TECHNICAL DATA SHEET

ALab™ MS7-H550-Pro LCD Digital Magnetic Hotplate Stirrer

LCD digital magnetic hotplate stirrer · 184 × 184 mm glass-ceramic plate · RT to 550°C · 100 to 1500 rpm · 20 L · RS232



ALab™ MS7-H550-Pro LCD Digital Magnetic Hotplate Stirrer

The ALab™ MS7-H550-Pro LCD Digital Magnetic Hotplate Stirrer; image shown for reference.

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SECTION I

Product Overview

The ALab™ MS7-H550-Pro is an LCD digital magnetic hotplate stirrer with a 7-inch (184 × 184 mm) glass-ceramic plate. It heats from RT to 550°C in 1°C increments and stirs up to 20 L of water at 100 to 1500 rpm.

A built-in PID controller with 580°C overheating protection, a brushless DC motor, two knobs for speed and temperature, external PT1000 control (±0.2°C), a "HOT" warning above 50°C and an RS232 connector for PC control and data transmission are built in.

SECTION II

Core Advantages

- **Plate** — 7-inch glass ceramic
- **Stirring** — 100 to 1500 rpm, 20 L
- **Safety** — 580°C protection, HOT warning
- **Heating** — RT to 550°C, PID
- **Control** — PT1000, ±0.2°C
- **Data** — RS232

SECTION III

Specifications

Technical data — MS7-H550-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	MS7-H550-Pro
ACS Cat. No.	Parent ALMS7O0F; ALMS7O00
Product type	LCD digital magnetic hotplate stirrer with 7-inch glass-ceramic plate
Work plate dimension	184 × 184 mm (7 inch)
Work plate material	Glass ceramic
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, resolution ±1 rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	RT to 550°C, increment 1°C
Temperature control accuracy (liquid)	±1°C (<100°C), ±1% (>100°C)
Overheating protection	580°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 output power	10 W
Power	1050 W
Heating output	1000 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	215 × 360 × 112 mm
Weight	5.3 kg

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

Control and safety

Function	Detail
Controls	Two knobs for speed and temperature
Temperature control	Built-in PID controller
Overheating protection	Overheating protection at 580°C
External temperature control	PT1000 temperature sensor, accuracy ±0.2°C, for control of the sample temperature
"HOT" warning	"HOT" flashes on the display when the plate is above 50°C, even when the unit is switched off
RS232 data connector	PC control and data transmission

SECTION IV

Applications

Application guidance: pharmaceutical (chemical synthesis, biochemical drugs, medicine testing, drug formulation); chemical industry (petrochemical, inorganic and organic chemical synthesis, daily-use chemicals, painting / rubber / plastic, fertilizer / pesticide); research and education (basic chemical experiments, chemical synthesis); food industry (food additives, dairy products, nutrition analysis).

Specifications are per the tables above.

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