

PSU-2T, Mini-shaker for immunology

Mini-shaker **PSU-2T** provides regulated shaking for two or four 96-well microtest plates. It is a compact instrument with low profile and small footprint for personal application including immunoassays and colouration tests.

The shaker can be used in a cold room or incubator, operating ambient temperature range +5 °C to +40 °C.

Specifications:

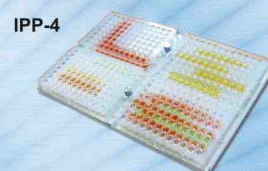
- Speed range 150-1000 RPM
- Digital timer 1 min ... 23 h 59 min (with automatic switch off)
- Orbit 2 mm
- Capacity 2 microtest plates - standard platform **IPP-2**
4 microtest plates - optional platform **IPP-4**
- Overall dimensions 220x205x90 mm
- Weight, not more 2 kg
- Power supply: External power supply DC 12V, 500 mA

Catalogue number

PSU-2T with platform IPP-2	BS-010102-AAG
IPP-4	BS-010102-AK



2 mm **Horizontal uni-rotation**



MR-1, Mini-rocker Shaker

Mini-Rocker Shaker **MR-1** provides regulated gentle rocking motion for mixing of different liquid components in vessels placed on the platform.

Mini-Rocker Shaker **MR-1** is an extremely quiet compact shaker fitting neatly in the limited workspace. Ideal for personal use.

Mini-Rocker Shaker can be used for minigel staining and destaining, for Northern, Southern and Western blots, mixing test tubes, washes, rocking and agglutination cards.

The shaker can be used in a cold room or incubator, operating ambient temperature range +5°C to +40°C.

Specifications:

- Speed range 7.5-30 RPM
- Digital timer 1 min ... 23 h 59 min (with automatic switch off)
- Rocking motion
- Fixed tilt angle 7°
- Non-slip mat supplied as standard
- For load up to 0.5 kg
- Platform working area 200x200 mm
- Optional adapter **TP-26** for 26 tubes (up to 11 mm diameter)
- Overall dimensions 220x205x120 mm
- Weight, not more 2 kg
- Power supply: External power supply DC 12V, 500 mA

Catalogue number

MR-1 with standard platform	BS-010107-AAG
TP-26	BS-010105-AK



Rocking uni-rotation



MR-12, Shaker-Rocker

Shaker Rocker **MR-12** provides adjustable soft (or intensive) biological media or solutions mixing in vessels or single use plastic bags located on the platform.

Regulated speed and angle of platform motion provide possibilities to optimize the mixing process according to user requirements.

Ideal for gel washing / staining/distaining after DNA/RNA or proteins electrophoresis.

Optimal for biomolecule hybridization on strips and for staining/distaining procedures.

When installing inside bioincubator-ideal for cells growth in single use plastic bags (working volumes of bags 10 liter, media volume - 5 liters).

Rocker **MR-12** is designed for operation in laboratory rooms at temperature range from 0 till + 45 °C (from cold room till incubator). 12 Volt plus external power supply provides electrical safety in humid environment.

Catalogue number

MR-12 with standard platform	BS-010130-AAI
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Specifications:

- Platform with non slip rubber mat 480x380 mm (included in standard set)
- Speed range 1 - 99 RPM (increment 1 RPM)
- Tilt angle: 0 - 9° (range from 1 - 50 RPM)
10° (range from 51 - 99 RPM)
- Digital timer 1 min - 99 hours 59 min (increment 1 min)
- Maximum continuous operation time 168 hours
- Maximum loading 5 kg
- Overall dimensions 400x480x250 mm
- Weight, not more 13 kg
- Power supply: AC/DC 12 V, 4.16 mA

Shakers&Rotators

Bio RS-24, Mini-rotator with timer for test tubes

Mini-rotator provides vertical rotation of the platform.

It is an ideal instrument for preventing blood coagulation, for extraction, diffusion and dialysing biological liquids in test tubes.

Bio RS-24 is a compact device suitable for convenient use in small laboratories.

Rotator can be used in a cold room or incubator, operating ambient temperature range +5°C to +40°C.

Standard platform of **Bio RS-24** can accommodate 22 tubes up to 15 mm diameter (1.5ml, 2ml, 15ml tubes). Optional combined platform **PRS-4/12** - 4 tubes up to 30 mm diameter (50ml tubes) and 12 tubes up to 15 mm diameter (1.5ml, 2ml, 15ml tubes).

Specifications:

- Vertical orbital motion,
- Speed range 5 - 30 RPM,
- Digital timer 1 min ... 23 h 59 min (with automatic switch off)
- Universal rubber clamps for tubes.
- Overall dimensions 310x110x175 mm
- Weight, not more 1 kg
- Power supply External power supply: DC 12V, 500 mA

Catalogue number

Bio RS-24 with platform PRS-22	BS-010133-AAG
PRS-4/22	BS-010117-AK

Bio RS-24



Vertical uni-rotation



PRS-22



PRS-4/12

3D, Sunflower Mini-Shaker

Mini **3D** Shaker provides regulated three-dimensional rotation of the flat platform that can be equipped with the tube adaptor **TP-26** for 26 tubes.

It is a compact, personal use instrument with low energy consumption.

Mini **3D** Shaker can be used for mixing blood samples, for minigel staining and destaining, washes, blot hybridization.

Shaker can be used in a cold room or incubator, operating ambient temperature range +5°C to +40°C.

Specifications:

- Speed range 10 - 30 RPM
- Fixed tilt angle 7°
- Non-slip mat supplied as standard
- Platform working area 200x200 mm
- For load up to 0.5 kg
- Optional adaptor **TP-26** for 26 tubes (up to 11 mm diameter)
- Overall dimensions 85x150x80 mm
- Weight, not more 1.4 kg
- Power supply External power supply DC 12V, 300 mA

Catalogue number

3-D with standard platform	BS-010105-AAF
TP-26	BS-010105-AK

3D



3D - uni-rotation

TP-26



OS-20, Orbital Shaker

OS-20 Orbital Shaker is a powerful variable speed shaker which provides efficient orbital motion. Speed and time are under microprocessor control. Two operation modes are provided: 1) timed (1 - 999 min) and 2) without timer, but no longer than 24 hours of continuous mixing. Four interchangeable platforms (see below) make the shaker applicable in different laboratories: in microbiology, chemistry, immunology, biochemistry, and molecular biology.

Orbital Shaker can be used in a cold room or incubator, operating ambient temperature range +5°C to +40°C.

Specifications:

- Digital speed control, 50-250 RPM
- Speed range 20 mm
- Orbit 1 - 999 min
- Digital timer
- Interchangeable platforms (see below), 2.5 kg
- Maximum load capacity 270x260x80 mm
- Overall dimensions 3.4 kg
- Weight, not more
- Power supply External power supply DC 12V, 500 mA

Catalogue number

OS-20 without platform	BS-010108-AAG	P-12/100	BS-010108-EK
UP-12	BS-010108-AK	P-6/250	BS-010108-DK
Bio PP-4	BS-010116-AK		

OS-20



10 mm Horizontal uni-rotation

OS-10, Orbital Shaker

OS-10 Orbital Shaker is the next, more modern development of OS-20 and therefore is usually used in the same laboratories. The main differences are: informative display, wide speed range and possibility of continuous operation up to 96 hours.

LCD display indicates two rows of values: the set and actual values of speed and time.

Orbital Shaker can be used in a cold room or incubator, operating ambient temperature range +5°C to +40°C.

Specifications:

- Digital speed control 50 - 350 RPM (increment 10 RPM)
- Speed range 10 mm
- Orbit 1 min - 96 hours
- Digital timer for
- Universal platform, flat platform or platforms with clamps (see below) 3.0 kg
- Maximum load capacity 270x260x85 mm
- Overall dimensions 4.7 kg
- Weight, not more
- Power supply External power supply DC 12V, 500 mA

Catalogue number

OS-10 without platform	BS-010116-AAG	P-12/100	BS-010108-EK
UP-12	BS-010108-AK	P-6/250	BS-010108-DK
Bio PP-4	BS-010116-AK		

OS-10



10 mm Horizontal uni-rotation

Platforms for OS-20 and OS-10:

Platforms for shakers **OS-20** and **OS-10**:

- **Bio PP-4** Flat platform with non-slip rubber mat for Petri dishes, culture flasks, agglutinin cards
- **P-12/100** Platform with clamps for flasks, 100 - 150 ml (12 places)
- **P-6/250** Platform with clamps for flasks, 250 - 300 ml (6 places)
- **UP-12** Universal platform with adjustable bars for different types of flasks, bottles, and breakers

Dimensions (WxD)

- 220x220 mm
- 250x190 mm
- 250x190 mm
- 285x215 mm



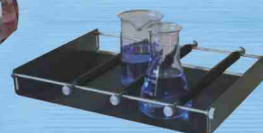
Bio PP-4



P-12/100



P-6/250



UP-12