



version 1.0



2017



BROCHURE

Mixer / Temperature Control

Dry Bath Incubator



Mini Cooler, MC-02

CE

- Molded aluminum alloy chamber with PTFE coating resists stains and water marks
- PID temp. control helps maintain temperature accuracy: no more temperature overshooting
- Safety device: over-heating protection & SSR failure detection (selected model only)
- Outstanding heating rate
- Temperature uniformity at $\pm 0.2^{\circ}\text{C}$
- User temperature calibration available for all units



Mini Dry Bath, MD-MINI

Cat. No.	MD-MINI
Display	LED
Temperature control range	5°C above ambient to 100°C
Temperature increment	0.1°C
Temperature accuracy at 37°C	$\pm 0.25^{\circ}\text{C}$
Timer	9999 (min) / Continuous
Dimension (mm)(WxLxH)	153x125x97

MD-MINI-LID MD-MINI-CAR-ADAPTER

Cat. No.	MC-0203
Display	LCD
Power	max. 60W
Dimension (mm)(WxLxH)	135x152x185 (excluding lid)
Controller	High performance 32 bits microprocessor
Heating /Cooling chamber	Molded waterproof aluminum alloy coated with PTFE
Temperature control range	30°C below ambient temperature (minimum -10°C) to 100°C
Temperature increment	0.1°C
Temperature calibration	Yes
Heating rate	Max. 5°C per min
Cooling rate	Max. 4°C per min
Programmable	Yes (Quick start, Constant, Programmable, Annealing program)
Timer	9999 (min)
Safety	Leak proof heating chamber
Block type	Standard (MD-MINI) and customization upon request
PC Connection	USB

Ultimate Dry Bath Incubator, MC-01

Cat. No.	MC-01N
Chamber dimension (mm)(WxLxH)	130x90x50
Display	2.6" LCD
Dimension (mm)(WxLxH)	200x295x140
Temperature control range	30°C below ambient temperature (minimum -10°C) to 100°C
Temperature increment	0.1°C
Temperature accuracy at 37°C	$\pm 0.2^{\circ}\text{C}$
Operation mode	Constant operation: constant temperature (-10°C to 100°C); Timer: 9999 (min) Program operation: 1-4 steps and up to 9 cycles; Timer: 9999 (min) Annealing program

Elite Dry Bath Incubator, EL series

CE



- External temp. probe available for function control & data logging software (MD-01N/02N only, optional with RS232)

Genius Dry Bath Incubator, MD series

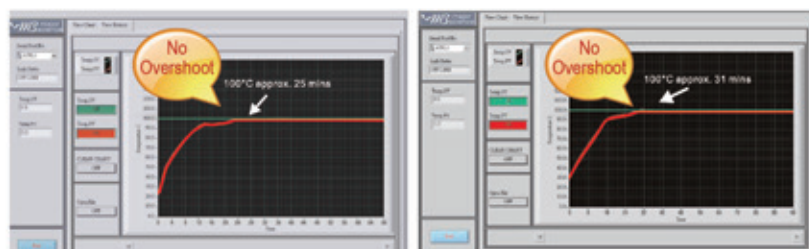
CE



Cat. No.	EL-01	EL-02	MD-01N	MD-02N
Display	LCD	LCD	LED	LED
Temperature control range	5°C above ambient to 150°C			
Temperature increment	0.1°C			
Temperature accuracy at 37°C	$\pm 0.2^{\circ}\text{C}$			
Timer	99 (hr): 59 (min) / Continuous		999 (min) / Continuous	
Dimension (mm)(WxLxH)	152x150x135	152x230x135	200x298x80	

MD-01N / EL-01
Temp. set value: 100°C
Initial temp. value: 25°C
Block model: MD-B1.5
Process time: Approx. 25mins

MD-02N / EL-02
Temp. set value: 100°C
Initial temp. value: 30°C
Block model: MD-B1.5
Process time: Approx. 31mins

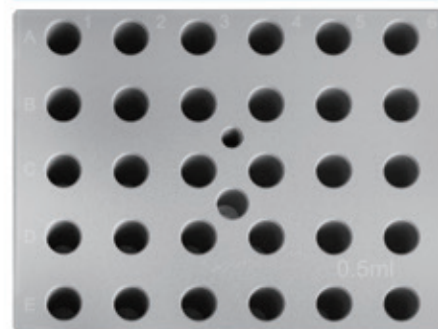
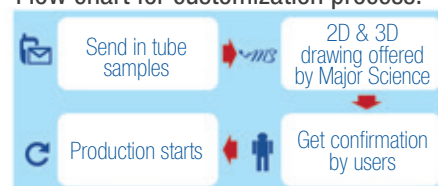


Dry Bath Block / Beads

The precisely machined aluminum alloy blocks deliver efficient heat transfer and are suitable for microplate and various test tubes ranging from 0.2ml to 50ml centrifuge tubes.

*Customized blocks available.

Flow chart for customization process:



Laser marked on the selected blocks

Dry Bath Block Specifications

Cat. No.	Mini Dry Bath Blocks	Dry Bath Blocks	Ultimate Dry Bath Blocks
Block material	Aluminum alloy		
Dimension (mm)(WxLxH)	47x71x32 (MD-MINI-B01/02/05/06/07) 47x71x75(MD-MINI-B03/04)	87x128x62.3(MD-MP01-S) 104x158x50 (MD-MP01-D/ MD-MP02-D) 87x128x69.5(MD-MP02-S) 79x104x50(standard blocks)	89x129x46(standard blocks) 64.5x89x46 (MC-B0.2H/0.5H/1.5H) 89x129x30 (MC-B0.2+0.5/0.5+1.5)

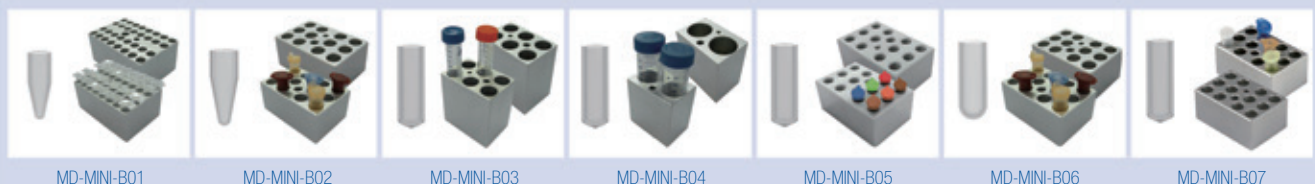
Metallic Thermal Beads Specifications

Cat. No.	Metallic Thermal Beads
Properties	Metal composition
	Moisture and gas impermeable
	High thermal conductivity
	Smooth, rounded surface
Working temperature range	-80°C to 180°C
Size	Diameter 5-8mm, Height 1-2mm

Metallic thermal beads as an alternative to the dry bath aluminum blocks. The beads are dry metallic thermal alloy designed to replace water in a water bath and ice in an ice bucket.



Mini Dry Bath Blocks

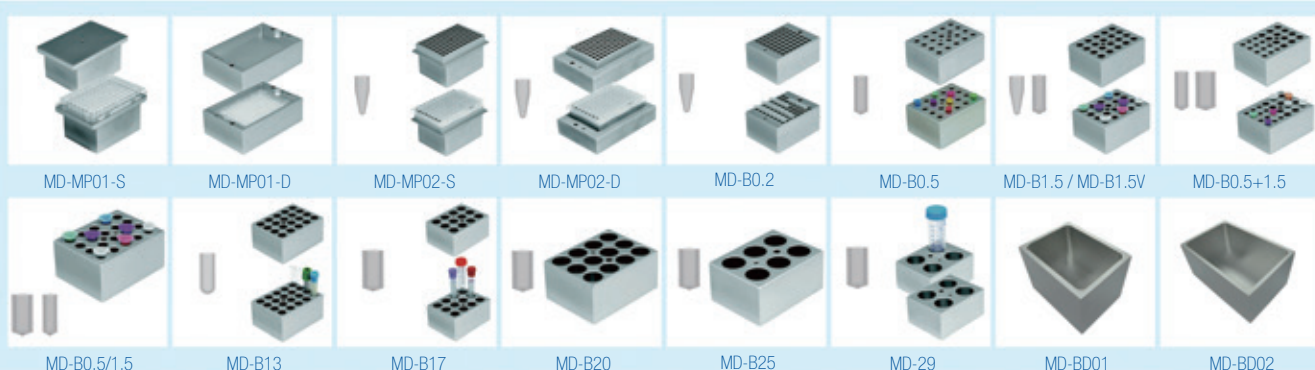


MD-MINI-B01	For 0.2ml tube (PCR strip tube), 32 wells, Ø6.35mm, depth 17mm, (WxLxH) 47x71x32mm
MD-MINI-B02	For 1.5ml tube, 12 wells, Ø10.88mm, depth 30mm, (WxLxH) 47x71x32mm
MD-MINI-B03	For 15ml tube, 6 wells, Ø17.3mm, depth 70mm, (WxLxH) 47x71x75mm
MD-MINI-B04	For 50ml tube, 2 wells, Ø29.0mm, depth 70mm, (WxLxH) 47x71x75mm
MD-MINI-B05	For 0.5ml tube, 12 wells, Ø7.9mm, depth 25mm, (WxLxH) 47x71x32mm
MD-MINI-B06	For 2.0ml or 1.5ml tube, 12 wells, Ø11.0mm, depth 30mm, (WxLxH) 47x71x32mm
MD-MINI-B07	For 2.0ml or 1.5ml tube, 12 wells, Ø11.0mm, depth 30mm, (WxLxH) 47x71x32mm
MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings



MS-BL95-E

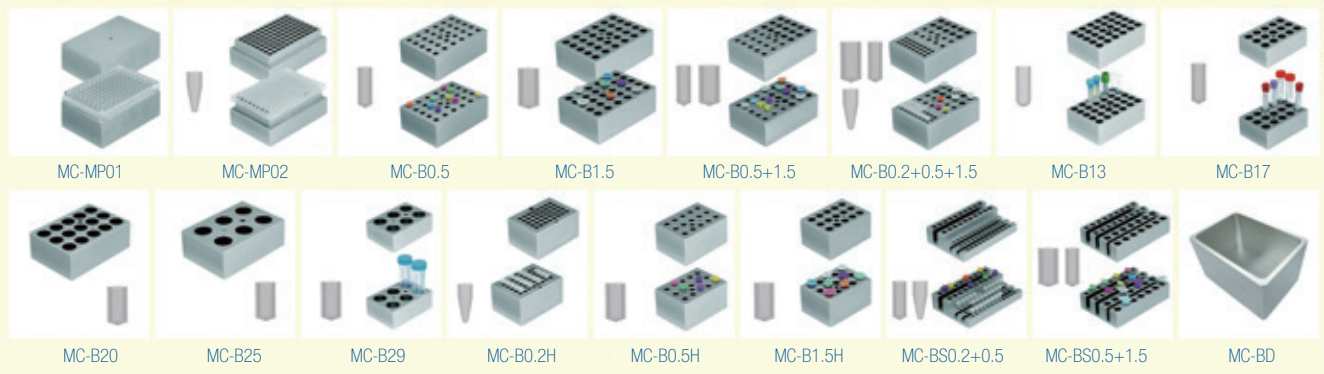
Dry Bath Blocks



MD-MP01-S	For microplate; titerplate (Plain Block for Single Block unit only)	MD-B0.5/1.5	One side for 1.5 or 2.0ml tube, 20 wells and another side for 0.5ml tube, 30 wells (on the opposite side)
MD-MP01-D	For microplate; titerplate (Dual Block unit only)	MD-B13	Well size 13mm, 20 wells
MD-MP02-S	For 96 wells deep microplate or PCR plate (for Single Block unit only)	MD-B17	For 15ml centrifuge tube, 12 wells
MD-MP02-D	For 96 wells deep microplate or PCR plate (for Dual Block unit only)	MD-B20	Well size 20mm, 12 wells
MD-B0.2	For 0.2ml tube, 64 wells (or 0.2ml PCR strip tube for 8 wells x 8)	MD-B25	Well size 25mm, 6 wells
MD-B0.5	For 0.5ml tube, 20 wells	MD-B29	For 50ml centrifuge tube, 4 wells
MD-B1.5	For 1.5ml or 2.0ml tube, 20 wells	MD-BD01	Single bead MD dry bath block, (WxLxH) 79 x104x76mm
MD-B1.5V	For 1.5 V-shaped tube only, 20 wells	MD-BD02	Dual bead MD dry bath block, (WxLxH) 104 x158x76mm
MD-B0.5+1.5	Combination: for 0.5ml tube, 12 wells; and for 1.5ml tube, 12 wells (on the same side)	MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings

*Technical specification subject to change without notice.

*Please visit our website at www.majorsci.com for more product selection and detailed information.

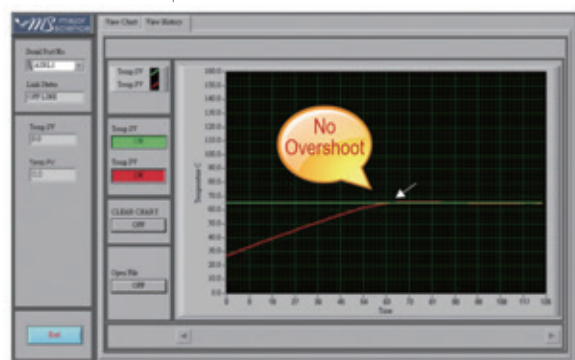


MC-MP01	For Microplate; titerplate (Plain Block)	MC-B29	For 50ml centrifuge tube, 6 wells
MC-MP02	For 96 wells deep microplate or PCR plate	MC-B0.2H	(1/2) half block for 0.2ml tube, 40 wells (or 0.2ml PCR strip tube for 8 wells x 5)
MC-B0.5	For 0.5ml, 30 wells	MC-B0.5H	One Ultimate Dry Bath Incubator can insert 2ea of half block (1/2) half block for 0.5ml tube, 15 wells
MC-B1.5	For 1.5 or 2.0ml, 30 wells	MC-B1.5H	One Ultimate Dry Bath Incubator can insert 2ea of half block (1/2) half block for 1.5 or 2ml tube, 15 wells
MC-B0.5+1.5	Combination: for 1.5ml or 2.0ml tube, 15 wells and 0.5ml tube, 15 wells (on the same side)	MC-BS0.2+0.5	Combination: 0.2ml tube, 36 wells; 0.5ml, 20 wells
MC-B0.2+0.5+1.5	Combination: 0.2ml tube (or strip tube for 8 wells) , 24 wells; 1.5ml or 2.0ml tube, 10 wells and 0.5ml tube, 10 wells (on the same side)	MC-BS0.5+1.5	Combination: 0.5ml tube, 18 wells; 1.5ml, 14 wells
MC-B13	Well size 13mm, 30 wells	MC-BD	Ultimate bead bath block, (WxLxH) 90 x127x76mm
MC-B17	For 15ml centrifuge tube, 15 wells	MS-BL95-E	Block Lifter, 95mm length with E-type retaining rings
MC-B20	Well size 20mm, 15 wells		
MC-B25	Well size 25mm, 6 wells		

Stirring Water Bath SWB series

Cat. No.	SWB-10L-1	SWB-10L-2	SWB-20L-1	SWB-20L-3
Number of stirring mechanisms	1	2	1	3
Stirring speed	400-1500rpm (measured by percentage)			
Bath capacity	Approx. 10L		Approx. 20L	
Water circulation function	Yes			
Display	LCD			
Heating power	600W		800W	
Controller	Digital microprocessor controller			
Bath temperature	5 °C above ambient to 99 °C			
Temperature increment	0.1°C			
Temperature accuracy	± 0.2 °C at 37 °C			
Timer	99 (hr): 59 (min) / Continuous			
Safety device	Warning indication on screen with alarm and automatic shut down			
Bath Inner dimension (mm)(WxLxH)	240x300x150		300x500x150	
Dimension (mm)(WxLxH)	255x355x240(without lid)		330x540x240 (without lid)	

As little as 34/60 mins required to reach 65°C in 10L/20L bathes.



SWB-20L Series

Temp. set value:65°C
Initial temp. value:27°C
Water volume : 12 liters
Process time: Approx. 60mins

SWB-10L Series

Temp. set value:65°C
Initial temp. value:17°C
Water volume : 5 liters
Process time: Approx. 34mins



- Built-in magnetic stirring mechanism ensures outstanding temperature uniformity
- Polycarbonate lid for better observation
- User temperature calibration
- Data logging software available upon ordering

Max. capacity:
15 sets of 250ml flasks
8 sets of 500ml flasks

Illustrates
max. chamber
capacity only.



Max. capacity:
6 sets of 250ml flasks
4 sets of 500ml flasks



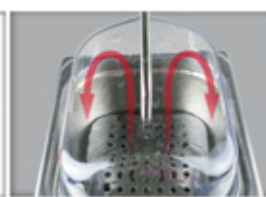
Built-in magnetic stirring mechanism ensures outstanding temperature uniformity



Water circulation function
■ Magnetic agitator
■ Stir bar
























Side opening of the lid to allow minimum evaporation while maintaining water bath temperature.



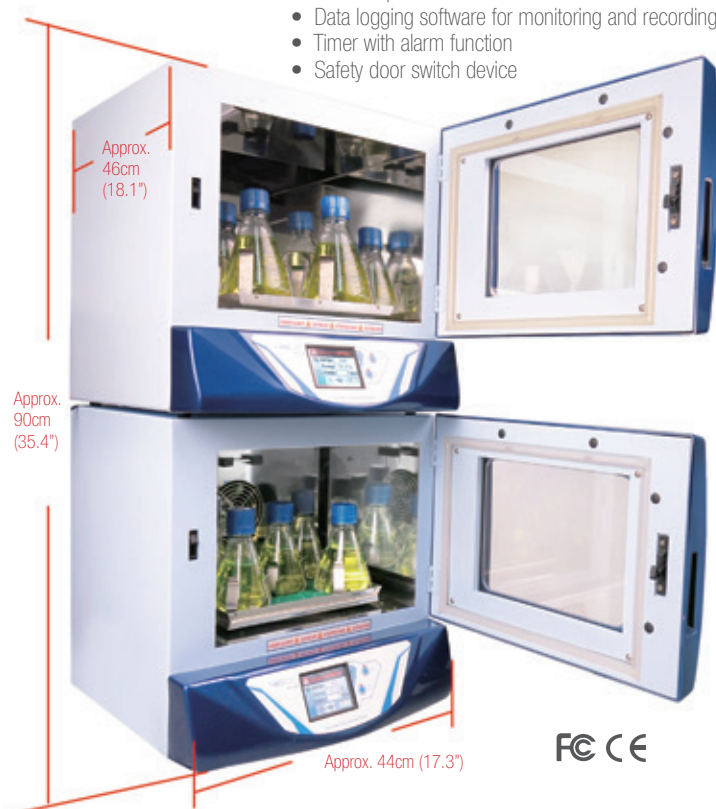
Concave lid design allows condensation flow back to the tank.

Incubator

Cat. No.	MO-A01	MO-A0R	MO-A0R-02	MO-ARK	MO-ARC	MO-AVT
						
		  	 	  	  	  
Display	Touch screen & graphical interface, 3.5" 64 K color TFT display					
Rotisserie / Speed	N/A	Yes (optional) 5-100rpm	N/A	Yes (optional) 5-100rpm		
Shaker motion	N/A	Orbital clockwise / counterclockwise		Rocking*	Reciprocal	Vortex motion
Shaker speed	N/A	0-200rpm	0-200rpm	5-100rpm	5-100rpm	50-1500rpm
Temperature control range	Ambient +5°C to 85°C					
Temperature uniformity	± 0.2°C at 37°C					
Temperature accuracy	± 0.2°C at 37°C					
Inner chamber dimensions	(WxLxH) 340x225x260 (mm)					
Data logging	RS-232					

*To perform rocking motion on optional accessories, MO-SEESAW is required.

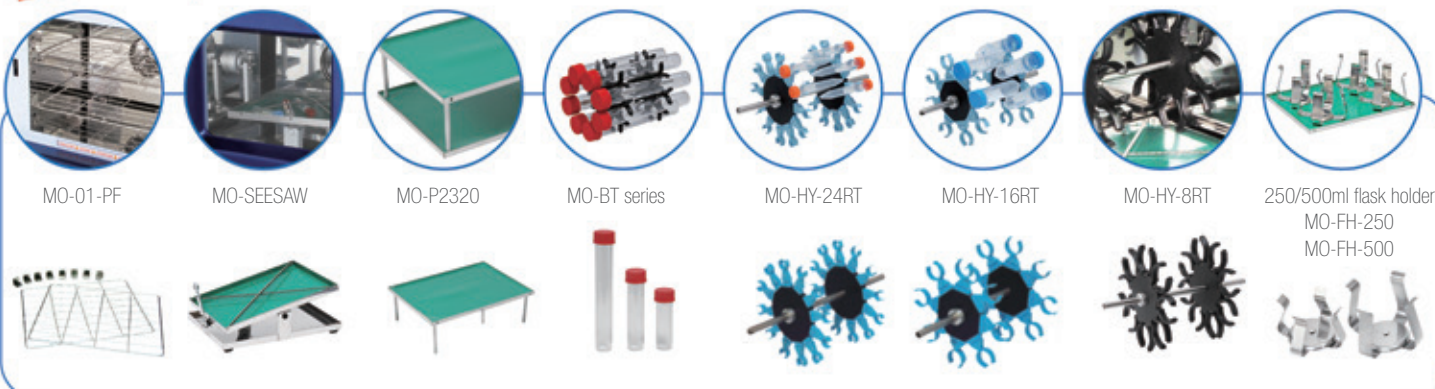
- User temperature calibration available
- Data logging software for monitoring and recording purposes (optional)
- Timer with alarm function
- Safety door switch device



FC CE



Large color touch screen and graphical control interface for easy access and operation



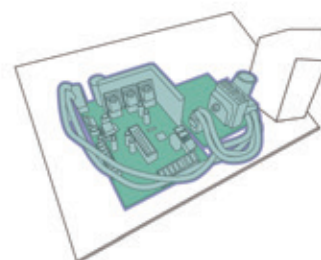
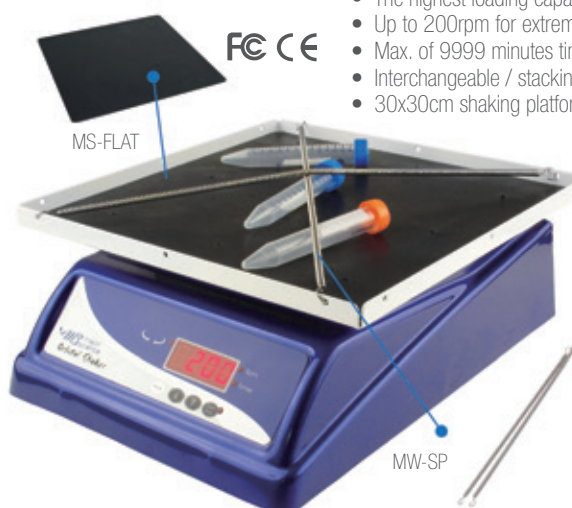
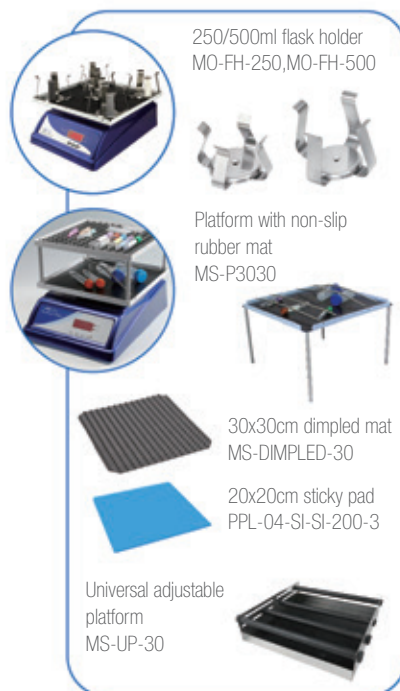
• Various accessories available

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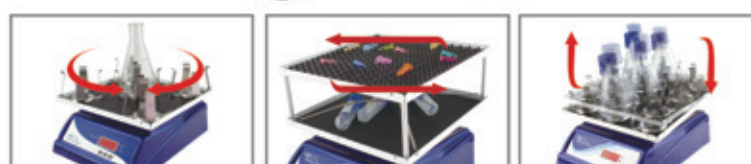
*Please visit our website at www.majorsci.com for more product selection and detailed information.

Shaker MS Orbital / MS Reciprocal / MS Rocking Shaker

- The highest loading capacity on the market (up to 15kg)
- Up to 200rpm for extreme performance
- Max. of 9999 minutes timer with alarm warning
- Interchangeable / stacking platforms and accessories for different applications
- 30x30cm shaking platform for standard laboratory practice



*anti-moisture shakers are also available for cold room and CO₂ incubation operation. Please contact your regional manager for detail information.



MS Orbital Shaker
MS-NOR-30

MS Reciprocal Shaker
MS-NRC-30

MS Rocking Shaker
MS-NRK-30

Cat. No.		MS-NOR-30	MS-NOR-3001	MS-NRK-30	MS-NRK-3001	MS-NRC-30	MS-NRC-3001	MW-23
Shaking motion		Orbital action in one direction or two directions		Rocking Tilt angle:12°		Reciprocal Stroke length:20mm		Orbital and nutation(2D or 3D)
Speed/Inc.		0 ~ 200rpm / 1rpm		5 ~ 100rpm / 1rpm				
Timer		9999 (min) with alarm / Continuous						
Platform dimension (cm) (WxL)		30x30						33x33
Loading capacity		10kg		15kg				
Stacking platform		Yes						
Anti-moistured		N/A	Yes	N/A	Yes	N/A	Yes	N/A
Platform capability of flask holders	125ml	12		12				9/ ♦ 12
	250ml	9		9				9
	500ml	5		5				9
	1000ml	4		4				1/ ♦ 5
	2000ml	1		2				N/A

♦ Customized specification

MS Waver Shaker Shaker

FC CE



MS Waver Shaker
MW series



* Additional hybridization water bath available for waver-shaker (accessory)

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Taiwan Office

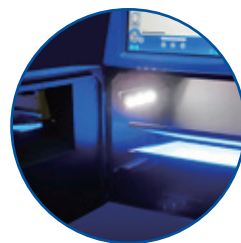
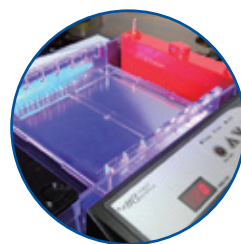
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