

MSH-300 and Intelli-Stirrer MSH-300i, Magnetic Stirrers with hot plate

DESCRIPTION

MSH-300 and Intelli-Stirrer MSH-300i are magnetic stirrers 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%.



CATALOGUE NUMBER: Cat. number

MSH-300 with stand BS-010302-OAA

Optional accessories:

Holder for temperature probe BS-010309-FK

DESCRIPTION

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.

EXTERNAL TEMPERATURE PROBE:

Probe type Thermocouple

Connection type K

The 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



CATALOGUE NUMBER: Cat. number

Intelli-Stirrer MSH-300i with stand BS-010309-AAA

Optional accessories:

External temperature probe BS-010309-BK

Holder for temperature probe BS-010309-FK

MSH-300 with the stand



Intelli-Stirrer MSH-300i with the stand, external probe and holder for temperature probe



Product video is available on the website

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SPECIFICATIONS

	MSH-300	Intelli-Stirrer MSH-300i
Speed control range	250–1,250 rpm	100–1,250 rpm (10 rpm increment)
Max. stirring volume (H ₂ O)	15 litres	20 litres
Plate temperature regulation range	+30°C ... +330°C	+30°C ... +330°C (1°C increment)
Temperature control range with external probe	—	20°C ... +150°C
Display	—	LCD
Temperature uniformity on the plate	±3°C	
Working plate heating time till 330°C	15 min	11 min
Diameter of working plate	160 mm	
Plate material	Aluminium alloy	
SR-1, attachable stand size	Ø 8 × 320 mm	
Length of magnetic stirring element	10–50 mm	20–70 mm
Max. stirring liquid viscosity	up to 1,170 mPa × s	
Fault indication	Outputs sound signal and turns off the heating	Outputs an error code on the display, turns off the heating
Overall dimensions (W×D×H)	190 × 270 × 100 mm	
Weight	2.9 kg	3.2 kg
Nominal operating voltage	230 V; 50/60 Hz or 120 V; 50/60 Hz	
Power consumption (Stirring)	8.5 W	
Power consumption (Heating)	550 W	

PLATE HEAT UP TIME FOR MSH-300

from 25°C — **15 min** — to 330°C

Connecting external probe to the Intelli-Stirrer MSH-300i



PLATE HEAT UP TIME FOR INTELLI-STIRRER MSH-300i

from 25°C — **11 min** — to 330°C

External sensor installation

