

# MSV-3500, Multi Speed Vortex



## DESCRIPTION

Multi Speed Vortex **MSV-3500** is designed for soft or intensive mixing of reagents in different size and type plastic tubes (0.2 to 50 ml).

It is designed for operation in life science laboratories working in the fields of biochemistry, cell and molecular biology.

Unit has four types of interchangeable platforms: for Eppendorf type microtest tubes, 10/15/50 ml tubes (diameter 12/16/30 mm). Platforms can be ordered separately or as one set with **MSV-3500**.

Speed and time are under microprocessor control. LCD display indicates two lines of values: the set and actual values of speed and time.

Unit provides high maximum speed of platform rotation efficiently mixing microvolumes (less than 5 µl) of samples.



## SPECIFICATIONS

Eccentric mixing principle	+
Speed control range	300–3500* rpm * Maximum speed depends on load
Acceleration time	15 s (max)
Digital time setting	0–60 min / non-stop
Timer sound signal	+
Display	LCD, 2 x 16 signs
Maximum continuous operation time	8 h
Maximum load	0.2 kg
Orbit	4 mm
Overall dimensions (W×D×H)	180x170x145 mm
Weight	2.6 kg
Input current/power consumption	12 V, 1 A / 12 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

## CAT. NUMBER

<b>With all 4 platforms included</b>	With all 4 platforms included
BS-010210-TAH	230VAC 50/60Hz Euro plug
BS-010210-TAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
<b>Without platform</b>	Without platform
BS-010210-AAH	230VAC 50/60Hz Euro plug
BS-010210-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010210-IK	IQ OQ document
BS-010210-JK	PQ document



**SV-16/8**  
BS-010210-CK  
platform

16/8/8 sockets for 1.5/0.5/0.2 ml microtest tubes (Ø 11/8/6 mm).



**SV-10/10**  
BS-010210-BK  
platform

10 sockets for 10 ml (Ø 12 mm) tubes.



**SV-8/15**  
BS-010210-DK  
platform

8 sockets for 15 ml (Ø 16 mm) tubes



**SV-4/30**  
BS-010210-AK  
platform

4 sockets for 50 ml (Ø 30 mm) tubes

# RCP-24, Homogenizer



## DESCRIPTION

Homogenizer RCP-24, a bench-top mechanical device designed for mixing, grinding, homogenizing and emulsifying biological objects in microtubes by shaking with hard beads for the purpose of sample preparation for subsequent academic, pharmaceutical, biotechnological or biomedical studies.

Homogenizer facilitates the formation of a supernatant containing nucleic acids and proteins suitable for subsequent purification, extraction or analysis. The device is optimized for extracting proteins, DNA, RNA or tRNA from various tissue sources, but it can also be used for other applications. RCP-24 performs efficient homogenization of mammalian tissue, plant tissue or other biomaterials.

## SPECIFICATIONS

Test tubes capacity	up to 24
Test tubes	2 ml
Speed control range	500–2000 rpm (increment 100 rpm)
Digital time setting	1–15 min (increment 1 min)
Oscillation amplitude	44 mm, vertical
Display	LCD, 2 x 16 signs
Overall dimensions (W×D×H)	285 × 400 × 440 mm
Weight	19 kg
Input current/power consumption	230 V, 50 Hz/ 220 W (1.3 A)



## CAT. NUMBER

BS-010701-A02	230VAC 50/60Hz Euro plug
BS-010701-A03	230VAC 50/60Hz UK plug
BS-010701-A04	230VAC 50/60Hz AU plug



LVH-001  
LVH-001

Homogenization tubes with cerium stabilized zirconium oxide Ceramic Beads

VeriLab LVH-001 Cerium Stabilized Zirconium Oxide Ceramic Beads, designed specifically for the homogenization of biological samples. Each kit includes 100 x 2ml tubes, each containing calibrated 1.2-1.4 mm ceramic beads.

# V-1 plus, Personal Vortex



## DESCRIPTION

Vortex **V-1 plus** is an ideal instrument for gentle mixing to vigorous resuspension of cells and biological and chemical liquid components in tubes using eccentric mechanism.

Vortex has two modes:

1. Continuous operation;
2. Impulse operation (activated by pressing the cap with the tube's bottom).

## SPECIFICATIONS

Eccentric mixing principle	+
Speed control range	500-3000 RPM
Acceleration time	2 s
Maximum continuous operation time	24 h
Mixing module for tubes	from 0.2 to 50 ml
Maximum load	30 g
Orbit	4 mm
Overall dimensions (W×D×H)	90x150x80 mm
Weight	0.8 kg
Input current/power consumption	12 V, 320 mA / 3.8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V



## CAT. NUMBER

BS-010203-AAG	230VAC 50/60Hz Euro plug
BS-010203-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010203-BK	IQ OQ document
BS-010203-CK	PQ document

# V-32, Multi-Vortex

## DESCRIPTION

Multi-Vortex V-32 is intended for intensive stirring of bacterial and yeast cell, washing from the culture medium and extraction of metabolites and enzymes from cells and cell cultures.

It is different from V-1 by the possibility of mixing up to 32 tubes simultaneously.

Vortex is applicable for:

- Performing various DNA operations — deproteinisation of DNA/ protein complexes;
- Purification of low-molecular DNA/RNA fragments in PCR-diagnostic.

Multi-Vortex has two operation modes:

1. Continuous operation;
2. Impulse operation.

V-32 is supplied with a 32-socket universal platform for Eppendorf type tubes up to 1.5 ml (1.5/0.5/0.2 ml — 16/8/8 sockets) PV-32 and PL-1 platform for mixing single tube up to 50 ml.

An optional 6-socket platform PV-6/10 for 10 ml tubes (max. tube diameter 15 mm) or PV-48 for 48 - 0.2 ml microtubes can be supplied on request.

## SPECIFICATIONS

Eccentric mixing principle	+
Speed control range	500-3000 RPM
Acceleration time	3 s
Maximum continuous operation time	24 h
Continuous / impulse operation	+
Maximum load	70 g
Orbit	2 mm
Overall dimensions (W×D×H)	120x180x100 mm
Weight	1.5 kg
Input current/power consumption	12 V, 320 mA / 3.8 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V



## CAT. NUMBER

Including two platforms PV-32, PL-1	Including two platforms PV-32, PL-1
BS-010207-AAG	230VAC 50/60Hz Euro plug
BS-010207-AAK	100-240VAC 50/60Hz Multi plug (EU, UK, AU, US)
BS-010207-EK	IQ OQ document
BS-010207-FK	PQ document

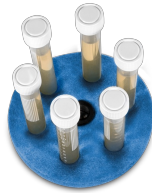
## ACCESSORIES



**PV-32**  
BS-010207-CK  
platform

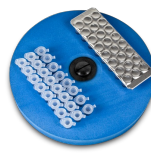
V-32 is supplied with a 32-socket universal platform for Eppendorf type tubes up to 1.5 ml (1.5/0.5/0.2 ml — 16/8/8 sockets) **PV-32** and **PL-1** platform for mixing single tube up ...

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**PV-6/10**  
BS-010207-BK  
platform

Platform for 6 × 10 ml tubes (max diameter 15 mm).



**PV-48**  
BS-010207-GK  
platform

Platform for 6-8 × 0.2 ml strips or 48 tubes of 0.2 ml.