TECHNICAL DATA SHEET

ALab™ HP500-Pro LCD Digital Hotplate

LCD digital hotplate · 254 × 254 mm glass-ceramic plate · RT to 500°C · 1500 W · timer · SD card



ALab™ HP500-Pro LCD Digital Hotplate

The ALab™ HP500-Pro LCD Digital Hotplate; image shown for reference.

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SECTION I

Product Overview

The ALab™ HP500-Pro is an LCD digital hotplate with a 10-inch (254 × 254 mm) glass-ceramic plate that heats from RT to 500°C in 1°C increments (heating output 1500 W). It has no stirring function.

A timer from 1 min to 99 h 59 min, real-time data recording on an SD card, external PT1000 control (±0.2°C), a 540°C safety temperature and a "HOT" warning above 50°C are built in.

SECTION II

Core Advantages

- **Plate** — 10-inch glass ceramic
- **Timer** — 1 min to 99 h 59 min
- **Safety** — 540°C, HOT warning
- **Heating** — RT to 500°C, 1500 W
- **Control** — PT1000, ±0.2°C
- **Data** — SD card

SECTION III

Specifications

Technical data — HP500-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	HP500-Pro
ACS Cat. No.	Parent ALHP5O0F; ALHP5O00
Product type	LCD digital hotplate with 10-inch glass-ceramic plate (no stirring)
Work plate dimension	254 × 254 mm (10 inch)
Work plate material	Glass ceramic
Heating positions	1
Heating temperature range	RT to 500°C, increment 1°C
Temperature control accuracy	±1°C (<100°C), ±1% (>100°C)
Safety temperature	540°C
Temperature and time display	LCD
Timer function	1 min to 99 h 59 min
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.2°C)
"HOT" warning	50°C
Data connector	SD card
Protection class	IP20
Power	1700 W
Heating output	1500 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [W × D × H]	328 × 424 × 138 mm
Weight	7.2 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Timer	Running time settable from 1 min to 99 h 59 min
SD card	Records the running data in real time
Safety temperature	540℃
External temperature control	PT1000 temperature sensor, accuracy ±0.2℃, for control of the sample temperature
"HOT" warning	"HOT" flashes when the plate is above 50℃, even when the hotplate is switched off

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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