# Large Capacity Upright Shaking Incubator LS-3500D, 110V/60Hz



The Iris Large Capacity Upright Shaking Incubator LS-3500D is suitable for cell culturing, cell aeration, and solubility studies. In addition to offering stable temperature conditions, the Iris incubator shakers use an orbital agitation at variable speeds to affect the growth of cell cultures.

The LS-3500D Large Capacity Upright Shaking Incubator is suitable for applications in modern laboratories, research centres and production facilities. It offers a large shaking capacity with a small footprint and also many features allowing straightforward, safe handling of product.

- Inside material is SUS304 and outside body is powder painting
- The compressor will be delayed to start working if power cut and with timer for defrost. Using environmental protection cold-media R134a.
- Three-point bearing transmission is adopted suitable for heavy loads and continuous duty.
- Internal light provide clear chamber visibility
- Tempered Safety Glass Window for operation view
- Uses brushless AC motor for long durability and stable performance of the shaking system.
- Touch Screen panel
- With safety switch to stop shaking when opening door
- Each machine operates independently if required .
- Overheat and over low protector, built-in circulating fan for temperature stability.

# Technical Specification:

| | |
|---|---|
| Model | LS-3500D |
| Display and Control | LED Digital Display / On-Touch Control |
| Vibration Style | Orbital |
| Platform Size (mm) | 740 x 480 mm |
| Capacity (liters) | 560 liters |
| Temperature Range (℃) | Ambient+5℃~70℃ |
| Temperature Accuracy (℃) | ±0.1℃ (38℃) |
| Temperature Stability (℃) | ±1℃ (at 38℃) |
| Temperature Uniformity (℃) | ±1℃ (at 38℃) |
| Temperature Fluctuation □℃□ | ±1℃ (at 38℃) |
| Temperature Setting | Digital |
| Temperature Controller | Micro-computer PID temperature controller |
| Temperature Display | LED 2-screen digital display actual and setting temperature |
| Shaker Controller | Microprocessor Digital LED |
| Shaker Power Unit | Brushless motor |
| Shaking Methods | Orbital |
| Shaking Throw (mm) | 50mm |
| Shaking Width (mm) | 50mm |
| 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 | 740 x 480 mm |
| Inside Dimension (WxDxH) mm | 860 x 600 x 1100 mm |
| Timer | 999 h / 999 min / 999 sec |
| Heater | 1600W |
| Illumination | Fluorescent Lamp 20 W |
| Shelf ( Adjustable) | 2 |
| External Dimensions (WxDxH) mm | 940 x 800 x 1840 mm |
| Net Weight (kg) | 280 kg |
| Electrical Requirements | 110V/60Hz |
| Catalogue No. | 5405015-1 |
| Platform | Double |

# Technical Data:

| Model | LS-3500 | | LS-3500R | | LS-3500D | | LS-3500RD | | LS-3800 | | LS-3800D | | LS-3800R | | LS-3800RD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Platform | Single | | | | Double | | | | Single | | | | Double | | | |
| Temperature Range (?) | Ambient +5?~70? | | 0?~70? | | Ambient +5?~70? | | 0?~70? | | Ambient +5?~70? | | 0?~70? | | Ambient +5?~70? | | 0?~70? | |
| Platform | Single | | | | Double | | | | Single | | | | Double | | | |
| Temperature Accuracy (?) | ±0.1? | | | | | | | | | | | | | | | |
| Temperature Control | Micro-computer PID temperaturecontroller | | | | | | | | | | | | | | | |
| Temperature Display | LED 2-screen digital display actual and settingtemperature | | | | | | | | | | | | | | | |
| Shaking Speed | 20~250 r.p.m | | | | 20~150 r.p.m | | | | 20~250 r.p.m | | | | 20~150 r.p.m | | | |
| ShakingWidth | 50 mm | | | | | | | | | | | | | | | |
| Timer | 999 h / 999 min / 999 sec | | | | | | | | | | | | | | | |
| Heater | 1600 W | | | | | | | | | | | | | | | |
| Illumination | Fluorescent lamp 20W | | | | | | | | | | | | | | | |
| SHELF ( Adjustable) | 2 | | | | 1 | | | | 2 | | | | 1 | | | |
| Volume | 560 L | | | | 560 L | | | | 834L | | | | 834L | | | |
| Refrigerator | N/A | | | | 1/3 HP | | | | N/A | | | | 1/2 HP | | | |
| Shaking PlateSize | 740 x 480 mm | | | | | | | | 960 x 600 mm | | | | | | | |
| Inside Dimension (WxDxH) | 860 x 600 x 1100 mm | | | | | | | | 1100 x 690 x 1100 mm | | | | | | | |
| Outside Dimension (WxDxH) | 940 x 800 x 1840 mm | | | | | | | | 1190 x 920 x 1840 mm | | | | | | | |
| Weight(Approx.) | 280kg | | | | | | | | 300kg | | | | | | | |
| Electrical Requirements | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz | 110V/60Hz | 220V/50Hz |
| Catalogue No. | 5405005-1 | 5405005-2 | 5405010-1 | 5405010-2 | 5405015-1 | 5405015-2 | 5405020-1 | 54050202 | 54050251 | 54050252 | 54050301 | 54050302 | 54050351 | 54050352 | 54050401 | 54050402 |

### Flask Capacity:

| Flask Clamp | 125ml | 250ml | 500ml | 1000ml | 2000ml | 3000ml | 4000ml | 5000ml |
|---|---|---|---|---|---|---|---|---|
| LS-3500(R)D(RD) | 48 | 40 | 24 | 12 | 9 | 6 | 6 | 4 |
| LS-3500(R)D(RD) | 96 | 60 | 40 | 24 | - | - | - | - |
| LS-3800(R)D(RD) | 78 | 50 | 36 | 18 | 10 | 10 | 8 | 8 |
| LS-3800(R)D(RD) | 156 | 100 | 72 | 36 | - | - | - | - |

# Accessories:

| Model | Image | Name | Details |
|---|---|---|---|
| 54010A01 |  | Stainless steel clamp for 50ml Erlenmeyer flask | |
| 54010A02 |  | Stainless steel clamp for 125ml Erlenmeyer flask | |
| 54010A03 |  | Stainless steel clamp for 250ml Erlenmeyer flask | |
| 54010A04 |  | Stainless steel clamp for 500ml Erlenmeyer flask | |

| Model | Image | Name | Details |
|---|---|---|---|
| 54010A05 |  | Stainless steel clamp for 1000ml Erlenmeyer flask | |
| 54010A06 |  | Stainless steel clamp for 2000ml Erlenmeyer flask | |
| 54010A07 |  | Stainless steel clamp for 3000ml Erlenmeyer flask | |
| 54010A08 |  | Stainless steel clamp for 4000ml Erlenmeyer flask | |
| 54010A09 |  | Stainless steel clamp for 5000ml Erlenmeyer flask | |
| 54012A01 |  | Shaker Platform with clamps 280x230mm | |
| 54012A04 |  | Shaker Platform with clamps 380x280mm | |
| 54012A05 |  | Shaker Platform with clamps 380x280mm | |
| 54013A01 |  | Test Tube Rack 210mm x 90mm | |
| 54013A02 |  | Test Tube Rack 340mm x 90mm with holes ∅ 16mm | |
| 54014A01 |  | Non-Slip Mat | |

| Model | Image | Name | Details |
|---|---|---|---|
| 54014A02 |  | Non-Slip Mat for 96 well plate | |

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