

Shakers, mixers and stirrers » PSU20-i orbital shaking platform

PSU-20i 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 - 8 kg
- 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



Powerful, reliable and exceptionally quiet motor – combines an 8 kg 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



PSU-20i fitted with PUP-330

Universal detachable platform accommodates vessels of different shapes and sizes for maximum flexibility. Supplied without platform, please order separately. see page 10.4 for full list of accessories

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

Applications:

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

Shakers, mixers and stirrers • PSU-10i orbital platform shaker

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



- 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 – models and specifications

(all heights excl. platform)

		Multi platform shaker		Shaking platform	
		PSU-20i		PSU-10i	
			H: 130 mm Ø: 410 mm weight: 13kg		H: 90 mm Ø: 225 mm weight: 4 kg
Speed (depends on loading)	rpm	20 to 250		50 to 450	
Orbit	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)	°	0 to 360		-	
Angle (vibration mode)	°	0 to 5		-	
Input voltage	V dc	3.2		12	
Input current	A	-		0.8	
Ambient temperature range	°C	4 to 40			

Accessories

P16-08 <small>NEW</small> 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 190 mm		-	•
Bio PP-4 Flat platform with non-slip rubber mat. Dimensions: 230 x 230 mm		-	•
P6-250 Platform with clamps for 6 x 250-300 ml flasks/beakers. Dimensions: 250 x 190 mm		-	•
PUP-12 Universal platform, with adjustable bars. Dimensions: 270 x 195 mm HB-200 extra holding bars		-	•
PUP-330 Adjustable bars and two fixing levels. Dimensions: 345 x 430 x 105 mm HB-330 extra holding bars		•	-
PP-20-(2/3/4 level) Flat platform with non-slip rubber mat. Dimensions: 480 x 380 mm Height between levels: 140 mm		•	-
P30-100 Platform with clamps for 30 x 100-150 ml flasks		•	-
P16-250 Platform with clamps for 16 x 250-300 ml flasks		•	-
P9-500 Platform with clamps for 9 x 500 ml flasks		•	-
P6-1000 Platform with clamps for 6 x 1000 ml flasks		•	-