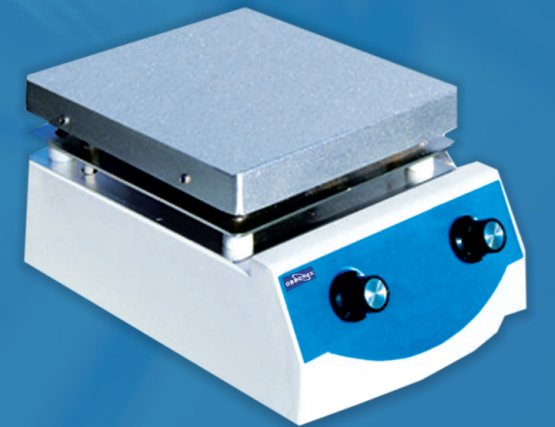




Magnetic Stirrers

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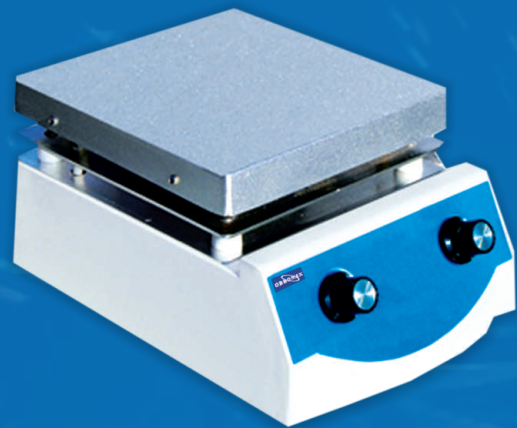
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Magnetic Stirrers



A magnetic stirrer or magnetic mixer is a laboratory device that employs a rotating magnetic field to cause a stir bar (also called "flea") immersed in a liquid to spin very quickly, thus stirring it. The rotating field may be created either by a rotating magnet or a set of stationary electromagnets, placed beneath the vessel with the liquid. Magnetic stirrers often include a hot plate or some other means for heating the liquid.

Magnetic Stirrer incorporates electronic controls that allow the user to regulate the speed with greater precision. The stainless steel housing is painted with chemical resistance paint which keeps the unit safe from spills of harmful chemicals. Using advanced designing and manufacturing techniques.

Magnetic stirrers are often used in chemistry and biology. They are preferred over gear-driven motorized stirrers because they are quieter, more efficient, and have no moving external parts to break or wear out (other than the simple bar magnet itself). Due to its small size, a stirring bar is more easily cleaned and sterilized than other stirring devices. They do not require lubricants which could contaminate the reaction vessel and the product. They can be used inside hermetically closed vessels or systems, without the need for complicated rotary seals.

On the other hand, the limited size of the bar means that magnetic stirrers can only be used for relatively small (under 4 liters) experiments. They also have difficulty dealing with viscous liquids or thick suspensions.

Specification

- Power motor: Stirs viscous materials with a maximum volume of 15l (Hv(2)O)
- Strong magnet: High magnetic adhesion prevents stir bar decoupling
- Microprocessor control: Sends feedback to the motor to maintain constant speed
- Ceramic top: seamless one-piece glass-ceramic top provides excellent resistance to chemicals
- Elevated control Panel: Minimizes contact with spills and allows for easy reading and adjustment of speed control.

Features

- Integrated temperature control.
- Incl. PT 1000 temperature sensor (PT 1000.60).
- Exact temperature and speed setting via digital display, even when switched off
- Set safety temperature limit displayed digitally
- Hot Top indicator/hot surface warning to prevent burns.
- Digital error code display
- With adjustable safety circuit of heating plate temperature (50 - 360 °C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- High level of safety thanks to improved heat control technology
- Enclosed assembly (IP 42) guarantees long service life
- Highly polished aluminium heating plate for optimum heat transfer
- Improved magnetic adhesion

