

PST-60HL, Plate Shaker-Thermostat

DESCRIPTION

Plate Thermo-Shakers are designed for shaking and thermostating 2 standard 96-well microplates.

A multisystem principle, used in design of the Thermo-Shaker, allows operating it as 3 independent devices:

- Incubator;
- Microplate shaker;
- Thermo-Shaker.

A distinctive feature of Biosan Plate Thermo-Shakers is the **patented by the company Two-Side Microplates Heating**, which allows to achieve full correspondence of the set and actual temperature in the microplate wells.

Thermo-shaker provides heating up to 60°C, which is sufficient for carrying out ELISA tests.

Plate Shaker-Thermostat provides:

- Soft or intensive sample shaking
- Rotation speed regulation, stabilization and indication
- Even rotation amplitude throughout the Thermo-Shaker platform
- Required operation time setting and indication
- Automatic stopping of the platform movement after expiration of the set time
- Setting and indication of the required temperature on the platform
- Automatic fault diagnostics (temperature sensor, platform heating, lid heating etc.)

Application fields:

- Cytochemistry — for in situ reactions
- Immunochemistry — for immunofluorescent reactions
- Biochemistry — for enzyme and protein analysis
- Molecular biology — for micro array analysis

Temperature Calibration Function

With the help of the temperature calibration function the user can calibrate the unit approx. $\pm 6\%$ of the selected temperature to compensate differences in the thermal behaviour of plates from different manufacturers.



CAT. NUMBER

| | |
|---------------|---|
| BS-010119-AAI | 230VAC 50/60Hz Euro plug |
| BS-010119-AAQ | 230VAC 50/60Hz UK plug |
| BS-010119-AA4 | 230VAC 50/60Hz AU plug |
| BS-010119-AAJ | 100VAC 50/60Hz US plug, 120VAC 60Hz US plug |
| BS-010119-BK | IQ OQ document |
| BS-010119-CK | PQ document |

SPECIFICATIONS

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|---|--|
| Temperature setting range | +25°C ... +60°C |
| Temperature control range | +5°C above ambient... +60°C |
| Temperature setting resolution | 0.1°C |
| Temperature stability | ±0.1°C |
| Temperature uniformity at +37°C | ±0.25°C |
| Temperature calibration coefficient range | 0.936...1.063 (± 0.063) |
| Heating | Patented two-side microplate heating |
| Speed control range | 250–1200 rpm (increment 10 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 |
| Maximum continuous operation time | 168 h |
| Max. height of microtest plate | 18 mm |
| Number of microtest plates | 2 |
| Platform dimensions (w x d) | 250 x 150 mm |
| Overall dimensions (W×D×H) | 270 x 260 x 125 mm |
| Weight | 6.1 kg |
| Input current/power consumption | 12 V DC, 3.3 A / 40 W |
| External power supply | Input AC 100–240 V; 50/60 Hz; Output DC 12 V |