

 LABTRON



THERMO SHAKER INCUBATOR

THERMO SHAKER INCUBATOR LTSI-A10

Our model of Thermo Shaker Incubator LTSI-A10 is compact, highly-efficient and consist several features including intelligent programming for easy and accurate operation results. It is primarily used to mix different micro capacity tube, PCR plate, micro-titer plate and other laboratory equipment.

Features

- Optimized 2D mixing with anti-spill technology
- Designed for simultaneous mixing and vortexing operation
- Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats),micro-tubes,vortexing numerous tube formats
- Pre-programmed soft keys and reliable universal holder
- Automatic imbalance detection

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.



LTSI-A10

Technical Parameters:

| | |
|----------------------|---------------------|
| Model | LTSI-A10 |
| Temp. Range | No heating function |
| Temp. Accuracy | No heating function |
| Temp Resolution | No heating function |
| Time for Heating | No heating function |
| Time for Cooling | No cooling function |
| Shaking Motion | Orbital |
| Shaking Speed | 300-3000rpm |
| Vortex Shaking Speed | 3500rpm |
| Shaking Orbit | 3mm |
| Time Range | 1s-99h59min |
| Display | LCD |
| Overall Dimension | 270x196x170mm |
| Power | 45W |
| Power Supply | 230V, 60Hz |
| Weight | 4.5kg |

THERMO SHAKER INCUBATOR LTSI-A11 AND LTSI-A12

This product is quick heating, cooling and mixing that integrates 3 programs mixing and heating simultaneously.

Along with intelligent programmable design, it can mix various micro-volume tubes, PCR plates, micro-titer plates and other laboratory equipment with vortexing and cooling/heating to meet different kinds of requirements.

Features

- Precision radius and advance dimensional technology combined with mixing speed regulators.
- Programmable, proficient shaking and temperature control
- Microprocessor controlled incubator for temperature and speed control
- Time setting within 0 to 100 hours range
- Low maintenance brushless DC motor drive
- Multiple security function for safe and reliable operations
- Confined to CE safety standards

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.



Technical Parameters:

| Model | LTSI-A11 | LTSI-A12 |
|----------------------|-----------------------------|--|
| Temp. Range | RT +5-100°C | 0-100°C |
| Time for Cooling | No cooling function | ≤25min(RT-20°C), ≤15min(from 100°Cto 20°C) |
| Shaking Speed | 300-2000rpm | 300-1600rpm |
| Weight | 6.8kg | 8.3kg |
| Temp. Accuracy | < ±0.3°C | |
| Temp Resolution | 0.1°C | |
| Time for Heating | ≤20min (from 20°C to 100°C) | |
| Shaking Motion | Orbital | |
| Vortex Shaking Speed | None | |
| Shaking Orbit | 3mm | |
| Time Range | 1min-99h59min | |
| Display | LCD | |
| Overall Dimension | 270x190x170mm | |
| Power | 200W | |
| Power Supply | 230V, 60Hz | |

THERMO SHAKER INCUBATOR LTSI-A13 AND LTSI-A15

Our product Thermo Shaker Incubator has an impressive design, advanced features such as micro-processing technique along with PID control, particularly for micro-plate shaker and cell culturing incubation. This product is portable, noiseless, trouble-free operation.

Features

- Accommodate two micro-plates
- Two-sided heating of micro plates allows achieving the set and actual temperature in wells of the micro plates
- Good linearity and accurate temperature oscillation speed
- Microprocessor PID temperature controller controls time and temperature with good linearity and small fluctuation
- Simultaneous display of set and actual temperature, shaking speed and time
- Brushless DC Motor ensures low maintenance, high efficiency & constant speed of rotation
- User friendly touch operation interface
- Audio alarm signals program completion
- Data can be stored and recovered on power or system failure

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.



LTSI-A13

Technical Parameters:

| Model | LTSI-A13 | LTSI-A15 |
|----------------------|----------------------------|---------------|
| Shaking Orbit | 3mm | 2mm |
| Overall Dimension | 284x264x157mm | 345x310x178mm |
| Power | 150W | 250W |
| Weight | 11kg | 12kg |
| Temp. Range | RT+5-70°C | |
| Temp. Accuracy | ≤±0.2°C | |
| Temp Resolution | 0.1°C | |
| Time for Heating | <25min (from 20°C to 70°C) | |
| Time for Cooling | No cooling function | |
| Shaking Motion | Orbital | |
| Shaking Speed | 300-1200rpm | |
| Vortex Shaking Speed | None | |
| Time Range | 0-99h59min | |
| Display | LED | |
| Power Supply | 230V, 60Hz | |

THERMO SHAKER INCUBATOR LTSI-A20

Labtron model of Thermo Shaker Incubator LTSI-A20 has compact and latest intelligent design that features a portable bench-top system along with several options for holding wide range of tubes and plates that can be used for any practical integration purpose. It is primarily used to mix different micro capacity tube, PCR plate, micro-titer plate and other laboratory equipment.

Features

- Optimized 2D mixing with anti-spill technology
- Designed for simultaneous mixing and vortexing operation
- Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), micro-tubes, vortexing numerous tube formats
- Pre-programmed soft keys and reliable universal holder
- Automatic imbalance detection

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.

Accessories

| Name | Description |
|-------|--------------------------|
| TH 01 | 96x0.2ml PCR Tube Holder |
| TH 02 | 24x0.5ml Tube Holder |
| TH 03 | 24x1.5/2.0ml Tube Holder |
| TH 04 | 8x15ml Tube Holder |
| TH 05 | 3x50ml Tube Holder |

Technical Parameters:

| | |
|----------------------|---------------------|
| Model | LTSI-A20 |
| Temp. Range | No heating function |
| Temp. Accuracy | No heating function |
| Temp Resolution | No heating function |
| Time for Heating | No heating function |
| Time for Cooling | No cooling function |
| Shaking Motion | Orbital |
| Shaking Speed | 300-3000rpm |
| Vortex Shaking Speed | 3500rpm |
| Shaking Orbit | 3mm |
| Time Range | 15s-99h59min |
| Overall Dimension | 170x240x140mm |
| Power | 45W |
| Power Supply | 230V, 60Hz |
| Weight | 4.5kg |

THERMO SHAKER INCUBATOR LTSI-A21 AND LTSI-A22

This device is designed for multifunction such as heating, cooling and mixing of micro samples and can be equipped with transposable blocks for micro-tubes. Shaking, heating and cooling modes can be used separately or concurrently.

Features

- LCD display for easy set up and usage
- Mixing and heating modes can be used both simultaneously and independently
- Brushless DC Motor ensures low maintenance, high efficiency and constant speed of rotation
- Accurately controls and displays time, temperature and speed
- Low noise and stable working even at fastest speed
- Over-heating protection device
- Custom blocks available to meet experimental requirement
- Audible signal indicates program completion
- Conforms to CE safety standard

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.

Accessories

| Name | Description | Max. Speed |
|---------|--------------------------|------------|
| Block A | 96x0.2ml | 1500rpm |
| Block B | 54x0.5ml | 1500rpm |
| Block C | 35x1.5ml | 1500rpm |
| Block D | 35x2.0ml | 1500rpm |
| Block E | 15x0.5ml+20x1.5ml | 1500rpm |
| Block F | 24xDiameter ≤ 12mm tubes | 1200rpm |
| Block G | 12x15ml Falcon | 750rpm |
| Block H | 6x50ml Falcon | 750rpm |
| Block I | 103x67x30mm Bath Block | 1500rpm |
| Block J | 96x0.2ml Microplate | 1500rpm |
| Block K | 24x5ml tubes | 1200rpm |
| Block L | 96-Deep well plate | 800rpm |
| Block M | 15x5ml Eppendorf tubes | 1200rpm |

Technical Parameters:

| Model | LTSI-A21 | LTSI-A22 |
|----------------------|-----------------------------|--|
| Temp. Range | 5-100°C | 0-100°C |
| Time for Cooling | No cooling function | ≤30min(from ambient - 20°C), ≤15min(from 100°C to 20°C) |
| Weight | 7kg | 8.5kg |
| Temp. Accuracy | < ± 0.5°C | |
| Temp Resolution | 0.1°C | |
| Time for Heating | ≤15min (from 20°C to 100°C) | |
| Shaking Motion | Orbital | |
| Shaking Speed | 200-1500rpm | |
| Vortex Shaking Speed | None | |
| Shaking Orbit | 3mm | |
| Time Range | 1min-99h59min | |
| Overall Dimension | 300x220x170mm | |
| Power | 150W | |
| Power Supply | 230V, 60Hz | |

THERMO SHAKER INCUBATOR LTSI-A23 AND LTSI-A24

This product is specifically designed for micro-plates, tubes and glass vials. Its high-performing, well-controlled 3-dimensional mixing prevents spilling and lid wetting.

Features

- Small, light, highly efficient and quiet operation
- Thermoshaker that blends various microplates, tubes and glass vials
- Fast and precise shaking and mixing
- Optimized 3D mixing prevents spilling and lid-wetting
- Efficient and rapid orbital movement eliminates the need for centrifugation
- Accurate processing and anti-vibration technology
- Two programmable soft keys, integrated vortex and short mix functions

Application:

Our model of Thermo Shaker Incubator is suitable for incubation and cultivation of biological and chemical components, re-suspending pellets, denaturing of nucleic acids and proteins, PCR preparations, ELISA assays, colorimetric assays, enzyme and protein analysis in microbiology, cellular and molecular biology, immunology and biotechnology.

Accessories for LTSI-A23 and LTSI-A24

| Name | Description |
|-------|----------------------------|
| A-200 | 96x0.2ml |
| B-200 | 54x0.5ml |
| C-200 | 35x1.5ml |
| D-200 | 35x2.0ml |
| E-200 | 15x1.5ml+20x0.5ml |
| F-200 | 24xDiameter ≤ 12mm tubes |
| G-200 | 32x0.2ml+25x1.5ml |
| H-200 | 32x0.2ml+10x0.5ml+15x1.5ml |
| I-200 | 103x67x30mm Bath Block |
| J-200 | 96x0.2ml Microplate |
| MIX-A | 0.2ml PCR Tube Holder |
| MIX-B | 0.5ml Tube Holder |
| MIX-C | 1.5/2.0ml Tube Holder |
| MIX-D | 8 x 15ml Tube Holder |
| MIX-E | 3 x 50ml Tube Holder |

Technical Parameters:

| Model | LTSI-A23 | LTSI-A24 |
|----------------------|---------------------------------|-------------|
| Shaking Speed | 300-3000rpm | 300-1700rpm |
| Shaking Orbit | 2mm | 3mm |
| Temp. Range | RT+5-100°C | |
| Temp. Accuracy | ±0.25°C at 37°C, ±0.5°C at 95°C | |
| Temp Resolution | 0.1°C | |
| Time for Heating | ≤12min | |
| Time for Cooling | No cooling function | |
| Shaking Motion | Orbital | |
| Vortex Shaking Speed | None | |
| Time Range | 1min-100h | |
| Overall Dimension | 230x170x130mm | |
| Power | 150W | |
| Power Supply | 230V, 60Hz | |
| Weight | 6kg | |