Phone:+37167426137



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

# Premium Product Class

# 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  $\mu$ l, Sarstedt® Megablock 96/2200  $\mu$ l, Porvair® 96/2000  $\mu$ l, Axygen® 96/2200  $\mu$ l. 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 immunofermentative 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.



# CAT. NUMBER

Without thermoblock	Without thermoblock
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, 120VAC 60Hz US plug
BS-010159-GK	IQ OQ document
BS-010159-HK	PQ document

# SPECIFICATIONS

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	0.9361.063 (± 0.063)
Speed control range	250-1400 rpm
Digital time setting	1 min-96 hrs (1 min increment)
Timer sound signal	+
Orbit	2 mm
Display	LCD, 16 x 2 signs
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

# ACCESSORIES



**B-2**E BS-010159-AK block

Block for one deep-well plate Eppendorf® 96/1000 μl -Cat.No. 0030505204, 0030506200. 0030502205



**B-05E** BS-010159-QK block

Block for one deep-well plate Eppendorf® 96/500 µl -Cat.No. 0030501101



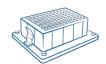
B-2A BS-010159-FK block

Block for one deep-well plate Axygen® 96/2200 µl - Cat.No. P-2ML-SQ-C



**B-06A** BS-010159-KK block

B-06A block for one deep-well plate Axygen® 96/600 µl -Cat.No. P-DW-500C



**B-2S** BS-010159-CK block

Block for one deep-well plate Sarstedt® Megablock 96/2200 µl - Cat.No. 82.1972.002



B-08AB BS-010159-MK block

Block for one Abgene™ Storage Plate 96/800 µl - Cat.No. AB0765. AB0859



B-12AB BS-010159-SK block

Block for one deep-well plate Abgene™ 96/1200 µl - Cat.No. AB0564. AB0787



B-2P BS-010159-EK block

Block for one deep-well plate Porvair® 96/2000 µl - Cat.No. 219009



B-1R BS-010159-UK block

Block for one deep-well plate Riplate® 96/1000 μl - Cat.No. 43001-0101



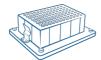
B-2R BS-010159-TK block

Block for one deep-well plate Riplate \$ 96/2000  $\mu$ l - Cat.No. 43001-0103



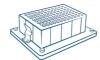
#### **B-05PO** BS-010159-OK block

Block for one deep-well plate PlateOne® 96/500 μl - Cat.No. S1896-5000



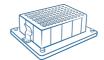
#### B-2PO BS-010159-NK block

Block for one deep-well plate PlateOne® 96/2000 µl -Cat.No. S1896-2000



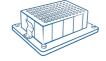
### B-2N BS-010159-DK block

Block for one deep-well plate Nunc® 96/2000 µl - Cat.No. 278743, 278752



### B-2SL BS-010159-IK block

Block for one deep-well plate Starlab® 96/1200 μl - Cat.No. E2896-0120



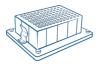
#### B-2M BS-010159-RK block

Block for one deep-well plate KingFisher™ Deepwell 96 Plate - Cat.No. 95040450



#### B-2SD BS-010159-PK block

Block for one deep-well plate Slicprep™ 96 - Cat.No. AB0932



#### **B-2KF** BS-010159-LK block

Block for one deep-well plate PowerMag® Glass Bead Plate 96 - Cat.No. 27600-4-KF-BP



#### B-2BBI BS-010159-JK block

Block for one deep-well plate cluster SSI Bio - Cat.No. 703B00, 713B00



#### B-2V BS-010159-BK block

B-2V block for one deep-well plate Vector-Best® 96/1000 μl