TECHNICAL DATA SHEET

ALab™ HP550-S LED Hotplate

LED hotplate · 184 × 184 mm glass-ceramic plate · RT to 550°C · 1000 W · 580°C safety temperature



ALab™ HP550-S LED Hotplate

The ALab™ HP550-S LED Hotplate; image shown for reference.

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SECTION I

Product Overview

The ALab™ HP550-S is a hotplate with a 7-inch (184 × 184 mm) glass-ceramic plate and an LED temperature display. It heats from RT to 550°C in 5°C increments (heating power 1000 W). It has no stirring function.

Separate safety circuits with a 580°C safety temperature, external PT1000 control (±0.2°C) and a "HOT" warning above 50°C are provided.

SECTION II

Core Advantages

- **Plate** — 7-inch glass ceramic
- **Display** — LED, ±1°C
- **Safety** — 580°C, separate circuits
- **Heating** — RT to 550°C, 1000 W
- **Control** — PT1000, ±0.2°C
- **Warning** — HOT above 50°C

SECTION III

Specifications

Technical data — HP550-S

Specifications	
Brand	ALab™ by ACS Material
Model	HP550-S
ACS Cat. No.	Parent ALHP5S0F; ALHP5S00
Product type	LED hotplate with 7-inch glass-ceramic plate (no stirring)
Work plate dimension	184 × 184 mm (7 inch)
Work plate material	Glass ceramic
Heating positions	1
Heating temperature range	RT to 550°C, increment 5°C
Control accuracy of work plate	±10°C
Safety temperature	580°C
Temperature display	LED
Temperature display accuracy	±1°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
Heating warning	50°C
Protection class	IP21
Power	1010 W
Heating power	1000 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	215 × 360 × 112 mm
Weight	4.5 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Temperature setting	Increment 5°C, shown on the LED display
Separate safety circuits	Safety temperature 580°C
External temperature control	PT1000 temperature sensor, accuracy ±0.2°C, for control of the sample temperature
"HOT" warning	"HOT" flashes when the plate is above 50°C

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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