

## MSH-300 and MSH-300i, Magnetic Stirrers with hot plate

MSH-300 and 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 x 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.

Operation temperature range +5°C to +40°C (from cold rooms to incubators) at maximal relative humidity 80%.

**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.

*MSH-300  
with a stand*



### 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

### Catalogue number:

<b>MSH-300</b>	BS-010302-OAA
<b>MSH-300i</b>	BS-010309-AAA
<b>External temperature probe</b>	BS-010309-BK
<b>Clamp</b>	BS-010309-AK
<b>Double clamp</b>	BS-010309-CK

*MSH-300i  
with a stand  
and external  
probe*



## MSH-300 and MSH-300i, Magnetic Stirrers with hot plate

Specifications:		
Model	MSH-300	MSH-300i
Speed range	250–1250 rpm	100–1250 rpm (10 rpm increment)
Max. stirring volume (H <sub>2</sub> O)	15 litres	20 litres
Temperature range	+30°C...+330°C	+30°C...+330°C (1°C increment)
Temperature measurement range using external probe	—	+20°C...+150°C
Display	—	LCD
Uniformity on the plate	±3°C	
Working plate heating time till 330°C	15 min	11 min
Power consumption (Stirring)	8.5 W	
Power consumption (Heating)	550 W	
Diameter of working plate	160 mm	
Plate material	aluminium alloy	
Stand height	320 mm	
Max. length of magnetic stirring element	50 mm	70 mm
Max. stirring liquid viscosity	up to 1170 mPa.s	
Operation in closed laboratory rooms	at ambient temperature from +5°C to +40°C	
Overall Dimensions	190 x 275 x 100 mm	
Weight, no more	3.3 kg	
Power supply	220/240 V, 50/60 Hz	

### Plate heat up time for MSH-300

from 25°C —  to 330°C

### Plate heat up time for MSH-300i

from 25°C —  to 330°C

### Connection external probe to MSH-300i



### MSH-300i interface

