

TT-100H/ TT-100C Thermo Shaker Incubator

HIGHLIGHTS

- Adjustable mixing speed, temperature and time with programmable features
- Simultaneous indication of set and actual temperature, speed and time
- Various block options
- Built-in temperature calibration
- With short mix operation mode
- Quiet motor operation



TT-100H/TT-100C Thermo Shaker Incubator is designed for mixing/shaking and temperature control (heating only or heating and cooling) of samples in microtubes or PCR plates.

Available with mutual interchangeable blocks to hold PCR plates, tubes ranging in size from 0.2 ml up to 50 ml.

The mixing and heating/incubation operation can be performed either combined or independently. The device can work as:

- 1 Thermo-shaker
- 2 Shaker (without temperature control)
- 3 Thermostat (without shaking/mixing)



3-IN-1 MODULE: SHAKING AND TEMPERATURE CONTROL

- Plate (shaking and mixing) 96-well and 384-well PCR plate, 96 and 384 deep well plates, MTP plates
- Tube Holder (shaking and mixing) 0.2 ml PCR tubes and PCR strip tubes, 0.5 ml microtubes, 1.5/2.0 ml microtubes
- Blocks (shaking, mixing and incubating)



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Lab Systems

APPLICATIONS

- Denaturation of DNA, RNA and proteins
- Lysis reactions at 100°C
- Plasmid/RNA/DNA purification
- Extraction of DNA fragments from agarose gels
- Biochemical study of enzymatic reactions and processes (eg. DNA restriction digestion, Proteinase K digestion and ligation)
- Extraction of lipids and other cell components
- Extraction of metabolites from cellular material
- Bacterial growth in micro-reaction vessels, deep well plates

EACH STANDARD SET INCLUDES



1 x TT-100-CLA
Standard Cover Lid



1 x TTC/H-100-MIX A
(96 x 0.2 ml)



1 x TTC/H-100-MIX B
(24 x 0.5 ml)



1 x TTC/H-100-MIX C
(24 x 1.5ml/ 2.0 ml)



Tube holder for
24 tubes 1.5/2.0 ml

Tube holder for
24 tubes 0.5 ml

Tube holder for
96 tubes 0.2 ml

Deepwell plate

Microplate

PCR plate



PV: Present value
SV: Set value



Extended height cover lid

TECHNICAL DATA

	TT-100H Thermo Shaker Incubator	TT-100C Thermo Shaker Incubator
Speed range	300-1,600 rpm (Standard) 300-2,000 rpm (Turbo mix)	300-1,500 rpm (Standard)
Orbit diameter	3 mm (horizontal)	3 mm (horizontal)
Temperature setting range	5°C - 100°C	0-100°C
Temperature control range	R.T. +5°C - 100°C	0-100°C
Temperature stability	≤±0.3°C	≤±0.3°C
Block temperature uniformity	≤±0.3°C	≤±0.3°C
Temperature display accuracy	0.1°C	0.1°C
Heating speed	≤15min (20°C to 100°C)	≤15min (20°C to 100°C)
Cooling Speed	N/A	≤30min (R.T. to R.T. -20°C) at 26°C
Digital time setting	1min to 99h 59min or continuous	1min to 99h 59min or continuous
Voltage	AC 110V or AC 220V, 50/60 Hz	AC 100 - 240V
Power	200W	200W
Fuse	250V, 2A/3A, Ø5x20	250V, 2A/3A, Ø5x20
Dimension (WxDxH)	196 x 270 x 170 mm	196 x 270 x 170 mm
Net weight	8.2 kg	8.8 kg
Permissible ambient temperature	5 – 30°C	5 – 30°C
Permissible relative humidity	≤70%	≤70%

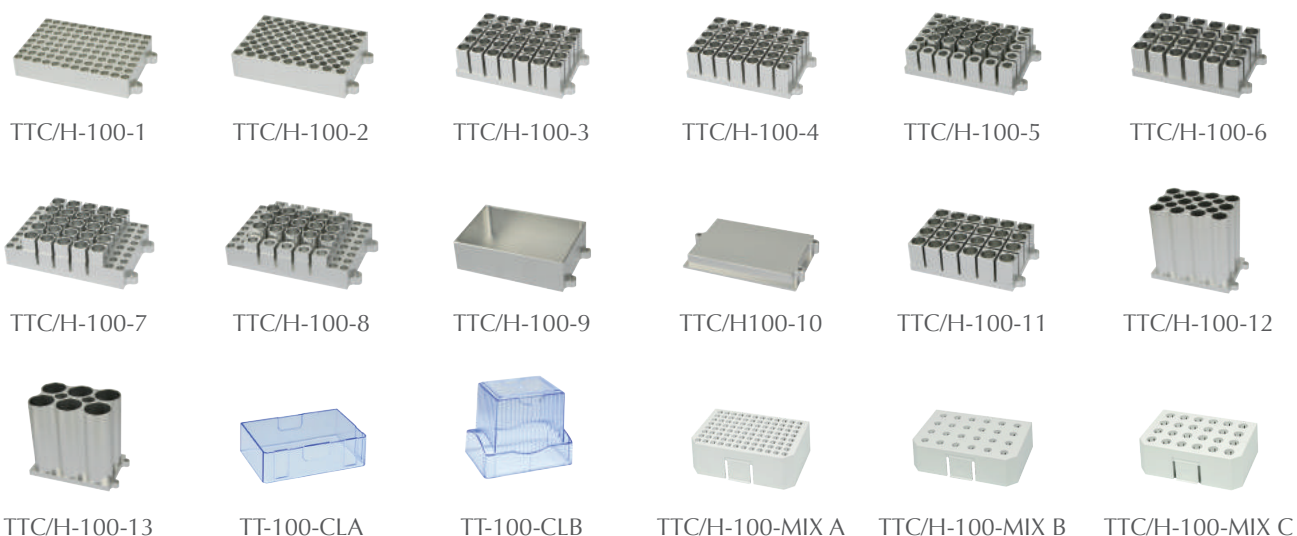
ORDERING INFORMATION

Cat. No.	Thermo Shaker Incubator
TT-100H-110V	Thermo Shaker Incubator TT-100H, Heating, R.T. +5-100°C, AC 110V
TT-100H-220V	Thermo Shaker Incubator TT-100H, Heating, R.T. +5-100°C, AC 220V
TT-100C	Thermo Shaker Incubator TT-100C, Cooling, 0-100°C, AC 100-240V

OPTIONAL ACCESSORIES

Cat. No.	Block for Thermo Shaker Incubator	Diameter of block well	Bottom shape of block well	Dimension
TTC/H-100-1	96 x 0.2 ml	6.7 mm	Cone bottom	107 x 71 x 20 mm
TTC/H-100-2	54 x 0.5 ml	8.0 mm	Cone bottom	107 x 71 x 25 mm
TTC/H-100-3	35 x 1.5 ml	10.8 mm	Cone bottom	107 x 71 x 32 mm
TTC/H-100-4	35 x 2.0 ml	10.8 mm	Round bottom	107 x 71 x 32 mm
TTC/H-100-5	20 x 0.5 ml + 15 x 1.5 ml	8.0 mm/ 10.8 mm	Cone bottom	107 x 71 x 32 mm
TTC/H-100-6	24 x dia. ≤ 12 mm	12.0 mm	Flat bottom	107 x 71 x 32 mm
TTC/H-100-7	32 x 0.2 ml + 25 x 1.5 ml	6.1 mm x 10.8 mm	Cone bottom	107 x 71 x 32 mm
TTC/H-100-8	32 x 0.2 ml + 10 x 0.5 ml + 15 x 1.5 ml	6.1 mm/ 8.0 mm/ 10.8 mm	Cone bottom	107 x 71 x 32 mm
TTC/H-100-9	Water bath block	103 x 67 x 30 mm	Flat bottom	107 x 71 x 32 mm
TTC/H-100-10	Flat bottom plate	69 x 107 x 12 mm	Flat bottom plate	116 x 71 x 15 mm
TTC/H-100-11	24 x 5 ml	13.5 mm	Flat bottom	107 x 71 x 32 mm
TTC/H-100-12	12 x 15 ml	16.9 mm	Flat bottom	107 x 71 x 100 mm
TTC/H-100-13	6 x 50 ml	29.5 mm	Flat bottom	107 x 71 x 100 mm

Note: Maximum speed for shaking blocks TTC/H-100-11, TTC/H-100-12 and TTC/H-100-13 are 600 rpm.



Cat. No.	Tube Holder for Thermo Shaker Incubator	Dimension
TTC/H-100-MIX A	Tube Holder for Thermo Shaker Incubator, 96 x 0.2 ml	122 x 80.5 x 35 mm
TTC/H-100-MIX B	Tube Holder for Thermo Shaker Incubator, 24 x 0.5 ml	122 x 80.5 x 41 mm
TTC/H-100-MIX C	Tube Holder for Thermo Shaker Incubator, 24 x 1.5 ml/ 2.0 ml	122 x 80.5 x 41 mm

Cat. No.	Cover lid
TT-100-CLA	Cover Lid for Thermo Shaker Incubator, Standard Height, For Block TTC/H-100-1 to 8, 10
TT-100-CLB	Cover Lid for Thermo Shaker Incubator, Extended Height, For Block TTC/H-100-9, 11 to 13