TECHNICAL DATA SHEET

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

Enhanced magnetic hotplate stirrer for viscous liquids · timer · RT to 340°C · 100 to 1500 rpm · 20 L



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The ALab™ MS-H-ProM LCD Digital Enhanced 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-ProM is an LCD digital magnetic hotplate stirrer with enhanced magnets and a powerful motor for stirring viscous liquids, with smooth acceleration and deceleration. It stirs up to 20 L of water at 100 to 1500 rpm and heats the 5-inch (Ø135 mm) ceramic-coated aluminum plate from RT to 340°C.

Three heating modes (A fast, B standard, C steady) and a timer of 1 min to 99 h 59 min are built in; at the end of the time heating stops and stirring continues. Two independent safety circuits, a "HOT" warning above 50°C, PT1000 external control (±0.2°C) and an RS232 connector complete the unit.

SECTION II

Core Advantages

- **Magnets** — enhanced, for viscous liquids
- **Timer** — heating stops, stirring continues
- **Control** — PT1000, ±0.2°C
- **Heating modes** — A fast, B standard, C steady
- **Safety** — two independent circuits
- **Plate** — ceramic-coated aluminum

SECTION III

Specifications

Technical data — MS-H-ProM

Specifications	
Brand	ALab™ by ACS Material
Model	MS-H-ProM
ACS Cat. No.	Parent ALMSHM0F; ALMSHM00
Product type	LCD digital enhanced magnetic hotplate stirrer with timer
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
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 resolution	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
Heating modes	A fast, B standard, C steady
Power	720 W
Heating output	600 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
Heating modes	A fast heating, B standard heating, C steady heating
Timer	1 min to 99 h 59 min; at the end of the set time heating stops and stirring continues
Safety circuit 1	Stops heating with an alarm on overheating (420°C protection) or a temperature sensor failure
Safety circuit 2	Cuts the power on a short circuit
"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
Status indicators	Heating, stirring and timer status
Housing	Flame-retardant metal housing

SECTION IV

Applications

Heating and magnetic stirring of viscous liquids and 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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