

## Shakers and mixers

### PSU-10i (VWR 89194-490) orbital platform shaker

**2**  
year warranty

- EFFICIENT** › Variable shaking speed: 50 to 450 rpm with soft start
- VERSATILE** › 5 interchangeable platforms for vessels up to 300 ml
- QUIET** › Exceptionally quiet motor - consistent and even shaking for loads up to 3kg
- SIMPLE** › Simple to change platforms - no tools needed, easy to set up and operate



### PSU-20i (VWR 89194-492) orbital multi-platform shaker

**2**  
year warranty

- EFFICIENT** › Orbital motion, reciprocation and vibration functions all in one product for optimised mixing
- VERSATILE** › 6 interchangeable platforms for vessels up to 1000 ml
- QUIET** › Exceptionally quiet motor - consistent and even shaking for loads up to 8kg
- CONVENIENT** › Fully programmable sequence that can use one or all the functions
- SIMPLE** › Simple to change platforms, easy to set up and operate



## Applications



### PSU-10i

- 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

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

## Specifications

	<b>PSU-10i</b>  4 kg l: 205 mm w: 220 mm h: 90 mm 	<b>PSU-20i</b>  13 kg l: 410 mm w: 410 mm h: 130 mm 
VWR catalog number	89194-490	89194-492
Speed	50 to 450 rpm	20 to 250 rpm
Orbit	10 mm	20 mm
Maximum load	3kg	8kg
Timer	1 min to 96 hrs (with automatic switch-off)	1 min to 96 hrs (with automatic switch-off) 0 to 250 sec / orbital & reciprocal mode 0 to 5 sec / vibration mode
Angle	-	0 to 360° reciprocal mode 0 to 5° vibration mode
Voltage	100V to 240V	

## Accessories

### PSU-10i VWR 89194-490

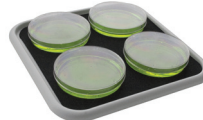
**P16-88**  
**VWR 89402-930**  
Platform with spring holders for up to 88 tubes up to 30 mm diameter.



**P12-100**  
**VWR 97025-544**  
Platform with clamps for 12 x 100/150 ml flasks/beakers. Dimensions: 250 x 190 mm



**Bio PP-4**  
**VWR 89194-494**  
Flat platform with non-slip rubber mat. Dimensions: 230 x 230 mm



**P6-250**  
**VWR 97025-546**  
Platform with clamps for 6 x 250-300 ml flasks/beakers. Dimensions: 250 x 190 mm



**PUP-12**  
**VWR 97025-566**  
Universal platform, with adjustable bars. Dimensions: 270 x 195 x 40 mm HB-200 extra holding bars.



### PSU-20i VWR 89194-492

**PUP-330**  
**VWR 89194-500**  
Adjustable bars and two fixing levels. Dimensions: 345 x 430 x 105 mm. HB-330 extra holding bars.



**PP platform**  
2 level VWR 89194-496  
3 level VWR 89498-168  
4 level VWR 89194-498  
Flat platform with non-slip rubber mat. Dimensions: 480 x 380 mm. Height between levels: 140 mm



**P30-100**  
**VWR 89194-502**  
Platform with clamps for 30 x 100-150 ml flasks.



**P16-250**  
**VWR 89194-504**  
Platform with clamps for 16 x 250-300 ml flasks.



**P9-500**  
**VWR 89194-506**  
Platform with clamps for 9 x 500 ml flasks.



**P6-1000**  
**VWR 89194-508**  
Platform with clamps for 6 x 1000 ml flasks.




## PMS-1000i (VWR 97025-558) microplate shaker

**2**  
year warranty

- EFFICIENT** › Variable shaking speed: 150 to 1200 rpm with soft start
- CONVENIENT** › Continuous or timed operation, with automatic switch off, holds 2 or 4 microplates
- FLEXIBLE** › Low voltage cord easily fits through door gaskets, allowing use in incubators, refrigerators and workstations
- EASY TO USE** › Quick fitting of standard microplates, adjustable speed with rpm display, timer

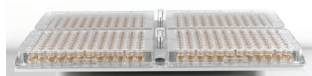


### Specifications

	<b>PMS-1000i</b> 2 kg l: 205 mm w: 220 mm h: 90 mm	
<b>VWR catalog number</b>	<b>97025-558</b>	
<b>Speed</b>	150 to 1200 rpm	
<b>Capacity</b>	2 or 4 microplates	
<b>Orbit</b>	2 mm	
<b>Timer with automatic switch-off</b>	1 min to 23 h 59 min	
<b>Display</b>	LED	
<b>Power supply</b>	100-240V	

### Accessories

**MPP4 / VWR 97025-536**  
Platform for 4 microplates



### Applications

- Life-science - immunoassay, shaking ELISA plates, staining cells for flow cytometry, shaking by paramagnetic beads for RNA extraction, 96 well plate preparation prior to LC-MS/MS, plate shaking for library preparation, shaking plates in cold rooms
- Food & Beverage - histamine in cheese, vitamins in milk testing

## V-32 (VWR 97025-604) multi vortex mixer

**2**  
year warranty

- ADJUSTABLE** › Speed control 500 to 3000 rpm
- CONVENIENT** › 'Continuous' or 'quick' operation
- VERSATILE** › Handles up to 32 microtubes in three different sizes or a larger tube with a single platform head
- FLEXIBLE** › Low voltage cord easily fits through door gaskets, allowing use in incubators, refrigerators and workstations





## PV-1 (VWR 97025-568) personal vortex mixer

**2**  
year warranty

- ADJUSTABLE** › Speed control 750 to 3000 rpm
- CONVENIENT** › 'Continuous' or 'touch/quick' operation, pressure sensitive cup for up to 50 ml tubes, quiet operation
- FLEXIBLE** › Low voltage cord easily fits through door gaskets, allowing use in incubators, refrigerators and workstations



### Specifications

	<b>PV-1</b>  1.1 kg l: 150 mm w: 90 mm h: 80 mm	<b>V-32</b>  1.5 kg l: 180 mm w: 120 mm h: 100 mm
VWR catalog number	97025-568	97025-604
Speed	750 to 3000 rpm	500 to 3000 rpm
Orbit	4 mm	2 mm
Maximum tube diameter	28.5 mm (takes conical tubes up to 50 ml)	16
Capacity	1 to 50 ml tubes	16 x 1.5 ml, 8 x 0.5 ml, 8 x 0.2 ml tubes
Power supply	100-240V	

### Applications

- V-32 ▪ Life-sciences - performing various DNA operations - deproteinisation of DNA/protein complexes, mixing of immunostained human cells ▪ Industrial - de-airing adhesive ▪ Biopharm - solubilising powders
- PV-1 ▪ Gentle mixing through to vigorous resuspension of cells and biological and chemical liquid components



1.800.932.5000 | [vwr.com](http://vwr.com)

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