

Magnetic stirrers, Overhead stirrers

Multi Mixer MM-1000, Overhead Stirrer

Overhead Stirrer Multi Mixer **MM-1000** (Bioforma design) is designed for stirring liquids up to 20 liters. Quiet and reliable mixer that can provide stable continuous mixing up to 7 days/nights. It can realize three types of motion: 1) Rotational, 2) Reciprocal and 3) Vibration.

MM-1000 perform separate (mono-) (1; 2; 3), consecutive binary cycles (c) (1-2) x c; (1-3) x c and (2-3) x c and complex tri-cycles (1-2-3) x c.

Speed, angle and time of stirrer rotation is under microprocessor control.

Multi-mixer can be used for stirring solutions up to the "medium viscosity" range (from 1000 to 10000 mPa.s). It is an ideal instrument for biotechnology, organic synthesis, analytical laboratories.

The innovative combination of three motion types provides high level of homogeneity due to consecutive combination of laminar and turbulent flows that cause substances to dissolve faster.

Electrically safe and energy efficient - powered by external AC/AC power supply (220V/12V, 830 mA).

Specifications:

1. Rotation

- Speed regulation range 40 - 1000 RPM
- Time 0 - 250 s

2. Reciprocal motion

- Turning angle 0° - 360° (increment 30°)
- Time 0 - 250 s

3. Vibro motion

- Turning angle 0° - 5° (increment 1°)
- Time 0 - 5 s
- General timer of device operation 1 min - 96 hours (increment 1 min.)

• Overall dimensions 135x400x250 mm

• Weight, not more 2.5 kg

• Power supply External power supply: AC 12V, 830mA

MM-1000



Support rod and base



MP-1 MP-2 MP-3 MA-1 MC-1 Double clamp

Accessories for Multi Mixer MM-1000

- **MP-1** Paddle stirrer (70 x 70 mm)
- **MP-3** Propeller stirrer 3 blades (Ø 50 mm)
- **MP-2** Propeller stirrer 2 folding blades (Ø 60mm)
- **MA-1** Anchor stirrer (Ø 90 mm, height 48 mm)
- **MC-1** Centrifugal stirrer (Ø 50 mm)
- **Double clamp**
- **Support rod and base**

Catalogue number

MM-1000	BS-010306-AAH	MP-1	BS-010306-EK
MA-1	BS-010306-DK	MC-1	BS-010306-AK
MP-2	BS-010306-BK	Double clamp	VELA00001301
MP-3	BS-010306-CK	Support rod and base	VELA00001300

Mini Magnetic Stirrer MS-3000

MS-3000 is a compact magnetic stirrer with the stainless steel working surface. It provides liquid stirring with the rotation speed of magnetic element up to 3000 RPM. Strong magnets hold the driven magnetic element firmly in the magnetic clutch. **MS-3000** stirs without undesirable heat and noise. It is an ideal instrument for PH-metering, extraction and dialyzing with the small quantities of substances.

Choice of two colors - blue (standard), white (on request).

Specifications:

- Operation with magnetic stirring elements of length 20 - 30 mm
- Cylinder-shape magnetic stirring element (6x25 mm) for universal use encapsulated in PTFE enclosed
- Speed range 0 - 3000 RPM
- Stirring volume up to 2 l
- Working plate material Stainless steel
- Working plate size 110x110 mm
- Power supply External power supply DC 12V, 300mA
- Weight, not more 1.1 kg
- Overall dimensions 120x150x65 mm

Catalogue number

MS-3000 white	BS-010301-AAF
MS-3000 blue	BS-010301-ABF

MS-3000



MMS-3000, Magnetic Stirrer with a stand

Magnetic stirrer **MMS-3000** is a medium size magnetic stirrer with the stainless steel working surface. It provides liquid stirring with the rotation speed of magnetic element up to 3000 RPM. **MMS-3000** is equipped with a detachable stand that allows inserting different sensors (temperature, pH etc.) inside the liquid.

Specifications:

- Speed range 0-3000 RPM
- Stirring volume up to 5 l
- Stainless steel working plate 150 mm
- Stand height 320 mm
- Chemically resisted body
- Operation with magnetic stirring elements of length 20 - 30 mm
- Cylinder-shape magnetic stirring element (6x25 mm) for universal use, encapsulated in PTFE enclosed.
- Overall dimensions 165x200x65 mm
- Weight, not more 1,2 kg
- Power supply External power supply DC 12V, 300mA

Catalogue number

MMS-3000

BS-010305-AAF

MMS-3000



MSH-300, Magnetic Stirrer with hot plate

Magnetic stirrer **MSH-300** is designed for simultaneous mixing and heating of chemical reagent solutions. Massive heating plate of aluminum provides even heat transfer to the working surface and stable temperature maintenance. (**Attention! Alkali can damage aluminium surfaces**).

Convenient and easy to use magnetic stirrer with heating for routine procedures in organic synthesis, environmental laboratories, and general type laboratory work.

Specifications:

- Speed range 250 - 1250 RPM
- Stirring volume up to 2 l
- Temperature range +30 - +330°C
- Working plate heating till 330°C in 20 min
- Continuous operation max. 12 hours
- Working plate size 150x150 mm
- Consumed power (mixing mode) 8.5 W
- Consumed power (heating mode) 600 W
- Operation with magnetic stirring elements of length 20 - 30 mm
- Cylinder-shape magnetic stirring element (6x25 mm) for universal use, encapsulated in PTFE enclosed.
- Overall dimensions 170x210x95 mm
- Weight, not more 3 kg
- Power supply 220/240 V, 50/60 Hz

Catalogue number

MSH-300 blue

BS-010302-AAA

MSH-300 white

BS-010302-ABA

MSH-300



Production of **MSH-300** in Bioform design (on the photo) is to be started in 2008. The information about availability will be provided on the web-site and through mailing. The current version will be available until new product is released.

- Set temperature (on plate)
- Set temperature (in water)
- Water temperature (V=0,5 L)
- Actual temperature plate

Graph for the set temperature achievement MSH-300

