

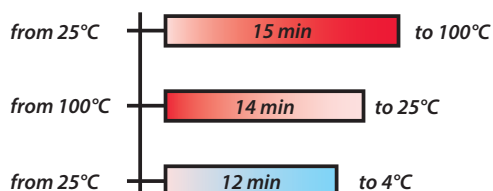
## TS-100C, Thermo-Shaker with cooling for microtubes and PCR plates



Mixing Efficiency Video is available on the website



### Heat up and cool down times for TS-100C



#### Announcement:

The new version of TS-100C with increased maximum speed till 1800 rpm and option for fast (2 sec) / slow (22 sec) acceleration will be available in the beginning of year 2012.

#### TS-100C with block SC-96AC



Description and pictures of all available blocks can be found on the next page

#### Catalogue number:

**TS-100C** without block BS-010143-AAI

Catalogue numbers of all blocks can be found on the next page

Thermo-shaker **TS-100C** provides 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 six (6) 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. Pictures and description of the blocks are provided on the next page

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.

#### 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
Temperature uniformity over the block:	
at 4°C	±0.6°C
at 37°C	±0.15°C
at 100°C	±0.3°C
Average heating speed (SC-20C block) from +25°C to +100°C	5°C/min
Average cooling speed (SC-20C block) from +100°C to +25°C	5°C/min
from +25°C to 15°C below ambient	1.8°C/min
Mixing speed range	250–1400 rpm
Orbit diameter	2 mm
Display	LCD, 16×2 signs
Microprocessor controlled temperature, mixing speed and operation time	
Digital timer with sound alarm	1 min–96 hrs (1 min increment)
Overall dimensions (W×D×H)	205×230×130 mm
Weight, not more	4 kg
Heating and cooling power	60 W
Input current/power consumption	12V, 4.9 A / 60 W
External power supply	Input AC 100-240 V 50/60Hz; Output DC 12V

# Interchangeable blocks for TS-100 C

Blocks' specifications:			
Block	Capacity	Tube's volume	Catalogue number
1 SC-18C	20 and 12 microtubes	0.5 ml and 1.5 ml	BS-010143-AK
2 SC-20C	20 microtubes	1.5 ml	BS-010143-BK
3 SC-18/02C	20 and 12 microtubes	0.2 ml and 1.5 ml	BS-010143-CK
4 SC-20NC	20 microtubes	2 ml	BS-010143-DK
5 SC-24C	24 microtubes	2 ml	BS-010143-EK
6 SC-96AC	96-well microplate (0.2 ml) for PCR		BS-010143-FK

1 SC-18C



2 SC-20C



3 SC-18/02C



4 SC-20NC



5 SC-24C



6 SC-96AC



Cooling element  
(Peltier)

