

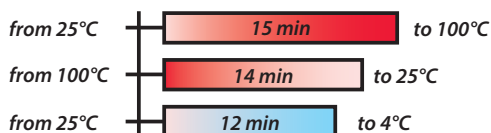


Product video is available on the website



Mixing Efficiency Video is available on the website

Heat up and cool down times for TS-100C



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.

TS-100C with block SC-96AC

**Catalogue number:**

TS-100C without block BS-010143-AAI

Catalogue numbers and descriptions of all blocks can be found on page 26

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. Pictures and description of the blocks are provided on the page 26.

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 @ +37°C	±0.5°C
Temperature uniformity over the block:	
@ +4°C	±0.6°C
@ +37°C	±0.1°C
@ +100°C	±0.3°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
from +25°C to +4°C	1.8°C/min

U↑ Temperature calibration coefficient range	0.936...1.063 (± 0.063)
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Speed control range	250–1,400 rpm
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U↑	Acceleration time	3 sec
1	0.000000	0.000000
2	0.000000	0.000000
3	0.000000	0.000000
4	0.000000	0.000000
5	0.000000	0.000000
6	0.000000	0.000000
7	0.000000	0.000000
8	0.000000	0.000000
9	0.000000	0.000000
10	0.000000	0.000000
11	0.000000	0.000000
12	0.000000	0.000000
13	0.000000	0.000000
14	0.000000	0.000000
15	0.000000	0.000000
16	0.000000	0.000000
17	0.000000	0.000000
18	0.000000	0.000000
19	0.000000	0.000000
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21	0.000000	0.000000
22	0.000000	0.000000
23	0.000000	0.000000
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66	0.000000	0.000000
67	0.000000	0.000000
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69	0.000000	0.000000
70	0.000000	0.000000
71	0.000000	0.000000
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74	0.000000	0.000000
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81	0.000000	0.000000
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83	0.000000	0.000000
84	0.000000	0.000000
85	0.000000	0.000000
86	0.000000	0.000000
87	0.000000	0.000000
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93	0.000000	0.000000
94	0.000000	0.000000
95	0.000000	0.000000

Orbit 2 mm

Display	LCD, 16×2 signs
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Microprocessor controlled temperature, mixing speed and operation time

Digital time setting	1 min–96 hrs (1 min increment)
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Maximum continuous operation time	max. 96 hours
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Overall dimensions (W×D×H)	205×230×130 mm
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Weight	3.7 kg
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Input current/power consumption	12 V, 4.9 A / 60 W
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External power supply	Input AC 100–240 V 50/60 Hz; Output DC 12 V
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Interchangeable Blocks for TS-100

Block	Capacity	Tube volume	Catalogue number
1 SC-18	20 and 12 microtubes	0.5 ml and 1.5 ml	BS-010120-AK
2 SC-18/02	20 and 12 microtubes	0.2 ml and 1.5 ml	BS-010120-CK
3 SC-24	24 microtubes	2 ml	BS-010120-EK
4 New! SC-24N	24 microtubes	1.5 ml	BS-010120-GK
5 SC-96A	96-well microplate (0.2 ml) for PCR		BS-010120-FK

1 SC-18



2 SC-18/02



3 SC-24



4 SC-24N

New!



5 SC-96A



Interchangeable Blocks for TS-100C

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-18/02C	20 and 12 microtubes	0.2 ml and 1.5 ml	BS-010143-CK
3 SC-24C	24 microtubes	2 ml	BS-010143-EK
4 New! SC-24NC	24 microtubes	1.5 ml	BS-010143-GK
5 SC-96AC	96-well microplate (0.2 ml) for PCR		BS-010143-FK

1 SC-18C



2 SC-18/02C



3 SC-24C



4 SC-24NC

New!



5 SC-96AC



Cooling element
(Peltier)

