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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 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 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	0.936...1.063 (± 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



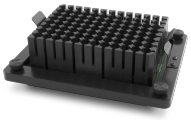
B-PCR
BS-010159-YK
block

Block for one 96-well unskirted, skirted or semi-skirted PCR plate



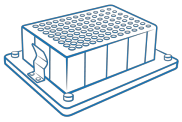
B-2F
BS-010159-VK
block

Block for flat-bottomed and solid surface deep-well plates



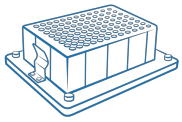
B-2E
BS-010159-AK
block

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



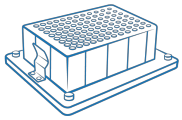
B-05E
BS-010159-QK
block

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



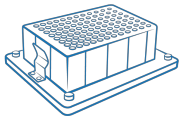
B-05G
BS-010159-XK
block

Block for one deep-well plate Greiner MASTERBLOCK® 96/0.5 ml - Cat.No. 786201, 786261



B-2A
BS-010159-FK
block

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



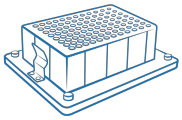
B-06A
BS-010159-KK
block

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



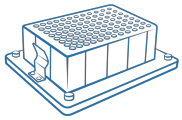
B-2S
BS-010159-CK
block

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



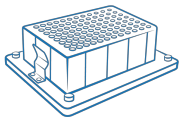
B-08AB
BS-010159-MK
block

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



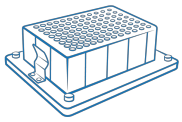
B-12AB
BS-010159-SK
block

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



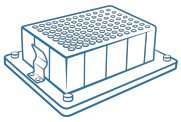
B-2P
BS-010159-EK
block

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



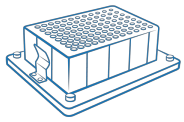
B-1R
BS-010159-UK
block

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



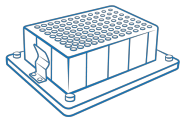
B-2R
BS-010159-TK
block

Block for one deep-well plate Riplate® 96/2000 µl - Cat.No. 43001-0103



B-05PO
BS-010159-OK
block

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



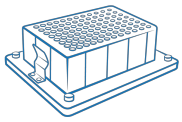
B-2PO
BS-010159-NK
block

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



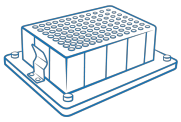
B-2N
BS-010159-DK
block

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



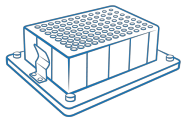
B-2SL
BS-010159-IK
block

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



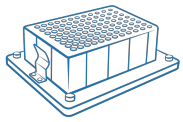
B-2M
BS-010159-RK
block

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



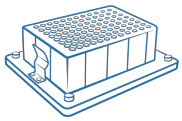
B-2MB
BS-010159-4K
block

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



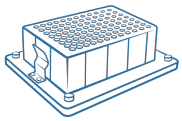
B-2SD
BS-010159-PK
block

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



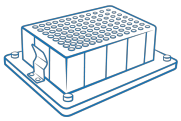
B-2FN
BS-010159-3K
block

Block for one deep-well plate NEST Biotechnology® 96/2200 µl, I-Shaped - Cat.No 503761



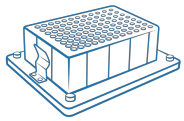
B-2KF
BS-010159-LK
block

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