TECHNICAL DATA SHEET

ALab™ MS-H-ProA LCD Digital Magnetic Hotplate Stirrer

LCD digital magnetic hotplate stirrer · three heating modes · RT to 340°C · 100 to 1500 rpm · 20 L



ALab™ MS-H-ProA LCD Digital Magnetic Hotplate Stirrer

The ALab™ MS-H-ProA LCD Digital Magnetic Hotplate Stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ MS-H-ProA is an LCD digital magnetic hotplate stirrer with a 5-inch (Ø135 mm) aluminum plate with a ceramic coating and three heating modes (fast, standard and stable heating). It stirs up to 20 L of water at 100 to 1500 rpm and heats the plate from RT to 340°C in 1°C increments, with a heating output of 600 W.

The brushless DC motor is maintenance free. The LCD shows speed and temperature; the external PT1000 sensor (±0.2°C) controls the liquid temperature. Safety circuits with 420°C overheating protection, a "HOT" warning that flashes above 50°C and an RS232 connector for remote PC control and data transmission are built in.

SECTION II

Core Advantages

- **Heating modes** — fast, standard, stable
- **Speed** — 100 to 1500 rpm, ±1 rpm
- **Data** — RS232 remote control, data transmission
- **Heating** — RT to 340°C, 600 W
- **Control** — PT1000, ±0.2°C
- **Safety** — 420°C protection, HOT warning

SECTION III

Specifications

Technical data — MS-H-ProA

Specifications	
Brand	ALab™ by ACS Material
Model	MS-H-ProA
ACS Cat. No.	Parent ALMSHA0F; ALMSHA00
Product type	LCD digital magnetic hotplate stirrer with three heating modes
Work plate dimension	Ø135 mm (5 inch)
Work plate material	Aluminum cover with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Maximum stirring volume [H_2O]	20 L
Maximum stirrer bar length	80 mm
Speed range	100 to 1500 rpm, resolution ±1 rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	RT to 340°C, increment 1°C
Temperature control accuracy (liquid)	±1°C (<100°C), ±1% (>100°C)
Overheating protection	420°C
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
"HOT" warning	50°C
Data connector	RS232
Protection class	IP21
Motor rating output	10 W
Power	720 W
Heating output	600 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	280 × 160 × 100 mm

Specifications	
Weight	2.8 kg
Permissible ambient temperature and humidity	5 to 40℃, 80% RH
Heating modes	Fast heating, standard heating, stable heating

Control and safety

Function	Detail
Heating modes	Three modes to select: fast heating, standard heating and stable heating
Overheating protection	Safety circuits provide overheating protection at 420℃
"HOT" warning	Flashes "HOT" when the work plate temperature is above 50℃, even when the hotplate is turned off
External temperature control	PT1000 temperature sensor, accuracy ±0.2℃, for control of the liquid temperature
RS232 data connector	Remote control from a PC and data transmission

SECTION IV

Applications

Heating and magnetic stirring of up to 20 L of water in the laboratory, from RT to 340℃, with fast, standard or stable heating.

Specifications are per the tables above.

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