

MTP200

Thermo Shaker for Microplates • Two Plates • RT+5 °C to 80 °C • 200–1600 rpm

MTP200 Thermo Shaker for Microplates heats and shakes two plates at the same bench position. The plate area is held from 5 °C above the room up to 80 °C by a heating film under PID control, to ± 0.5 °C, while a brushless DC drive shakes from 200 to 1600 rpm on a 3 mm orbit. It takes ELISA microplates with 96 or 384 wells and 96-well tissue culture plates. Product code **PRO4503**.

RT+5 °C TO 80 °C

200–1600 RPM

3 MM ORBIT

TWO PLATES

± 0.5 °C ACCURACY

HEATING FILM

BRUSHLESS DC MOTOR

PID CONTROL

SKU PRO4503

Document type: **Technical Specification Sheet**

Product: **MTP200 Thermo Shaker for Microplates**

Main unit SKU: **PRO4503**

Format: **A4 landscape • CORE-TECHSPEC 1.0**

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MTP200 • thermo shaker for microplates • two plate positions • SKU PRO4503



MTP200 • plate platform • two positions with plate clamps

MODEL
MTP200

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MTP200 • technical specification

Microplate thermo shaker, RT+5 °C to 80 °C, two plates, 200–1600 rpm on a 3 mm orbit

LCD DISPLAY

PID CONTROL

HEATING FILM

3 MM ORBIT

TWO PLATES

BRUSHLESS DC MOTOR

— Incubation and shaking of plates on one bench position



Product Overview

Application profile

ELISA workflows: incubation and shaking of 96- and 384-well ELISA microplates in routine diagnostic and research work.

Cell culture plates: 96-well tissue culture plates held at a set temperature while the plate is being mixed.

Enzyme work: enzyme reactions and heat inactivation steps that need a defined temperature and continuous movement.

PCR preparation: sample and reagent preparation before the run, and holding enzymes or DNA libraries at the workstation.

Key features

Heating: RT+5 °C to 80 °C by heating film under PID control, $\leq \pm 0.5$ °C accuracy and uniformity, 0.1 °C on the display.

Heating time: ≤ 10 min from room temperature to 80 °C.

Shaking: 200 to 1600 rpm on a 3 mm orbit, driven by a brushless DC motor.

Capacity: two microplates or culture plates at the same time.

Operation: LCD display and a one-touch knob; the timer runs from 1 min to 99 h 59 min.

After a power cut: the instrument continues the run when power returns.

What the two-plate area changes

Two plates per run: both positions are heated and shaken together, so a plate does not wait for the previous one to finish.

One instrument instead of two: the plate is incubated and mixed in the same place, without moving it between an incubator and a shaker.

Plate-first design: the working area takes the plate directly — there are no interchangeable tube blocks to order, choose or store.

Unattended finish: the timer runs to 99 h 59 min with an alarm at the end, and the instrument resumes the run by itself after a power interruption.

Core technical summary

Parameter	Specification
Model	MTP200
Product type	Thermo shaker for microplates
Temperature control	RT+5 °C to 80 °C
Shaking speed	200–1600 rpm
Orbit	3 mm
Capacity	2 microplates or culture plates
Timer	1 min – 99 h 59 min
Dimensions • weight	280 × 270 × 140 mm • 7.0 kg
Main unit SKU	PRO4503

TEMPERATURE

RT+5 to 80 °C

SPEED

200–1600 rpm

ORBIT

3 mm

CAPACITY

2 plates

RT = room temperature; the lowest working temperature is therefore 5 °C above the room, not an absolute value. MTP200 is a heating instrument — it has no cooling. Plate type, plate height and protocol settings are confirmed in the COLO.Science quotation.

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Technical Specifications

Parameter	MTP200	Parameter	MTP200
Temperature control range	RT+5 °C to 80 °C	Timing range	1 min – 99 h 59 min
Temperature accuracy	≤ ±0.5 °C	Sample capacity	2 microplates or culture plates
Temperature uniformity	≤ ±0.5 °C	Power	150 W
Display accuracy	0.1 °C	Supply voltage	AC220 V or AC110 V, 50/60 Hz
Heating time	≤ 10 min, from RT to 80 °C	Dimensions (W × D × H)	280 × 270 × 140 mm
Heating method	Heating film	Net weight	7.0 kg
Shaking speed	200–1600 rpm	Main unit SKU	PRO4503

Operating notes

Lowest temperature: RT+5 °C is relative to the room — in a laboratory at 22 °C the lowest setting that can be held is 27 °C, not 5 °C.

Reaching 80 °C: ≤ 10 min from room temperature; a run that starts at the set point should allow for that time.

Speed and volume: 1600 rpm is the instrument maximum; the usable speed depends on the well volume and on whether the plate is sealed.

Long runs: the timer runs to 99 h 59 min and sounds an alarm at the end; the run resumes by itself if power is interrupted.

Mains: the voltage version, AC220 V or AC110 V, is fixed in the instrument and is chosen when the order is placed.

Typical protocol settings

Antibody incubation: 37 °C with slow shaking while the plate is covered — a common ELISA step.

Room-temperature steps: at least 5 °C above the room; for a step that must stay at ambient, the heater is simply not used.

Cell culture plates: held at a set temperature while the plate is gently mixed.

Heat inactivation: up to 80 °C — a protocol that needs 95 °C is outside this model.

What the specification does not state

Maximum plate height: the plate type is named, the height is not — deep-well plates are checked against the working area before ordering.

Sound level and protection rating: no figure is given, so none is quoted here.

Fuse rating: not stated for this model.

Temperature at the well: accuracy and uniformity are stated for the working area; the temperature inside the liquid depends on plate, volume and lid.

When a different instrument fits better

Tubes instead of plates: for 0.5 to 50 ml tubes, a dry-block thermo shaker with interchangeable blocks is the right platform.

Cooling needed: MTP200 only heats; a protocol that must go below room temperature needs a cooled model.

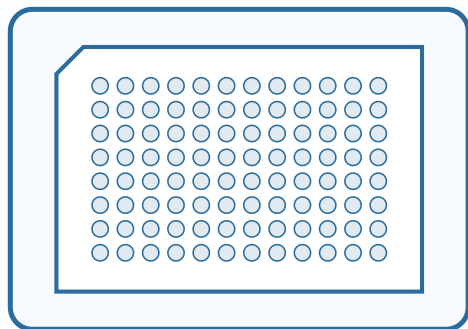
Above 80 °C: this model stops at 80 °C.

More than two plates: larger plate capacities exist in the same range — ask for the comparison.

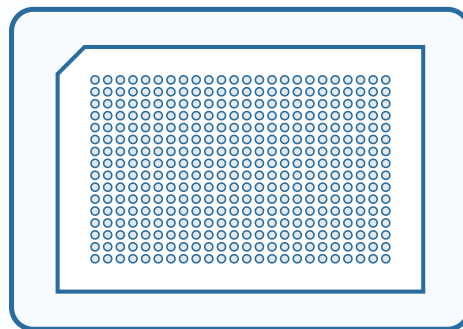
Values are the ones stated in the MTP200 specification. Mixing orbit is 3 mm; the specification states no separate amplitude, sound level, ingress protection rating or fuse rating, so none is given here. The voltage version is selected at order — the instrument is not a wide-range input model.

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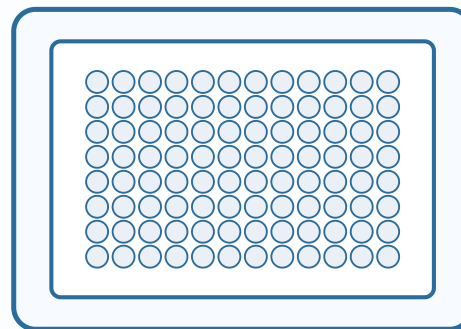
Plate Formats and Working Area



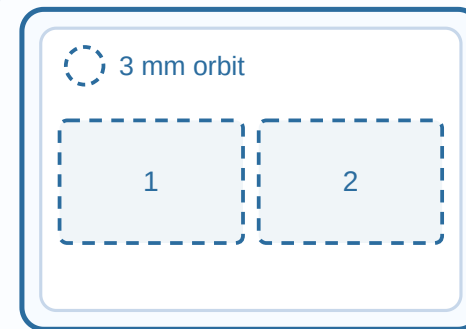
96-well microplate
8 × 12
standard format



384-well microplate
16 × 24
standard format



96-well tissue culture plate
8 × 12
standard format



Working area
2 plate positions
from specification

Schematic top view, for orientation only. The 8 × 12 and 16 × 24 well layouts and the 127.8 × 85.5 mm plate footprint are the standard microplate format (ANSI/SLAS), not a measurement of the instrument. What the specification states is the plate type the instrument accepts — ELISA microplates with 96 or 384 wells and 96-well tissue culture plates — and that two plates are carried at the same time. Plate height, skirt type and lid clearance are to be confirmed against the supplier drawing before ordering.

Plate format	Wells	Note
ELISA microplate	96 wells	Standard microplate footprint
ELISA microplate	384 wells	Standard microplate footprint
Tissue culture plate	96 wells	Standard microplate footprint
Plate positions	2 at a time	Both positions heat and shake together

Working area — what the specification states

Plate type: ELISA microplates with 96 or 384 wells and 96-well tissue culture plates.

Positions: two plates, heated and shaken together; the positions are not timed separately.

Heating: heating film under the plate area, PID controlled, ≤ ±0.5 °C accuracy and uniformity.

Movement: orbital, 3 mm, from 200 to 1600 rpm.

Before you order — check the plate, not only the format

Plate height: the specification names the plate type but not a maximum height; deep-well plates are to be checked against the working area.

Skirt: skirted and semi-skirted PCR plates sit differently from an ELISA plate; confirm the exact plate before ordering.

Lid: whether a lid stays on during shaking depends on the plate, not on the instrument.

Speed: 1600 rpm is the instrument maximum; the usable speed is the one the liquid volume and the plate tolerate.

The instrument is supplied ready for plates — there are no separate blocks to order. Deep-well plates, PCR plates with a skirt and plates higher than a standard microplate should be checked for fit before ordering, because the specification states the plate type but not the maximum plate height.

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MTP200 • control panel • LCD display and setting knob

Ordering information

Item	Value
Model	MTP200
Main unit SKU	PRO4503
Product type	Thermo shaker for microplates
Temperature control	RT+5 °C to 80 °C
Shaking speed	200–1600 rpm, 3 mm orbit
Capacity	2 microplates or culture plates
Supply voltage	AC220 V or AC110 V, 50/60 Hz — selected at order
Delivery	Main unit, mains cable, operating manual

Configuration checklist

Plate format: confirm 96-well or 384-well ELISA microplate, or 96-well tissue culture plate.

Plate height: deep-well and skirted plates are to be checked against the working area before ordering.

Temperature: confirm that RT+5 °C to 80 °C covers the protocol — there is no cooling.

Throughput: confirm that two plates per run are enough for routine work.

Voltage: state AC220 V or AC110 V at order; the version is fixed in the instrument.

SUPPLIER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the plate format and plate height, the working temperature, the shaking speed the protocol needs, how long a run lasts and how many plates go through per day. COLO.Science will confirm whether MTP200 fits, or which model in the range does.

QUICK CONTACT

 [colo.si](https://www.colo.si)

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COLO.SCIENCE • MICROPLATE SHAKER CONFIGURATION SUPPORT

Not sure whether two plates and 80 °C cover your workflow?

Send the plate format, the incubation temperature, the shaking speed, the length of a run and the number of plates per day. COLO.Science will confirm the right instrument, the voltage version and the delivery time.

Web: [colo.si](https://www.colo.si)

Ask us:
Price and current discount, delivery time, voltage version, application support for your protocol, and a comparison with the four-plate and six-plate models in the same range.

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