

TS-100, Thermo-Shaker for Microtubes and PCR plates

Thermo-Shaker **TS-100** provides intensive mixing and temperature control of samples in microtest tubes or PCR plate. Functions of heating and mixing can be performed both simultaneously and independently, i.e. the unit implements three devices in one:

1. Shaker;
2. Dry-block Thermostat;
3. Thermo-Shaker.

TS-100 is used for DNA analysis sample preparation, for extraction of proteins, polysaccharides, lipids and other cellular components.

Heating source is a printed heating board (12 V). Mixing is provided by movement of orbital type.

The instrument is applicable in:

- DNA analysis — DNA extraction;
- Biochemical study of enzymatic reactions and processes;
- Extraction of metabolites from cellular material.

Specifications:

Temperature setting range	+25°C ... +100°C
Temperature control range	5°C above ambient ... +100°C
Temperature setting resolution	0.1°C
Temperature stability	±0.1°C
Temperature accuracy @ +37°C	±0.5°C
Average heating speed from +25°C to +100°C	4°C/min
Temperature uniformity over the block:	
@ +37°C	±0.1°C
@ +60°C	±0.2°C
@ +100°C	±0.2°C

U↑ Temperature calibration coefficient range	0.936...1.063 (± 0.063)
Speed control range	250–1,400 rpm
U↑ Acceleration time	3 sec
Orbit	2 mm
Microprocessor controlled temperature, mixing speed and operation time	
Display	LCD, 16 × 2 signs
Digital time setting	1 min–96 hrs (1 min increment)
Maximum continuous operation time	max. 96 hours
Overall dimensions (W × D × H)	205 × 230 × 130 mm
Weight	3.2 kg
Input current/power consumption	12 V, 3.5 A / 42 W
External power supply	Input AC 100–240 V 50/60 Hz; Output DC 12 V

Catalogue number:

TS-100 without block BS-010120-AAI

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

Upgraded↑

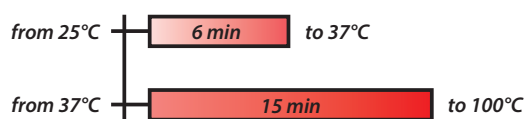


Product video is available on the website



Mixing Efficiency Video is available on the website

Heat up times for TS-100



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.

TS-100 with block SC-24



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)

