



**PSU-20i** is a new orbital shaker in the multi-functional mixing device range. Shaker **PSU-20i** differs from its ancestor Multi PSU-20 not only in a new external design but also by having a direct drive system and a brushless motor with service life up to 35 000 hours. **PSU-20i** is an ideal instrument for different biopharmaceutical and biomedical profile laboratories.

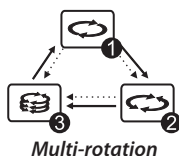
The shaker is designed for application both in small specialised laboratories and in large multi-disciplinary laboratories: a choice of nine different interchangeable platforms provides possibility of performing various procedures and techniques. Special attention should be paid to a multilevel platform, which allows accommodation of a large number of various microplates, Petri dishes, cultural bags and other low containers.

Operation of the instrument is noiseless and reliable; the shaker can provide stable continuous mixing for up to 7 days.

The device is multifunctional; it provides three motion types, which can be performed separately, pairwise and sequentially in repeated cycles. Description of the operation modes is shown in a table below.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +5°C to +40°C. Low voltage external power supply (12 V) provides electrical safety in humid environment.

**New!**



Platform PP-20-4



### Specifications:

Digital speed control	
Speed range	20–250* rpm (increment 5 rpm) * Max. speed is dependent on loading
Orbit diameter	20 mm
Digital timer	1 min–96 hrs
Maximum load	8 kg
Overall dimensions	410 x 410 x 130 mm
Weight, not more	14 kg
External power supply	DC 12V, 4.16 A

### Catalogue number:

**PSU-20i** without platform BS-010145-ACI

For platforms catalogue numbers see next page

Motion types	Description	Speed range	Turning angle	Motion timer *	General operation timer (1 min step)
①  Orbital	Simple orbital motion with an option of shifting direction (clockwise/anticlockwise) after set time	20–250 rpm	—	0–250 sec	1 min–96 hrs
②  Reciprocal	Orbital motion with shifting direction of rotation	20–250 rpm	0°–360° (30° step)	0–250 sec	1 min–96 hrs
③  Vibrating	High speed, low amplitude motion	—	0°–5° (1° step)	0–5 sec	1 min–96 hrs

\* for switching to the next motion in the cycle

**Description and pictures of all platforms can be found on the next page**

## Platforms for PSU-20i

Platform	Description	Dimensions	Working dimensions	Cat. number
<b>1</b> UP-330	Universal platform with adjustable bars for different types of flasks	345 x 430 x 105 mm	345 x 430 x 105 mm	BS-010145-AK
<b>2</b> P-30/100	Platform with clamps for flasks, 100–150 ml (30 places)	360 x 400 mm	360 x 400 mm	BS-010135-BK
<b>3</b> P-16/250	Platform with clamps for flasks, 250–300 ml (16 places)	360 x 400 mm	360 x 400 mm	BS-010135-CK
<b>4</b> P-9/500	Platform with clamps for flasks, 500 ml (9 places)	360 x 400 mm	360 x 400 mm	BS-010135-AK
<b>5</b> P-6/1000	Platform with clamps for flasks, 1000 ml (6 places)	360 x 400 mm	360 x 400 mm	BS-010135-DK
<b>A</b> PP-20	Flat platform with non-slip rubber mat	480 x 380 mm	465 x 365 mm	BS-010126-BK
<b>B</b> PP-20-2	Flat platform with non-slip rubber mat (2 levels)	480 x 380 x 170 mm	465 x 365 x 170 mm	BS-010126-CK
<b>C</b> PP-20-3	Flat platform with non-slip rubber mat (3 levels)	480 x 380 x 340 mm	465 x 365 x 340 mm	BS-010126-DK
<b>D</b> PP-20-4	Flat platform with non-slip rubber mat (4 levels)	480 x 380 x 510 mm	465 x 365 x 510 mm	BS-010126-EK

**1** UP-330



**5** P-6/1000



**2** P-30/100



**3** P-16/250



**4** P-9/500



**D** PP-20-4

**C** PP-20-3

**B** PP-20-2

**A** PP-20

