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## Stackable Incubated Shaker

This series shaking incubator can be stacked up to three units high, providing laboratory professionals tripled culture capacity, while still only occupying the same footprint of a single shaker. All models feature an insulated, fold-down door with glass window for high visibility.

## Big Capacity Stackable Incubated and Refrigerated Shaker



### Features

1. Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products.
2. LCD Touch Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
3. Single unit is controlled separately, and each unit can work at different temperature and speed.
4. Robust servo motor enables shaking motion quiet and smooth.
5. PLC Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
6. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
7. USB port for easy data transfer.
8. Password protection against unauthorized change of parameters.
9. UV light sterilization.
10. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
11. Triple-eccentric orbital drive ensuring smooth running.
12. Drive interrupt halts shaking action when door was opened.
13. The incubator casing is made of heavy-gauge cold-rolled steel, together with high graded #304 stainless steel inner chambers with coved corners make it easy to clean with mild detergent.

## Specifications

Product	Double Stack Shaking Incubator	Triple Stack Shaking Incubator
Model	MQD-B2R	MQD-B3R
Shaking Speed(rpm)	10-300	10-300
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	Ambient-15-60(15 below Ambient )	Ambient-15-60(15 below Ambient )
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C	+/-1@37°C
Control Panel	LCD Touch Screen	LCD Touch Screen
Air Convection	Forced	Forced
Control	PLC Micro-computer	PLC Microcomputer
Capacity	2x250mlx60 or 2x500mlx40 or 2x1000mlx24 or 2x2000mlx15	3x250mlx60 or 3x500mlx40 or 3x1000mlx24 or 3x2000mlx15
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	890 X 535, 2 trays	890 X 535, 3 trays
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W1400 X D847 X H1210	W1400 X D847 X H1794
Net Weight(kg)	460	690
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Ordering Information

Model	Descriptions
MQD-B2R	Double 2 X 890 X 535mm, Ambient -15-60°C , 10-300rpm
MQD-B3R	Triple 3 X 890 X 535mm, Ambient -15-60°C , 10-300rpm

## Small Capacity Stackable Incubated and Refrigerated Shaker



### Features

1. Single layer is controlled separately, and each layer can work at different temperature and speed.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
5. UV light sterilization.
6. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
7. Password protection against unauthorized change of parameters.
8. Triple-eccentric orbital drive ensuring smooth running.
9. Drive interrupt halts shaking action when door was opened.

## Specifications

Product	Double Stack Shaking Incubator	Triple Stack Shaking Incubator
Model	MQD-S2R	MQD-S3R
Shaking Speed(rpm)	30-350	30-350
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	4-60(15 below Ambient)	4-60(15 below Ambient)
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C	+/-1@37°C
Control Panel	LCD	LCD
Air Convection	Forced	Forced
Control	PID Micro-computer	PID Microcomputer
Capacity	2x250mlx24 or 2x500mlx15 or 2x1000mlx12 or 2x2000mlx6	3x250mlx24 or 3x500mlx15 or 3x1000mlx12 or 3x2000mlx6
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	524 X 412, 2 trays	524 X 412, 3 trays
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W899 X D712 X H1168	W899 X D712 X H1717
Net Weight(kg)	230	345
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Ordering Information

Model	Descriptions
MQD-S2R	Double 2 X 524 X 412mm, 4-60°C, 30-350rpm
MQD-S3R	Triple 3 X 524 X 412mm, 4-60°C, 30-350rpm

## High Precision Stackable Incubated and Refrigerated Shaker



### Features

1. Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products.
2. LCD Touch Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
3. Single unit is controlled separately, and each unit can work at different temperature and speed.
4. Robust servo motor enables shaking motion quiet and smooth.
5. PLC Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
6. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
7. USB port for easy data transfer.
8. Password protection against unauthorized change of parameters.
9. UV light sterilization.
10. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
11. The incubator casing is made of heavy-gauge cold-rolled steel, together with high graded #304 stainless steel inner chambers with coved corners make it easy to clean with mild detergent.
12. Triple-eccentric orbital drive ensuring smooth running.
13. Drive interrupt halts shaking action when door was opened.

## Specifications

Product	Double Stack Shaking Incubator	Triple Stack Shaking Incubator
Model	MQD-A2R	MQD-A3R
Shaking Speed(rpm)	10-300	10-300
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	Ambient-15-60(15 below Ambient )	Ambient-15-60(15 below Ambient )
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-0.3@37°C	+/-0.3@37°C
Control Panel	LCD Touch Screen	LCD Touch Screen
Air Convection	Forced	Forced
Control	PLC Micro-computer	PLC Microcomputer
Capacity	2x250mlx45 or 2x500mlx28 or 2x1000mlx15 or 2x2000mlx11	3x250mlx45 or 3x500mlx28 or 3x1000mlx15 or 3x2000mlx11
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	830 X 450, 2 trays	830 X 450, 3 trays
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W1119 X D910 X H1164	W1119 X D910 X H1701
Net Weight(kg)	400	580
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Ordering Information

Model	Descriptions
MQD-A2R	Double 2 X 830X 450mm, Ambient -15-60°C, 10-300rpm
MQD-A3R	Triple 3 X 830 X 450mm, Ambient -15-60°C, 10-300rpm

## CO<sub>2</sub> Stackable Incubated and Refrigerated Shaker

This series shaking incubators are the perfect solution for a wide variety of applications from culturing to hybridizations. Stackable units have been designed especially for research labs and facilities that are looking for large capacity instruments, but lack the space to accommodate the large floor model shakers. This instrument is manufactured with 304 stainless steel, a crevice-free interior, and a built in drain.



### Features

1. Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products.
2. LCD Touch Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
3. Single unit is controlled separately, and each unit can work at different temperature and speed.
4. Robust servo motor enables shaking motion quiet and smooth.
5. PLC Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
6. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
7. Equipped with 2 control valves for charging CO<sub>2</sub>, one is rapid another is slow, which enable to control its volume speedy and stable and to extend its use time .
8. Password protection against unauthorized change of parameters.
9. UV light sterilization.
10. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
11. Infrared heating tube ensures speedy heating.
12. Equipped with imported high precision CO<sub>2</sub> sensor which can control its concentration automatically.
13. Triple-eccentric orbital drive ensuring smooth running.
14. Drive interrupt halts shaking action when door was opened.



### Specifications

Product	Single CO <sub>2</sub> Stack Shaking Incubator	Double CO <sub>2</sub> Stack Shaking Incubator	Triple CO <sub>2</sub> Stack Shaking Incubator
Model	MQD-A1Cell	MQD-A2Cell	MQD-A3Cell
Shaking Speed(rpm)	10-300		
Shaking Speed Accuracy(rpm)	+/-1		
Stroke(mm)	Ø50		
Temperature Range(°C)	4-60		
Temperature Accuracy(°C)	+/-0.1		
Temperature Uniformity(°C)	+/-0.3@37°C		
Control Panel	LCD Touch Screen		
Air Convection	Forced		
Control	PLC Micro-computer		
Capacity	250ml x 45 or 500ml x 28 or 1000ml x 15 or 2000ml x 11		
Timer(Hour)	0-999.9		
Tray(mm)	829 X 449		
Standard Accessories	Universal Clamp		
Electricity	AC110V-220V 60HZ/50HZ		
Exterior Dimensions(mm)	W1119 X D910 X H620	W1119 X D910 X H1164	W1119 X D910 X H1701
Net Weight(kg)	220	400	580
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .		

### Ordering Information

Model	Descriptions
MQD-A1Cell	Single 829 X 449mm, 4-60°C, 10-300rpm
MQD-A2Cell	Double 2 X 829 X 449mm, 4-60°C, 10-300rpm
MQD-A3Cell	Triple 3 X 829 X 449mm, 4-60°C, 10-300rpm

## Stackable Refrigerated Illuminated Incubated Shaker



### Features

1. Wide-view fold-down door with door handle, and ergonomic sliding-out shaking platform provide convenient access to your experiment products.
2. LCD Touch Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
3. Single unit is controlled separately, and each unit can work at different temperature and speed.
4. Robust servo motor enables shaking motion quiet and smooth.
5. PLC Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
6. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
7. Password protection against unauthorized change of parameters.
8. UV light sterilization.
9. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
10. Triple-eccentric orbital drive ensuring smooth running.
11. Drive interrupt halts shaking action when door was opened.

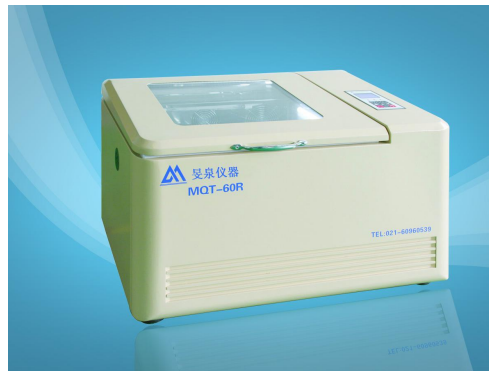
## Specifications

Product	Double Stack Shaking Incubator	Triple Stack Shaking Incubator
Model	MQD-B2G	MQD-B3G
Shaking Speed(rpm)	10-300	
Shaking Speed Accuracy(rpm)	+/-1	
Stroke(mm)	φ26	
Temperature Range(°C)	4-60(15 below Ambient)	
Temperature Accuracy(°C)	+/-0.1	
Temperature Uniformity(°C)	+/-1@37°C	
Control Panel	LCD Touch Screen	
Air Convection	Forced	
Control	PLC Micro-computer	
Illumination	0-16000LX adjustable (Standard) 0-30000LX adjustable (Optional)	
Capacity	250mlx60 or 500mlx40 or 1000mlx24 or 2000mlx15	
Timer(Hour)	0-999.9	
Tray(mm)	890 X 535	
Standard Accessories	Universal Clamp	
Electricity	AC110V-220V 60HZ/50HZ	
Exterior Dimensions(mm)	W1400 X D847 X H1210	
Net Weight(kg)	500	700
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Ordering Information

Model	Descriptions
MQD-B2G	Double 2 X 890 X 535mm, 4-60°C, 10-300rpm
MQD-B3G	Triple 3 X 890 X 535mm, 4-60°C, 10-300rpm

## Benchtop Constant Temperature Incubated Shaker



### Features

1. LCD Back-light Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time(MQT-60R).
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Triple-eccentric orbital drive.
8. Drive interrupt halts shaking action when door was opened.

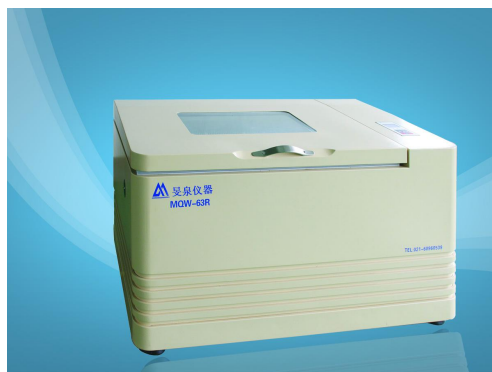
### Ordering Information

Model	Descriptions
MQT-50	Ambient +5-60°C, 30-300rpm
MQT-60	Ambient +5-60°C, 30-400rpm
MQT-60R	Ambient -15-60°C, 30-400rpm

## Specifications

Product	Small Shaking Incubator	Benchtop Shaking Incubator	Benchtop Shaking Incubator
Model	MQT-50	MQT-60	MQT-60R
Shaking Speed(rpm)	30-300	30-400	30-400
Shaking Speed Accuracy(rpm)	+/-1		
Stroke(mm)	Φ26		
Temperature Range(°C)	Ambient+5-60	Ambient+5-60	4-60(15 below Ambient)
Temperature Accuracy(°C)	+/-0.1		
Temperature Uniformity(°C)	+/-1@37°C		
Control Panel	LCD		
Air Convection	Forced		
Control	PID Micro-computer		
Capacity	250ml x 12 or 500ml x 9 or 1000ml x 4	250ml x 30 or 500ml x 20 or 1000ml x 12 or 2000ml x 6	250ml x 30 or 500ml x 20 or 1000ml x 12 or 2000ml x 6
Timer(Hour)	0-999.9		
Tray(mm)	344 x 307	518 x 434	518 x 434
Standard Accessories	Universal Clamp		
Electricity	AC110V-220V 60HZ/50HZ		
Exterior Dimensions(mm)	W480 X D638 X H591	W848 X D657 X H559	W848 X D657 X H559
Net Weight(kg)	65	80	90
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .		

## Horizontal Incubated Shaker



### Features

1. LCD Back-light Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time(MQW-63R).
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Triple-eccentric orbital drive.
8. Drive interrupt halts shaking action when door was opened.

### Ordering Information

Model	Descriptions
MQW-63	Ambient +5-60℃, 30-300rpm
MQW-63R	Ambient -15-60℃, 30-300rpm

## Specifications

Product	Horizontal Shaking Incubator	Horizontal Shaking Incubator
Model	MQW-63	MQW-63R
Shaking Speed(rpm)	30-300	30-300
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	Ambient+5-60	4-60(Ambient-15)
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C	+/-1@37°C
Control Panel	LCD	LCD
Air Convection	Forced	Forced
Control	PID Micro-computer	PID Micro-computer
Capacity	250ml x 60 or 500ml x 40 or 1000ml x 24 or 2000ml x 15 or 3000ml x 11 or 5000ml x 6	250ml x 60 or 500ml x 40 or 1000ml x 24 or 2000ml x 15 or 3000ml x 11 or 5000ml x 6
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	905 x 530	905 x 530
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W1331 X D755 X H710	W1331 X D755 X H710
Net Weight(kg)	160	180
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Vertical Incubated Shaker



### Features

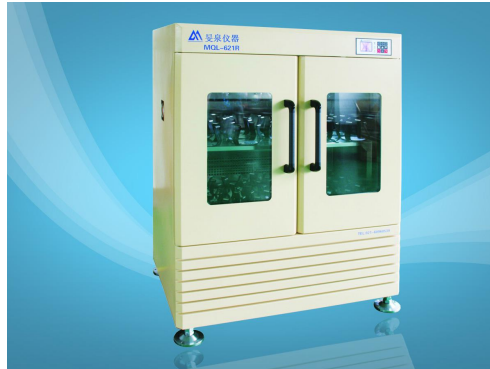
1. LCD Back-light Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time(MQL-61R).
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Triple-eccentric orbital drive.
8. Drive interrupt halts shaking action when door was opened.



## Specifications

Product	Vertical Shaking Incubator	Vertical Shaking Incubator
Model	MQL-61	MQL-61R
Shaking Speed(rpm)	30-300	30-300
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	Ambient+5-60	4-60(Ambient-15)
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C	+/-1@37°C
Control Panel	LCD	LCD
Air Convection	Forced	Forced
Control	PID Micro-computer	PID Micro-computer
Capacity	2 x 250ml x 25 or 2 x 500ml x 16 or 2 x 1000ml x 9	2 x 250ml x 25 or 2 x 500ml x 16 or 2 x 1000ml x 9
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	485 x 485	485 x 485
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W687 X D733 X H1229	W687 X D733 X H1229
Net Weight(kg)	145	185
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Vertical Incubated Shaker Big Capacity



### Features

1. LCD Back-light Screen panel clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time(MQL-621R).
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Triple-eccentric orbital drive.
8. Drive interrupt halts shaking action when door was opened.

## Specifications

Product	Vertical Shaking Incubator	Vertical Shaking Incubator
Model	MQL-621	MQL-621R
Shaking Speed(rpm)	30-300	30-300
Shaking Speed Accuracy(rpm)	+/-1	+/-1
Stroke(mm)	φ26	φ26
Temperature Range(°C)	Ambient+5-60	4-60(Ambient-15)
Temperature Accuracy(°C)	+/-0.1	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C	+/-1@37°C
Control Panel	LCD	LCD
Air Convection	Forced	Forced
Control	PID Micro-computer	PID Micro-computer
Capacity	2 x 250ml x 50 or 2 x 500ml x 32 or 2 x 1000ml x 18 or 2000ml x 11	2 x 250ml x 50 or 2 x 500ml x 32 or 2 x 1000ml x 18 or 2000ml x 11
Timer(Hour)	0-999.9	0-999.9
Tray(mm)	881 x 455	881 x 455
Standard Accessories	Universal Clamp	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W1067 X D755 X H1428	W1067 X D755 X H1428
Net Weight(kg)	250	270
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .	

## Vertical Refrigerated Illuminated Incubated Shaker



### Features

1. LCD touch screen clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
8. Triple-eccentric orbital drive ensuring smooth running.
9. Drive interrupt halts shaking action when door was opened.
10. Light timer can create custom illumination mode, such as illumination work from Monday to Friday, or work daytime only.

## Specifications

Product	Vertical Shaking Incubator
Model	MQL-61G
Shaking Speed(rpm)	30-300
Shaking Speed Accuracy(rpm)	+/-1
Stroke(mm)	φ26
Temperature Range(°C)	4-60(15 Below Ambient)
Temperature Accuracy(°C)	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C
Control Panel	LCD Touch Screen
Air Convection	Forced
Control	PID Micro-computer
Illumination	0-16000LX adjustable (Standard) 0-30000LX adjustable (Optional)
Capacity	2 x 250ml x 25 or 2 x 500ml x 16 or 2 x 1000ml x 9
Timer(Hour)	0-999.9
Tray(mm)	485 x 485
Standard Accessories	2 x 500 x 16 Clamp (Universal Clamp Optional)
Electricity	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W687 X D733 X H1229
Net Weight(kg)	175
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .

## Horizontal Refrigerated Illuminated Incubated Shaker



### Features

1. LCD clearly indicates all parameters in one page display and enables all complicated program settings intuitively just with finger tips, such as temperature, shaking speeds/mode, timer /time accumulation, fan continuously or automatically moves the air across the incubator.
2. Robust servo motor enables shaking motion quiet and smooth.
3. PID Micro-computer ensures the actual temperature remains stable and precise and enables Programmable control.
4. Imported compressor and Fluorine free environmental protection refrigerant ensures the equipment can work stably at low temperature long time.
5. Password protection against unauthorized change of parameters.
6. UV light sterilization.
7. Breathable holes are arranged on side of the equipment to satisfy sample's requirement of oxygen.
8. Triple-eccentric orbital drive ensuring smooth running.
9. Drive interrupt halts shaking action when door was opened.
10. Light timer can create custom illumination mode, such as illumination work from Monday to Friday, or work daytime only.

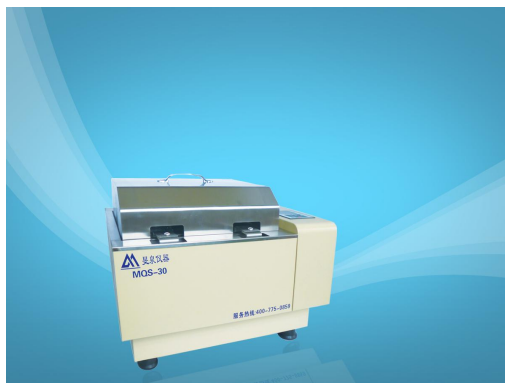
## Specifications

Product	Horizontal Shaking Incubator
Model	MQL-63G
Shaking Speed(rpm)	30-300
Shaking Speed Accuracy(rpm)	+/-1
Stroke(mm)	φ26
Temperature Range(°C)	4-60(15 Below Ambient)
Temperature Accuracy(°C)	+/-0.1
Temperature Uniformity(°C)	+/-1@37°C
Control Panel	LCD
Air Convection	Forced
Control	PID Micro-computer
Illumination	0-16000LX adjustable (Standard) 0-30000LX adjustable (Optional)
Capacity	250ml x 60 or 500ml x 40 or 1000ml x 24 or 2000ml x 15 or 3000ml x 11 or 5000ml x 8
Timer(Hour)	0-999.9
Tray(mm)	905 x 530
Standard Accessories	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W1331 X D755 X H710
Net Weight(kg)	180
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .

## Shaking Water Bath

Shaking Water Baths (also known as Reciprocating Water Baths), are designed to handle a wide variety of applications. These baths can be used effectively in molecular biology protocols (such as hybridization), bacterial culturing, as well as in solubility and metabolism studies.

Shaking Water Bath Applications Hybridization Applications, Cell Cultures, Cell Aeration, Increasing Solubility Rates, Molecular Biology Assays, Bacterial Cultures.



### Features

1. PID Micro-computer ensures the actual temperature remains stable and precise.
2. Triple-eccentric orbital drive ensuring smooth running.
3. Robust servo motor enables shaking motion quiet and smooth.

### Specifications

Product	Shaking Water Bath
Model	MQS-30
Shaking Speed(rpm)	20-280
Shaking Speed Accuracy(rpm)	+/-1
Stroke(mm)	φ26
Temperature Range(°C)	Ambient-99.9
Temperature Accuracy(°C)	+/-0.1
Temperature Uniformity(°C)	+/-0.2@37°C
Control Panel	LCD
Air Convection	Forced
Control	PID Micro-computer
Capacity	250ml x 12 or 500ml x 8 or 1000ml x 4
Timer(Hour)	0-999.9
Tray(mm)	402 x 307
Standard Accessories	Universal Clamp
Electricity	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W691 X D553 X H496
Net Weight(kg)	65
Security	Over-Temperature Alarm, Power Off at Abnormal Condition, All set points are retained by non-volatile memory that automatically reactivates after power is restored .



## Open-Air Shakers

When built-in temperature control is not needed, open-air shakers are the solution. This series are simple to operate and cost-effective, which can be widely used for education, medical treatment, pharmaceutical industries, petrol & chemical, and etc.

## Open-Air Platform Shakers



### Features

1. LCD Back-light Screen display parameter settings which is easy to operate.
2. Triple-eccentric orbital drive ensuring smooth running.
3. Platform and clamps are made of stainless steel which are easy to clean and anti-corrosion.
4. Robust servo motor enables shaking motion quiet and smooth.

### Specifications

Product	Open-Air Platform Shakers
Model	MQZ-50
Shaking Speed(rpm)	30-300
Shaking Speed Accuracy(rpm)	+/-1
Stroke(mm)	φ26
Control Panel	LCD
Capacity	250ml x 16 or 500ml x 12 or 1000ml x 8 or 2000ml x 4
Timer(Hour)	0-999.9
Platform Size(mm)	420 x 374
Standard Accessory	250 x 30 Clamp
Electricity	AC110V-220V 60HZ/50HZ
Exterior Dimensions(mm)	W550 X D550 X H202
Net Weight(kg)	30

## Open-Air Floor Type Shakers



### Features

4. LCD Back-light Screen display parameter settings which is easy to operate.
5. Triple-eccentric orbital drive ensuring smooth running.
6. Platform and clamps are made of stainless steel which are easy to clean and anti-corrosion.
5. Robust servo motor enables shaking motion quiet and smooth.

### Specifications

Product	Open-Air Shakers	
Model	MQZ-631	MQZ-632(Double layers)
Shaking Speed(rpm)	30-300	
Shaking Speed Accuracy(rpm)	+/-1	
Stroke(mm)	φ26	
Control Panel	LCD	
Capacity	250ml x 16 or 500ml x 12 or 1000ml x 8 or 2000ml x 4	
Timer(Hour)	0-999.9	
Platform Size(mm)	1003 x 592	910 x 571
Standard Accessory	500ml x 40 Clamp	500ml x 40 Clamp
Electricity	AC110V-220V 60HZ/50HZ	
Exterior Dimensions(mm)	W1003 X D670 X H658	W1003 X D670 X H314
Net Weight(kg)	140	170