

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.

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

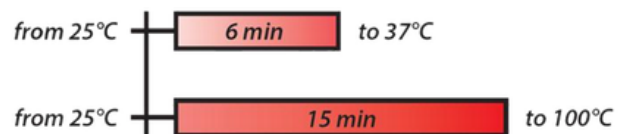
TS-100 is used for DNA analysis sample preparation, for extraction of proteins, polysaccharides, lipids and other cellular components. Features of TS-100 meet the increased requirements of the user, including:

- 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
Part number: 104.1790

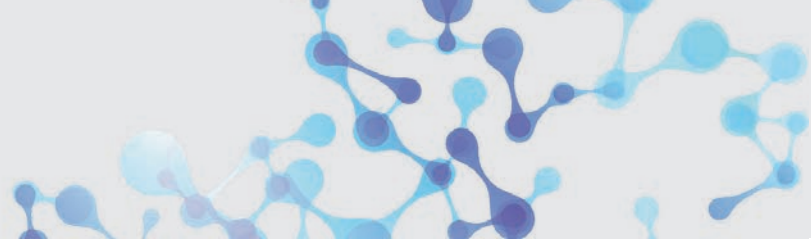
Heat up times for TS-100



Thermo Shaker TS-100

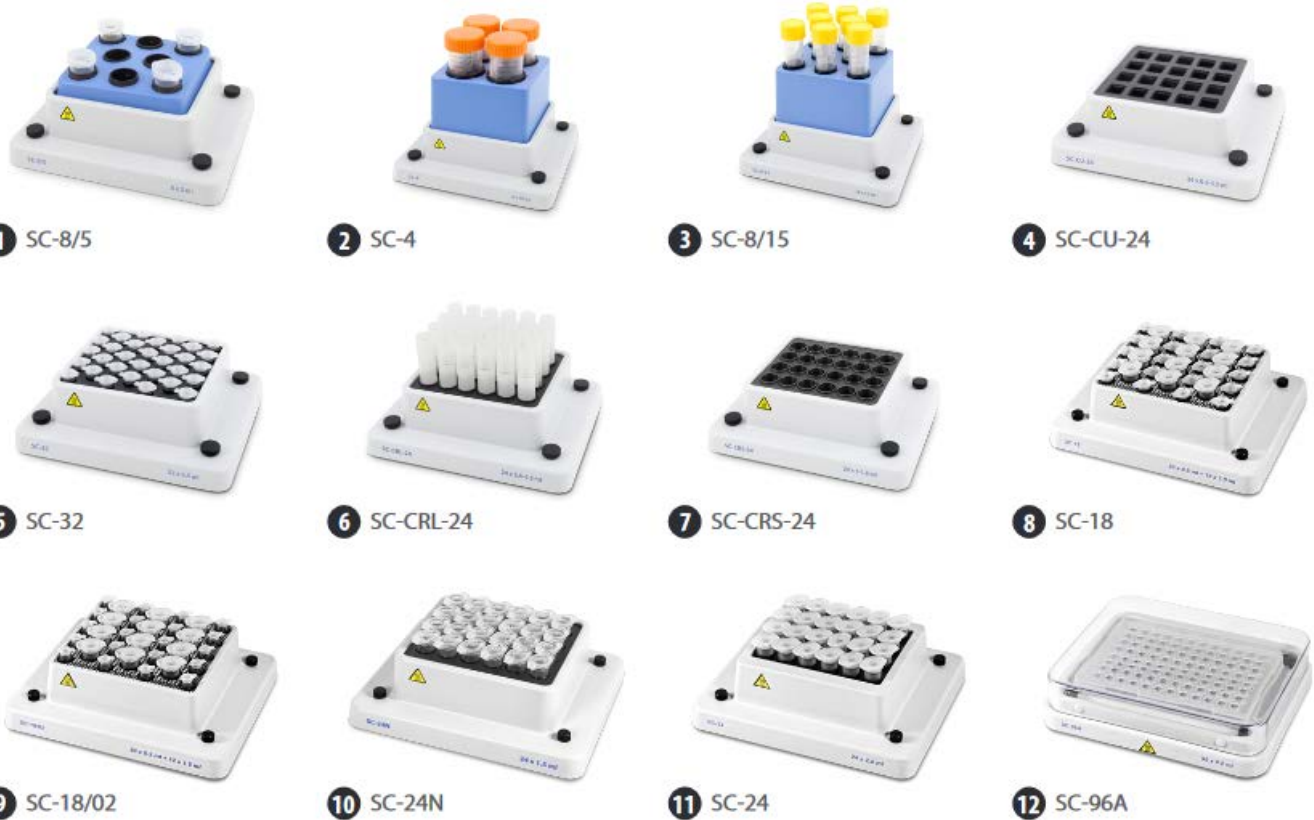
Technical Data

Order Number TS-100C Blocks must be ordered separately!	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 signs
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



Optional Block	Description	Max. RPM	Max. Temperature
SC-8/5	8 x 5 ml falcon tubes	1200	100
SC-4	4 x 50 ml falcon tubes	1000	80
SC-8/15	8 x 15 ml falcon tubes	1100	80
SC-CU-24	24 x 0.2 – 4.5 ml cuvette	1100	80
SC-32	32 x 0,5 ml microtubes	1400	100
SC-CRL-24	24 x 3,6 – 4.5 ml cryotubes	1300	100
SC-CRS-24	24 x 1 – 1.8 ml cryotubes	1400	100
SC-18	20 x 0.5 ml + 12 x 1.5 ml microtubes	1400	100
SC-18/02	20 x 0.2 ml microtubes + 12 x 1.5 ml microtubes	1400	100
SC-24N	24 x 1.5 ml microtubes	1400	100
SC-24	24 x 2 ml microtubes	1400	100
SC-96A	96 x 0.2 ml unskirted or semi-skirted microplates for PCR or 12 x 0.2 ml strip tubes or 96 x 0.2 ml tubes	1400	100