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

Premium Product Class

DESCRIPTION

Thermo–Shaker **TS-100** provides intensive mixing and temperature control of samples in microtest tubes or PCR plate. Functions of heating (up to +100°C) 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. 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.

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

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.

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.

CAT. NUMBER

Without thermoblock	Without thermoblock
BS-010120-AAI	230VAC 50/60Hz Euro plug
BS-010120-AAQ	230VAC 50/60Hz UK plug
BS-010120-AA4	230VAC 50/60Hz AU plug
BS-010120-AAJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010120-HK	IQ OQ document
BS-010120-IK	PQ document

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 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 +100°C	±0.2°C
Temperature calibration coefficient range	0.936...1.063 (± 0.063)
Speed control range	250–1400 rpm
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Timer sound signal	+
Orbit	2 mm
Display	LCD, 16 x 2 signs
Microprocessor controlled temperature, mixing speed and operation time	+
Maximum continuous operation time	168 h
Overall dimensions (W×D×H)	220x240x90 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

ACCESSORIES



SC-18
BS-010120-AK
block

20 × 0.5 ml + 12 × 1.5 ml microtubes



SC-18/02
BS-010120-CK
block

20 × 0.2 ml microtubes + 12 × 1.5 ml microtubes



SC-24N
BS-010120-GK
block

24 x 1.5 ml microtubes



SC-24
BS-010120-EK
block

24 × 2 ml microtubes



SC-96A
BS-010120-FK
block

96-well unskirted or semi-skirted microplate (0.2 ml) for PCR or 12 × 8 - 0.2ml strips or 96 tubes of 0.2 ml.



VP-8/5
BS-010175-SK
block

8 × 5 ml conical tubes



VP-4
BS-010175-GK
block

4 × 50 ml conical tubes



VP-8/15
BS-010175-HK
block

8 × 15 ml conical tubes



VP-32
BS-010175-JK
block

32 × 0.5 ml microtubes



VP-CV-20
BS-010175-IK
block

20 × 10mm cuvettes



VP-CL-24
BS-010175-KK
block

24 × 3.6–4.5 ml cryotubes



VP-CS-24
BS-010175-LK
block

24 × 1–1.8 ml cryotubes



VP-20
BS-010175-TK
block

20 × ø12 mm round bottom tubes