

New product & Announcement

MSV-3500, Multi Speed Vortex

MSV-3500 is related to the **Vortex** group products. All other vortex group products can be found on pages 14 - 17.

Universal vortex **MSV-3500** is designed for soft or intensive reagent mixing in different size tubes.

MSV-3500 can be used in variety of applications including general microtest tube mixing, mixing tissue samples, vortexing cells suspensions, mixing chemical reagents etc.

Vortex has 4 types of interchangeable platforms: for Eppendorf, Ø12 mm, Ø16 mm, Ø30 mm tubes as shown bellow.

Specifications

- Rotation Orbit 4 mm
- Rotation Speed 400 - 3500 RPM
- Time Of Acceleration 3 s
- Time Regulation 0 - 60 min/ Non-Stop (no longer than 8 hours)
- Overall dimensions 145x170x180 mm
- Weight, not more 2.9 kg
- Power supply AC 12V, 830 mA

MSV-3500



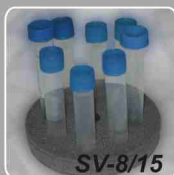
Platforms for MSV-3500



10x10 ml Ø12 mm



16x1.5 ml / 8 x 0.5 ml / 8 x 0.2 ml



8x15 ml Ø16 mm



4x50 ml Ø30 mm

Catalogue number

MSV-3500 without platform	BS-010210-AAH
SV-4/30	BS-010210-AK
SV-10/10	BS-010210-BK
SV-16/8	BS-010210-CK
SV-8/15	BS-010210-DK

Intelistirrer MSH-300i, Magnetic Stirrer with hot plate (Announcement)

MSH-300i is an advanced modification of MSH-300. The new model provides digital set up and control of temperature and speed (simultaneous set and actual readings).

The new intelligent mixing control includes:

- automatic restart of mixing if stirring element breaks away,
- automatic maximum speed detection depending on actual parameters (liquid viscosity, volume, vessel shape, size of stirring element).

Features:

- Intelligent mixing
- Easy set-up and control
- Overtemperature protection and temperature sensor failure detection.

Specifications

- Speed range 100 - 1250 RPM
- Stirring volume up to 2 l
- Temperature range +30 ... +330°C
- Working plate heating till 330°C in 20 min
- Working plate size Ø160 mm
- Consumed power (mixing mode) 8.5 W
- Consumed power (heating mode) 600 W
- Operation with magnetic stirring elements of length 10 - 50 mm
- Cylinder-shape magnetic stirring element (6x25 mm) for universal use, encapsulated in PTFE enclosed.
- Overall dimensions 275x190x100 mm
- Weight, not more 3.3 kg
- Power supply 230V; 50/60Hz or 115V; 50/60Hz

MSH-300i



LMC-4000R, Refrigerated Laboratory centrifuge

Laboratory bench-top centrifuge with refrigeration **LMC-4000R** provides temperature control of biomaterial during cell suspension separation. Temperature control of the so-called „cold-shelf“ is a gold standard for enzymologists and cell biologists because it ensures conditions necessary for reproducibility of sample preparation stage connected with cell destruction and extraction of its heat-labile components (metabolites, enzymes, hormonal factors, cytokines, etc.). Lack of temperature control at this stage can cause unpredictable results.

LMC-4000R is a modern centrifuge designed for operation with microtest plates and tubes from 10 to 50 ml.

Specifications:

- Temperature control -10°C...+25°C
- Speed control 1000 - 4000 RPM
(increment 100 RPM)
- Chamber diameter 335 mm
- Centrifugation time 1 - 30 min
(increment 1 min)
- Rotor disbalance diagnostics (automatic stop, "IMBALANCE" warning)
- Rotor run-down time, not more 30 s
- Display Two line LCD, for set and actual values display
- Voltage 230 V, 50/60 Hz
- Dimensions 610x460x340 mm
- Weight, not more 60 kg
- Rotors R-6, R-12/10, R-12/15, R-2 (see p. 17)

LMC-4000R



Features:

- User-friendly set up of centrifugation parameters (speed, temperature and time) and simultaneous display of both set and actual values.
- Safe operation is provided by metal protection chamber, automatic stop at disbalance and a lock keeping the lid closed while the centrifuge is running.
- Low noise level
- Soft start and run-down of the rotor
- Wide choice of accessory rotors

Inteliwasher W-8

A compact plate washer **W-8** is designed for washing in a 96-well microplate during IFA analysis.

The unit software controls automatic microtest plate and washing head positioning. 8 - line LCD display shows operation modes, program number and other necessary information.

W-8 has 10 preset and 21 user-defined programs.

Washer has additional module of control of level washings liquids 4 CHW Logger, allowing to stop the process of washing at the decline of level of liquid to the critical minimum.

4CHW

W-8



Specifications:

- Optional 4 channel weight logger for washing solution 4CHW logger
- Dispense system of liquid dosage for each channel separately
- Minimum dispense volume 25 mcl
- Maximum dispense volume 1600 mcl
- Dispense increment 25 mcl
- Dispensing accuracy ± 2%
- Residual volume not more than 2mcl
- Number of wells processed simultaneously 8
- Number of wash cycles 1 - 15
- Soaking time 0 - 300 s (increment 10 s)
- Number of rows processed 1 - 12
- Plate processing time (single wash) not more 65 s (300 mcl)
- Programs 31
- Microtest plate and washing head positioning automatic
- Operation mode information 8 - line LCD
- Weight with power supply and containers, not more 12.9 kg
- Dimensions 375x345x180 mm
- Power supply 220/240V, 50/60 Hz, up to 60 W

Five additional modes:

- Liquid shaking inside the plate during exposure
- Aspiration head correction to meet different well diameter and depth of 96-well plate
- Round bottom microplate and strip washing
- Rinsing by rows (dispensing and aspiration)
- Non-volatile memory for user-defined programs

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BIOSAN

