TECHNICAL DATA SHEET

ALab™ DMS5-280 LED Digital Display Heating Magnetic Stirrer

LED digital display heating magnetic stirrer · Ø135 mm · RT to 280°C · 50 to 1500 rpm



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The ALab™ DMS5-280 heating magnetic stirrer; image shown for reference.

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Revision Date **10/22/2026**

SECTION I

Product Overview

The ALab™ DMS5-280 is an LED digital display heating magnetic stirrer with a Ø135 mm ceramic-coated aluminum plate that heats from RT to 280°C. A brushless DC motor stirs at 50 to 1500 rpm with strong magnetic force, for up to 5 L of water.

A touch panel with button sound prompts and indicator lights sets temperature and speed; a PT1000 external sensor (±0.2°C control accuracy) sits in an angle-adjustable bracket, with 320°C overheating protection and a "HOT" residual-heat warning.

SECTION II

Core Advantages

- **Plate** — Ø135 mm, ceramic-coated
- **Stirring** — 50 to 1500 rpm, 5 L
- **Display** — LED, touch panel
- **Heating** — RT to 280°C
- **Sensor** — PT1000, ±0.2°C
- **Safety** — 320°C protection, HOT warning

SECTION III

Specifications

Technical data — DMS5-280

Specifications	
Brand	ALab™ by ACS Material
Model	DMS5-280
ACS Cat. No.	ALMS5280 (parent ALMS)
Product type	LED digital display heating magnetic stirrer
Power supply	100 to 120 V / 200 to 240 V, 50/60 Hz
Power	610 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 / output	5 W / 3 W
Speed range	50 to 1500 rpm, increment 10 rpm
Speed display	LED
Work plate material	Aluminum with ceramic coating
Work plate dimension	Ø135 mm
Heating output	600 W
Heating temperature range	RT to 280°C
Temperature display	LED
Temperature display accuracy	±1°C
Overheating protection	320°C
External temperature sensor	PT1000
External sensor temperature 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
Protection class	IP21

SECTION IV

Applications

The DMS5-280 provides heating and magnetic stirring. Its specified maximum stirring quantity is 5 L of water, and its heating range is RT to 280℃.

Specifications are per the table above.

Revision Date: 10/23/2026

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