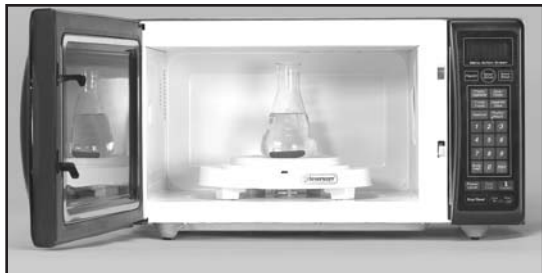


INSTRUCTIONS



Microwave Stirrer

Catalog No. 37040-0000



The Scienceware® Microwave Stirrer makes it possible to magnetically stir inside a microwave oven. It uses the oven's turntable drive impeller as the power source. The Microwave Stirrer works in microwave ovens that have drive impeller as shown in figure #2. The Microwave Stirrer mechanism has a gear ratio of 1: 58. Please refer to your microwave oven instruction manual to determine your turntable RPM. (i.e. if the microwave turntable is rated for 6 RPM, the Microwave Stirrer will rotate at $6 \times 58 = 348$ RPM). MICROWAVE NOT INCLUDED.

WARNING

- Read your microwave oven operating manual carefully for important information.
- DO NOT heat any substance in the microwave oven that is not recommended for microwave. Please refer to your microwave oven operating manual.
- DO NOT over-heat the substance. Check the recommended heat setting in the microwave manual and follow those directions.
- Select appropriate container for the solution to be heated. Container must be transparent to microwave and resistance to high heat.
- Place container only on the double layers of silicone rubber mats (provided with stirrer). The rubber mat insulates the stirrer from hot containers.
- Teflon® coated Spinbar® Magnetic Stirring Bars are the preferred magnetic stirring bars.
- DO NOT USE the Microwave Stirrer if any of the components (interior or exterior of the unit) are wet.
- **IMPORTANT** refer to instruction #7 for microwave settings.

EXPLOSION HAZARD!

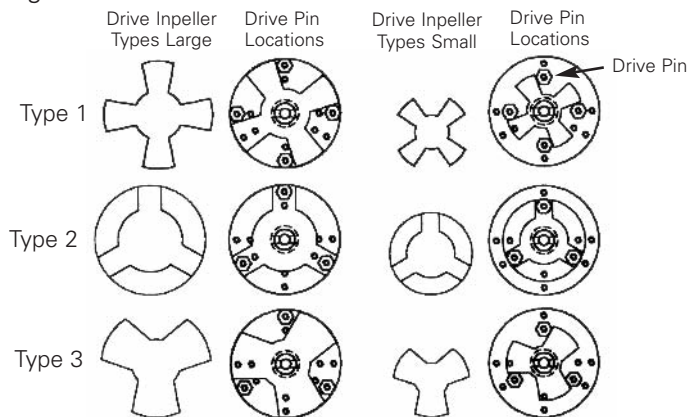
UNDER NO CIRCUMSTANCES MUST CLOSED OR PARTIALLY CLOSED CONTAINERS BE HEATED IN THIS MICROWAVE. THEY WILL EXPLODE WITH A HIGH RISK OF PERSONAL INJURY. EVEN PARTIALLY CLOSED CONTAINERS WITH A LOOSE FITTING LID MAY EXPLODE. ALWAYS USE OPEN VESSELS. FOLLOW OVEN MANUFACTURER'S INSTRUCTION.

Directions:

1. Remove turntable plate and ring from the microwave oven and set them aside. Compare your microwave's drive impeller to the six drive impeller types pictured below. If your microwave's drive impeller is not pictured below, please contact Bel-Art technical assistance at 1 800-423-5278.
2. Make sure that the bottom surface of the microwave oven is clean and dry. This will prevent the stirrer from slipping.

3. Adjust the suction cup feet of the stirrer so that they sit on the flat bottom of the microwave oven when the stirrer is centered. Secure suction cups.
4. The impeller in the center of the microwave oven is the driving mechanism for the stirrer. Refer to the figure below to determine the drive pin location.

Figure #2



Place the center of the stirrer over the drive Impeller.

5. The stirrer is now ready for use. Place filled container with a Spinbar® Magnetic Stirring Bar on the silicone mats.
6. Close the oven door.
7. **Set the microwave power.** Please refer to the chart below for the maximum power and time settings:

Time Setting (minute)	Power Setting (%)*
5	100
10	50

100% = 1000 watts

If the solution requires boiling for an extended period, lower the microwave power after the solution starts to boil. DO NOT boil the solution for an extended period at the maximum power setting.

8. Start the microwave oven. The stirring bar will rotate. If the stirring bar is not rotating stop the microwave and repeat steps 2 to 8 to remedy the problem.

A cool down period is required before removing the stirrer from the oven. Wait five to ten minutes before removing the stirrer from the microwave. **DO NOT attempt to remove the Microwave Stirrer from the microwave immediately after turning off the oven.**

Maintenance:

Clean the outside of the stirrer with damp cloth or isopropyl alcohol if needed. If any liquid gets inside the unit, make sure to dry it completely before using. **DO NOT SUBMERGE THE UNIT IN THE WATER.** Always dry off inside cavity of the microwave oven.

If the suction cups are damaged or worn out, replace them with new suction cups (part #93704-0033). Four extra cups are supplied with the stirrer.

Bel-Art Products

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