

TS-100C, Thermo-Shaker with cooling for microtubes and PCR plates



DESCRIPTION

Thermo-Shaker **TS-100C** provides intensive mixing and temperature control of samples in microtest tubes or PCR plate. This model of Thermo-Shaker differs from TS-100 with a possibility of cooling samples down to +4°C. Features of **TS-100C** meet the highest expectations of users according to many parameters:

1. Fast reaching of specified mixing speed and maintenance of equal amplitude of rotation throughout the Thermo-Shaker block;
2. Stability of maintaining the preset temperature in a wide range throughout the Thermo-Shaker's block surface;
3. LCD display indicates preset and current values of temperature, speed and time of operation;
4. Quiet motor operation, compact size, prolonged service life. Functions of heating and mixing can be performed both simultaneously and independently.

There are five heating and cooling blocks available, including a block with a plastic lid for the PCR-plates. All blocks are mutually interchangeable and can be easily installed on Thermo-Shaker.

The instrument is applicable in:

- Genetic analysis — in extraction of DNA, RNA and further sample preparation;
- Biochemical study of enzymatic reactions and processes;
- Extraction of metabolites from cellular material.

Temperature Calibration Function

With the help of the temperature calibration function the user can calibrate the unit approx. $\pm 6\%$ of the selected temperature to compensate differences in the thermal behaviour of tubes from different manufacturers.

SPECIFICATION

Temperature setting range	+4°C ... +100°C
Temperature control range	15°C below ambient ... +100°C
Temperature setting resolution	0.1°C
Temperature stability	$\pm 0.1^\circ\text{C}$
Temperature accuracy at +37°C	$\pm 0.5^\circ\text{C}$
Temperature uniformity over the block	->
at +4°C	$\pm 0.6^\circ\text{C}$
at +37°C	$\pm 0.1^\circ\text{C}$
at +100°C	$\pm 0.3^\circ\text{C}$
Average heating speed from +25°C to +100°C	5°C/min
Average cooling speed from +100°C to +25°C	5°C/min



CAT. NR.

	TS-100C w/out thermoblock, incl. external power supply unit
BS-010143-AAI	230VAC 50/60Hz Euro plug
BS-010143-AAQ	230VAC 50/60Hz UK plug
BS-010143-AA4	230VAC 50/60Hz AU plug
BS-010143-AAJ	100VAC 50/60Hz US plug
BS-010143-AAJ	120VAC 60Hz US plug
-----	Optional accessories
BS-010143-AK	SC-18C
BS-010143-CK	SC-18/02C
BS-010143-EK	SC-24C
BS-010143-GK	SC-24NC
BS-010143-FK	SC-96AC

TS-100C, Thermo-Shaker with cooling for microtubes and PCR plates



Average cooling speed from +25°C to +4°C

1.8°C/min

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, 16 x 2 signs

Microprocessor controlled temperature, mixing speed and operation time +

Digital time setting 1 min-96 hrs (1 min increment)

Maximum continuous operation time max. 96 hours

Overall dimensions (WxDxH) 205x230x130 mm

Weight 4.2 kg

Input current/power consumption 12 V, 4.9 A / 60 W

External power supply Input AC 100-240 V; 50/60 Hz;
Output DC 12 V



BS-010143-HK IQ OQ document

BS-010143-IK PQ document

ACCESSORIES



SC-18C
20x0.5 ml + 12x1.5 ml microtubes



SC-18/02C
20x0.2 ml microtubes + 12x1.5 ml microtubes

TS-100C, Thermo-Shaker with cooling for microtubes and PCR plates

Premium
Product Class



SC-24C
24 x 2 ml microtubes



SC-24NC
24x1.5 ml microtubes



SC-96AC
96-well unskirted or semi-skirted microplate (0.2 ml) for PCR

biosan
Medical-Biological
Research & Technologies