TECHNICAL DATA SHEET

ALab™ DHP7-550 LCD Digital 7-Inch Hotplate

LCD digital hotplate · 7-inch glass-ceramic plate · RT to 550°C · 1100 W · three heating modes · timer · RS232



ALab™ DHP7-550 LCD Digital 7-Inch Hotplate

The ALab™ DHP7-550 LCD Digital 7-Inch Hotplate; image shown for reference.

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SECTION I

Product Overview

The ALab™ DHP7-550 is an LCD digital hotplate with a 7-inch glass-ceramic plate that heats from RT to 550°C in 1°C increments (heating output 1100 W). It has no stirring function.

Three heating modes (A rapid, B standard, C stable), a timer from 1 min to 99 h 59 min that stops heating at the end, external PT1000 control (±0.2°C), 580°C overheating protection, two independent safety circuits, a settable safety temperature, a "HOT" warning above 50°C, a safety lock and an RS232 connector for remote PC control are built in.

SECTION II

Core Advantages

- **Plate** — 7-inch glass ceramic
- **Modes** — A rapid, B standard, C stable
- **Safety** — 580°C protection, HOT warning
- **Heating** — RT to 550°C, 1100 W
- **Control** — PT1000, ±0.2°C
- **Data** — RS232 remote control

SECTION III

Specifications

Technical data — DHP7-550

Specifications	
Brand	ALab™ by ACS Material
Model	DHP7-550
ACS Cat. No.	Parent ALDHP00F; ALDHP000
Product type	LCD digital hotplate with 7-inch glass-ceramic plate (no stirring)
Work plate dimension	7 inch
Work plate material	Glass ceramic
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
Timer function	1 min to 99 h 59 min
Power	1150 W
Heating output	1100 W
Voltage, frequency	100 to 120 V / 200 to 240 V, 50/60 Hz
Dimensions [L × W × H]	360 × 230 × 110 mm
Weight	4.3 kg
Permissible ambient temperature and humidity	5 to 40°C, 80% RH

Control and safety

Function	Detail
Heating modes	A: rapid heating, B: standard heating, C: stable heating
Timer	1 min to 99 h 59 min; heating stops at the end of the countdown
Overheating protection	Overheating protection at 580°C
Two independent safety circuits	Continuous monitoring: on overheating or sensor failure the unit reports an error and stops heating; on a short circuit it cuts the power supply
"HOT" warning	When the plate is above 50°C and heating is off, "HOT" flashes on the display, even after the power is switched off
Safety temperature	Settable safety temperature limit
External temperature control	PT1000 temperature sensor, accuracy ±0.2°C, for control of the liquid temperature
Safety lock	Locks the settings against accidental changes during operation
Buzzer	Sounds when the unit detects a fault and when the timer countdown ends
RS232 data connector	Remote control from a PC

SECTION IV

Applications

Heating of larger vessels from RT to 550°C on a 7-inch plate in the laboratory, without stirring.

Specifications are per the tables above.

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