

2019-2020 Catalogue

version 1.0



Shaker

 **major
science**
Innovative Life Sciences Tools

MS Orbital Shaker MS Reciprocal Shaker MS Rocking Shaker

MS-NOR-30 / MS-NOR-3001 MS-NRC-30 / MS-NRC-3001 MS-NRK-30 / MS-NRK-3001

Three different shaking motions of MS Shaker series is provided for many purposes in chemical and life sciences laboratories. The Orbital Shaker digitally controls clockwise and/or counter-clockwise orbits to create superb mixing efficiency. The Reciprocal Shaker features a horizontal (left to right) linear action to provide gentle and vigorous shaking motion. The Rocking Shaker provides a "12-degree" rocking motion for variety of applications. All three models provides continuous or timed operation with integral electronic timer, LED display, audible signal for automatic switch-off timed control, interchangeable/stacking platforms. Reciprocal shaker can hold up to 15kg of weight whereas rocking and orbital shaker can hold up to 10kg(orbital) and 8kg(rocking), respectively.

For Anti-moisture model

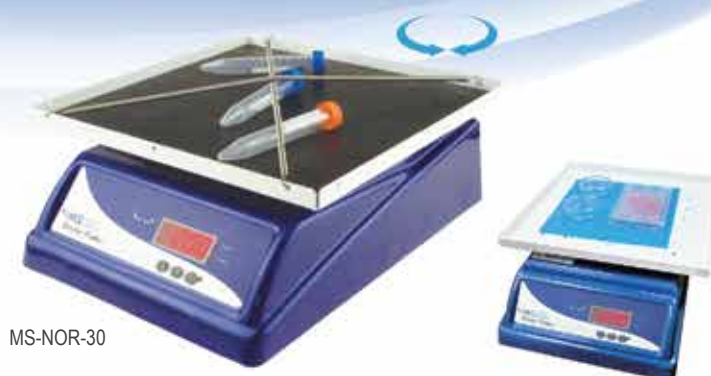
The MS Anti-moisture Shaker series offers the same capabilities as our original MS shaker series with moisture protection coating. The moisture protection allows you to operate the shaker in cold-room or low temperature environment. An anti-moisture coating is applied on the electrical structure to minimize and prevent the forming of condensation when operating in & out of the cold room. Standard features and accessories from the MS shaker series apply to all three different models.



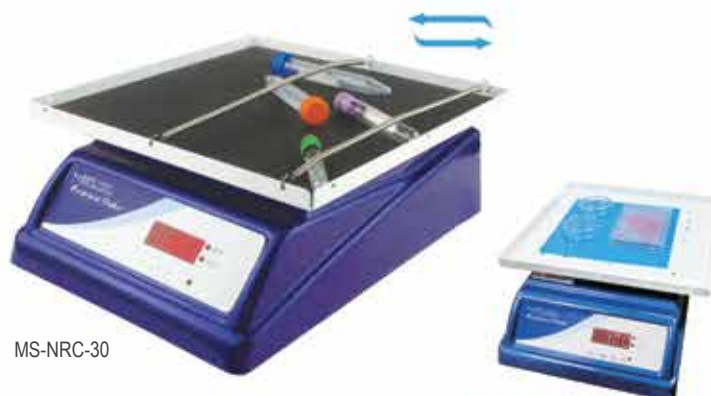
Heavy loading capacity (ex. MS-NRC-30)

Features

- Continuous one way orbital shaking or two ways clockwise/ counter-clockwise orbital shaking
- Continuous or timed operation with auto shut-off
- Variable shaking speed up to 200rpm for MS-NOR-30
- Variety of accessories available
- Max. 17.6lb (8kg) loading capacity for MS-NRK-30
- Max. 22.0lb (10kg) loading capacity for MS-NOR-30
- Max. 33lb (15kg) loading capacity for MS-NRC-30
- Special anti-moisture coating allows smooth operation in cold room environment or CO₂ incubation
- Optional 300x300mm platform available for your selection.



MS-NOR-30



MS-NRC-30



MS-NRK-30

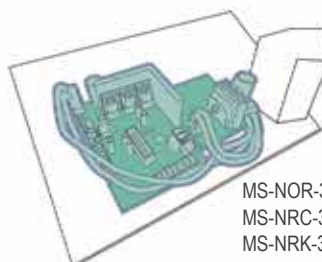
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MS Orbital Shaker
MS-NOR-30

MS Reciprocal Shaker
MS-NRC-30

MS Rocking Shaker
MS-NRK-30



MS-NOR-3001
MS-NRC-3001
MS-NRK-3001

Special coating allows anti-moisture for cold room operation

Platform capability of Flask Holders

Flask	Max. set of flask holder	
	MS-NOR-30	MS-NRC-30 MS-NRK-30
50ml	13	13
125ml	12	12
250ml	9	9
500ml	5	5
1000ml	4	4
2000ml	1	2

*When operating with second-tier platform, max. loading capacity may change.

Specification

Cat. No.	MS-NOR-30 (MS-NOR-3001**)	MS-NRC-30 (MS-NRC-3001**)	MS-NRK-30 (MS-NRK-3001**)
Motion	Orbital	Reciprocal	Rocking
Moving Feature	Orbital action in one direction or two directions	Steady moving motion at 5rpm	
Bi-directional Shaking	0.1 - 10 circle / 0.1 circular increment	N / A	
Maximum Tilt Angle	N / A		12°
Maximum Stroke Length	20mm		N / A
Controller	Digital microprocessor controller		
Speed/Inc.	0 - 200rpm / 1rpm	5 - 100rpm / 1rpm	
Timer	9999 (min) with alarm / Continuous		
Loading Capacity	22.0lb (10kg)	33.0lb (15kg)	17.6lb (8kg)
Motor	Stepping motor	DC brushless type	
Operating Temperature	Ambient to 40°C		
Platform Dimension (WxL)	Approx. 1.2"x1.2" (300x300mm)		
Platform Material	Painted iron metal		
Stacking Platform	Yes		
Dimension (WxLxH)	Approx. 11.8"x12.2"x5.1" (300x310x130mm)		
Material	ABS and Painted iron metal		
Weight	Approx. 15.4lb (7.0kg)		
Rated Voltage	110V / 220V~ selectable; 50/60Hz; 0.63A		

** Anti-moisture coating

Ordering Information

Cat. No.	Product Description
MS-NOR-30	MS Orbital Shaker with 300x300mm platform and flat non-slip rubber mat, 110V/ 220V~
MS-NOR-3001	MS Orbital anti-moistured shaker with 300x300mm platform and flat non-slip rubber mat, 110V/220V~
MS-NRC-30	MS Reciprocal Shaker with 300x300mm platform and flat non-slip rubber mat, 110V /220V~
MS-NRC-3001	MS Reciprocal anti-moistured shaker with 300x300mm platform and flat non-slip rubber mat, 110V/220V~
MS-NRK-30	MS Rocking Shaker with 300x300mm platform and flat non-slip rubber mat, 110V /220V~
MS-NRK-3001	MS Rocking anti-moistured shaker with 300x300mm platform and flat non-slip rubber mat, 110V/220V~

Accessories

Cat. No.	Product Description
MW-SP	Strip springs (pack of 2), 265mm
MS-P3030	Additional 300x300mm platform with attachable 100mm pillars 8pcs and flat non-slip rubber mat
MS-DIMPLED-30	300x300mm dimpled mat
MS-FLAT-30	Non-slip rubber mat 300x300mm
MS-UP-30	Universal adjustable platform, 300x300mm (Maximum capacity: 2x2L flasks)
PPL-04-SI-SI-200-3	Sticky Pad 200x200mm
SI-200-08	Flask Holder, 50ml
SI-200-09	Flask Holder, 125ml
SI-200-10	Flask Holder, 250ml
SI-200-11	Flask Holder, 500ml
SI-200-12	Flask Holder, 1000ml
SI-200-13	Flask Holder, 2000ml



MW-SP



MS-P3030



MS-DIMPLED-30



MS-FLAT-30



MS-UP-30



PPL-04-SI-SI-200-3



50~2000ml flask holder
SI-200-08~13

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