

TS-100C Pro, Programmējams termokratītājs ar sildīšanu un dzesēšanu



APRAKSTS

The TS-100C Pro is a programmable laboratory thermo-shaker that combines precise heating and cooling, intensive mixing and interchangeable thermoblocks in one compact instrument. Designed for repeatable sample-preparation workflows, it allows users to create and save multi-step programs directly on the touchscreen. This reduces repeated manual parameter changes and the need to transfer samples between separate heating, cooling and mixing instruments.



KEY BENEFITS

- **Heating, cooling and mixing** in one instrument for efficient temperature-controlled sample preparation.
- **Mixing speeds up to 2500 rpm** support intensive mixing, bead resuspension, extraction and lysis workflows.
- **Automatic thermoblock recognition** identifies the installed block and limits the maximum mixing speed accordingly.
- **Quick thermoblock exchange** without external tools or separate cable connections reduces setup time between applications.
- **Advanced on-screen programming** with up to 20 saved programs and up to 20 steps per program, including holds, repetitions and parameter transitions.
- **Clear touchscreen interface** displays set and actual temperature, speed, time and program status at a glance.
- **Quick Mix function** starts a short mixing cycle using the selected parameters without creating a complete program.
- **Optional heated lid** helps minimise condensation during temperature-controlled workflows. The instrument recognises the lid automatically, while lid heating can be switched on or off as required.
- **Five configurable user profiles and screen lock** help protect established methods and prevent unintended changes in shared laboratories.
- **Integrated system and maintenance information** provides access to the serial number, firmware version, operating hours, calibration status, service reminders and diagnostics. The operating manual can be accessed using an on-screen QR code.

APPLICATIONS

The TS-100C Pro is suitable for **DNA and RNA extraction, NGS library preparation, magnetic-bead cleanup and resuspension, cell lysis, protein extraction, enzymatic reactions, incubation, hybridisation and analytical sample preparation.**

A range of interchangeable thermoblocks allows the instrument to be configured for different compatible tubes, strips and plate formats.

*Maximum mixing speed depends on the installed thermoblock.

SPECIFIKĀCIJA

Temperatūras iestatīšanas diapazons	4°C ... +100°C
Temperatūras kontroles diapazons	15°C zem apkārtējās ... +100°C
Temperatūras iestatīšanas solis	0.1°C
Temperatūras stabilitāte	±0.1°C
Temperatūras precizitāte pie +37°C	±0.5°C
Vidējais uzsildes ātrums no +25°C līdz +100°C	8°C/min
Vidējais atdzesēšanas ātrums no +100°C līdz +25°C	5°C/min
Vidējais atdzesēšanas ātrums no +25°C līdz +4°C	1.8°C/min
Temperatūras viendabīgums blokā pie +4°C	±0.6°C
Temperatūras viendabīgums blokā pie +37°C	±0.1°C
Temperatūras viendabīgums blokā pie +100°C	±0.3°C
Temperatūras kalibrācijas koeficienta diapazons	0.936...1.063 (± 0.063)
Apgriezienu regulēšanas diapazons	250–2500 apgr/min
Digitāla laika iestatīšana	1 min–96 st. / nepārtraukti (solis 1 min)
Orbitas diametrs	2 mm
Displejs	3,5" TFT, 320x480
Maksimālais nepārtrauktās darbības laiks	168 st.
PC connection	USB-C
Svars	5,1 kg
Ieejas strāva / jauda	12 V DC, 11,5 A / 138 W
Ārējais barošanas bloks	Ieeja AC 100–240 V; 50–60 Hz; Izeja DC 12 V



TSP-20/RB12
BS-010178-AK
bloks

20 × mēģenēm ar lodveida
pamatni, Ø12 mm

TSP-24/1.5
BS-010178-KK
bloks

24x1.5 ml mēģenes

TSP-24/2.0
BS-010178-JK
bloks

24 × 2 ml mēģenes

TSP-96/PCR
BS-010178-HK
bloks

96 mikromēģeņu PCR
mikroplate (0.2 ml) vai 12 × 8-
vietīgām pa 0,2 ml strip tipa
mēģenēm vai 96 × 0,2 ml
mikromēģenēm

TSP-20/0.5+12/1.5
BS-010178-MK
bloks

20 × 0,5 ml + 12 × 1,5 ml
mēģenes

TSP-20/0.2+12/1.5
BS-010178-LK
bloks

20 × 0,2 ml + 12 × 1,5 ml
mēģenes

TSP-32/0.5
BS-010178-EK
bloks

32 × 0.5 ml mēģenes

TSP-8/5
BS-010178-IK
bloks

8 × 5 ml koniskajām mēģenes

TSP-8/15
BS-010178-FK
bloks

8 × 15 ml koniskajām mēģenes

TSP-4/50
BS-010178-GK
bloks

4 × 50 ml koniskajām mēģenes

TSP-20/CV10
BS-010178-DK
bloks

20 × 10 mm kivetēm

TSP-24/CRYO4
BS-010178-CK
bloks

24 × 3.6–4.5 ml kriomēģenēm

TSP-24/CRYO1.8
BS-010178-BK
bloks

24 × 1–1.8 ml kriomēģenēm



**Apsildāms vāks modelim TS-100C
Pro**
BS-010178-NK

Noņemams, neatkarīgi
apsildāms pārsegs, kas
nodrošina temperatūras un
kondensāta kontroli