

THERMO SHAKER INCUBATOR



THERMO SHAKER INCUBATOR

The unique design principle which combines mixing and shaking with intelligent control makes its operation simpler, safe, and convenient. It is compact, highly-efficient and consists of several features including intelligent programming for easy and accurate operation results. It is primarily used to mix different micro capacity tubes, PCR plates, micro-titer plates and other laboratory equipment.

Used in Incubation, Cultivation, Re-suspending Pellets, Denaturation, PCR preparations, ELISA Assays, Colorimetric Assays, Enzyme, Protein Analysis.

Also known as Thermo Shaker, Lab Shaker, Thermo Shaker Incubator, Laboratory Thermo Shaker Incubator, Mixer, Laboratory Mixer.

SHA71 THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



SPECIFICATIONS

| Model | SHA71-2000 | SHA71-1600 |
|------------------------|---------------------|--|
| Speed Range | 300-2000 rpm | 300-1600 rpm |
| Temperature | RT +5-100°C | 0-100°C |
| Temperature Accuracy | | < ±0.3°C |
| Temperature Resolution | | 0.1°C |
| Vortex Shaking Speed | | None |
| Shaking Orbit | | 3 mm |
| Time of Heating | | ≤20min (from 20°C to 100°C) |
| Time of Cooling | No cooling function | ≤25min(RT-20°C), ≤15min(from 100°C to 20°C) |
| Timing Range | | 99h59min |
| Motion | | Orbital |
| Overall Dimension | 270x196x170 mm | 270x190x170 mm |
| Display | | LCD |
| Weight | 6.8 kg | 8.3 kg |
| Power | | 200 W |
| Power Supply | | 230V, 60Hz |
| Cooling Speed | - | >7°C/min (from 100°C to 20°C) and >1.2°C/min (from RT to RT -20°C) |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description | Temperature |
|----------------|------------|--------------------------------------|------------------|
| LS53621 | Block | 96 x 0.2ml PCR plate | Max. Temp. 100°C |
| LS53633 | Block | 54 x 0.5ml | Max. Temp. 100°C |
| LS53645 | Block | 35 x 1.5ml | Max. Temp. 100°C |
| LS53657 | Block | 35 x 2.0ml | Max. Temp. 100°C |
| LS53669 | Block | 20 x 0.5ml + 15 x 1.5ml | Max. Temp. 100°C |
| LS53681 | Block | 24 x dia. ≤ Φ12mm | Max. Temp. 100°C |
| LS53693 | Block | 32 x 0.2ml + 25 x 1.5ml | Max. Temp. 100°C |
| LS53705 | Block | 32 x 0.2ml + 10 x 0.5ml + 15 x 1.5ml | Max. Temp. 100°C |
| LS53717 | Block | 103 x 67 x 30mm (water bath block) | Max. Temp. 100°C |
| LS53729 | Block | flat block | Max. Temp. 100°C |
| LS53741 | Block | 24 x 5ml (non-standard) | Max. Temp. 100°C |
| LS53753 | Block | 12 x 15ml (non-standard) | Max. Temp. 100°C |
| LS53765 | Block | 6 x 50ml (non-standard) | Max. Temp. 100°C |
| LS53777 | Block | customized | Max. Temp. 100°C |
| LS53789 | Block | Suit for block A ~H, J | |
| LS53801 | Block | Suit for block I, K, L, M | |
| LS54293 | Tube Stand | 96x0.2ml | |
| LS54305 | Tube Stand | 24x0.5ml | |
| LS54317 | Tube Stand | 24x1.5/2.0ml | |



SHA71-2000



SHA71-1600

SHA73 THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, Vortexing numerous tube formats

Custom blocks available for different experiment needs



SPECIFICATIONS

| Model | SHA73-3000 | SHA73-2000 |
|------------------------|---------------------|------------------|
| Speed Range | 300-3000 rpm | 300~2000 rpm |
| Temperature | RT+5-100°C | |
| Temperature Accuracy | 0.5°C | |
| Temperature Resolution | 0.1°C | |
| Vortex Shaking Speed | None | |
| Speed Increment | 10 rpm | |
| Shaking Orbit | 2 mm | 3 mm |
| Time of Heating | ≤12min | |
| Time of Cooling | No cooling function | |
| Timing Range | 1min ~ 99h59 min | 1min ~ 99h59 min |
| Motion | Orbital | |
| Overall Dimension | 230x170x165 mm | |
| Weight | 5.5 kg | |
| Power | 150 W | |
| Power Supply | 230V, 60Hz | |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description |
|----------------|-------|----------------------------|
| LS52818 | Block | 96x0.2ml |
| LS52831 | Block | 54x0.5ml |
| LS52844 | Block | 35x1.5ml |
| LS52857 | Block | 35x2.0ml |
| LS52870 | Block | 15x1.5ml+20x0.5ml |
| LS52883 | Block | 24xDia.≤φ12mm tube |
| LS52896 | Block | 32x0.2ml+25x1.5ml |
| LS52909 | Block | 32x0.2ml+10x0.5ml+15x1.5ml |

| Accessory Code | Name | Description |
|----------------|-----------|----------------------------------|
| LS52922 | Block | 103x67x30 Rectangular bath block |
| LS52934 | Block | 96 wells microplate |
| LS52946 | Tube Hold | 96x0.2ml PCR tube hold |
| LS52958 | Tube Hold | 24x0.5ml |
| LS52970 | Tube Hold | 24x1.5/2.0ml |
| LS52982 | Tube Hold | 8x15ml |
| LS52994 | Tube Hold | 3x50ml |



SHA73-3000



SHA73-2000

SHA72-1500 THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



SPECIFICATIONS

| | |
|------------------------|--------------------------------------|
| Model | SHA72-1500 |
| Speed Range | 200-1500 rpm |
| Temperature | 5-100°C |
| Temperature Accuracy | <± 0.5°C |
| Temperature Resolution | 0.1°C |
| Vortex Shaking Speed | None |
| Shaking Orbit | 4 mm |
| Time of Heating | ≤15min (from 20°C to 100°C) |
| Time of Cooling | No cooling function |
| Timing Range | 1 min~99 h59 min |
| Motion | Orbital |
| Overall Dimension | 300x220x170 mm |
| Weight | 7 kg |
| Power | 150 W |
| Power Supply | AC220 V 50/60 Hz or AC120 V 50/60 Hz |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description |
|----------------|-------|----------------------------------|
| LS53121 | Block | 54x0.5 ml |
| LS53133 | Block | 35x1.5 ml |
| LS53145 | Block | 35x2.0 ml |
| LS53157 | Block | 15x0.5 ml+20x1.5 ml |
| LS53169 | Block | 24xDia.≤φ12 mm tube |
| LS53181 | Block | 103x67x30 Rectangular bath block |
| LS53193 | Block | 96 wells microplate |

| Accessory Code | Name | Description |
|----------------|-------|---------------------------|
| LS53205 | Block | 24x5.0ml tubes |
| LS53217 | Block | 15x5.0 ml Eppendorf tubes |
| LS53241 | Block | 96x0.2 ml |
| LS53361 | Block | 12x15 ml Falcon tube |
| LS53373 | Block | 6x50 ml Falcon tube |
| LS53385 | Block | 96-Deep well microplate |

SHA74-1500 THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



SPECIFICATIONS

| | |
|------------------------|---|
| Model | SHA74-1500 |
| Speed Range | 200-1500 rpm |
| Temperature | 0-100°C |
| Temperature Accuracy | <± 0.5°C |
| Temperature Resolution | 0.1°C |
| Vortex Shaking Speed | 200-1500 rpm |
| Shaking Orbit | 3 mm |
| Time of Heating | ≤20 min (from 20°C to 100°C) |
| Time of Cooling | ≤25 min (from ambient to ambient -20°C) |
| Timing Range | 1 min~99 h59 min |
| Motion | Orbital |
| Overall Dimension | 300x220x170 mm |
| Weight | 8.5 kg |
| Power | 150 W |
| Power Supply | AC220 V 50/60 Hz or AC120 V 50/60 Hz |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description |
|----------------|-------|----------------------------------|
| LS53121 | Block | 54x0.5 ml |
| LS53133 | Block | 35x1.5 ml |
| LS53145 | Block | 35x2.0 ml |
| LS53157 | Block | 15x0.5 ml+20x1.5 ml |
| LS53169 | Block | 24xDia. ≤φ12 mm tube |
| LS53181 | Block | 103x67x30 Rectangular bath block |
| LS53193 | Block | 96 wells microplate |

| Accessory Code | Name | Description |
|----------------|-------|---------------------------|
| LS53205 | Block | 24x5.0ml tubes |
| LS53217 | Block | 15x5.0 ml Eppendorf tubes |
| LS53241 | Block | 96x0.2 ml |
| LS53361 | Block | 12x15 ml Falcon tube |
| LS53373 | Block | 6x50 ml Falcon tube |
| LS53385 | Block | 96-Deep well microplate |

SHA75-1500 THERMO SHAKER INCUBATOR

Excellent mixing result

Stable and wide range of speed adjustment

A combination of heating & mixing in one instrument

Flexible adapter selection 8 types of blocks, compatible with most universally used tubes within 0.2mL-50mL volume range

Timer function support is available



SPECIFICATIONS

| | |
|-----------------------------|---------------------------------|
| Model | SHA75-1500 |
| Speed Range | 300-1500 rpm |
| Temperature | Heating: RT.-100°C |
| Temperature Accuracy | ±0.5°C @20-45°C |
| Temperature Uniformity | Max. ±0.5°C @20-45°C |
| Over Temperature Protection | 150°C |
| Functions | Heating & Mixing |
| Maximum Heating Rate | 5.5°C/min |
| Overall Dimension | 200x235x120 mm |
| Weight | 7.3 kg |
| Power | 200 W |
| Power Supply | 100-120 V/220-240 V,50 Hz/60 Hz |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description |
|----------------|---------------|---------------------------------|
| LS53074 | Heating block | Used for 0.5 mL tubes, 24 holes |
| LS53086 | Heating block | Used for 1.5 mL tubes, 24 holes |
| LS53098 | Heating block | Used for 2 mL tubes, 24 holes |
| LS53110 | Heating block | Used for 5 mL tubes, 8 holes |

| Accessory Code | Name | Description |
|----------------|---------------|-------------------------------------|
| LS53122 | Heating block | Used for 0.2 ml / 96 well PCR plate |
| LS53134 | Heating block | Used for 96 / 384 microplate |
| LS53146 | Heating block | Used for 15 mL tubes, 8 holes |
| LS53158 | Heating block | Used for 50 mL tubes, 4 holes |

SHA75-1500CR THERMO SHAKER INCUBATOR

Excellent mixing result

3-in-1 instrument with heating, cooling and mixing

Flexible adapter selection 8 types of blocks, compatible with most universally used tubes within 0.2mL-50mL volume range

Timer function support is available

Overheating protection and auto-recognition of blocks



SPECIFICATIONS

| | |
|-----------------------------|---|
| Model | SHA75-1500CR |
| Speed Range | 300-1500 rpm |
| Temperature | Heating: RT-100°C; Cooling: RT -below RT.15°C |
| Temperature Accuracy | ±0.5°C @20-45°C |
| Temperature Uniformity | Max. ±0.5°C @20-45°C |
| Over Temperature Protection | 150°C |
| Functions | Heating, Cooling & Mixing |
| Maximum Heating Rate | 5.5°C/min |
| Maximum Cooling Rate | 5°C/ min(110°C-RT.) 0.5°C/ min(RT.) |
| Overall Dimension | 200×235×120 mm |
| Weight | 7.3 kg |
| Power | 200 W |
| Power Supply | 100-120 V/220-240 V,50 Hz/60 Hz |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Description |
|----------------|---------------|---------------------------------|
| LS53074 | Heating block | Used for 0.5 mL tubes, 24 holes |
| LS53086 | Heating block | Used for 1.5 mL tubes, 24 holes |
| LS53098 | Heating block | Used for 2 mL tubes, 24 holes |
| LS53110 | Heating block | Used for 5 mL tubes, 8 holes |

| Accessory Code | Name | Description |
|----------------|---------------|-------------------------------------|
| LS53122 | Heating block | Used for 0.2 ml / 96 well PCR plate |
| LS53134 | Heating block | Used for 96 / 384 microplate |
| LS53146 | Heating block | Used for 15 mL tubes, 8 holes |
| LS53158 | Heating block | Used for 50 mL tubes, 4 holes |



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