



## MBI Thermo Shaker and Incubator Series



- Thermo Shaker Incubator Series
- Thermo Shaker for Microplate Series
- Vortex Series

# 01 Thermo Shaker Incubator Series

## || MBI LR-2999 / LRB-2999 Thermo Shaker Incubator

MBI LR-2999 / LRB-2999 is an upgrade of the existing thermo shaker incubator operation mode. Different from the common instrument parameter setting through membrane keys, MBI LR-2999 / LRB-2999 uses 4.3-inch color LCD screen combined with the graphical operation interface to give users a better experience. Various program editing options, such as shaking start time, cycle steps, heating rate, etc., help to find the best experimental conditions.

Convenient block replacement method, only need to flip the block handle to quickly replace. In addition, thermo lid accessories with a magnetic port design can effectively improve the temperature uniformity in the test tube, avoid changes in the concentration of reagents in the test tube caused by liquid evaporation and condensation, and ensure the stability of the reaction conditions.



MBI LR-2999 / LRB-2999



Toggle handle to replace block

### Features

#### Stable performance and long service life

- Microprocessor control, good temperature control linearity, accurate shaking speed, small fluctuation
- DC brushless motor drive, long service life, maintenance-free
- Built-in over-temperature protection device, more reliable to use

#### Excellent performance, precise temperature control

- Full power heating or other heating rate gears can be chosen to prevent the experiment from failing due to uneven temperature changes
- Optional thermo lid accessories can effectively improve the temperature uniformity in the test tube
- Optional full power cooling and other cooling rate gears

#### Multiple block choices, faster loading and unloading

- Various blocks are available, and can be customized
- New designed method of block loading and unloading, blocks can be replaced without tools

#### Open design, more comprehensive program settings

- Various heating methods can be chosen according to the experimental needs
- Shaking method can be set according to requirements, and both forward and reverse rotation can be set
- Program continuous operation function, multiple programs are connected to each other, no need to set repeatedly
- MSC-3000 low-temperature storage function, the program is completed, and the samples can be automatically stored in low-temperature

#### Smarter and easier to use

- 4.3-inch color LCD screen display, intuitive and easy to operate
- Power failure self-recovery function, the device can automatically resume operation according to the originally set procedure after power failure recovery
- Various standard sample blocks are available, and the blocks can be automatically identified

## Optional Performance Component: ThermoLid

When incubating test tubes, PCR plates, etc., condensation will form on the tube walls and caps. MBI new generation of temperature control and mixing instrument with ThermoLid technology that reliably prevents condensation inside the tube, allowing consistent sample concentrations over the incubation time.

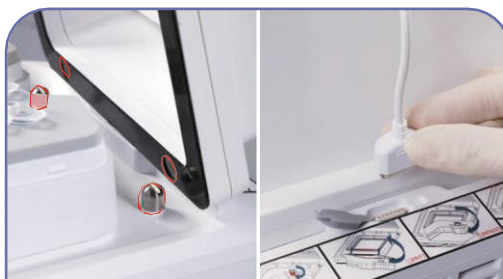
Therefore, the ThermoLid facilitates further improvements in temperature uniformity, allowing the sample to obtain optimal reaction conditions that yield the best results.

### Thermo Lid



Effectively prevent reagent evaporation, improve the uniform concentration

### Installation and Wiring



Magnet port, easy and fast installation; stable data transmission to ensure thermo lid performance

### Height Adjustment



Compatible with various specifications of centrifuge tubes; can be used for up to 5 mL centrifuge tubes

## Specification

### MBI LRB-2999

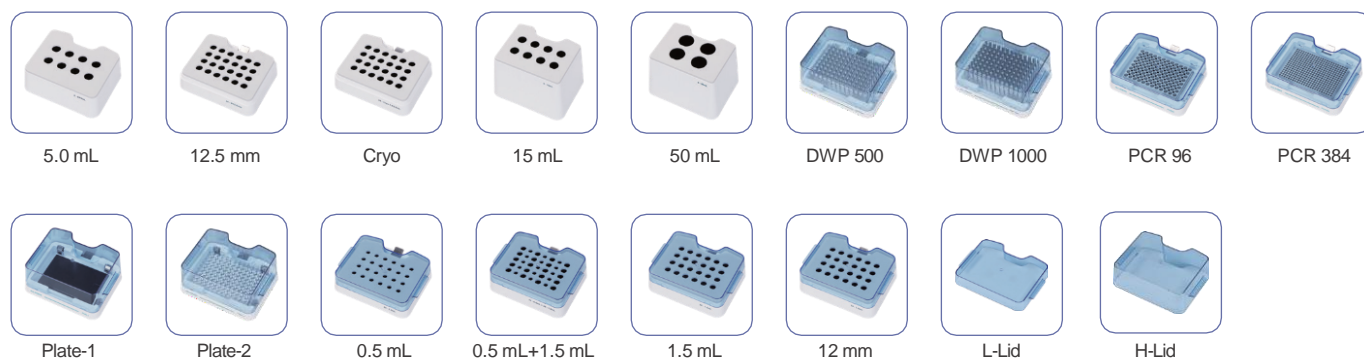
### MBI LR-2999

Temp. control range	0 °C~105 °C	RT. +5 °C
Time setting	1 s~99 h59 min59 s	1 s~99 h59 min59 s
Temp. control accuracy	±0.5 °C	±0.5 °C
Temp. uniformity	±0.5 °C (@30-50 °C)	±0.5 °C (@30-50 °C)
Ambient temperature	5 °C~30 °C	5 °C~30 °C
Relative humidity	≤70 %	≤70 %
Power supply	100-240 V 50-60 Hz	100-240 V 50-60 Hz
Heating time	≤15 min, 40 °C~100 °C (AT. 20 °C~30 °C)	≤10 min, 40 °C~100 °C (AT. 20 °C~30 °C)
Cooling time	≤20 min (AT. ≤20 °C: 20 °C~0 °C) ≤20 min (AT. ≤25 °C: RT. ~4 °C) ≤20 min (AT. ≤30 °C: RT. ~10 °C)	----
Heating rate gear	MAX, 3 °C/min, 2 °C/min, 1 °C/min, 0.1 °C/min	MAX, 3 °C/min, 2 °C/min, 1 °C/min, 0.1 °C/min
Cooling rate gear	MAX, 1 °C/min, 0.5 °C/min, 0.1 °C/min	----
Heating time	9 °C/min (RT.~100 °C, 1.5 mL block)	9 °C/min (RT.~100 °C, 1.5 mL block)
Cooling time	4 °C/min (100 °C~RT., 1.5 mL block)	----
Input power	200 W	200 W
Fuse	125 V 2.5 A Φ5×20	125 V 2.5 A Φ5×20
Mixing orbit	3 mm	3 mm
Speed	100~3000 rpm	100~3000 rpm
Display	4.3 inch touch screen (capacitive)	4.3 inch touch screen (capacitive)
Program number	50	50
External port	USB: program related, printer; 7 Pin socket: thermo lid	USB: program related, printer; 7 Pin socket: thermo lid
Dimension (mm)	318×154×220	318×154×220
Weight	10 kg	9 kg

## MBI LR-2999 / LRB-2999 Suitable Block: MateB Series

According to different needs, MBI has designed their own modules for consumables such as 0.2 mL to 50 mL centrifuge tubes, MTP, DWP, 96 / 384 PCR plates and so on.

All modules are equipped with a convenient replacement mechanism, making module replacement quick and easy. No tools required, just press the handle on the rear of the module to remove the module in seconds. In addition, the thermal insulation module considers the user's safety and effectively prevents burning fingers.



## Ordering Information

Code	Description
ZR-91979-99	MBI LRB-2999 thermo shaker incubator (heating and cooling type), 100-24 V AC, 200 W
ZR-91989-99	MBI LR-2999 thermo shaker incubator (heating type), 100-24 V AC, 200 W

Code	Type	Description	Max. speed	Max. Temp.	Thermo lid available
ZR-91970-90	MateB 0.5 mL	24x0.5 mL tube	2000 rpm	105 °C	✓
ZR-91970-91	MateB 1.5 mL	24x1.5 mL tube	2000 rpm	105 °C	✓
ZR-91970-92	MateB 2.0 mL	24x2.0 mL tube	2000 rpm	105 °C	✓
ZR-91970-93	MateB 0.5 mL+1.5 mL	15x0.5 mL+20x1.5 mL tube	2000 rpm	105 °C	✓
ZR-91970-94	MateB 5.0 mL	8x5 mL tube	1000 rpm	105 °C	✓
ZR-91970-95	MateB 12 mm	24xφ12 mm tube	2000 rpm	105 °C	-
ZR-91970-97	MateB Cryo	24x1.5 mL / 2.0 mL cryovial	2000 rpm	105 °C	-
ZR-91970-98	MateB 15 mL	8x15 mL tube	1000 rpm	105 °C	-
ZR-91970-99	MateB 50 mL	4x50 mL tube	1000 rpm	105 °C	-
ZR-91970-00	MateB Plate-1	96x0.2 mL microplate	3000 rpm	105 °C	✓
ZR-91970-01	MateB Plate-2	96x2 mL deepwell plate	1000 rpm	105 °C	-
ZR-91970-02	MateB PCR 96	96x0.2 mL PCR plate	2000 rpm	105 °C	✓
ZR-91970-03	MateB PCR 384	384-well PCR plate	3000 rpm	105 °C	✓
ZR-91970-04	MateB DWP 500	96/500 µL deepwell plate	1600 rpm	105 °C	✓
ZR-91970-05	MateB DWP 1000	96/1,000 µL deepwell plate	1600 rpm	105 °C	✓
ZR-91970-06	MateB L-Lid	L-Lid transparent lid (low) is suitable for MateB 0.5 mL, 1.5 mL, 2.0 mL, 5 mL, Plate-1, Plate-2, PCR96 and PCR384			
ZR-91970-07	MateB H-Lid	H-Lid transparent lid (high) is suitable for MateB DWP 500/1000			
ZR-91970-15	ThermoLid	Thermo lid			

