	Model	MS12	MS15	MS200	MS33	
Type		Magnetic Stirrer				
	Speed	100~1500rpm		100~1300rpm		
Stirring	Speed display	Scale(rpm)				
	Capacity(H <sub>2</sub> 0)	up to 1L	up to 2L	up to 5L	up to 15L	
Speed Controller		Feedback control				
Top Plate		Ceramic coated top plate				
Dimensions	Plate area(mm)	120×120	150×150	180×180	300×300	
	Overall(W×D×H)(mm)	160×280×107	160×280×107	200×310×107	310×430×120	
Electrical Supply		220V 50/60Hz or 110V 50/60Hz				
Weight		2.4Kg	2.5Kg	3,4Kg	5,8Kg	













- Accurate temperature control by PID auto-tuning function, built-in timer
- Uniform heat distribution on the heating plate
- Max. temperature : 380°C
- Max, temperature : 350°C (HS330)
- Various sizes of the top plate and flexible choice
- Speed display by scale(rpm)
- Electronic feedback control maintains a precise speed
- Max. speed: 1500 rpm

- By use of the temperature controller with function of the built-in digital PID auto-tuning, control temperature accurately and confirm set temperature and actual temperature at the same time
- Temperature controller with built-in timer function (99hr 59min.)
- High-heat conductivity of top plate provides thermal uniformity over the entire heating surface
- Ceramic coated top plate provides excellent chemical resistance, thermal-proof, and corrosion resistance
- Possible to control the temperature of the sample with external sensor(Option)
- ▶ Electronic feedback control maintains a precise speed
- ▶ Smooth acceleration of stirring speed ensures no spillage.
- ► Speed display by scale(rpm)

	Model	HS120	HS150	HS180	HS330	
Туре		Hot plate & magnetic stirrer				
Temperature	Range	Max,380°C		Max,350℃		
	Accuracy	±1°C				
	Controller	Digital PID auto-tuning				
	Timer	99hr 59min				
Heater Power		350W	480W	680W	1400W	
	Speed	100~1500rpm 100~13			100~1300rpm	
Stirring	Speed display	Scale(rpm)				
2/	Capacity(H₂O)	up to 1L	up to 2L	up to 5L	up to 15L	
Speed Controller		Feedback control				
Top Plate		Ceramic coated top plate				
Dimensions	Plate area(mm)	120×120	150×150	180×180	300×300	
	Overall(W×D×H)(mm)	160×280×107	160×280×107	200×310×107	310×430×120	
Electrical Supply		220V 50/60Hz or 110V 50/60Hz				
Weight		2.7Ka	2.8Ka	3.8Ka	7Ka	











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- · Uniform heat distribution on the heating plate
- Max, temperature : 380°C
- Max. temperature : 350°C (HSD330)

- · Various sizes of the top plate and flexible choice
- · Speed display by digital
- · Electronic feedback control maintains a precise speed
- · Max. speed: 1500 rpm

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- Speed display by digital

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Туре		Hot plate & magnetic stirrer				
Temperature	Range	Max,380°C		Max,350°C		
	Accuracy	±1°C				
	Controller	Digital PID auto-tuning				
	Timer	99hr 59min				
Heater Power		350W	480W	680W	1400W	
THE SALE OF THE SA	Speed	100~1500rpm 100~1300			100~1300rpm	
Stirring	Speed display	Digital				
	Capacity(H <sub>2</sub> O)	up to 1L	up to 2L	up to 5L	up to 15L	
Speed Controller		Feedback control				
Top Plate		Ceramic coated top plate				
Dimensions	Plate area(mm)	120×120	150×150	180×180	300×300	
	Overall(W×D×H)(mm)	160×280×107	160×280×107	200×310×107	310×430×120	
Electrical Supply		220V 50/60Hz or 110V 50/60Hz				
Weight		2.7Kg	2.8Kg	3,8Kg	7Kg	