

Magnetic Stirrer

Product Overview

A magnetic stirrer is a device widely used in laboratories and consists of a rotating magnet or a stationary electromagnet that creates a rotating magnetic field. This device is used to make a stir bar, immerse in a liquid, quickly spin, or stirring or mixing a solution, for example. A magnetic stirring system generally includes a coupled heating system for heating the liquid



Standard Features

- Magnetic stirrer with heating and ceramic heating plate which offers excellent chemical resistance.
- Powerful motor for stirring quantities of up to 10 l (H₂O)
- Fixed safety circuit of 550 °C
- Hot Top indicator >> hot surface warning to prevent burns!
- Exact temperature setting via digital display (LED)
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control
- Digital error code display
- Elevated control panel for protection against leaking liquids



Volume up to 10l



Advanced Ceramic hot plate



Tem. Range up to 350 °C

Digital PID Controller

Digital Hot-plate Magnetic Stirrer BSDMS is a ceramic hot plate with temperature up to 350 °C . It is a microprocessor controlled unit with a double button operation with heating of reaction flasks from 50 ml to 1000 ml. The control panel is designed with 30° slope for convenient mode of operation.

Technical Data

Model	BSDMS-100
Number of stirring positions	1
Stirring quantity max per stirring position (H2O)	10l
Motor rating output	1.5 W
Direction of rotation	left
Speed adjustment	scale 0 - 6
Speed range	100 - 1500 rpm
Stirring bar length max.	80 mm
Self-heating of the set-up plate by max stirring (RT:22°C/duration:1h)	0
Heat output	1000 W
Temperature display set-value	LED
Heating temperature range	50 - 350°C
Heat control	Turning knob
Heating rate heating plate	5 K/min
Temperature setting resolution of heating plate	5 K
Connection for ext. temperature sensor	ETS-D5
Fixed safety circuit	550 °C
Set-up plate material	ceramic
Set-up plate dimensions	100 x 100 mm
Weight	5 kg
Permissible relative humidity	80%
Protection class according to DIN EN 60529	IP 21
Voltage	230 V
Frequency	50/60 Hz
Power input	1020 W

Functions and uses of a Magnetic Stirrer:

- The magnetic stirrers are also known as **magnetic stir plates** and quite commonly used for experiments in chemistry and biology.
- They are very useful when you need to mix component, either solids or liquids and get a homogeneous liquid mixture. Some of the common samples include bacterial growth media as well as buffer solutions.
- The main function of a stirrer is to agitate the liquid for speeding up the reactions or improving mixtures. A magnetic stirrer is often used with hot plates.



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