

MS-H-PRO^A

LCD Digital Magnetic Hotplate Stirrer

Three heating models for selecting
(fast heating, standard heating and stable heating)

MS-H-PRO⁺

LCD Digital Magnetic Hotplate Stirrer

MS-H-Pro^T

LCD Digital Magnetic Hotplate Stirrer with Timer

MS-H-S

Analog Magnetic Hotplate stirrer



Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H₂O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- Wide range timer function from 1 min to 99h 59min (MS-H-Pro^T only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-Pro^T displays the time)
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at $\pm 0.2^\circ\text{C}$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose

Security

- International safety certification: CE, CTÜVuS, FCC and other product safety cert, certifications issued by TUV Rheinland
- Safety circuits provide overheating protection
- "HOT" warning flashes if the work plate temperature is above 50°C
- DC brushless motor free of maintenance and spark, and with long service life
- Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability



External sensor



RS232 connector



Wide range of accessories



Chemical resistance



Brushless DC motor

| Specifications | MS-H-Pro ^A | MS-H-PRO ^B | MS-H-PRO ^T | MS-H-S | MS-H380-Pro | MS-H280-Pro |
|--|-------------------------------------|--|--|--|-------------------------------------|--|
| Work plate Dimension [W x D] | Ø135mm (5 inch) | Ø135mm (5 inch) | Ø135mm (5 inch) | Ø135mm (5 inch) | 140x140mm | Ø135mm (5 inch) |
| Work plate material | Aluminum cover with ceramic coating | stainless steel cover with ceramic coating | stainless steel cover with ceramic coating | stainless steel cover with ceramic coating | Aluminum cover with ceramic coating | stainless steel cover with ceramic coating |
| Motor type | Brushless DC motor | Brushless DC motor | Brushless DC motor | Brushless DC motor | Brushless DC motor | Brushless DC motor |
| Stirring positions | 1 | 1 | 1 | 1 | 1 | 1 |
| Max. stirring quantity, [H ₂ O] | 20L | 20L | 20L | 20L | 5L | 3L |
| Max. magnetic bar (length) | 80mm | 80mm | 80mm | 80mm | 50mm | 50mm |
| Speed range | 100-1500rpm resolution ±1rpm | 100-1500rpm resolution ±1rpm | 100-1500rpm resolution ±1rpm | 0-1500rpm | 200-1500rpm | 200-1500rpm |
| Speed display | LCD | LCD | LCD | Scale | LCD | LED |
| Temperature display | LCD | LCD | LCD | Scale | LCD | LED |
| Heating temperature range | Room temp.-340°C, increment 1°C | Room Temp.-340°C, increment 1°C | Room Temp.-340°C, increment 1°C | Room Temp.-340°C | Room Temp-380°C | Room Temp-280°C |
| Heating liquid temperature control accuracy | ±1°C(<100°C) ±1%(>100°C) | ±1°C(<100°C) ±1%(>100°C) | ±1°C(<100°C) ±1%(>100°C) | - | ±1°C(<100°C) ±1%(>100°C) | ±1°C (<100°C) ±1% (>100°C) |
| Overheating temperature protection | 420°C | 420°C | 420°C | 420°C | 420°C | 320°C |
| Temperature display accuracy | ±0.1°C | ±0.1°C | ±0.1°C | - | ±0.1°C | ±1°C |
| External temperature sensor | PT1000 (accuracy±0.2°C) | PT1000 (accuracy±0.2°C) | PT1000 (accuracy±0.2°C) | - | PT1000 (accuracy±0.2°C) | PT1000 (accuracy±0.2°C) |
| "Hot" warning | 50°C | 50°C | 50°C | - | - | 50°C |
| Data connector | RS232 | RS232 | RS232 | - | - | - |
| Protection class | IP21 | IP21 | IP21 | IP21 | IP21 | IP42 |
| Timer function | 1min to 99h59min | - | 1min to 99h59min | - | - | - |
| Motor rating output | 10W | 10W | 10W | 10W | 1.8W | 3W |
| Power | 720W | 550W | 550W | 530W | 510W | 515W |
| Heating output | 600W | 500W | 500W | 500W | 500W | 500W |
| Voltage,Frequency | 100-120/200-240V, 50/60Hz | 100-120/200-240V, 50/60Hz | 100-120/200-240V, 50/60Hz | 100-120/200-240V, 50/60Hz | 100-120/200-240V, 50/60Hz | 100-120/200-240V, 50/60Hz |
| Dimension [WxDxH] | 280x160x100mm | 160x280x100mm | 160x280x100mm | 160x280x100mm | 320x180x108mm | 150x260x100mm |
| Weight | 2.8kg | 2.8kg | 2.8kg | 2.8kg | 2.2kg | 1.8kg |
| Permissible ambient temperature and humidity | 5-40°C,80%RH | 5-40°C,80%RH | 5-40°C,80%RH | 5-40°C,80%RH | 5-40°C,80%RH | 5-40°C,80%RH |

