

Cool Stir® Large Volume Magnetic Stirrer

Catalog No. F37028-0001

The Cool Stir® Large Volume Magnetic Stirrer safely and effectively mixes liquid volumes from 10 liters up to 208 liters (2.5 to 55 gallons) using inert PTFE magnetic stirring bars.

An internal high strength aluminum frame and large chemical resistant polypropylene platform are built to safely support up to 220kg (485lbs) allowing stirring in a standard plastic drum. A direct drive motor rotates a powerful rare earth driving magnet that couples optimally with 76 through 160mm (3" through 6") stirring bars typically used to stir in large vessels. Mixing speed is variable to approximately 600 rpm (maximum practical rpm dependent on volume and viscosity) for gentle stirring up to aggressive agitation with full depth vortex. All electronic controls and the 100 watt (1/8 horsepower) motor are insulated to prevent any heat transfer to valuable solutions. Sturdy, chemical resistant, polypropylene side panels are easy to clean in case of spills and protect users from all moving parts.

Optimal stirring performance will be achieved by using flat bottom containers that minimize the magnetic coupling distance between the stirrer driving magnet and the stirring bar.

This unit is designed to work optimally with stirring bars that are 3 to 6" in length.

Bel-Art Products offers the following Spinbar® Magnetic Stirring Bars:

F37120-0003	76 x 12.7mm (3 x 1/2") polygon shape
F37120-0080	80 x 107mm (3-1/8 x 3/8") polygon shape
F37118-0004	108 x 27mm (4-1/4 x 1-1/16") polygon shape
F37118-0006	159 x 27mm (6-1/4 x 1-1/16") polygon shape
F37110-0003	76 x 12.7mm (3 x 1/2") octagon shape with pivot ring
F37109-0031	76 x 12.7mm (3 x 1/2") red, octagon shape with pivot ring
F37109-0032	76 x 12.7mm (3 x 1/2") yellow, octagon shape with pivot ring
F37109-0033	76 x 12.7mm (3 x 1/2") blue, octagon shape with pivot ring
F37111-0003	76 x 12.7mm (3 x 1/2") round shape
F37111-0004	101 x 16mm (4 x 5/8") round shape
F37111-0005	127 x 16mm (5 x 5/8") round shape
F37111-0006	152 x 19mm (6 x 3/4") round shape
F37122-0005	127 x 16mm (5 x 5/8") polygon shape with pivot ring
F37122-0006	152 x 19mm (6 x 3/4") polygon shape with pivot ring

Instructions for use

1. Center the container on top of the stirrer and fill with the solution to be stirred. Gently place the stirring bar in the center of the bottom of the container.
2. Slowly turn the speed control knob on the front panel clockwise to increase the speed of the spinning bar and gently increase the velocity of the spinning liquid to the desired level.
3. Use F37781-0000 Spinbar® Magnetic Retriever to remove stirring bars from filled vessels.



Warning: Attempting to quickly increase the speed of the stirring bar may cause it to decouple magnetically from the drive magnet which will stop any stirring action and may cause the bar to impact the container wall, a particularly dangerous condition with glass containers.



SP Bel-Art

2024 Broad Street, Pocomoke, MD 21851 USA

Tel: 973-694-0500 | cservice@scientificproducts.com

belart.com

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