

16. OVERHEAD STIRRER & MANTLE



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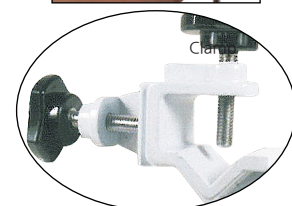
Overhead Stirrer



A through-shaft design for easy adjusting

- These models are ideal for standard stirring and mixing tasks.
- These models are specifically designed to convert a high-viscosity solution to a low-viscosity solution by thorough mixing applications.

Components



16. Overhead Stirrer & Mantle



- General-purpose mixer
- Through-shaft design (for easy impeller adjusting)
- Brushless DC electric motor for excellent durability and spark-free safety
- Noiseless and maximum safety design with compact body

Model	SH-OS-11
Stirring Capacity	10 L (H ₂ O)
Maximum Viscosity	10,000 cps
Maximum Torque	85 Ncm
Motor	DC 60W
Speed Range	50 ~ 3,000 R.P.M
Display	None
Controller	Analogue Phase Control
Electrical Supply	230V or 120V, 50/60 Hz



- General-purpose mixer
- Digital Display
- Through-shaft design (for easy impeller adjusting)
- Brushless DC electric motor for excellent durability and spark-free safety
- Noiseless and maximum safety design with compact body

Model	SH-OS-11D
Stirring Capacity	10 L (H ₂ O)
Maximum Viscosity	10,000 cps
Maximum Torque	85 Ncm
Motor	DC 60W
Speed Range	50 ~ 3,000 R.P.M
Display	Digital Display
Controller	Analogue Phase Control
Electrical Supply	230V(120V), 50/60Hz



- General-purpose mixer
- Through-shaft design (for easy impeller adjusting)
- Brushless DC electric motor for excellent durability and spark-free safety
- Noiseless and maximum safety design with compact body

Model	SH-OS-41
Stirring Capacity	60 L (H ₂ O)
Maximum Viscosity	40,000 cps
Maximum Torque	95 Ncm
Motor	DC 100W
Speed Range	50 ~ 3,000 R.P.M
Display	None
Controller	Analogue Phase Control
Electrical Supply	230V(120V), 50/60Hz



- General-purpose mixer
- Digital Display
- Through-shaft design (for easy impeller adjusting)
- Brushless DC electric motor for excellent durability and spark-free safety
- Noiseless and maximum safety design with compact body

Model	SH-OS-41D
Stirring Capacity	60 L (H ₂ O)
Maximum Viscosity	40,000 cps
Maximum Torque	95 Ncm
Motor	DC 100W
Speed Range	50 ~ 3,000 R.P.M
Display	Digital Display
Controller	Analogue Phase Control
Electrical Supply	230V(120V), 50/60 Hz

Impeller

Using the right stirring tool is the key to a successful mixing task .

In choosing what kind of stirring tool to use, consider the following characteristics: circulation method, range of speed, and minimum and maximum viscosity capacity.



Model	Type	Blade Size	Shaft Dia	Material
SH-IMP-50-3	Propeller Type	Φ50mm blade Φ1.97"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMP-60-3	Propeller Type	Φ60mm blade Φ2.36"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMP-80-3	Propeller Type	Φ80mm blade Φ3.15"	Φ8mmx650mm 0.31x25.59"	SUS304
SH-IMP-100-3	Propeller Type	Φ100mm blade Φ3.94"	Φ8mmx650mm 0.31x25.59"	SUS304



Model	Type	Blade Size	Shaft Dia	Material
SH-IMP-70-4	Propeller Type	Φ70mm blade Φ2.76"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMP-90-4	Propeller Type	Φ90mm blade Φ3.54"	Φ8mmx650mm 0.31x25.59"	SUS304
SH-IMP-100-4	Propeller Type	Φ100mm blade Φ3.94"	Φ8mmx650mm 0.31x25.59"	SUS304



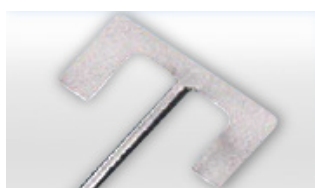
Model	Type	Blade Size	Shaft Dia	Material
SH-IMD-90-4	Diamond Type	Φ90mm blade Φ3.54"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMD-100-4	Diamond Type	Φ100mm blade Φ3.94"	Φ8mmx650mm 0.31x25.59"	SUS304



Model	Type	Blade Size	Shaft Dia	Material
SH-IMC-100-2	Centrifugal Type	Φ100mm blade Φ3.94"	Φ8mmx500mm 0.31x19.69"	SUS304



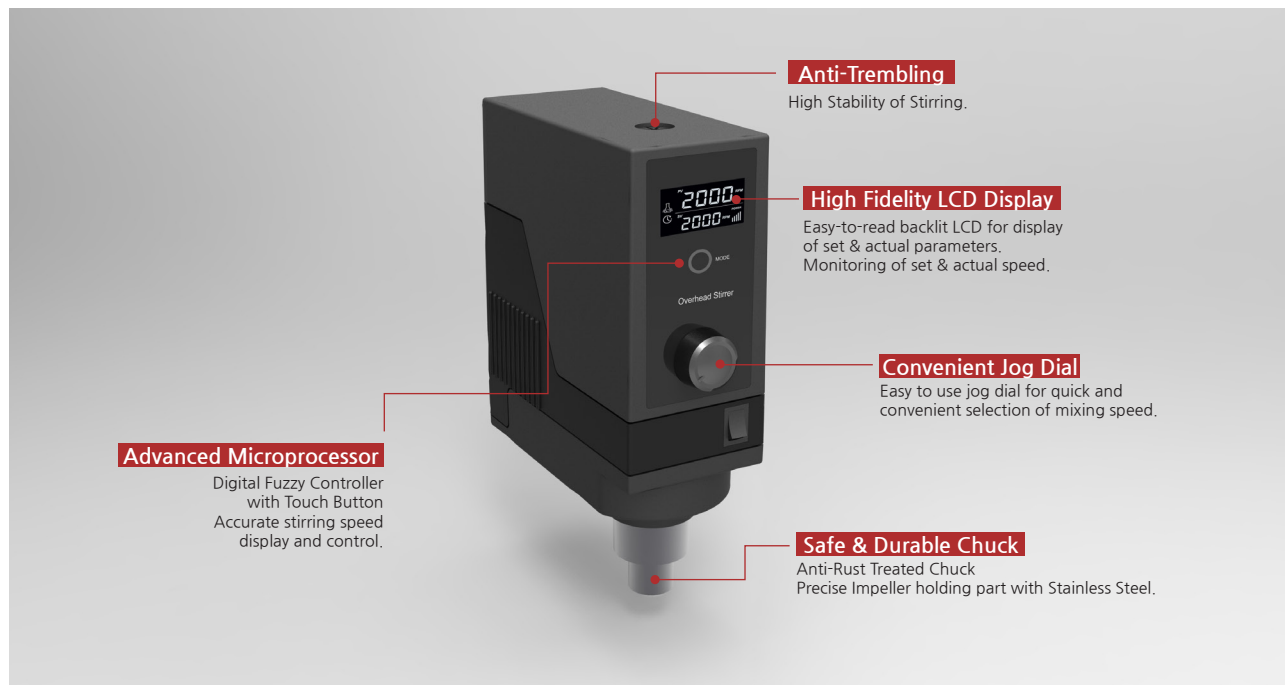
Model	Type	Blade Size	Shaft Dia	Material
SH-IMT-90-2	Teflon Coated Centrifugal Type	Φ90mm blade Φ3.54"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMP-120-2		Φ120mm blade Φ4.72"	Φ8mmx650mm 0.31x25.59"	SUS304



Model	Type	Blade Size	Shaft Dia	Material
SH-IMA-70-2	Anchor Type	Φ70mm blade Φ2.76"	Φ8mmx500mm 0.31x19.69"	SUS304
SH-IMA-90-2	Anchor Type	Φ90mm blade Φ3.54"	Φ8mmx650mm 0.31x25.59"	SUS304

NEW!

Overhead Stirrer Digital Model



SH-OSD	Overhead Stirrer, Digital, Viscosity 100,000, 2,000rpm, 230V
	Overhead Stirrer, Digital, Viscosity 100,000, 2,000rpm, 120V

Model	SH-OSD
Stirring Capacity	Max. 40 Lit. (H2O)
Maximum Viscosity	100,000 mPas
Maximum Torque	200 Ncm
Gear Rate	2.0:1
Speed Range	100 to 2,000rpm
Motor Rating(Input / Output)	110 / 85 W
Timer	99hr 59min
Display	Digital LCD Display with Back-Light Function
Controller	Digital Fuzzy Controller with Touch Button & Rotary Switch
Max. Impeller Shaft Diameter	10 mm
Permissible Temp. & Humidity	0 ~ 40°C, 80%
Safety Device	Overload & Heat Protector for Motor
Material	ABS and Aluminum
Power Consumption	150 W
Power Supply & Cord Plug	1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz, with Cord/Plug

NEW!

Analog Model



SH-OSA	Overhead Stirrer, Analog, Viscosity 100,000, 2,000rpm, 230V
	Overhead Stirrer, Analog, Viscosity 100,000, 2,000rpm, 120V

Model	SH-OSA
Stirring Capacity	Max. 40 Lit. (H ₂ O)
Maximum Viscosity	100,000 mPas
Maximum Torque	200 Ncm
Gear Rate	2.0:1
Speed Range	100 to 2,000rpm
Motor Rating(Input / Output)	110 / 85 W
Speed Control	Stepless
Max. Impeller Shaft Diameter	10 mm
Permissible Temp. & Humidity	0 ~ 40°C, 80%
Safety Device	Over Heat Protector for Motor
Material	ABS and Aluminum
Power Consumption	150 W
Power Supply & Cord Plug	1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz, with Cord/Plug

Accessories



<SH-OSSR010>



<SH-OSSR020>



<SH-OSHC010>

Model Name	Description
SH-OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
SH-OSSR020	Safety Stand, U-type, 34 x 29 cm Stand Base, with Rod
SH-OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

Stirring Tools with Exchangeable Blades for Overhead Stirrers

Model Name	Description
SH-OSIP010	Impeller, Propeller, 3 x bladed, Ø8 rod, Ø50 mm blade
SH-OSIP011	Impeller, Propeller, 3 x bladed, Ø8 rod, Ø60 mm blade
SH-OSIP012	Impeller, Propeller, 3 x bladed, Ø8 rod, Ø80 mm blade
SH-OSIP013	Impeller, Propeller, 3 x bladed, Ø8 rod, Ø100 mm blade
SH-OSIP020	Impeller, Propeller, 4 x bladed, Ø8 rod, Ø70 mm blade
SH-OSIP021	Impeller, Propeller, 4 x bladed, Ø8 rod, Ø90 mm blade
SH-OSIP022	Impeller, Propeller, 4 x bladed, Ø8 rod, Ø100 mm blade
SH-OSIP030	Impeller, Diamond, 4 x bladed, Ø8 rod, Ø90 mm blade
SH-OSIP031	Impeller, Diamond, 4 x bladed, Ø8 rod, Ø100 mm blade
SH-OSIP040	Impeller, Centrifugal, 2 x bladed, Ø8 rod, Ø100 mm blade
SH-OSIP050	Impeller, Centrifugal, Teflon-coated, 2 x bladed, Ø8 rod, Ø90 mm blade
SH-OSIP051	Impeller, Centrifugal, Teflon-coated, 2 x bladed, Ø8 rod, Ø120 mm blade
SH-OSIP060	Impeller, Anchor, 2 x bladed, Ø8 rod, Ø70 mm blade
SH-OSIP061	Impeller, Anchor, 2 x bladed, Ø8 rod, Ø90 mm blade
SH-OSIP111	Impeller, Propeller, 3 x bladed, Ø10 rod, Ø60 mm blade
SH-OSIP112	Impeller, Propeller, 3 x bladed, Ø10 rod, Ø80 mm blade
SH-OSIP113	Impeller, Propeller, 3 x bladed, Ø10 rod, Ø100 mm blade
SH-OSIP121	Impeller, Propeller, 4 x bladed, Ø10 rod, Ø90 mm blade
SH-OSIP122	Impeller, Propeller, 4 x bladed, Ø10 rod, Ø100 mm blade
SH-OSIP131	Impeller, Diamond, 4 x bladed, Ø10 rod, Ø100 mm blade
SH-OSIP141	Impeller, Anchor, 2 x bladed, Ø10 rod, Ø90 mm blade
SH-OSIP142	Impeller, Anchor, 2 x bladed, Ø10 rod, Ø140 mm blade

Magnetic Hot Plate Stirrer

- Excellent in Sample String and Basic Lab Heating Applications
- Chemical Resistant and Ceramic Coated

Magnetic Hot Plate Stirrer (Analog Controller)



Model		SH-HPS-180
Material	Body	Powder Coated Steel
	Plate	Ceramic Coated Aluminum
Plate Size		180x180mm / 7.09x7.09"
Max Temp		350°C
R.P.M		150~1500 R.P.M
Display	Temp	None
	R.P.M	None
Heater Power		570 W
Power		230V(120V), 50/60Hz

Magnetic Hot Plate Stirrer (Digital Controller)



Model		SH-HPS-180-D2
Material	Body	Powder Coated Steel
	Plate	Ceramic Coated Aluminum
Plate Size		180x180mm / 7.09x7.09"
Max Temp		350°C
R.P.M		150~1500 R.P.M
Display	Temp	Digital
	R.P.M	Digital
Heater Power		570 W
Power		230V(120V), 50/60Hz

NEW!

Magnetic Hot Plate Stirrer

Digital Model

208

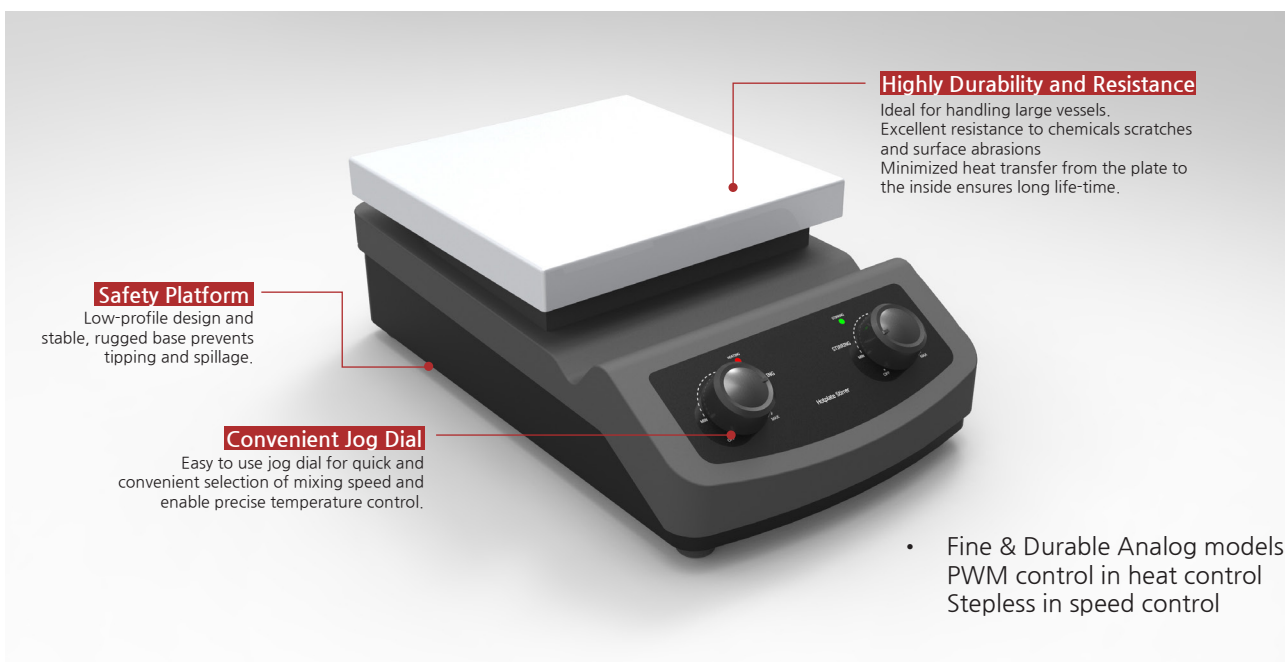


SH-HSD	Hotplate Stirrer, Digital, 18x18cm, 400°C, 1,500rpm, 230V
	Hotplate Stirrer, Digital, 18x18cm, 400°C, 1,500rpm, 120V
SH-HSD-Set	Package Set, Hotplate Stirrer with External Temp. Probe-set, Digital, 18x18cm, 400°C, 1,500rpm, 230V
	Package Set, Hotplate Stirrer with External Temp. Probe-set, Digital, 18x18cm, 400°C, 1,500rpm, 120V

Model		SH-HSD	SH-HSD-Set
Material	Body	Ceramic Coated Aluminum	
	Plate	Powder Coated Aluminum	
Plate Size		180x180mm 7.09x7.09"	
Stirrer Speed Range		80 to 1,500rpm	
Speed Control Resolution		5 rpm	
Maximum Stirring Volume (H2O)		20Lit.	
Heating Temperature		Max. 400°C	
Temp Accuracy		±0.3°C	
Temp Resolution	Display	0.1°C	
	Control	0.5°C	
Controller		Digital Fuzzy Controller with Touch Button & Rotary Switch	
Timer		99hr 59min	
Display		Full Digital LCD Display with Back-Light Function	
Heating Output		600 W	
Motor Type		Brushless Shade Motor	
Permissible Temp. & Humidity		5°C~40°C, <80%	
Maximum Magnetic Stirrer Bar		50mm	
Safety Devices		Over Temp Protection	
Power Consumption		650W	
Power		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ	
Weight		4 kg	4.6 kg
Accessories		-	SH-HSTP, SH-HSSR, SH-HSHC

NEW!

Analog Model



209

SH-HSA	Hotplate Stirrer, Analog, 18x18cm, 400°C, 1,500rpm, 230V
	Hotplate Stirrer, Analog, 18x18cm, 400°C, 1,500rpm, 120V

Model		SH-HSA
Material	Body	Ceramic Coated Aluminum
	Plate	Powder Coated Aluminum
Plate Size		180x180mm 7.09x7.09"
Stirrer Speed Range		Max. 1,500rpm
Maximum Stirring Volume (H2O)		20Lit.
Heating Temperature		Max. 400°C
Heat Control		Fine PWM Controller
Speed Control		Stepless
Heating Output		600 W
Motor Type		Brushless Shade Motor
Permissible Temp. & Humidity		5°C~40°C, <80%
Maximum Magnetic Stirrer Bar		50mm
Power Consumption		650W
Power		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories



Temp. Probe for Digital



Stand Rod



Holder Clamp for Temp. Probe

NEW!

Homogenizer Digital Model

210

Super High Speed
Up to 27,000 rpm

High Fidelity FND Display
Easy-to-read backlit LCD for display

Convenient Speed Set Knob
Easy to use Speed Set Knob for quick and convenient selection of mixing speed

Safe & Fine Compatibility in Tools
Useful for All Dispersing and Homogenizing Applications and realize fine homogenizing

Convenient Jog Dial
Easy to use jog dial for quick and convenient selection of mixing speed and enable precise temperature control.



Model	SH-HZD
Speed Range	2,000 to 27,000rpm(without load)
Maximum Volume (H2O)	2,500ml
Motor Rating(Input/Output)	400 / 300 W
Speed Control	Stepless
Display	3 Digit FND
Safety Devices	Over Heat Protector
Permissible Temp. & Humidity	5℃~40℃, <80%
Usable Dispersing Tool	Ø8mm Stator "SH-HZ1008", Ø10mm Stator "SH-HZ1010", Ø18mm Stator "SH-HZ1018", Ø25mm Stator "SH-HZ1025"
Material	ABS & Aluminum Stainless Steel(#304)-Tool
Extension Arm Size(ØxL)	12.7x250mm / 0.5x9.84"
Power Consumption	400W
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories



<SH-OSSR010>



<SH-OSHC010>



<SH-HZ1008>



<SH-HZ1010>



<SH-HZ1018>



<SH-HZ1025>

Model Name	Description
SH-OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
SH-OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

Model Name	Description
SH-HZ1008	Homogenizer Tool, Rotor Ø6.1, Stator Ø8, 1~50 ml
SH-HZ1010	Homogenizer Tool, Rotor Ø7.5, Stator Ø10, 1~100 ml
SH-HZ1018	Homogenizer Tool, Rotor Ø12.7, Stator Ø18, 10~1000 ml
SH-HZ1025	Homogenizer Tool, Rotor Ø17, Stator Ø25, 50~2500 ml

Homogenizer Analog Model



Super High Speed
Up to 27,000 rpm



Convenient Speed Set Knob
Easy to use Speed Set Knob for quick and convenient selection of mixing speed

Safe & Fine Compatibility in Tools
Useful for All Dispersing and Homogenizing Applications and realize fine homogenizing

Convenient Jog Dial
Easy to use jog dial for quick and convenient selection of mixing speed and enable precise temperature control.

- Fine & Durable Analog models stepless in speed control over heat protector for motor

Model	SH-HZA
Speed Range	About 27,000rpm(without load)
Maximum Volume (H2O)	2,500ml
Motor Rating(Input/Output)	400 / 300 W
Speed Control	Stepless
Display	-
Safety Devices	Over Heat Protector
Permissible Temp. & Humidity	5℃~40℃, <80%
Usable Dispersing Tool	Ø8mm Stator "SH-HZ1008", Ø10mm Stator "SH-HZ1010", Ø18mm Stator "SH-HZ1018", Ø25mm Stator "SH-HZ1025"
Material	ABS & Aluminum Stainless Steel(#304)-Tool
Extension Arm Size(ØxL)	12.7x250mm / 0.5x9.84"
Power Consumption	400W
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories



<SH-OSSR010>



<SH-OSHC010>



<SH-HZ1008>



<SH-HZ1010>



<SH-HZ1018>



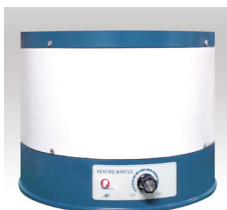
<SH-HZ1025>

Model Name	Description
SH-OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
SH-OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

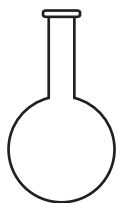
Model Name	Description
SH-HZ1008	Homogenizer Tool, Rotor Ø6.1, Stator Ø8, 1~50 ml
SH-HZ1010	Homogenizer Tool, Rotor Ø7.5, Stator Ø10, 1~100 ml
SH-HZ1018	Homogenizer Tool, Rotor Ø12.7, Stator Ø18, 10~1000 ml
SH-HZ1025	Homogenizer Tool, Rotor Ø17, Stator Ø25, 50~2500 ml

Heating Mantle

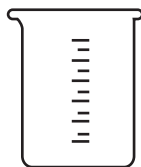
Heating Mantle



- Our mantle contains nichrome wire and ceramic fiber mat
- High quality heating mantle that can heat up to 450°C



Model	Capacity	Power/ Temp Limit
SH-HMG-100R	100 ML	Power 230(120V) 50/60Hz
SH-HMG-250R	250 ML	
SH-HMG-500R	500 ML	
SH-HMG-1000R	1 L	
SH-HMG-2000R	2 L	Heating Element Temp up to 450°C
SH-HMG-3000R	3 L	
SH-HMG-4000R	4 L	
SH-HMG-5000R	5 L	
SH-HMG-6000R	6 L	
SH-HMG-10000R	10 L	

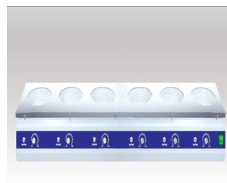


Model	Capacity	Power/ Temp Limit
SH-HMG-100B	100 ML	Power 230(120V) 50/60Hz
SH-HMG-250B	250 ML	
SH-HMG-600B	600 ML	
SH-HMG-1000B	1 L	
SH-HMG-2000B	2 L	Heating Element Temp up to 450°C
SH-HMG-3000B	3 L	
SH-HMG-4000B	4 L	
SH-HMG-5000B	5 L	
SH-HM-10000B	10 L	

Multi with Heating Mantle

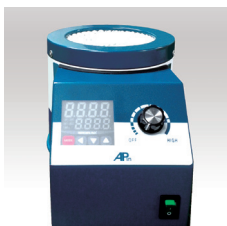


Model	Capacity	Power/ Temp Limit
SH-HMG-100R3	100 ML	Power 230(120V) 50/60Hz
SH-HMG-250R3	250 ML	
SH-HMG-500R3	500 ML	Heating Element Temp up to 450°C
SH-HMG-1000R3	1 L	

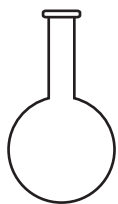


Model	Capacity	Power/ Temp Limit
SH-HMG-100R6	100 ML	Power 230(120V) 50/60Hz
SH-HMG-250R6	250 ML	
SH-HMG-500R6	500 ML	Heating Element Temp up to 450°C
SH-HMG-1000R6	1 L	

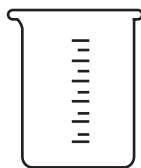
Digital Heating Mantle



- Our mantle contains of Nichrome wire and ceramic fiber mat
- High quality heating Mantle that can heat up to 450°C
- Improved accuracy of temp controller by using digital PID controller with auto function.

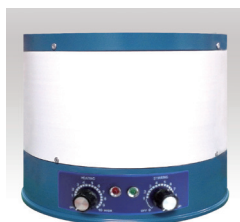


Model	Capacity	Power/ Temp Limit
SH-HMD-100R	100 ML	Power 230(120V) 50/60Hz
SH-HMD-250R	250 ML	
SH-HMD-500R	500 ML	
SH-HMD-1000R	1 L	
SH-HMD-2000R	2 L	Heating Element Temp up to 450°C
SH-HMD-3000R	3 L	
SH-HMD-4000R	4 L	
SH-HMD-5000R	5 L	
SH-HMD-6000R	6 L	
SH-HMD-10000R	10 L	

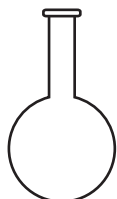


Model	Capacity	Power/ Temp Limit
SH-HMD-100B	100 ML	Power 230(120V) 50/60Hz
SH-HMD-250B	250 ML	
SH-HMD-600B	600 ML	
SH-HMD-1000B	1 L	
SH-HMD-2000B	2 L	Heating Element Temp up to 450°C
SH-HMD-3000B	3 L	
SH-HMD-4000B	4 L	
SH-HMD-5000B	5 L	
SH-HMD-10000B	10 L	

Magnetic Stirrer with Heating Mantle



- Our mantle contains of Nichrome wire and ceramic fiber mat
- High quality Heating mantle that can heat up to 450°C
- Individual switches for stirring function and heating function



Model	Capacity	Power/ Temp Limit
SH-HMS-100R	100 ML	Power 230(120V) 50/60Hz
SH-HMS-250R	250 ML	
SH-HMS-500R	500 ML	
SH-HMS-1000R	1 L	
SH-HMS-2000R	2 L	
SH-HMS-3000R	3 L	
SH-HMS-4000R	4 L	Heating Element Temp up to 450°C
SH-HMS-5000R	5 L	
SH-HMS-6000R	6 L	
SH-HMS-10000R	10 L	



Model	Capacity	Power/ Temp Limit
SH-HMS-100B	100 ML	Power 230(120V) 50/60Hz
SH-HMS-250B	250 ML	
SH-HMS-600B	600 ML	
SH-HMS-1000B	1 L	
SH-HMS-2000B	2 L	
SH-HMS-3000B	3 L	
SH-HMS-4000B	4 L	Heating Element Temp up to 450°C
SH-HMS-5000B	5 L	
SH-HMS-10000B	10 L	

Fabric Mantle



Model	Capacity	Power/ Temp Limit
SH-HMF-50R	50 ML	Power 230(120V) 50/60Hz
SH-HMF-100R	100 ML	
SH-HMF-250R	250 ML	
SH-HMF-500R	500 ML	
SH-HMF-1000R	1 L	
SH-HMF-2000R	2 L	
SH-HMF-3000R	3 L	Heating Element Temp up to 450°C
SH-HMF-5000R	5 L	



Model	Capacity	Power/ Temp Limit
SH-HMF-50B	50 ML	Power 230(120V) 50/60Hz
SH-HMF-100B	100 ML	
SH-HMF-250B	250 ML	
SH-HMF-600B	600 ML	
SH-HMF-1000B	1 L	
SH-HMF-2000B	2 L	
SH-HMF-3000B	3 L	Heating Element Temp up to 450°C
SH-HMF-5000B	5 L	

Heating Tape



- Can be applied with glass colth tape wrapping
- Recommend to use on moderate temperature conditions such as covering pipe line or for materials with complicated shape

Heating Tape 1'			
Model	WxL (mm)	Heater Capacity	Power/ Temp Limit
SH-HMT-251	25x1000mm 0.98x39.37"	200 W	Power 230(120V) 50/60Hz Heating Element Temp up to 450°C
SH-HMT-251.5	25x1500mm 0.98x59.06"	250 W	
SH-HMT-252	25x2000mm 0.98x78.74"	300 W	
SH-HMT-252.5	25x2500mm 0.98x98.43"	350 W	
SH-HMT-253	25x3000mm 0.98x118.11"	400 W	
SH-HMT-254	25x4000mm 0.98x157.48"	550 W	
SH-HMT-255	25x5000mm 0.98x196.85"	700 W	

Heating Tape 1/2'			
Model	WxL (mm)	Heater Capacity	Power/ Temp Limit
SH-HMT-131	13x1000mm 0.51x39.37"	200 W	Power 230(120V) 50/60Hz Heating Element Temp up to 450°C
SH-HMT-131.5	13x1500mm 0.51x59.06"	250 W	
SH-HMT-132	13x2000mm 0.51x78.74"	300 W	
SH-HMT-132.5	13x2500mm 0.51x98.43"	350 W	
SH-HMT-133	13x3000mm 0.51x118.11"	400 W	
SH-HMT-134	13x4000mm 0.51x157.48"	550 W	
SH-HMT-135	13x5000mm 0.51x196.85"	700 W	