TECHNICAL DATA SHEET

ALab™ MS10-H500-Pro LCD Digital Magnetic Hotplate Stirrer

LCD digital magnetic hotplate stirrer · 10-inch glass-ceramic plate · RT to 500°C · 30 L [H_2O]



ALab™ MS10-H500-Pro LCD Digital Magnetic Hotplate Stirrer

The ALab™ MS10-H500-Pro magnetic hotplate stirrer; image shown for reference.

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ACS MATERIAL, LLC

959 E Walnut St., Suite 100

Pasadena, CA 91106, USA

Phone +1 (866) 227-0656

Fax +1 (781) 518-0284

contact@acsmaterial.com

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SECTION I

Product Overview

The ALab™ MS10-H500-Pro is an LCD digital magnetic hotplate stirrer with a 10-inch (254 × 254 mm) glass-ceramic plate. It stirs up to 30 L of water with magnetic stirring at 100 to 1500 rpm and heats the plate from RT to 500°C.

External temperature control uses the PT1000 sensor (±0.2°C); an SD card records running data in real time, the running time can be set, and 540°C overheating protection and a "HOT" warning cover safety.

SECTION II

Core Advantages

- **Volume** — up to 30 L
- **Heating** — RT to 500°C
- **Data** — SD card, real time
- **Plate** — 254 × 254 mm glass ceramic
- **Sensor** — PT1000, ±0.2°C
- **Timer** — 1 min to 99 h 59 min

SECTION III

Specifications

Technical data — MS10-H500-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	MS10-H500-Pro
ACS Cat. No.	ALM10H5P (parent ALM10H)
Product type	LCD digital magnetic hotplate stirrer with 10-inch ceramic plate
Work plate dimension [W × D]	254 × 254 mm (10 inch)
Work plate material	Glass ceramic
Motor type	Brushless DC motor
Stirring positions	1
Maximum stirring volume [H_2O]	30 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 500°C, increment 1°C
Temperature control accuracy	±1°C (<100°C), ±1% (>100°C)
Overheating protection	540°C
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
"HOT" warning	50°C
Data connector	SD card
Protection class	IP20
Motor rating output	10 W
Power	1700 W
Heating output	1500 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	328 × 424 × 138 mm
Weight	7.2 kg
Timer function	1 min to 99 h 59 min

Specifications	
Permissible ambient temperature and humidity	5 to 40℃, 80% RH

SECTION IV

Applications

The MS10-H500-Pro provides heating and magnetic stirring. The specified maximum stirring volume is 30 L of water. The heating plate range is RT to 500℃, and an SD card records running data in real time.

Specifications are per the table above.

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