

PSU-20i multi-functional orbital multi platform shaker

Powerful and efficient microprocessor controlled, multi-functional orbital shaker providing all that is required to mix your samples – rotation, reciprocation and vibration. This enables optimisation of the mixing, whether in flasks, beakers, petri dishes or other laboratory vessels.

- **Orbital motion (20 to 250 rpm), reciprocation (20 to 250 rpm) and vibration functions all in one product**
- **Loading capacity: 8kg**
- **Fully programmable sequence that can use one or all the functions**
- **6 interchangeable platforms for vessels up to 1000ml including a multi-level platform to hold a large number of various microplates, Petri dishes and culture bags.**
- **Reciprocal rotation: 0 to 360° turning angle, in 30 degree steps**
- **Vibration: 0 to 5° turning angle, 1 degree steps**



PSU-20i fitted with PUP-330

Universal detachable platform accommodates vessels of different shapes and sizes for maximum flexibility. **Please order separately.** See page 9.4 for full list of accessory platforms. No tools are needed to change the platform.

Powerful, reliable and exceptionally quiet motor – combines an 8kg loading capacity with consistent even motion and quiet operation.

2-line LCD status display of actual and set parameters.

Very easy to operate, with simple set-up of multi-segment programs via push buttons.

Direct drive system and brushless motor.

All mixing functions – orbital motion, reciprocation and vibration – can be set for continuous or timed operation, or be linked together in different combinations to establish optimum mixing and ensure accurately repeatable conditions for your application.

Low voltage cord easily fits through door gaskets, allowing use in incubators, refrigerators and workstations. Safe and low energy consumption.

Platform sold separately

Applications:

- Biomedical and biopharmaceutical laboratories - cultivation of cells, extracting, dissolving slow reacting samples, extraction of mineral oil of soil, tissue culture for analytical diagnostics, de-aeration of tested biodegradable materials and samples, rotating closed containers for dialysis, bacterial growth

PSU-10i orbital platform shaker

Microprocessor controlled shaking platform providing smooth and quiet horizontal orbital motion for mixing in bottles, flasks and beakers.

- Variable shaking speed: 50 to 450rpm
- Reliable direct drive system
- Automatic load balancing system
- Continuous or timed operation with automatic switch-off
- 5 interchangeable platforms for vessels up to 250ml including an 88 place spring loaded platform for tubes up to 30mm diameter
- Simple to set up and easy to operate
- Loads up to 3kg



* Platforms sold separately.

Applications:



- Biotechnology and microbiology - micro-organism cultivation and extraction of biologically active substances
- Immunology and biochemistry - agglutination and precipitation assay
- Biochemistry - washing off electrophoresis gel
- Molecular and cell biology - cultivation of biological liquids

Shakers, mixers and stirrers » PSU-20i and PSU10i » Models and specifications

Shakers – Technical specifications

• = optional

(all heights exclude platform)

		Multi platform shaker	Shaking platform
		PSU-20i	PSU-10i
		 h: 130mm d: 410mm w: 410mm weight: 11.7kg	 h: 90mm d: 205mm w: 220mm weight: 3.4kg
Speed (load dependent)	rpm	20 to 250	50 to 450
Orbit ϕ	mm	20	10
Maximum load	kg	8	3
Timer, with automatic switch-off		1 min to 96 hours	
Motion timer (orbital/reciprocal modes)	sec	0 to 250	–
Motion timer (vibration mode)	sec	0 to 5	–
Display		2-line 16 character LCD	
Angle (reciprocal mode)	$^{\circ}$	0 to 360	–
Angle (vibration mode)	$^{\circ}$	0 to 5	–
External power supply		Input AC 120-230V, 50/60Hz Output DC 12V	
Input voltage	V dc	12	
Power consumption	W	40 (3.2A)	10 (0.8A)
Operating temperature range	$^{\circ}$ C	4 to 40	

Accessories

P16-88 Platform with spring holders for up to 88 tubes up to 30mm diameter		–	•
P12-100 Platform with clamps for 12 x 100/150ml flasks/beakers. Dimensions: 250 x 190mm		–	•
BIO-PP-4 Flat platform with non-slip rubber mat. Dimensions: 230 x 230mm		–	•
P6-250 Platform with clamps for 6 x 250-300 ml flasks/beakers. Dimensions: 250 x 190mm		–	•
PUP-12 Universal platform, with adjustable bars. Dimensions: 270 x 195mm HB-200 extra holding bars		–	•
PUP-330 Adjustable bars and two fixing levels. Dimensions: 345 x 430 x 105mm HB-330 extra holding bars		•	–
PP-20-(2/3/4 level) Flat platform with non-slip rubber mat. Dimensions: 480 x 380mm Height between levels: 140mm		•	–
P30-100 Platform with clamps for 30 x 100-150ml flasks		•	–
P16-250 Platform with clamps for 16 x 250-300ml flasks		•	–
P9-500 Platform with clamps for 9 x 500ml flasks		•	–
P6-1000 Platform with clamps for 6 x 1000ml flasks		•	–