

Thermo Shaker TS-100C with Cooling

Description

Thermo Shaker TS-100C provides intensive mixing and temperature control of samples in microtest tubes or PCR plates. This model of Thermo Shaker differs from TS-100 with a possibility of cooling samples down to +4°C.

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. (s. page 3).

Two models available:

- TS-100C: (Order number: 104.1800)
Operation via touch pad
- TS-100C Smart: (Order number: 104.1805)
PC-controlled with Bluetooth connection
or operation via touch pad

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.

Specifications

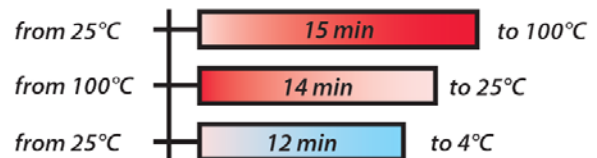
Features of TS-100C meet the highest expectations of users according to many parameters:

- Fast reaching of specified mixing speed and maintenance of equal amplitude of rotation throughout the Thermo-Shaker block;
- Stability of maintaining the preset temperature in a wide range throughout the Thermo-Shaker's block surface;
- LCD display indicates preset and current values of temperature, speed and time of operation;
- Quiet motor operation, compact size, prolonged service life.
- **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.

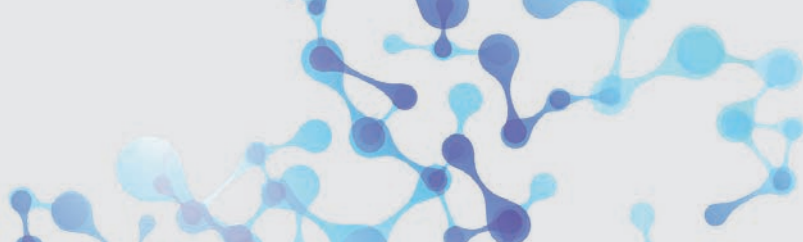


TS-100C Thermo shaker with colling and touch pad

Heat up and cool down times for TS-100C



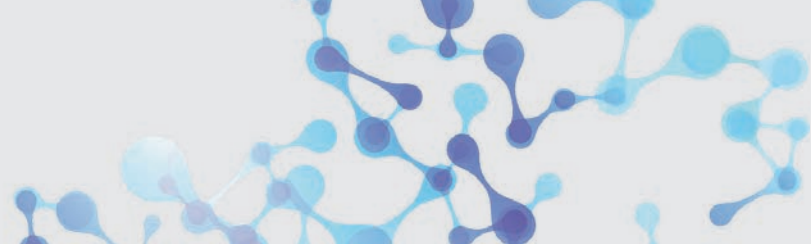
TS-100C Smart Thermo Shaker with Cooling
PC-controlled with Bluetooth connection
or operation via touch pad



Thermo Shaker TS-100C with Cooling

Technical Data

Order Number TS-100C Order Number TS-100-C Smart Blocks must be ordered separately!	104.1800 (Basic unit without block) 104.1805 (Basic unit without block)
Temperature setting range	+4°C up to +100°C
Temperature control range	15°C below ambient up to +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 ±0.1°C at +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
Average cooling speed from +25°C to +4°C	1.8°C/min
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, 4.9 A / 60 W
External power supply	Input AC 100 - 240 V 50/60 Hz, Output DC 12 V



Thermo Shaker TS-100C / Smart



Blocks

All blocks are interchangeable and can be easily mounted.

1 SC-18C



2 SC-18/02C



3 SC-24C



4 SC-24NC



5 SC-96AC



Optional Block	Description	Max. rpm
SC-18C	20 und 12 microtubes	0.5 ml and 1.5 ml
SC-18/02C	20 und 12 microtubes	0.5 ml and 1.5 ml
SC-24C	24 microtubes	2 ml
SC-24NC	24 microtubes	1.5 ml
SC-96AC	96-well unskirted or semi-skirted mikroplates (o.2 ml) for PCR	1400