TECHNICAL DATA SHEET

ALab™ DMS5-120 Digital Display Heating Magnetic Stirrer

Digital display heating magnetic stirrer · Ø135 mm plate · RT to 120°C · 200 to 1500 rpm · 5 L · touch panel



ALab™ DMS5-120 Digital Display Heating Magnetic Stirrer

The ALab™ DMS5-120 Digital Display Heating Magnetic Stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ DMS5-120 is a digital display heating magnetic stirrer with a 5-inch (Ø135 mm) aluminum plate with a ceramic coating for fast heat transfer. It heats gently from RT to 120°C and stirs up to 5 L of water at 200 to 1500 rpm (10 rpm increments).

A touch panel with button sound and indicator lights sets temperature and speed; Digital displays show both. External PT1000 control (±0.2°C) with a bracket mount for various sensor angles, 320°C overheating protection and a "HOT" warning above 50°C are built in.

SECTION II

Core Advantages

- **Heating** — RT to 120°C
- **Speed** — 200 to 1500 rpm, 5 L
- **Control** — PT1000, ±0.2°C
- **Plate** — Ø135 mm, ceramic coated
- **Panel** — touch keys, digital displays
- **Safety** — 320°C protection, HOT warning

SECTION III

Specifications

Technical data — DMS5-120

Specifications	
Brand	ALab™ by ACS Material
Model	DMS5-120
ACS Cat. No.	Parent ALDM010F; ALDM0100
Product type	Digital display heating magnetic stirrer with 5-inch ceramic-coated plate
Power supply	100 to 120 V / 200 to 240 V, 50/60 Hz
Power	410 W
Stirring positions	1
Maximum stirring volume [H_2O]	5 L
Maximum stirrer bar length	40 mm
Motor type	Brushless DC motor
Motor rating input	5 W
Motor rating output	3 W
Speed range	200 to 1500 rpm, increment 10 rpm
Speed display	Digital
Work plate material	Aluminum with ceramic coating
Work plate dimension	Ø135 mm (5 inch)
Heating temperature range	RT to 120°C
Temperature display	Digital
Temperature display accuracy	±1°C
Overheating protection	320°C
External temperature sensor	PT1000
External temperature sensor control accuracy	±0.2°C
"HOT" warning	50°C
Dimensions [W × D × H]	260 × 150 × 100 mm
Weight	1.8 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Specifications	
Protection class	IP21

Control and safety

Function	Detail
Touch panel	Touch keys with button sound and indicator lights for temperature and speed operation
Overheating protection	Overheating protection at 320℃
"HOT" warning	When the plate is above 50℃ and heating is off, "HOT" flashes on the display, even after the power is switched off
External temperature control	PT1000 temperature sensor, control accuracy ±0.2℃; bracket mount to set the sensor at various angles

SECTION IV

Applications

Gentle heating from RT to 120℃ and magnetic stirring of up to 5 L of water on a 5-inch plate in the laboratory.

Specifications are per the tables above.

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