

Thermo Shaker TS-100 for Microtubes and PCR Plates

Description

Thermo Shaker TS-100 provides intensive mixing and temperature control of samples in microtest tubes or PCR plate.

Heating and mixing can be carried out either simultaneously or independently, i.e. the unit integrates three devices in one:

1. Shaker;
2. Dry Block Thermostat;
3. Thermo Shaker

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

Typical Applications:

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

Specifications

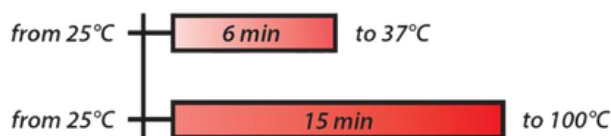
TS-100 is used for DNA analysis sample preparation, for extraction of proteins, polysaccharides, lipids and other cellular components. Features of TS-100 meet the increased requirements of the user, including:

- Quickly reaches the set mixing speed and maintains same amplitude of rotation around the block;
- Stable maintenance of the temperature of a wide range over the entire surface of the block;
- LCD display shows the set and actual temperature, speed and time;
- Quiet engine operation, compact size, long service life.
- **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.



Thermo shaker TS-100 with block SC-18

Heat up times for TS-100



Thermo Shaker TS-100



Technical Data

Order Number TS-100C Blocks must be ordered separately (see page 3)	104.1790 (Basic unit without block)
Temperature setting range	+25°C up to +100°C
Temperature control range	5°C above ambient up to +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	4°C/min
Temperature uniformity over the block at +37°C	±0.1°C
Temperature uniformity over the block at +60°C	±0.2°C
Temperature uniformity over the block at +100°C	±0.2°C
Temperature calibration coefficient range	0.936...1.063 (± 0.063)
Speed control range	250 – 1400 rpm
Orbit	2 mm
Display	LCD, 16 x 2 sings
Digital time setting	1 min – 96 hrs (increment 1 min)
Timer sound signal	Yes
Microprocessor controlled temperature, mixing speed and operation time	Yes
Maximum continuous operation time	max. 168 hrs
Overall dimensions (W × D × H)	220 x 240 x 90 mm
Weight	3.7 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

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Blocks

All blocks are mutually interchangeable and can be easily mounted.



Block SC-18
20 x 0.5 ml
+ 12 x 1.5 ml
microtubes



Block SC-18/02
20 x 0.2 ml
+ 12 x 1.5 ml
microtubes



Block SC-24N
24 x 1.5 ml
microtubes



Block SC-24
24 x 2 ml
microtubes



Block SC-96A
96-well unskirted
or semi-skirted
microplates (0.2 ml)
12 x 8 strip tubes
(0.2 ml) or
96 x 0.2 ml tubes.



Block VP-8/5
8 x 5 ml
conical tubes



Block VP-4
4 x 50 ml
conical tubes



Block VP-8/15
4 x 15 ml
conical tubes



Block VP-32
32 x 0.5 ml
microtubes



Block VP-CV-20
20 x 10 mm
cuvettes



Block VP-CL-24
24 x 3.6 – 4.5 ml
cryotubes



Block VP-CS-24
24 x 1 – 1.8 ml
cryotubes



Block VP-20
20 x Ø 12 mm
tubes with round
bottom