

# PSU-20i, Multi-functional Orbital Shaker

## DESCRIPTION

Shaker PSU-20i provides three motion types: orbital, reciprocal and vibrating, which can be performed separately, pairwise and sequentially in repeated cycles. Shaker is designed for applications both in small specialized laboratories and in large multidisciplinary laboratories. PSU-20i is an ideal instrument for laboratories conducting research in biopharmaceutics and biomedicine.

Shaker PSU-20i is noiseless and reliable in operation, incorporates a direct drive system and brushless motor with a guaranteed service life up to 35,000 working hours. The use of direct drive and brushless motor allows for continuous mixing up to 7 days and ensures reliable operation for more than 2 years.

A choice of nine (9) 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.

Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.



## SPECIFICATIONS

Speed control range	20-250* RPM (increment 5 rpm) * max. speed depends on the load and vessels' shape
Digital time setting	1 min–96 hrs / non–stop (increment 1 min)
Timer sound signal	+
Digital speed control	+
Maximum continuous operation time	168 hrs
Orbit	20 mm
Maximum load	8 kg
Overall dimensions (W×D×H)	410x410x130 mm
Weight	11.7 kg
Input current/power consumption	12 V, 3.2 A / 40 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

## ACCESSORIES

## CAT. NUMBER

Without platform	Without platform
BS-010145-ACI	230VAC 50/60Hz Euro plug
BS-010145-ACQ	230VAC 50/60Hz UK plug
BS-010145-AC4	230VAC 50/60Hz AU plug
BS-010145-ACJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010145-CK	IQ OQ document
BS-010145-DK	PQ document



**UP-330**  
BS-010145-AK  
platform

Universal platform with adjustable bars can accommodate laboratory glassware of different shapes.



**P-30/100**  
BS-010135-BK  
platform

Platform with clamps for flasks.



**P-16/250**  
BS-010135-CK  
platform

Platform with clamps for flasks.



**P-9/500**  
BS-010135-AK  
platform

Platform with clamps for flasks.



**P-6/1000**  
BS-010135-DK  
platform

Platform with clamps for flasks.



**PP-20/4**  
BS-010126-EK  
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.



**PP-20/3**  
BS-010126-BK  
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.



**PP-20/2**  
BS-010126-CK  
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.



**PP-20**  
BS-010126-BK  
platform

Flat platform with non-slip rubber mat can accommodate various low profile containers.



**UP-168**  
BS-010135-JK  
platform

Universal platform with clamps can accommodate flasks or bottles of different volume sizes. Clamps are not included with platform and need to be ordered separately.



**SPML**  
BS-010135-MK  
double-sided adhesive strips

Double-sided adhesive strips. **SPML** is compatible with **UP-168** platform, that fits both on **PSU-20i** orbital shaker and in **ES-20/60**, **ES-20/80** Shakers-Incubators.



**TR-44/15**  
BS-010135-LK  
rack

Adjustable angle test tube rack for **UP-168**



**TR-21/50**  
BS-010135-KK  
rack

Adjustable angle test tube rack for **UP-168**



**FC-50**  
BS-010126-MK  
clamp

Clamp 50 ml - Ø50 mm for **UP-168**



**FC-100**  
BS-010126-HK  
clamp

Clamp 100 ml - Ø65 mm for **UP-168**



**FC-250**  
BS-010126-JK  
clamp

Clamp 250 ml - Ø85 mm for UP-168



**FC-500**  
BS-010126-LK  
clamp

Clamp 500 ml - Ø105 mm for UP-168



**FC-1000**  
BS-010126-IK  
clamp

Clamp 1000 ml - Ø130 mm for UP-168



**FC-2000**  
BS-010126-NK  
clamp

Clamp 2000 ml - Ø165 mm for UP-168