

# TS-DW, Thermo-Shaker for Deep Well Plates



## DESCRIPTION

TS-DW Thermo-Shaker is designed for shaking and incubating deep well plates.

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

TS-DW provides excellent temperature uniformity across the plate due to patented two-sided heating of the block and the lid, contour heating of the block and close proximity of heating elements to plate walls.

There is a number of interchangeable blocks to suit different plates such as Eppendorf® 96/1000 µl, Sarstedt® Megablock 96/2200 µl, Porvair® 96/2000 µl, Axygen® 96/2200 µl. Also we can manufacture a customized block on request.

Deep Well Plate Thermo-Shaker provides:

- Soft or intensive sample shaking
- Rotation speed regulation, stabilization and indication
- Even rotation amplitude throughout the Thermo-Shaker platform
- Exceptional temperature uniformity across the plate
- 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
- A variety of changeable blocks that can accommodate most popular deepwell plates
- **Automatic fault diagnostics (temperature sensor, platform heating, lid heating etc.).\***

Application fields:

- Cytochemistry — for in situ reactions
- Immunochemistry — for immunofерmentative reactions
- Biochemistry — for enzyme and protein analysis
- Molecular biology — for nucleic acid extraction

**Separate blocks to accommodate different deepwell plates will be released. For example:**

Deep Well Plates NUNC®	96/2000 µl
Deep Well Eppendorf®	96/0.5 ml

**The block for deepwell plate is mountable, thus a custom plate module can be manufactured on request**

### 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 plates from different manufacturers.

**\*NEW FUNCTION**



## CAT. NR.

	TS-DW w-out thermoblock, incl. external power supply unit
BS-010159-A02	230VAC 50/60Hz Euro plug
BS-010159-A03	230VAC 50/60Hz UK plug
BS-010159-A05	230VAC 50/60Hz AU plug
BS-010159-A04	100VAC 50/60Hz US plug
BS-010159-A04	120VAC 60Hz US plug
-----	<b>Optional accessories</b>
BS-010159-AK	B-2E block for one deep-well plate Eppendorf® 96/1000 µl
BS-010159-CK	B-2S block for one deep-well plate Sarstedt® Megablock 96/2200 µl
BS-010159-EK	B-2P Block for one deep-well plate Porvair® 96/2000 µl



Australian distributors:  
 Fisher Biotec Australia  
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## SPECIFICATION

Temperature setting range	+25°C ... +100°C
Temperature control range	5°C above ambient ... +100°C
Temperature setting resolution	0.1°C
Temperature uniformity at +37°C	±0.1°C*
Temperature accuracy at +37°C	±0.5°C*
Time of platform heating from +25°C to +37°C	6 min*
* for B-2E thermoblock	-
Temperature calibration coefficient range	0,936 ... 1,063 (± 0,063)
Speed control range	250-1,400 rpm
Orbit	2 mm
Display	LCD, 16 × 2 signs
Digital time setting	1 min-96 hrs (1 min increment)
Overall dimensions (W×D×H)	240 x 260 x 160 mm
Weight	5.1 kg
Input current/power consumption	12 V, 4.8 A / 58 W
External power supply	Input AC 100-240 V 50/60 Hz; Output DC 12 V

BS-010159-FK	B-2A Block for one deep-well plate Axygen® 96/2200 µl
BS-010159-KK	B-06A block for one deep-well plate Axygen® 96/600 µl
BS-010159-BK	---
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BS-010159-GK	IQ OQ document
BS-010159-HK	PQ document



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