



2016 Catalogue

 **major
science**
Innovative Life Sciences Tools
Incubator

MS Hybridization Shaking Oven

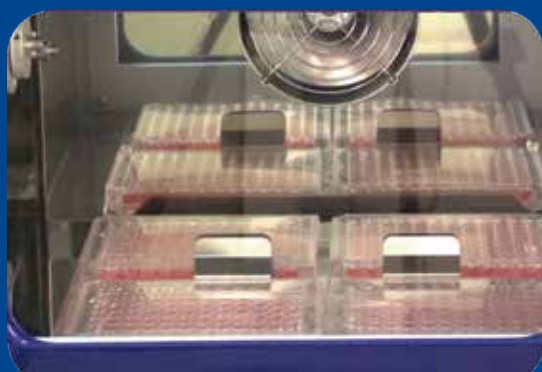
MO-AOR

MO-ARC

MO-AVT

The MS Hybridization Shaking Oven series is the advanced and newly renovated version of MS incubators. It comes with a fashionable front door design and touch screen interface. With excellent temperature accuracy and uniformity, users are able to perform temperature controlled mixing or reaction precisely.

The units are all equipped with built-in rotisserie function and select shaker motions: orbital/reciprocal/vortex. MS Oven series is ideal for nucleic acid hybridization and incubation such as Southern, Northern, and Western blot. Full accessories are also available upon request to meet different applications.



Features

- 3.5" Large display touch screen & graphical control interface
- User temperature calibration
- Broad temperature control range
- Timer with alarm function
- Safety device in the event of system malfunction
- Safety door switch device
- Full accessories available



MO-AOR



MO-ARC



MO-AVT



FC CE



Stackable design

Specification

Cat. No.	MO-AOR	MO-ARC	MO-AVT
Display	3.5" 64K TFT display		
Controller	32-bits Microprocessor		
Control interface	Touch screen & graphical interface		
Rotisserie function	Yes		
Rotisserie speed / Inc.	5-100rpm / 1rpm		
Timer	9999 (min) with alarm / Continuous		
Shaker motion	Orbital clockwise / counterclockwise	Reciprocal	Vortex motion
Shaker speed	0-200rpm	5-100rpm	50-1500rpm
Temperature control range	Ambient +5°C to 85°C		
Temperature increment	0.1°C		
Temperature uniformity	± 0.2°C at 37°C		
Temperature accuracy	± 0.2°C at 37°C		
User temperature calibration	Yes		
Inner chamber dimensions	(WxLxH) 13.39"x8.86"x10.24" (340x225x260mm)		
Inner chamber volume	Approx. 5.28gal:1 (20L)		
Dimension	(WxLxH) 17.4"x18.19"x17.8" (442x462x452mm)		
Platform	(WxL) 10.63"x7.87" (270x200mm)		
Data logging	RS-232		
Weight	Approx. 63.9lb (29kg)		
Rated voltage	110V / 220V~ 50 / 60Hz (selectable)		
Construction	Painted iron metal with ABS front door		
Safety device	Safety door switch		
	Thermal safety switch		
	Auto shut off upon fan failure		
	Power failure auto recovery		

Ordering Information

Cat. No	Product Description
MO-AOR	MS Hybridization Shaking Oven, Orbital (w/o rotisserie), 110 / 220V
MO-ARC	MS Hybridization Shaking Oven, Reciprocal (w/o rotisserie), 110 / 220V
MO-AVT	MS Hybridization Shaking Oven, Vortex (w/o rotisserie), 110 / 220V

Accessories

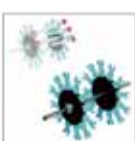
Cat. No	Product Description
MO-HY-8RT	40mm rotisserie for 8 tubes
MO-HY-16RT	50ml conical tube rotisserie for 16 tubes
MO-HY-24RT	15ml conical tube rotisserie for 24 tubes
MO-P2320	Additional 23x20cm platform for orbital and reciprocal shaker (with 4 of 10cm pillars)
MO-FH-125	1x125ml flask holder without platform
MO-FH-250	1x250ml flask holder without platform
MO-FH-500	1x500ml flask holder without platform
MO-FH-125-SET	8x125ml flask holders without platform (only for MO-AOR series / MO-ARC)
MO-FH-250-SET	5x250ml flask holders without platform (only for MO-AOR series / MO-ARC)
MO-FH-500-SET	4x500ml flask holders without platform (only for MO-AOR series/ MO-ARC)
MO-BT40x150	Glass tube 40x150mm (diameter x length)
MO-BT40x200	Glass tube 40x200mm (diameter x length)
MO-BT40x300	Glass tube 40x300mm (diameter x length)



MO-HY-8RT



MO-HY-16RT



MO-HY-24RT



MO-P2320



MO-FH-250-SET



MO-FH-500-SET



MO-BT series

MS Oven

MO-A01

MO-AOR-02

MO-ARK

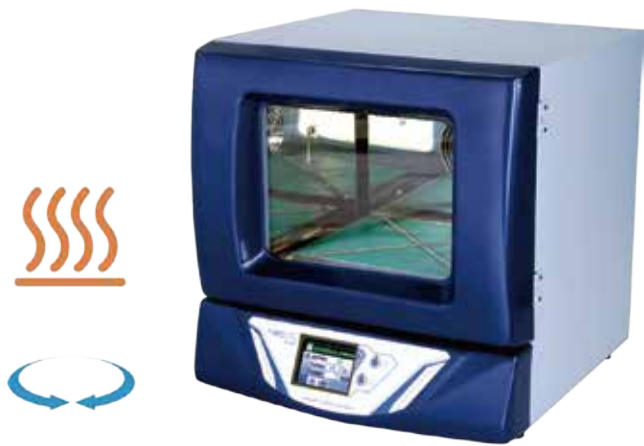
Major Science's Oven incubators feature a broad thermostatic control range and precise temperature uniformity to fulfil a variety of cell culturing and hematology applications. The compact size and stackable designs save valuable lab space and maximize productivity. The build-in color touch-screen provides hassle-free system operation and instant glance over experiments. With implemented safety features, the powerful MS Oven incubators assure a safe environment to the users as well as samples. Moreover, orbital shaking platform and rotisserie module are available in the select models to further save lab space and enhance productivity.



Touch screen & graphical control interface

Features

- Large color touch screen: 3.5" color display
- Touch-screen operation
- Temperature uniformity and accuracy: $\pm 0.2^{\circ}\text{C}$ at 37°C
- Broad temperature control range: ambient $+5^{\circ}\text{C}$ to 85°C
- User temperature calibration
- Timer with alarm function
- Safety door switch, thermal safety switch
- Power failure auto recovery
- Sturdy, stackable construction



MO-AOR-02

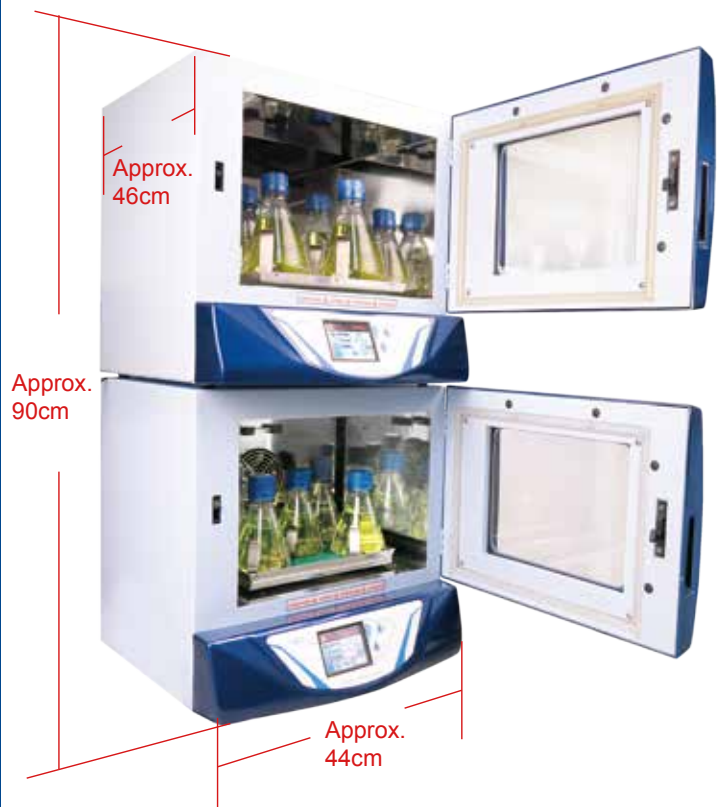


MO-A01

MO-ARK

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

FC CE



Incubator

Specification

Cat. No.	MO-A01	MO-AOR-02	MO-ARK
Display	3.5" 64K color TFT display		
Controller	32-bits Microprocessor		
Control interface	Touch screen & graphical interface		
Rotisserie function	N/A		Yes
Rotisserie speed / Inc.	N/A		5-100rpm / 1rpm
Timer	9999 (min) with alarm / Continuous		
Shaker motion	N/A	Orbital clockwise / counterclockwise	Rocking*
Shaker speed	N/A	0-200rpm	5-100rpm
Temperature control range	Ambient +5°C to 85°C		
Temperature increment	0.1°C		
Temperature uniformity	± 0.2°C at 37°C		
Temperature accuracy	± 0.2°C at 37°C		
User temperature calibration	Yes		
Inner chamber dimensions	(WxLxH) 13.39"x8.86"x10.24" (340x225x260mm)		
Inner chamber volume	Approx. 5.28gal (20L)		
Dimension	(WxLxH) 17.4"x18.19"x17.8" (442x462x452mm)		
Platform	N/A	(WxL) 10.63"x7.87" (270x200mm)	
Data logging	RS-232		
Weight	Approx. 52.9lb (24kg)	Approx. 55.1lb (25kg)	Approx. 63.9lb (29kg)
Rated voltage	110 / 220V~ 50 / 60Hz (Selectable)		
Construction	Painted iron metal with ABS front door		
Safety device	Safety door switch		
	Thermal safety switch		
	Auto shut off upon fan failure		
	Power failure auto recovery		

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

Ordering Information

Cat. No	Product Description
MO-A01	Hybridization Oven with 2 layers of stainless steel mesh plates and 8 plate holders
MO-AOR-02	MS Orbital Shaking Oven, without rotisserie structure
MO-ARK	MS Hybridization Oven (w/o rotisserie & rocking shaker), 110 / 220V

Accessories

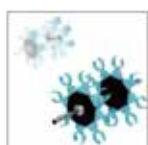
Cat. No	Product Description
MO-01-PF	1 layer of stainless steel mesh plate with 4 plate holders
MO-HY-8RT	40mm rotisserie for 8 tubes
MO-HY-16RT	50ml conical tube rotisserie for 16 tubes
MO-HY-24RT	15ml conical tube rotisserie for 24 tubes
MO-P2320	Additional 23x20cm platform for orbital and reciprocal shaker (with 4 of 10cm pillars)
MO-FH-125	1x125ml flask holder without platform
MO-FH-250	1x250ml flask holder without platform
MO-FH-500	1x500ml flask holder without platform
MO-FH-125-SET	8x125ml flask holders without platform
MO-FH-250-SET	5x250ml flask holders without platform
MO-FH-500-SET	4x500ml flask holders without platform
MO-BT40x150	Glass tube 40x150mm (diameter x length)
MO-BT40x200	Glass tube 40x200mm (diameter x length)
MO-BT40x300	Glass tube 40x300mm (diameter x length)



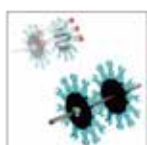
MO-01-PF



MO-HY-8RT



MO-HY-16RT



MO-HY-24RT



MO-SEESAW



MO-P2320



MO-FH-250-SET



MO-FH-500-SET



MO-BT series



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