

TS-100 and TS-100C, Thermo-Shakers

DESCRIPTION

TS-100 and **TS-100C** thermo-shakers are designed for intensive mixing of samples in microtest tubes or PCR plates in a temperature control environment. The TS-100C model of thermo-shaker differs from TS-100 in the possibility of cooling samples down to +4°C.

Features of thermo-shakers meet the highest expectations of users according to many parameters:

- Fast reaching of specified mixing speed and maintenance of equal amplitude of rotation throughout the thermo-shaker block;
- Stability of maintaining the set temperature in a wide range throughout the block surface of thermo-shakers;
- With the help of the temperature calibration function, the user can calibrate the unit approximately $\pm 6\%$ of the selected temperature to compensate differences in the thermal behaviour of tubes from different manufacturers;
- LCD display indicates pre-set and current values of temperature, speed and time of operation;
- Quiet motor operation, compact size, prolonged service life.

Functions of heating and mixing can be performed either simultaneously or independently, that allows using the unit as three independent devices:

- Thermostat;
- Shaker;
- Thermo-shaker.

We offer five heating and cooling blocks for each model, including a block with a plastic lid for PCR-plates. Within one model of thermo-shaker, the blocks are mutually interchangeable and can be easily installed.

The devices are applicable in:

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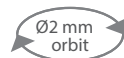
- Genetic analyses — in extraction of DNA, RNA and further sample preparation;
- Biochemistry — for studying of enzymatic reactions and processes;
- Cellular biology — extraction of metabolites from cellular material.



Premium
Product Class



Premium
Product Class



HEAT UP TIMES FOR TS-100



HEAT UP AND COOL DOWN TIMES FOR TS-100C



TS-100 and TS-100C, Thermoshakers

	TS-100		TS-100C	
Temperature setting range	+25°C ... +100°C		+4°C ... +100°C	
Temperature control range	5°C above ambient ... +100°C		15°C below ambient ... +100°C	
Temperature setting resolution			0.1°C	
Temperature stability			±0.1°C	
Temperature accuracy @ +37°C			±0.5°C	
Average heating speed:	4°C/min from +25°C to +100°C		5°C/min from +25°C to +100°C	
Average cooling speed:	—		from +100°C to +25°C	5°C/min
			from +25°C to +4°C	1.8°C/min
Temperature uniformity over the block:	@ +37°C	±0.1°C	@ +4°C	±0.6°C
	@ +60°C	±0.2°C	@ +37°C	±0.1°C
	@ +100°C	±0.2°C	@ +100°C	±0.3°C
Temperature calibration coefficient range	0.936 – 1.063 (±0.063)			
Speed control range	250–1400 rpm			
Acceleration time.	3 sec			
Orbit	2 mm			
Display	LCD, 2 × 16 signs			
Microprocessor controlled temperature, mixing speed and operation time				
Digital time setting	1 min. – 96 hrs. (1 min increment)			
Maximum continuous operation time	96 hours			
Overall dimensions (W × D × H)	205 × 230 × 130 mm			
Weight	3.2 kg		4.2 kg	
Input current/power consumption	12 V, 3.5 A/42 W		12 V, 4.9 A/60 W	
External power supply	Input AC 100–240 V, 50/60 Hz; Output DC 12 V			

ORDERING INFORMATION:

Cat. number 

TS-100 without block

BS-010120-AAI

TS-100C without block

BS-010143-AAI



Mixing Efficiency Video is available on the website



Product video is available on the website

TS-100 with block SC-24



TS-100C with block SC-96AC



Interchangeable Blocks for TS-100

Optional Blocks:		Tube's volume	Cat. number
1	SC-18	20 and 12 microtubes	0.5 ml and 1.5 ml
2	SC-18/02	20 and 12 microtubes	0.2 ml and 1.5 ml
3	SC-24	24 microtubes	2 ml
4	SC-24N	24 microtubes	1.5 ml
5	SC-96A	96-well microplate (0.2 ml) for PCR	

1 SC-18



2 SC-18/02



3 SC-24



4 SC-24N



5 SC-96A



Interchangeable Blocks for TS-100C

Optional Blocks:		Tube's volume	Cat. number
1	SC-18C	20 and 12 microtubes	0.5 ml and 1.5 ml
2	SC-18/02C	20 and 12 microtubes	0.2 ml and 1.5 ml
3	SC-24C	24 microtubes	2 ml
4	SC-24NC	24 microtubes	1.5 ml
5	SC-96AC	96-well microplate (0.2 ml) for PCR	

1 SC-18C



2 SC-18/02C



3 SC-24C



4 SC-24NC



5 SC-96AC

