

01 MS-100/MSC-100 Thermo Shaker Incubator

Description

MS-100/MSC-100 thermo shaker incubator designed for simultaneous heating, cooling and mixing of small samples. Both of them can be supplied with interchangeable blocks for microtubes.

Features

1. LCD display. It is easy to set up and use
2. Accurately control and display time, temperature and speed
3. Over-heating protection device ensures safety & reliability
4. Low noise working even under the speed of 1,500rpm
5. Easy to replace the metal blocks and is very simple to clean and sterilize
6. Peltier design of MSC-100 provides thermal control in a compact unit



MS-100



MSC-100



Blocks for MSC-100 /MS-100

Specification

Model	MS-100	MSC-100	TMS-200	TMS-300
Temperature Control Range	RT.+5°C-100°C	0°C~100°C (if Ambient temp.≤20°C) 4°C~100°C (if Ambient temp.≤25°C) 10°C~100°C(if Ambient temp.≤30°C)	RT.+5°C-100°C	RT.+5°C-100°C
Temperature uniformity	≤0.5°C	≤0.5°C	≤0.5°C	≤0.5°C
Timer range	1min~99h59min	1min~99h59min	1min~99h59min	1min~99h59min
Temp. control accuracy	±0.5°C	±0.5°C	±0.25°C(≤37°C) ±0.5°C (≤95°C)	±0.25°C(≤37°C) ±0.5°C (≤95°C)
Display accuracy	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Mixing Speed	200-1500rpm*	200-1500rpm*	300-3000rpm	300-2000rpm
Heating Time (25-100°C)	≤12min	≤15min	≤12min	≤12min
Cooling Time	----	≤30min (from RT. to RT.-20°C) ** ≤5min (from 100°C to 20°C) **	----	----
Mixing Orbit	2mm	2mm	2mm	3mm
Dimensions (mm)	300 x 220 x 170	300 x 220 x 170	230 x 170 x 165	230 x 170 x 165
Weight	7kg	8.5kg	5.5kg	5.5kg

*Temperature and oscillation speed limit according to the type of block

**Tested in ambient temperature <25°C

02 TMS-200/TMS-300 Thermo Shaker Incubator

Features

1. Thermo shaker for microplates, tubes, and glass vials
2. Fast shaking and mixing up to 3,000rpm
3. Perfectly controlled 3-dimensional mixing prevents spilling and lid wetting
4. 2 programmable soft keys, integrated vortex and short mix functions
5. Very small, light, efficient and quiet
6. Adapter plates:
 - Microplates: - 96-, 384-, 1536-well microplates/deepwell plates/PCR plates
 - Holder: - 0.2ml PCR tubes holder, 0.5ml tubes holder, 1.5/2.0ml tubes holder
- 15ml Micro tubes holder, 50ml Micro tubes holder
 - Block: -10 types Aluminum blocks for user choosing



TMS-200



TMS-300



Blocks for TMS-200/TMS-300

Ordering information

No.	Code	Description
01	AS-02010-00	MS-100 Thermo Shaker, AC220V/AC120V, 50/60Hz, 50W
02	AS-02020-00	MSC-100 Thermo Shaker, AC220V/AC120V, 50/60Hz, 250W
03	AS-02050-00	TMS-200 Thermo Shaker, AC100V-240V, 50/60Hz, 150W
04	AS-02060-00	TMS-300 Thermo Shaker, AC100V-240V, 50/60Hz, 150W

Accessories

MS-100 / MSC-100					
No.	Code	Type	Description	Max. Temp.	Max. speed
01	AS-01051-01	A	96 x 0.2ml tubes	100°C	1500rpm
02	AS-01051-02	B	54 x 0.5 tubes	100°C	1500rpm
03	AS-01051-03	C	35 x 1.5 tubes	100°C	1500rpm
04	AS-01051-04	D	35 x 2.0 tubes	100°C	1500rpm
05	AS-01051-05	E	15 x 0.5ml+20 x 1.5ml tubes	100°C	1500rpm
06	AS-01051-06	F	24 x dimensions≤12mm tubes	100°C	1200rpm
07	AS-01051-07	G	12 x 15ml Falcon	100°C	750rpm
08	AS-01051-08	H	6 x 50ml Falcon	100°C	750rpm
09	AS-01051-09	I	103 x 67 x 30mm Bath Block	100°C	1500rpm
10	AS-01051-10	J	96 x 0.2ml Microplate	100°C	1500rpm
11	AS-01051-11	K	24 x 5ml tubes	100°C	1200rpm
12	AS-01051-12	L	96-Deep well plate	80°C	800rpm
13	AS-01051-13	M	15 x 5ml Eppendorf tubes	100°C	1200rpm
14	AS-01051-14	N	24 x 2ml tubes (Deep-hole)	100°C	1200rpm
15	AS-01051-15	O	24 x 1.5ml tubes (Deep-hole)	100°C	1200rpm
16	AS-01051-16	P	Deepwell plates 96/1000µL	100°C	1200rpm
17	AS-01051-17	Q	MTPs and Deepwell-Platten	100°C	1200rpm
TMS-200 / TMS-300					
No.	Code	Type	Description		Max. speed
01	AS-02051-01	A-200	96 x 0.2ml tubes		1700/1500rpm
02	AS-02051-02	B-200	54 x 0.5ml tubes		1700/1500rpm
03	AS-02051-03	C-200	35 x 1.5ml tubes		1700/1500rpm
04	AS-02051-04	D-200	35 x 2.0ml tubes		1700/1500rpm
05	AS-02051-05	E-200	15 x 0.5ml+20 x 0.5ml tubes		1700/1500rpm
06	AS-02051-06	F-200	24 x dimensions≤12mm tubes		1500/1200rpm
07	AS-02051-07	G-200	32 x 0.2ml+25 x 1.5ml tubes		1700/1500rpm
08	AS-02051-08	H-200	32 x 0.2ml+10 x 0.5ml+15 x 1.5ml tubes		1700/1500rpm
09	AS-02051-09	I-200	103 x 67 x 30mm Bath Block		1500/1200rpm
10	AS-02051-10	J-200	96 x 0.2ml Elisa plate		1700/1500rpm
11	AS-02051-11	K-200	24 x 5ml tubes		1500/1200rpm
12	AS-02031-01	MIX-A	96 x 0.2ml PCR tube holder		3000/2000rpm
13	AS-02031-02	MIX-B	24 x 0.5ml tube holder		3000/2000rpm

In the table fittings of TMS-200/TMS-300 above:

The number in red means Max. speed when this block in TMS-200, and the number in black means Max. speed when this block in TMS-300

03 MB100-2A/MB100-4A Thermo Shaker Incubator for plates MK100-2A/MK100-4A Incubator for plates

Description

MB100-2A/MB100-4A, MK100-2A/MK100-4A are designed for 1-4 standard 96 well plates in the thermostat mode. MK100-2A, MK100-4A only have incubation functions. MB100-2A, MB100-4A have incubation and shaking functions. A distinctive feature for the MB100-2A, MB100-4A and MK100-2A, MK100-4A is two-side heating of microtest plates that allows achieving exact correspondence of the set and actual temperature in wells of the microtest plates

Features

1. Heating plates above and below the microplates
2. Exact correspondence of the designed and actual temperature
3. LCD display. It is easy to set up and use
4. MB series have incubation and shaking functions

MB100-2A/MK100-2A



MB100-4A/MK100-4A



Specification

Model	MK100-2A	MB100-2A	MK100-4A	MB100-4A
Temperature control range	RT.+5°C--70°C	RT.+5°C--70°C	RT.+5°C--70°C	RT.+5°C--70°C
Timer range	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
Temp. control accuracy	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Display accuracy	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Shaking Speed	----	100-1200rpm	----	100-1500rpm
Mixing Orbit	----	2mm	----	2mm
Heating Time (20 to 70°C)	≤20min	≤20min	≤20min	≤20min
Platform Capacity	2 plates	2 plates	4 plates	4 plates
Dimensions (mm)	280×270×150 mm	280×270×150 mm	320×350×185 mm	320×350×185 mm
Weight	4kg	6.5kg	8kg	9kg

Ordering information

No.	Code	Description
01	AS-01140-00	MK100-2A, AC100-240V, 50/60Hz, 150W
02	AS-03030-00	MB100-2A, AC100-240V, 50/60Hz, 150W
03	AS-01060-00	MK100-4A, AC120/220V, 50/60Hz, 200W
04	AS-03020-00	MB100-4A, AC120/220V, 50/60Hz, 300W

04 MX100-4A Microplate Shaker

Description

The MX100-4A is designed for shaking ELISA plate(96 well plates), TCPS and 1.5/2.0ml centrifuge tubes

Features

1. Continuous or timing operation
2. DC brushless motor for gentle and powerful vibration
3. Orbital of 3mm for efficient mixing in small sample vessels
4. Simple spring holders for easy and quick plate installation



MX100-4A

Specification

Model	MX100-4A
Speed Setting Resolution	10rpm
Speed	200~1500rpm @Standard / 200~1000rpm @Deep well plate or tube holder
Timer range	1min~99h59min
Mixing Orbit	3mm
Input Power	AC100V -240V
Dimensions (mm)	290 x 270 x 120 mm
Weight	6.5kg

Ordering information

No.	Code	Description
01	AS-04040-00	MX100-4A Microplate shaker
02	AS-02041-01	20x1.5ml tube holder (apolegamy)
03	AS-02041-02	20x0.5ml tube holder (apolegamy)

05 MTV-1 Mini Vortex

Description

Mini vortex is the ideal vortex mixer for every lab with its compact size, easy of use, and its economic price point. The 2,500rpm fixed speed ensures there is no sacrificing any mixing power. It requires little working space and is easy-to-use.

Features

1. Touch activated vortex mixer, stable compact design
2. 2,500rpm fixed vortexing speed, powerful vortexing for tubes up to 15ml
3. MTV-1 is with a power adapter and a battery case



Specification

Model	MTV-1
Working style	Continues / Short-Spin
Shaking movement	Orbital
Mixing Orbit	3mm
Speed Range	800~2500rpm
Dimensions (mm)	74 x 91 x 84mm
Input Power	DC6V
Weight	0.35Kg

Ordering information

No.	Code	Description
01	AS-02070-00	MTV-1, DC6V, 0.6W
02	AS-02071-01	DC6V Power Adapter
03	AS-02071-02	Battery box for 4pcs AA batteries

06 MTV-100 Multi-Tube Vortex

Features

1. Pulsing Mode:

Programmable pulsing mode allows users to adjust the pulse-on and pulse-off times between 1~59 seconds in 1 second intervals. This feature enhances the vortex action by creating a vigorous mix

2. Microprocessor Control:

The variable speed microprocessor control provides consistent uniform mixing action

3. LCD Display:

Independent LCD displays for speed and time allow operator to view both settings

4. Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs



Specification

Model	MTV-100
Mixing Orbit	3.6mm
Speed Range	500-2500rpm
Timer range	1min-99h59min
Maximum Weight Capacity	4.5kg
Speed Accuracy	10rpm
Tray Dimensions (L x W)mm	310 x 180 mm
Dimensions (L x W x H)mm	426 x 250 x 480 mm
Weight	21.5kg
Power	60W

Ordering information

No.	Code	Description		
01	AS-02040-00	MTV-100, AC100~240V, 1.5A		
No.	Code	Type	Description	Dimension (mm)
01	AS-02041-01	MTV-B01	50 x Φ 10mm tube racks	245 x 132 x 45mm
02	AS-02041-02	MTV-B02	50 x Φ 12mm tube racks	245 x 132 x 45mm
03	AS-02041-03	MTV-B03	50 x Φ 13mm tube racks	245 x 132 x 45mm
04	AS-02041-04	MTV-B04	50 x Φ 16mm tube racks	245 x 132 x 45mm
05	AS-02041-05	MTV-B05	15 x Φ 25mm tube racks	245 x 132 x 45mm
06	AS-02041-06	MTV-B06	15 x Φ 29mm tube racks	245 x 132 x 45mm
07	AS-02041-00	MTV-B00	Tray pad set (upper & lower)	305 x 178.5 x 25mm

01 OS-100/OS-200 Orbital Shaker

Features

The OS-100 and OS-200 Orbital Shaker are powerful variable speed shaker which provides efficient orbital motion. Speed and time are under microprocessor control. The OS-200/OS-100 shaker can be applicable in different labs: microbiology, chemistry, immunology, biochemistry and molecular biology



PP-1



PP06-250



PP12-100



UP-1



MP-1

01 Platforms for OS-100 / OS-200

Specification

Model	OS-100	OS-200
Shaking Speed	50--300rpm	50--250rpm
Orbit	10mm	20mm
Timer range	1min~99h59min	1min~99h59min
Load capacity	See below table	See below table
Max. capacity	3.0kg	2.5kg
Motor	DC brushless	DC brushless
Operating ambient	4-45°C	4-45°C
Dimensions (mm)	280 x 270 x 110 mm	280 x 270 x 110 mm

Ordering information

No.	Code	Description
01	AS-04030-00	OS-100, AC100-240V, 50/60HZ, 2A
02	AS-04020-00	OS-200, AC100-240V, 50/60HZ, 2A
03	AS-04021-01	PP-1, flat platform with non-slip rubber mat
04	AS-04021-02	PP12-100, platform with clamps for flasks, 100-150ml
05	AS-04021-03	PP06-250, platform with clamps for flasks, 250-300ml
06	AS-04021-04	UP-1, universal platform with adjustable bars for different types of flasks, bottles
07	AS-04021-05	MP-1, platform with springs