

# NEW Magnetic Stirrers for Cell Culture

- Designed for cell culture applications requiring exceptionally slow speeds (5-175 RPM)
- Gentle mixing and low heat transfer
- Pre-programmed cell attachment protocols
- Remote control available
- Rotation speed clearly visible for consistent results
- Variety of operating modes for suspension or microcarrier cultures
- Conforms to UL, CSA, and CE Standards
- 2 year manufacturer's warranty



12000-906 Micro-Stir®, Single Place



12000-908 Micro-Stir®, 4 Place

- Stirrer speed from 150-1200 RPM - suitable for fermentations
- Digital display of actual stirring speed
- Remote control available
- Rotation speed clearly visible for consistent results
- Variety of programmable operating modes
- Conforms to UL, CSA, and CE Standards
- 2 year manufacturer's warranty



12000-910 BioStir®, Single Place



12000-912 BioStir®, 4 Place

## Micro-Stir® Slow Speed Magnetic Stirrers

The new Micro-Stir® line has several automatic modes of operation to optimize the growth of your cells and allow you to concentrate on your results. A brushless DC motor provides low-maintenance operation and precise speed control. This unit may be used in an environment with CO<sub>2</sub> and non-condensing humidity. Temperature range to 50°C.

**Constant Speed Mode** - Soft start to a constant stirring speed. This mode is used for suspension cultures.

**Interval Start Mode** - This mode turns the stirrer on and off using the soft start and stop for a number of cycles, after which the stirrer runs at a constant speed which may differ from the speed used to attach the cells. This mode is useful for attaching cells to microcarrier beads.

**2-Speed Stirring Mode** - The stirrer slowly starts to a set speed, which is held for a user-defined period. The stirrer then softly changes to a final constant speed. This mode is also useful for microcarrier applications. All of these modes give complete control over the number of cycles and stirring speeds. Since all modes are under computer control, they are run the same way every time to ensure consistency.

### Specifications:

Electrical Requirements: 100-240 VAC, 50-60 Hz  
 Maximum Flask Size: 3 liter flask  
 Dimensions: 1 position unit: 8" wide x 9.75" deep x 3.5" tall  
 4 place unit: 15.5" wide x 17.5" deep x 3.75" tall

## BioStir® Heavy-Duty Magnetic Stirrer

The Wheaton BioStir Biological Magnetic Stirrer is designed specifically for use with suspension culture flasks. A brushless DC motor provides uniform speeds from 150-1200 RPM for good results with cell culture or small fermentations. The unit features a powerful alnico magnet for increased efficiency. An easy-to-read display allows exact RPM to be set for reproducible results. This stirrer reduces heat transfer and unwanted vibrations both to the medium being stirred, and to the other cultures in the incubator. Can be used in an environment with CO<sub>2</sub> and non-condensing humidity. Temperature range to 50°C. The new BioStir line has several automatic modes of operation to optimize the growth of your cells and allow you to concentrate on your results.

**Constant Speed Mode** - Soft start to a constant stirring speed.

**Interval Start Mode** - This mode turns the stirrer on and off using the soft start and stop for a number of cycles, after which the stirrer runs at a constant speed which may differ from the intermittent stirring speed.

**2-Speed Stirring Mode** - The stirrer slowly starts to a set speed, which is held for a user-defined period. The stirrer then softly changes to a final constant speed. All of these modes give complete control over the number of cycles and stirring speeds. Since all modes are under computer control, they are run the same way every time to ensure consistency.

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## Ordering Information

VWR Cat. No.	Description	Qty/Case	List Price
12000-906	Micro-Stir®, Single Place, 120 VAC	1	\$750.00
12000-908	Micro-Stir®, 4 Place, 120 VAC	1	1,295.00
12000-910	BioStir®, Single Place, 120 VAC	1	750.00
12000-912	BioStir®, 4 Place, 120 VAC	1	1,295.00
12000-914	Remote Control Accessory	1	451.00

- Accurate
  - Easy to use
- Consistent
  - Reliable



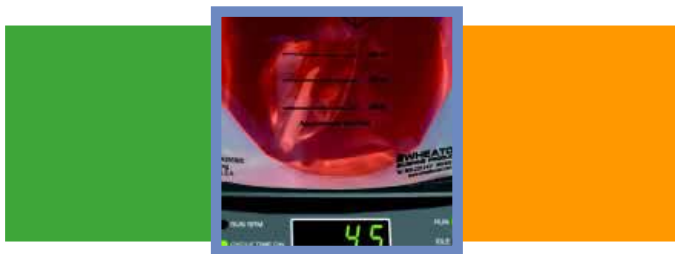
For Technical Information only Contact:

WHEATON SCIENCE PRODUCTS  
 A Member of ALCAN PACKAGING

Tel: (800) 225-1437 Fax: (856) 825-1368

Visit Wheaton Science Products' Website at:  
<http://www.wheatonsci.com>





# MANTARAY™

## Prevents Stress on Cells

- Can be used for mammalian, plant, and insect cells
- Proprietary stirrer technology - gentle to cells
- Allows media and gases to be added or changed under sterile conditions
- Can be used with Microcarrier beads

**Wheaton Science Products.**  
When it Counts.



The revolutionary, patented design is comprised of a freestanding polyethylene pouch that is light, pliable, and most importantly, shatterproof.

### MantaRay™, Single-Use Cell Culture Flask

The MantaRay makes it easier and safer to grow suspension cell cultures. There is no need to autoclave or clean the flask, saving considerable time and money. The extra time saved by using the MantaRay allows researchers to concentrate on their work, rather than the details of properly cleaning and sterilizing a spinner flask.

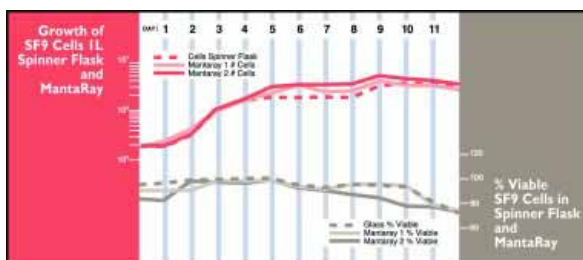
Since the MantaRay is a single-use product, lab safety is enhanced. There is no need to clean a flask, potentially exposing people to cell culture products. The MantaRay is made of flexible plastics, so there are no broken glass shards to handle if the flask is dropped.

A MantaRay is not as tall as a spinner flask of similar volume, yet provides the same headspace. This means the users get more vertical space in an incubator, providing more shelves and more space for experiments. A shorter flask is also safer because tall flasks are easier to knock over.

The MantaRay is used for growing cultures of mammalian cells, and can also be used for plant and insect cells. The proprietary stirrer technology is designed to minimize damage to fragile cells, such as mammalian cells. The MantaRay also allows media and gases to be added or changed during the experiment under sterile conditions. The MantaRay can culture cells on micro-carrier beads, which the cells use as a growth surface.

The MantaRay comes pre-sterilized. A pre-sterilized system saves the time & effort of sterilizing flasks. The researcher simply fills the flask with media, adds the cells, and lets them grow.

VWR Cat. No.	Working Volume mL	Qty/Case	List Price
14231-558	1000	1	\$40.71
14231-328	1000	4	160.80





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