

# Intelli-Stirrer MSH-300i, Magnetic Stirrer with hot plate

## DESCRIPTION

**Intelli-Stirrer MSH-300i** is magnetic stirrer of the new generation. Enclosures of stirrers are made of metal painted with powder enamel chemically resistant to acids and alkali. The stirrers are equipped with a detachable stand for supporting various sensor elements (temperature, pH and others) inside the stirred liquid.

The stirrers are supplied with a cylinder-shape magnetic stirring bar (6 × 25 mm) for universal use covered with Teflon.

Units are equipped with the overheat protection providing an automatic switch-off of the device when overheating for the set temperature difference occurs.

Magnetic stirrers with heating can be used for laboratory operations such as organic synthesis, extraction, analysis of oil products, pH-measurements, dialysis, soil suspending, preparing buffer solutions, etc.

Additional protection disables the heating, if the temperature of plate exceeds the set temperature for 30°C.

Operation temperature range +4°C to +40°C (from cold rooms to incubators) at maximal relative humidity 80%.

**Intelli-Stirrer MSH-300i** is a digital version of magnetic stirrer with heating; it is designed for laboratories with higher requirements. It offers digital setting and control of temperature and rotation speed.

A powerful magnet allows mixing solutions with glycerine viscosity level. Maximum volume of stirred liquid (water) is 20 litres.

An external probe provides direct control of the stirred liquids temperature.



## CAT. NUMBER

BS-010309-AAA	230VAC 50/60Hz Euro plug
BS-010309-AAB	230VAC 50/60Hz UK plug
BS-010309-AA3	230VAC 50/60Hz AU plug
BS-010309-AAC	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010309-DK	IQ OQ document
BS-010309-EK	PQ document

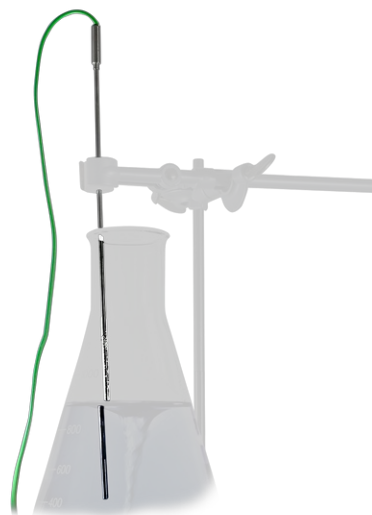
## SPECIFICATIONS

Speed control range	100-1250 RPM (10 rpm increment)
Max. stirring volume (water)	20 litres
Plate temperature regulation range	+30°C...+330°C (1°C increment)
Temperature control range with external probe	+20°C...+150°C
Temperature uniformity on the plate	±3°C
Display	LCD
Working plate heating time till 330°C	11 min
Maximum continuous operation time	168 h
Diameter of working plate	160 mm
Working surface material	Aluminium alloy
SR-1, attachable stand size	Ø 8 × 320 mm
Length of magnetic stirring element	20–70 mm
Max. stirring liquid viscosity	up to 1170 mPa.s
Fault indication	Outputs an error code on the display, turns off the heating
Overall dimensions (W×D×H)	190x270x100 mm
Weight	3.2 kg
Power consumption (Stirring)	8.5 W
Power consumption (Heating)	550 W
Nominal operating voltage	230 V; 50/60 Hz or 120 V; 50/60 Hz
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External temperature probe	->
Probe type	Thermocouple
Connection	type K
A cable is covered with Teflon, mechanically strong, elastic and chemically stable against oils, acids, aggressive reagents and liquids	+
Cable length	1 m
Operation temperature range	-50°C to +250°C



**HTP-1**  
BS-010309-FK  
holder

HTP-1, holder for temperature probe



**External temperature probe**  
BS-010309-BK

An external probe provides direct control of the stirred liquids temperature.

The cable is covered with Teflon, mechanically strong, elastic and chemically stable against oils, acids, aggressive reagents and liquids