TECHNICAL DATA SHEET

ALab™ DMS5-340M Magnetic Hotplate Stirrer

LCD digital 5-inch timed heating magnetic stirrer · strong magnetic · RT to 340°C · 50 to 1500 rpm



ALab™ DMS5-340M Magnetic Hotplate Stirrer

The ALab™ DMS5-340M magnetic hotplate stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ DMS5-340M is an LCD digital 5-inch timed heating magnetic stirrer with a strong magnetic field for viscous samples. Its Ø135 mm ceramic-coated aluminum plate heats from RT to 340°C in 1°C increments, and a brushless DC motor stirs at 50 to 1500 rpm with a maximum stirring volume of 20 L of water.

One LCD shows speed, time and temperature. A PT1000 external temperature sensor (accuracy ±0.2°C) measures the liquid; three heating modes, a settable safety temperature, 420°C overheating protection, two independent safety circuits and a "HOT" residual-heat warning cover heating safety, and RS232 allows PC remote control. The all-metal (ADC12) housing provides heat dissipation.

SECTION II

Core Advantages

- **Stirring** — strong magnetic field, viscous samples
- **Heating** — RT to 340°C, modes A / B / C
- **Timer** — heating stops, stirring continues
- **Plate** — Ø135 mm, ceramic-coated aluminum
- **Sensor** — PT1000, ±0.2°C
- **Safety** — two independent safety circuits

SECTION III

Specifications

Technical data — DMS5-340M

Specifications	
Brand	ALab™ by ACS Material
Model	DMS5-340M
ACS Cat. No.	ALMS534M (parent ALMS5)
Product type	LCD digital 5-inch timed heating magnetic stirrer (strong magnetic)
Working plate size	Ø135 mm (5 inch)
Plate material	Aluminum with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Maximum stirring volume [H_2O]	20 L
Maximum stirrer size [length]	80 mm
Speed range and step	50 to 1500 rpm, increment 1 rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	RT to 340°C, increment 1°C
Temperature control accuracy of heating 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)
Residual heat warning	50°C
Data connection	RS232
Protection class	IP42
Timer function	1 min to 99 h 59 min
Motor output power	10 W
Power	650 W
Heating output power	600 W

Specifications	
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [L × W × H]	270 × 175 × 98 mm
Weight	2.2 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

SECTION IV

Applications

The DMS5-340M is suitable for stirring viscous liquids and for general chemical synthesis. The specified maximum stirring volume is 20 L of water. A PT1000 external sensor supports liquid-temperature control, mode C provides stable heating, and RS232 supports PC remote control.

Specifications are per the table above.

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