

# PSU-10i

## Orbital platform shaker

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

Loads up to 3kg

Variable speed: 5 to 450 oscillations per minute

Continuous or timed operation, with automatic switch-off

Reliable direct drive system

Automatic load balancing system

Five 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

Soft start feature ensures a smooth ramp-up - avoids potential damage to vessel content.

Exceptionally quiet motor - consistent and even shaking.

2-line LCD display clearly indicates both set and actual shaking speed, plus set and elapsed time. Works in combination with simple push buttons for easy set up.



Choice of 5 interchangeable platforms to suit different types of vessels - maximum flexibility. Please order platform separately.

Low voltage power supply for safe cold room operation and low energy consumption.

Integral electronic timer with audible alarm and automatic switch-off. Accurate repeatability of time sensitive incubations.

## 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

# PSU-20i

## Multi-functional orbital multi-platform shaker

Powerful and efficient microprocessor controlled, multi-functional orbital shaker. Designed to provide multiple features required to mix your samples; rotation, reciprocation and vibration. This multi-use shaker optimises mixing in flasks, beakers, Petri dishes or other laboratory vessels.

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

**Universal detachable platform** accommodates vessels of different shapes and sizes for maximum flexibility. Please order separately. See page 107 for full list of accessory platforms. No tools are needed to change the platform.

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



### Product highlights

- Orbital motion (20 to 250rpm), reciprocation (20 to 250rpm) and vibration functions all in one product
- Loads up to 8kg
- Fully programmable sequence that can use one, two or all the functions
- Six interchangeable platforms for vessels up to 1000ml including a multi-level platform to hold multiple 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



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

Direct drive system and brushless motor.

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

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

## Applications

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

# Grant-bio compact rockers

## Technical specifications



		PSU-10i	PSU-20i
		Platform shaker	Multi-platform shaker
Dimensions	h x d x w mm	90 x 205 x 220	130 x 410 x 410
Operating temperature	°C	4 to 40	
Maximum load	kg	3	8
Orbit ø	mm	10	20
Speed (load dependent)	rpm	50 to 450	20 to 250
Angle (reciprocal mode)		-	0 to 360°
Angle (vibration mode)		-	0 to 5°
Display		2-line 16 character LCD	
Timer, with automatic switch-off		1 minute to 96 hours	
Motion timer (orbital/reciprocal modes)	sec	-	0 to 250
Motion timer (vibration mode)	sec	-	0 to 5
External power supply		Input AC 100-240V, 50/60Hz Output DC 12V	
Power consumption	W	9.6 (0.8A)	40 (3.2A)
Input voltage	V dc	12	
Weight	kg	3.4	11.7

Platforms sold separately – see page 107.