TECHNICAL DATA SHEET

ALab™ MS-H-Pro+ LCD Digital Magnetic Hotplate Stirrer

LCD digital magnetic hotplate stirrer · Ø135 mm plate · RT to 340°C · 100 to 1500 rpm · 20 L · RS232



ALab™ MS-H-Pro+ LCD Digital Magnetic Hotplate Stirrer

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

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Revision Date **10/23/2026**

SECTION I

Product Overview

The ALab™ MS-H-Pro+ is an LCD digital magnetic hotplate stirrer with a 5-inch (Ø135 mm) stainless steel plate with a chemical-resistant ceramic coating. 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.

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

SECTION II

Core Advantages

- **Plate** — Ø135 mm, ceramic coated
- **Speed** — 100 to 1500 rpm, ±1 rpm
- **Safety** — 420°C protection, HOT warning
- **Heating** — RT to 340°C, 1°C steps
- **Control** — PT1000, ±0.2°C
- **Data** — RS232 remote control

SECTION III

Specifications

Technical data — MS-H-Pro+

Specifications	
Brand	ALab™ by ACS Material
Model	MS-H-Pro+
ACS Cat. No.	Parent ALMSHP0F; ALMSHP00
Product type	LCD digital magnetic hotplate stirrer with 5-inch ceramic-coated plate
Work plate dimension	Ø135 mm (5 inch)
Work plate material	Stainless steel 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	550 W
Heating output	500 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	160 × 280 × 100 mm

Specifications	
Weight	2.8 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Overheating protection	Safety circuits provide overheating protection at 420°C
"HOT" warning	Flashes "HOT" when the work plate temperature is above 50°C, even when the hotplate is turned off
External temperature control	PT1000 temperature sensor, accuracy ±0.2°C, 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 on a 5-inch plate in the laboratory, from RT to 340°C.

Specifications are per the tables above.

Revision Date: 10/23/2026

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