Incubator Shakers IS-3600R, 220V/50Hz



The IS-3600R Incubator Shaker provide orbital/reciprocating shaking function, adjustable shaking speed and timer function for maximum flexibility.

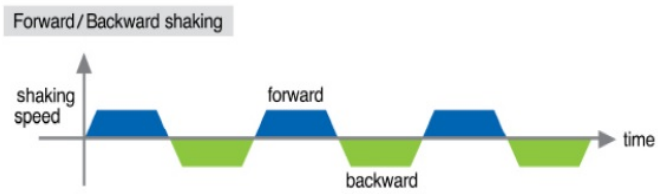
Iris incubator shakers feature a rectangular platform that moves in a circular motion to aerate samples. Additional features for all of these units include intuitive controls with a digital display, a robust construction in a compact, space-saving design and smooth running conditions with variable speeds. Our laboratory shakers allow for safe, efficient and easy-to-use operation while reproducing accurate, controlled speeds with every use.

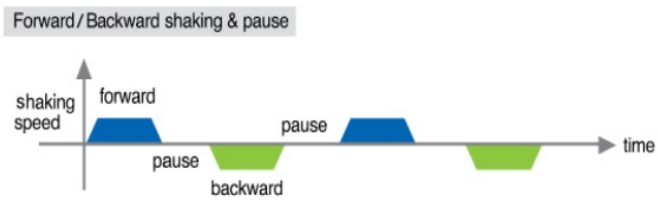
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- Applicable for fermentation processes with high demands on the precision of the shaking frequency, bacteria incubation, hybridization, life science, pharmacy, medical science, food industry, chemistry, biology, and other laboratory environments
- Orbital and reciprocate shaking functions
- Setting of the orbital shaking method (clock-wise or counter clock-wise), stopping behaviour, and operation time
- Intelligent control system, which maintains the operation speed and adjusts to load changes
- PID controller for temperature stability and safety protection
- Very good heating characteristics
- Ecologically friendly
- Easy to clean
- Shaking throw and speed adjustable
- Circulation process automatically stops upon opening the door
- In case of temperature overshooting an alarm sound is triggered and heating is cut off
- For the case of an unexpected power breakdown the incubator offers two working options: Automatic re- operation and automatic stop
- Broad range of available accessories

Multi-function Shaking System:

The IS-3600R incubator shaker's intensive multifunction shaking system surpasses all previous levels of experience! You can multi-set the shaking motions in many ways of Forward/ Backward/ Pause/ Mix & match upon your various laboratory purpose.





Technical Specification:

Model	IS-3600R
Display and Control	LED Digital Display / On-Touch Control
Vibration Style	Reciprocating / Orbital
Speed Adjustment Steps (rpm)	± 1 rpm
Platform Size (mm)	410 x 410 mm
Capacity (liters)	83L
Temperature Range (℃)	Ambient +5℃ ~ 60°C
Temperature Accuracy (℃)	±0.1℃ (38℃)
Temperature Stability (℃)	±1.0℃ (38℃)
Temperature Uniformity (℃)	±1.0℃ (38℃)
Temperature Fluctuation (℃)	±1.0℃ (38℃)
Temperature Setting	Digital
Temperature Controller	Touch Control; Digital Display with PID automatic regulation
Temperature Display	Digital
Shaker Controller	Microprocessor Digital LED
Shaker Power Unit	Brushless motor
Shaking Methods	Clockwise, Counter-clockwise, forth-back, interrupted
Shaking Throw (mm)	20, 30 (standard), 40
Speed Accuracy (rpm)	±1rpm (at 150rpm)
Speed Fluctuation (rpm)	±1rpm (at 150rpm)
Speed Setting	Digital
Speed Controller	Microprocessor Controlled Digital
Speed Display	Digital
Shaking Plate	410 x 410 mm
Max. Load (kg)	15kg
Inside Dimension (WxDxH) mm	510 x 510 x 320 mm
Timer	Start / Stop / Duration setting; 10sec ~999hr 59min 59sec
Refrigeration System	Peltier Refrigeration System
Heating System	Heating Plate, 600W
Material	Base: Stainless Steel; Working Plate: Aluminium
External Dimensions (WxDxH) mm	540 x 850 x 625 mm
Net Weight (kg)	91kg
Electrical Requirements	220V/50Hz
Catalogue No.	5402515-2

Technical Data:

Model	IS-3300		IS-3300R		IS-3600		IS-3600R	
Volume (L)	53		53		83		83	
Temperature Range (?)	Ambient +5 ~ 60°C		15 - 60°C		Ambient +5 ~ 60°C		15 - 60°C	
Temperature Accuracy (?)	±0.1 (38?)		±0.1 (38?)		±0.1 (38?)		±0.1 (38?)	
Temperature Stability (?)	±1.0 (38?)		±1.0 (38?)		±1.0 (38?)		±1.0 (38?)	
Temperature Controller	Touch Control; Digital Display with PID automatic regulation		Touch Control; Digital Display with PID automatic regulation		Touch Control; Digital Display with PID automatic regulation		Touch Control; Digital Display with PID automatic regulation	
Temperature Heater	Heating Plate, 600W		Heating Plate, 600W		Heating Plate, 600W		Heating Plate, 600W	
Temperature Timer	Start / Stop / Duration setting; 10sec ~999hr 59min 59sec		Start / Stop / Duration setting; 10sec ~999hr 59min 59sec		Start / Stop / Duration setting; 10sec ~999hr 59min 59sec		Start / Stop / Duration setting; 10sec ~999hr 59min 59sec	
Shaker Controller	PID automatic regulation		PID automatic regulation		PID automatic regulation		PID automatic regulation	
Shaker Power Unit	Brushless motor		Brushless motor		Brushless motor		Brushless motor	
Shaker Methods	Clockwise, Counter-clockwise, forth-back, interrupted,		Clockwise, Counter-clockwise, forth-back, interrupted,		Clockwise, Counter-clockwise, forth-back, interrupted,		Clockwise, Counter-clockwise, forth-back, interrupted,	
Shaker Shaking Throw (mm)	20, 30 (standard), 40		20, 30 (standard), 40		20, 30 (standard), 40		20, 30 (standard), 40	
Shaker Speed (rpm)	10?300		10?300		10?300		10?300	
Shaker Stability (rpm)	±1 (150rpm)		±1 (150rpm)		±1 (150rpm)		±1 (150rpm)	
Platform Dimensions (W × D in mm)	330 x 330		330 x 330		410 x 410		410 x 410	
Inside Dimensions (W × D × H in mm)	410 x 410 x 320		410 x 410 x 320		510 x 510 x 320		510 x 510 x 320	
Outside Dimensions (W × D × H in mm)	440 x 740 x 625		440 x 740 x 625		540 x 850 x 625		540 x 850 x 625	
Max. Load (kg)	10		10		15		15	
Net Weight (kg)	74		85		91		102	
Gross Weight (kg)								
Shipping Weight (kg)								
Shipping Dimensions (mm)								
Electrical Requirements	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	54025051	54025052	54025101	54025102	54025151	54025152	54025201	54025202

Accessories:

<table>
<tr><th>Model</th><th>Image</th><th>Name</th><th>Details</th></tr>
<tr><td>54001A02</td><td></td><td>Sticky Plate 350 x 350 mm</td><td>The Sticky Plate can be loaded with any kind of vessel with a smooth base. Even at a speed of up to 350rpm the vessel sticks to the plate. Other vessels, like e.g. microtitre plates can be shaken on the Sticky Plate as well. However, only up to a speed of 220 rpm</td></tr>
<tr><td>54002A02</td><td></td><td>Universal Trays 350 x 350 mm</td><td>The Universal Trays employ a drilled grid for individual loadings of test tube holders, microtitre plates, and deep well plates.
<table>
<tr><th>Suitable for</th><th>OS-3050</th><th>OS-3100</th><th>OS-3150</th><th>OS-3200</th></tr>
<tr><td>Dimensions (W × D in mm)</td><td>320 x 260</td><td>350 x 350</td><td>450 x 450</td><td>755 x 481</td></tr>
<tr><td colspan="5">Max. Load of Beaker Holders (kg)</td></tr>
<tr><td>Beaker Volume</td><td></td><td></td><td></td><td></td></tr>
<tr><td>50 ml</td><td>21</td><td>36</td><td>55</td><td>99</td></tr>
<tr><td>100 ml</td><td>14</td><td>28</td><td>44</td><td>74</td></tr>
<tr><td>250 ml</td><td>8</td><td>13</td><td>24</td><td>39</td></tr>
<tr><td>300 ml</td><td>8</td><td>13</td><td>24</td><td>39</td></tr>
<tr><td>500 ml</td><td>5</td><td>10</td><td>16</td><td>25</td></tr>
<tr><td>1 L</td><td>3</td><td>5</td><td>8</td><td>14</td></tr>
<tr><td>2 L</td><td>1</td><td>4</td><td>5</td><td>9</td></tr>
<tr><td>2.8 L</td><td>1</td><td>2</td><td>4</td><td>6</td></tr>
<tr><td>4 L</td><td>-</td><td>1</td><td>2</td><td>4</td></tr>
<tr><td colspan="5">Max. Load of Separatory Funnel Holders (kg)</td></tr>
<tr><td>Separatory Funnel Volume</td><td></td><td></td><td></td><td></td></tr>
<tr><td>250 ml</td><td>4</td><td>4</td><td>6</td><td>11</td></tr>
<tr><td>500 ml</td><td>3</td><td>3</td><td>4</td><td>9</td></tr>
<tr><td>1 L</td><td>2</td><td>2</td><td>3</td><td>5</td></tr>
<tr><td>2 L</td><td>-</td><td>1</td><td>2</td><td>4</td></tr>
</table></td></tr>
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Model	Image	Name	Details
54003A01		Deep Well Plates/Clamps for Beakers 50ml	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A02		Deep Well Plates/Clamps for Beakers 100ml	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A03		Deep Well Plates/Clamps for Beakers 250ml	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A04		Deep Well Plates/Clamps for Beakers 300ml	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A05		Deep Well Plates/Clamps for Beakers 500ml	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A06		Deep Well Plates/Clamps for Beakers 1L	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A07		Deep Well Plates/Clamps for Beakers 2L	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A08		Deep Well Plates/Clamps for Beakers 2.8L	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A09		Deep Well Plates/Clamps for Beakers 4L	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54003A10		Deep Well Plates/Clamps for Beakers 6L	Deep well plates/clamps made of stainless steel for beakers of different volumes.
54005A01		Test Tube Holders - 86 test tubes 8 mm diameter	Holders for test tubes of different sizes and different quantities.

Model	Image	Name	Details
54005A02		Test Tube Holders - 86 test tubes 10 mm diameter	Holders for test tubes of different sizes and different quantities.
54005A03		Test Tube Holders - 58 test tubes 12 mm diameter	Holders for test tubes of different sizes and different quantities.
54005A04		Test Tube Holders - 58 test tubes 14 mm diameter	Holders for test tubes of different sizes and different quantities.
54005A05		Test Tube Holders - 32 test tubes 16 mm diameter	Holders for test tubes of different sizes and different quantities.
54005A06		Test Tube Holders - 19 test tubes 25 mm diameter	Holders for test tubes of different sizes and different quantities.
54005A07		Test Tube Holders - 10 test tubes 35 mm diameter	Holders for test tubes of different sizes and different quantities.
54013A01		Test Tube Rack 210mm x 90mm	
54013A02		Test Tube Rack 340mm x 90mm with holes ∅ 16mm	



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