

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 |

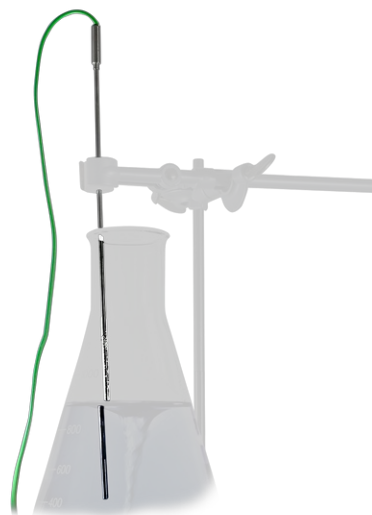
SPECIFICATIONS

| | |
|---|---|
| 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 |
| Working plate heating time till 330°C | 11 min |
| Display | LCD |
| 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 |
| ---- | ---- |
| 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