TECHNICAL DATA SHEET

ALab™ MS7-H280-G 7-Inch Infrared Magnetic Hotplate Stirrer

LCD digital 7-inch infrared heating magnetic stirrer · RT to 280°C · 100 to 1500 rpm · 20 L [H_2O]



ALab™ MS7-H280-G 7-Inch Infrared Magnetic Hotplate Stirrer

The ALab™ MS7-H280-G infrared magnetic hotplate stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ MS7-H280-G is an LCD digital 7-inch infrared heating magnetic stirrer. A full-coverage infrared element under the 180 × 180 mm microcrystalline glass plate heats evenly from RT to 280°C with minimal overshoot, and a brushless DC motor stirs at 100 to 1500 rpm for up to 20 L of water.

The external PT1000 sensor has an accuracy of ±0.2°C. The unit also has 340°C overheating protection, a "HOT" warning and a liquid drainage groove, while RS232 allows computer control and data saving.

SECTION II

Core Advantages

- **Heating** — infrared, even, fast
- **Stirring** — 100 to 1500 rpm, 20 L
- **Splash** — drainage groove
- **Plate** — 180 × 180 mm microcrystalline glass
- **Sensor** — PT1000, ±0.2°C
- **Interface** — RS232

SECTION III

Specifications

Technical data — MS7-H280-G

Specifications	
Brand	ALab™ by ACS Material
Model	MS7-H280-G
ACS Cat. No.	ALM7H28G (parent ALM7H)
Product type	LCD digital control 7-inch infrared heating magnetic stirrer
Work plate dimension [W × D]	180 × 180 mm
Work plate material	Microcrystalline glass
Motor type	Brushless DC motor
Stirring positions	1
Maximum stirring volume [H_2O]	20 L
Maximum stirrer bar length	80 mm
Speed range and accuracy	100 to 1500 rpm, ±10 rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	RT to 280°C, increment 1°C
Temperature control accuracy	±1°C (<100°C), ±1% (>100°C)
Overheating protection	340°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
Motor rating output	10 W
Power	920 W
Heating output	900 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	215 × 360 × 112 mm
Weight	3.7 kg

Specifications	
Permissible ambient temperature and humidity	5 to 40℃, 80% RH

SECTION IV

Applications

The MS7-H280-G is designed for heating and magnetic stirring. The specified maximum stirring quantity is 20 L of water, and the heating range is RT to 280℃.

Specifications are per the table above.

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