

## 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. ±6% of the selected temperature to compensate differences in the thermal behaviour of tubes from different manufacturers.



### CAT. NUMBER

Without thermoblock	Without thermoblock
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, 120VAC 60Hz US plug
BS-010143-HK	IQ OQ document
BS-010143-IK	PQ document

## SPECIFICATIONS

Temperature setting range	+4°C ... +100°C
Temperature control range	15°C below ambient ... +100°C
Temperature setting resolution	0.1 °C
Temperature stability	±0.1 °C
Temperature accuracy at +37°C	±0.5 °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
Average cooling speed from +25°C to +4°C	1.8 °C/min
Temperature uniformity over the block at +4°C	±0.6 °C
Temperature uniformity over the block at +37°C	±0.1 °C
Temperature uniformity over the block at +100°C	±0.3 °C
Temperature calibration coefficient range	0.936...1.063 (± 0.063)
Speed control range	250-1400 rpm
Digital time setting	1 min – 96 hrs / non-stop (increment 1 min)
Timer sound signal	+
Orbit	2 mm
Display	LCD, 16 x 2 signs
Microprocessor controlled temperature, mixing speed and operation time	+
Maximum continuous operation time	168 h
Overall dimensions (W×D×H)	220x240x90 mm
Weight	3.7 kg
Input current/power consumption	12 V, 4.9 A / 60 W
Internal power supply	Input AC 100-240 V; 50/60 Hz; Output DC 12 V

## ACCESSORIES



SC-18C  
BS-010143-AK  
block

20 × 0.5 ml + 12 × 1.5 ml  
microtubes



SC-18/02C  
BS-010143-CK  
block

20 × 0.2 ml microtubes + 12 ×  
1.5 ml microtubes



SC-24NC  
BS-010143-GK  
block

24 x 1.5 ml microtubes



SC-24C  
BS-010143-EK  
block

24 × 2 ml microtubes



SC-96AC  
BS-010143-FK  
block

96-well unskirted or semi-  
skirted microplate (0.2 ml) for  
PCR or 12 × 8 - 0.2ml strips or  
96 tubes of 0.2 ml.