

Hotplates & Stirrers

Magnetic Stirrers (Scale & Digital & Multi-position Models)

Powerful magnets and motors guarantee a high-speed and a good-management of the devices.



MS-B / T with the included Plate Covers



MS-G with the included Plate Covers



MS-M with an optional Plate Mats

Features

- Best-in-the-class with broad speed range and suitable for high-speed rotation experimental environment.
- Ergonomic designed, lightweight, easy to operate, and low profile.
- Wide top plate.
- Two non-slip silicon plate covers (white & black) provided for MS-B, T, G Models.
- Non-slip strength rubber feet.
- Sparkless, silent and durable BLDC motor.
- Built-in thermal shutdown and current limit protection.

Additional Features of MS-G

- Bright and vivid VFD and responsive touch buttons.
- Gradual start-up to protect users against splashing of samples.
- M10 threaded hole to hold a support rod.
- Digital timer range: 1 min to 99hr 59min.
- Convenient program control.

Additional Features of MS-M

- User-friendly operation and time setting modes allowing various ways of multi-position stirring to meet users' demands: single point, multiple point, whole row, whole column, etc.
- Easy-to-read VFD and intuitive control panel.
- Bright and vivid LED position indicating lamps.
- Non-slip see-through silicon plate mat. (optional)
- Chemical-resistant #304 grade stainless steel top-plate.

Included Accessories (without MS-M Models)

- Plate Covers(white & black)
- Magnetic Stirring Bars

Optional Accessories

- Silicone Plate Mats
- Plastic Retrievers

➡ see page 154-155

Hotplates & Stirrers

Magnetic Stirrers (Scale & Digital & Multi-position Models)

Specifications & Ordering Information



RoHS compliant only for MS-B
CE Certification only for MS-B Models

Model ¹⁾		MS-12B	MS-12T	MS-17B	MS-17T	MS-22B
Technical Data	Speed Control	Electronic speed control				
	Stirring Capacity (Liter, H ₂ O)	2		4		5
	Speed Range (RPM)	150 ~ 2,500				
	Speed Display	None				
	Motor Rating Input / Output (w)	2.9 / 1.6				
Top Plate	Magnetic Bar (ØxL, mm / Inch), Max.	8x30 / 0.31x1.18	8x30 / 0.31x1.18	8x40 / 0.31x1.57	8x30 / 0.31x1.18	10x50 / 0.39x1.97
	Load, Max (kg / lbs)	15 / 33.07	10 / 22.05	20 / 44.09	20 / 44.09	25 / 55.12
	Material	Polypropylene with non-slip silicon cover				
General Data	Dimension (mm / inch, Ø)	120 / 4.72	115 / 4.53	170 / 6.69	165 / 6.5	220 / 8.66
	Body Material	Poly propylene				
	Dimension (mm / inch, WxDxH)	130x130x65 / 5.12x5.12x2.56	181x176x57 / 7.13x6.93x2.24	185x185x65 / 7.28x7.28x2.56	246x243x57 / 9.69x9.57x2.24	230x230x65 / 9.06x9.06x2.56
	Weight (kg / lbs)	0.6 / 1.32		0.9 / 1.98		1.1 / 2.43
	Electrical Requirements	AC 100 ~ 240V, 50 / 60Hz with power adapter				
Cat. No.	Power Consumption (w)	5				
	Protection Class (DIN EN 60529)	IP42				
	Persian Blue	KR plug	AAH330115BK	AAH333115BK	AAH330215BK	AAH333215BK
		US plug	AAH330115BU	AAH333115BU	AAH330215BU	AAH333215BU
	Yellow	KR plug	AAH330115YK	-	AAH330215YK	-
		US plug	AAH330115YU	-	AAH330215YU	-
	Orange	KR plug	-	AAH333115RK	-	AAH333215RK
		US plug	-	AAH333116RU	-	AAH333216RU

1) B-models: round type, T-models; triangle type.

Specifications & Ordering Information



Model		MS-17G	MS-22G
Technical Data	Speed Control	Feedback control with PID	
	Stirring Capacity (Liter, H ₂ O)	4	5
	Speed Range (RPM)	30 to 2,000	
	Speed Display	VFD	
	Motor Rating Input / Output (w)	2.9 / 1.6	
Top Plate	Magnetic Bar (ØxL, mm / Inch), Max.	8x40 / 0.31x1.57	10x50 / 0.39x1.97
	Load, Max (kg / lbs)	20 / 44.09	25 / 55.12
	Material	Polypropylene with non-slip silicon cover	
General Data	Dimension (mm / inch, Ø)	170 / 6.69	220 / 8.66
	Body Material	Poly propylene	
	Dimension (mm / inch, WxDxH)	210x280x72 / 8.27x11.02x2.82	260x360x72 / 10.24x14.17x2.82
	Weight (kg / lbs)	1.35 / 2.98	1.75 / 3.86
	Electrical Requirements	AC 100 ~ 240V, 50 / 60Hz	
Cat. No.	Power Consumption (W)	6	
	Protection Class (DIN EN 60529)	IP42	
	Persian Blue	KR plug	AAH331215BK
		US plug	AAH331215BU
	Yellow	KR plug	AAH331215YK
		US plug	AAH331215YU

Specifications & Ordering Information



Model		MS-23M	MS-32M	MS-33M	MS-51M	MS-52M	MS-53M
Technical Data	Speed Control	Feedback control with PID					
	Stirring Positions	6	6	9	5	10	15
	Speed Range (RPM)	30 to 2,000					
	Stirring Point Distance (mm / inch, WxD)	117x170 / 4.6x6.69	117x90 / 4.6x3.54	117x90 / 4.6x3.54	90 / 3.54	117x90 / 4.6x3.54	
	Timer	1 min. to 99 hours 59 min.					
General Data	Speed Display	VFD					
	Motor Rating Input / Output (w) per each point	2.9 / 1.6					
	Load, Max (kg / lbs)	30 / 66.14					
Cat. No.	Dimension (mm / inch, WxDxH)	377x434x81 / 14.84x17.09x3.19	254x434x81 / 10x17.09x3.19	377x434x81 / 14.84x17.09x3.19	130x591x75 / 5.12x23.27x2.95	251x591x75 / 9.88x23.27x2.95	378x591x75 / 14.89x23.27x2.95
	Weight (kg / lbs)	6 / 13.23	5 / 11.02	7 / 15.43	4 / 8.82	8 / 17.64	11 / 24.25
	Electrical Requirements	AC 100 ~ 240V, 50 / 60Hz					
	Power Consumption (W)	45	45	54	45	85	135
	Protection Class (DIN EN 60529)	IP 21					
	KR plug	AAH332115K	AAH332215K	AAH332315K	AAH332415K	AAH332515K	AAH332615K
	US plug	AAH332115U	AAH332215U	AAH332315U	AAH332415U	AAH332515U	AAH332615U

Hotplates & Stirrers

Accessories & Options

for Hotplates Stirrers & Magnetic Stirrers

► Magnetic Stirring Bars



✦ Octahedral Magnetic Stirring Bars

Cat. No.	Ø (mm / inch)	L (mm / inch)
BCW1513	8 / 0.31	13 / 0.51
BCW1515	8 / 0.31	15 / 0.59
BCW1522	8 / 0.31	22 / 0.86
BCW1525	8 / 0.31	25 / 0.98
BCW1528	8 / 0.31	28 / 0.10
BCW1538	8 / 0.31	38 / 1.49
BCW1541	8 / 0.31	41 / 1.61
BCW1551	8 / 0.31	51 / 2.00
BCW155110	10 / 0.39	51 / 2.00



✦ Cylindrical Magnetic Stirring Bars

Cat. No.	Ø (mm / inch)	L (mm / inch)
BCW11138	8 / 0.31	13 / 0.51
BCW11156	6 / 0.23	15 / 0.59
BCW11208	8 / 0.31	20 / 0.78
BCW11258	8 / 0.31	25 / 0.98
BCW11308	8 / 0.31	30 / 1.18
BCW1140	8 / 0.31	40 / 1.57
BCW1150	8 / 0.31	50 / 1.96



✦ Oval Magnetic Stirring Bars

Cat. No.	Ø (mm / inch)	L (mm / inch)
BCW1610	5 / 0.19	10 / 0.39
BCW1615	6 / 0.23	15 / 0.59
BCW1620	10 / 0.39	20 / 0.78
BCW162510	10 / 0.39	25 / 0.98
BCW1630	16 / 0.63	30 / 1.18
BCW1635	16 / 0.63	35 / 1.38
BCW1640	20 / 0.78	40 / 1.57
BCW1650	20 / 0.78	50 / 1.96

► Plastic Retrievers



✦ Plastic Retrievers (PP)

Cat. No.	Ø (mm / inch)	L (mm / inch)
BCW41300	10 / 0.39	300 / 11.81
BCW41350	10 / 0.39	350 / 13.77
BCW41450	10 / 0.39	450 / 17.71



✦ Plastic Retrievers (PTFE)

Cat. No.	Ø (mm / inch)	L (mm / inch)
BCW4150	10 / 0.39	150 / 5.90
BCW4250	10 / 0.39	250 / 9.84
BCW4350	10 / 0.39	350 / 13.77
BCW4450	10 / 0.39	450 / 17.71