TECHNICAL DATA SHEET

ALab™ MS-H-ProT LCD Digital Magnetic Hotplate Stirrer with Timer

LCD digital magnetic hotplate stirrer with timer · RT to 340℃ · 100 to 1500 rpm · 20 L · RS232



ALab™ MS-H-ProT LCD Digital Magnetic Hotplate Stirrer with Timer

The ALab™ MS-H-ProT LCD Digital Magnetic Hotplate Stirrer with Timer; 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™ MS-H-ProT is an LCD digital magnetic hotplate stirrer with a timer of 1 min to 99 h 59 min and 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 LCD shows speed, temperature and time. The brushless DC motor is maintenance free; 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 are built in.

SECTION II

Core Advantages

- **Timer** — 1 min to 99 h 59 min
- **Speed** — 100 to 1500 rpm, ±1 rpm
- **Plate** — Ø135 mm, ceramic coated
- **Heating** — RT to 340°C, 1°C steps
- **Control** — PT1000, ±0.2°C
- **Safety** — 420°C protection, HOT warning

SECTION III

Specifications

Technical data — MS-H-ProT

Specifications	
Brand	ALab™ by ACS Material
Model	MS-H-ProT
ACS Cat. No.	Parent ALMSHT0F; ALMSHT00
Product type	LCD digital magnetic hotplate stirrer with timer
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
Timer function	1 min to 99 h 59 min
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

Specifications	
Dimensions [W × D × H]	160 × 280 × 100 mm
Weight	2.8 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Timer	The running time can be set from 1 min to 99 h 59 min; the LCD shows the time
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

Timed heating and magnetic stirring of up to 20 L of water in the laboratory, from RT to 340°C.

Specifications are per the tables above.

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