

# Incubator Shakers IS-3300, 220V/50Hz



The IS-3300 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.

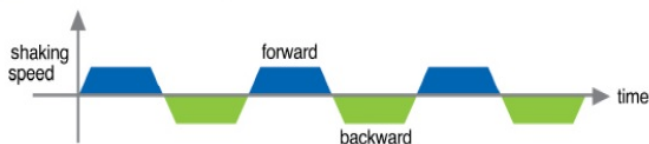
Applicable for fermentation processes with high demands on the precision of the shaking frequency, bacteria incubation, hybridization, life science, pharmacy, medical science, food industry, chemistry, biology, and other laboratory environments.

- 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-3300 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.

Forward/ Backward shaking



Forward/ Backward shaking & pause



## Technical Specification:

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Model                          | IS-3300                                                      |
| Display and Control            | LED Digital Display / On-Touch Control                       |
| Vibration Style                | Reciprocating / Orbital                                      |
| Speed Adjustment Steps (rpm)   | ± 1 rpm                                                      |
| Platform Size (mm)             | 330 x 330 mm                                                 |
| Capacity (liters)              | 53L                                                          |
| Temperature Range (°C)         | Ambient +5°C ~ 60°C                                          |
| Temperature Accuracy (°C)      | ±0.1°C (38°C)                                                |
| Temperature Stability (°C)     | ±1.0°C (38°C)                                                |
| Temperature Uniformity (°C)    | ±1.0°C (38°C)                                                |
| Temperature Fluctuation [°C]   | ±1.0°C (38°C)                                                |
| 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                  | 330 x 330 mm                                                 |
| Max. Load (kg)                 | 10kg                                                         |
| Inside Dimension (WxDxH) mm    | 410 x 410 x 320mm                                            |
| Timer                          | Start / Stop / Duration setting; 10sec ~999hr 59min 59sec    |
| Heating System                 | Heating Plate, 600W                                          |
| Material                       | Base: Stainless Steel; Working Plate: Aluminium              |
| External Dimensions (WxDxH) mm | 440 x 740 x 625mm                                            |
| Net Weight (kg)                | 74kg                                                         |
| Electrical Requirements        | 220V/50Hz                                                    |
| Catalogue No.                  | 5402505-2                                                    |

## 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 x D in mm)    | 330 x 330                                                    |           | 330 x 330                                                    |           | 410 x 410                                                    |           | 410 x 410                                                    |           |
| Inside Dimensions (W x D x 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 x D x 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:

| Model                                              | Image                                                                               | Name                         | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
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| 54001A02                                           |  | Sticky Plate 350 x 350 mm    | <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 54002A02                                           |  | Universal Trays 350 x 350 mm | <p>The Universal Trays employ a drilled grid for individual loadings of test tube holders, microtitre plates, and deep well plates.</p> <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 x 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"><b>Max. Load of Beaker Holders (kg)</b></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"><b>Max. Load of Separatory Funnel Holders (kg)</b></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> | Suitable for | OS-3050 | OS-3100 | OS-3150 | OS-3200 | Dimensions (W x D in mm) | 320 x 260 | 350 x 350 | 450 x 450 | 755 x 481 | <b>Max. Load of Beaker Holders (kg)</b> |  |  |  |  | Beaker Volume |  |  |  |  | 50 ml | 21 | 36 | 55 | 99 | 100 ml | 14 | 28 | 44 | 74 | 250 ml | 8 | 13 | 24 | 39 | 300 ml | 8 | 13 | 24 | 39 | 500 ml | 5 | 10 | 16 | 25 | 1 L | 3 | 5 | 8 | 14 | 2 L | 1 | 4 | 5 | 9 | 2.8 L | 1 | 2 | 4 | 6 | 4 L | - | 1 | 2 | 4 | <b>Max. Load of Separatory Funnel Holders (kg)</b> |  |  |  |  | Separatory Funnel Volume |  |  |  |  | 250 ml | 4 | 4 | 6 | 11 | 500 ml | 3 | 3 | 4 | 9 | 1 L | 2 | 2 | 3 | 5 | 2 L | - | 1 | 2 | 4 |
| Suitable for                                       | OS-3050                                                                             | OS-3100                      | OS-3150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OS-3200      |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| Dimensions (W x D in mm)                           | 320 x 260                                                                           | 350 x 350                    | 450 x 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 755 x 481    |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| <b>Max. Load of Beaker Holders (kg)</b>            |                                                                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| Beaker Volume                                      |                                                                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 50 ml                                              | 21                                                                                  | 36                           | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 99           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 100 ml                                             | 14                                                                                  | 28                           | 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 74           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 250 ml                                             | 8                                                                                   | 13                           | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 300 ml                                             | 8                                                                                   | 13                           | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 500 ml                                             | 5                                                                                   | 10                           | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 1 L                                                | 3                                                                                   | 5                            | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 2 L                                                | 1                                                                                   | 4                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 2.8 L                                              | 1                                                                                   | 2                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 4 L                                                | -                                                                                   | 1                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| <b>Max. Load of Separatory Funnel Holders (kg)</b> |                                                                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| Separatory Funnel Volume                           |                                                                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 250 ml                                             | 4                                                                                   | 4                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11           |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 500 ml                                             | 3                                                                                   | 3                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 1 L                                                | 2                                                                                   | 2                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |
| 2 L                                                | -                                                                                   | 1                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4            |         |         |         |         |                          |           |           |           |           |                                         |  |  |  |  |               |  |  |  |  |       |    |    |    |    |        |    |    |    |    |        |   |    |    |    |        |   |    |    |    |        |   |    |    |    |     |   |   |   |    |     |   |   |   |   |       |   |   |   |   |     |   |   |   |   |                                                    |  |  |  |  |                          |  |  |  |  |        |   |   |   |    |        |   |   |   |   |     |   |   |   |   |     |   |   |   |   |

| 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 Ø 16mm    |                                                                     |



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