

TS-100C Pro, Termoagitatore programmabile con riscaldamento e raffreddamento

DESCRIZIONE

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.

SPECIFICHE

Range di impostazione temperatura	+4°C ... +100°C
Range di controllo temperatura	15°C sotto temperatura ambiente ... +100°C
Risoluzione impostazioni temperatura	0.1°C
Stabilità temperatura	±0.1°C
Accuratezza temperatura a +37°C	±0.5°C
Velocità di riscaldamento media da +25°C a +100°C	8°C/min
Velocità di raffreddamento media da +100°C a +25°C	5°C/min
Velocità di raffreddamento media da +25°C a +4°C	1.8°C/min
Uniformità temperatura sul blocco a +4°C	±0.6°C
Uniformità temperatura sul blocco a +37°C	±0.1°C
Uniformità temperatura sul blocco a +100°C	±0.3°C
Intervallo dei coefficienti di calibrazione della temperatura	0.936...1.063 (± 0.063)
Range di controllo della velocità	250–2500 rpm
Impostazione digitale del tempo	1 min–96 ore / non–stop (incremento 1 min)
Orbita	2 mm
Display	3,5" TFT, 320x480
Tempo di funzionamento continuo massimo	168 ore
PC connection	USB-C
Peso	5,1 kg
Corrente di ingresso/Consumo energetico	12 V DC, 11,5 A / 138 W
Alimentatore esterno	Ingresso CA 100–240 V; 50–60 Hz; uscita CC 12 V

ACCESSORI



TSP-20/RB12
BS-010178-AK
blocco

20 provette a fondo tondo Ø12 mm

TSP-24/1.5
BS-010178-KK
blocco

microprovette 24 x 1,5 ml

TSP-24/2.0
BS-010178-JK
blocco

microprovette 24 x 2 ml

TSP-96/PCR
BS-010178-HK
blocco

Micropiastra a 96 pozzetti (0,2 ml) per la PCR o per 12 strisce di microprovette da 0,2 a 8 sezioni o per 96 microprovette da 0,2 ml

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

microprovette 20 x 0,5 ml + 12 x 1,5 ml

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

microprovette 20 x 0,2 ml + 12 x 1,5 ml

TSP-32/0.5
BS-010178-EK
blocco

microprovette 32 x 0,5 ml

TSP-8/5
BS-010178-IK
blocco

8 provette coniche da 5 ml

TSP-8/15
BS-010178-FK
blocco

8 provette coniche da 15 ml

TSP-4/50
BS-010178-GK
blocco

4 provette coniche da 50 ml

TSP-20/CV10
BS-010178-DK
blocco

20 cuvette da 10 mm

TSP-24/CRYO4
BS-010178-CK
blocco

24 criotubi da 3,6–4,5 ml

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

24 criotubi da 1–1,8 ml



Coperchio riscaldato per TS-100C Pro
BS-010178-NK

Copertura riscaldata indipendente e rimovibile, per il controllo termico e della condensa