TECHNICAL DATA SHEET

ALab™ MS7-H380-E LCD Digital Magnetic Hotplate Stirrer

LCD digital magnetic hotplate stirrer · 184 × 184 mm ceramic-coated plate · RT to 380°C · 80 to 1500 rpm · 20 L



ALab™ MS7-H380-E LCD Digital Magnetic Hotplate Stirrer

The ALab™ MS7-H380-E LCD Digital Magnetic Hotplate Stirrer; image shown for reference.

CONTENTS

01 Product Overview

02 Core Advantages

03 Specifications

04 Applications

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SECTION I

Product Overview

The ALab™ MS7-H380-E is an LCD digital magnetic hotplate stirrer with a 7-inch (184 × 184 mm) aluminum plate with ceramic coating. It heats from RT to 380°C in 1°C increments and stirs up to 20 L of water at 80 to 1500 rpm.

A diversion platform and slope keep liquids out of the unit. External PT1000 control (±0.2°C), dry-burn, overcurrent, ground-fault and overtemperature protection, 410°C overheating protection and a "HOT" warning above 50°C are built in.

SECTION II

Core Advantages

- **Plate** — 7-inch, ceramic coated
- **Stirring** — 80 to 1500 rpm, 20 L
- **Safety** — 410°C, HOT warning
- **Heating** — RT to 380°C
- **Control** — PT1000, ±0.2°C
- **Design** — Spill diversion

SECTION III

Specifications

Technical data — MS7-H380-E

Specifications	
Brand	ALab™ by ACS Material
Model	MS7-H380-E
ACS Cat. No.	Parent ALMS7E0F; ALMS7E00
Product type	LCD digital magnetic hotplate stirrer with 7-inch ceramic-coated plate
Work plate dimension	184 × 184 mm (7 inch)
Work plate material	Aluminum cover with ceramic coating
Motor type	DC brush motor
Stirring positions	1
Maximum stirring volume [H_2O]	20 L
Maximum stirrer bar size	80 × 10 mm
Speed range	80 to 1500 rpm
Speed display	LCD, resolution 1 rpm
Temperature display	LCD, resolution 1°C
Heating temperature range	RT to 380°C, increment 1°C
Overheating protection	410°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
"HOT" warning	50°C
Protection class	IP21
Heating power	Approximately 900 W
Voltage, frequency	100 to 120 V, 60 Hz / 200 to 240 V, 50 Hz
Dimensions [W × D × H]	366 × 240 × 126 mm
Weight	3.5 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Protection functions	Dry-burn, overcurrent, ground-fault and overtemperature protection
Overheating protection	Overheating protection at 410°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 surface is above 50°C, even after the power is switched off
Spill protection	Diversion platform and slope prevent liquids from entering the unit

SECTION IV

Applications

Heating from RT to 380°C and magnetic stirring of up to 20 L of water on a 7-inch plate in the laboratory.

Specifications are per the tables above.

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