TECHNICAL DATA SHEET

# ALab™ DHP4-550 LCD Digital 4-Inch Hotplate

*LCD digital hotplate · 100 × 100 mm glass-ceramic plate · RT to 550°C · three heating modes · timer · RS232*



**ALab™ DHP4-550 LCD Digital 4-Inch Hotplate**

The ALab™ DHP4-550 LCD Digital 4-Inch Hotplate; image shown for reference.

CONTENTS


01 Product Overview
02 Core Advantages
03 Specifications
04 Applications



ACS MATERIAL, LLC

959 E Walnut St., Suite 100
Pasadena, CA 91106, USA

Phone +1 (866) 227-0656
Fax +1 (781) 518-0284

**contact@acsmaterial.com**



Revision Date **10/23/2026**

SECTION I

## Product Overview

The ALab™ DHP4-550 is an LCD digital hotplate with a 4-inch (100 × 100 mm) glass-ceramic plate that heats from RT to 550°C in 1°C increments (heating output 410 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** — 100 × 100 mm glass ceramic
- **Modes** — A rapid, B standard, C stable
- **Safety** — 580°C protection, HOT warning
- **Heating** — RT to 550°C, 1°C steps
- **Control** — PT1000, ±0.2°C
- **Data** — RS232 remote control

SECTION III

## Specifications

**Technical data — DHP4-550**

| Specifications | |
|---|---|
| **Brand** | ALab™ by ACS Material |
| **Model** | DHP4-550 |
| **ACS Cat. No.** | Parent ALDH010F; ALDH0100 |
| **Product type** | LCD digital hotplate with 4-inch glass-ceramic plate (no stirring) |
| **Work plate dimension** | 100 × 100 mm (4 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** | 430 W |
| **Heating output** | 410 W |
| **Voltage, frequency** | 100 to 120 V / 200 to 240 V, 50/60 Hz |
| **Dimensions [L × W × H]** | 270 × 175 × 108 mm |
| **Weight** | 1.8 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 samples from RT to 550°C on a 4-inch plate in the laboratory, without stirring.

Specifications are per the tables above.

**Revision Date:** 10/23/2026

DISCLAIMER

ALab™ is a trademark of ACS Material, LLC. ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties, either express or implied, regarding the suitability of the equipment for any application or the accuracy of the information contained within this document. Specifications are typical and may vary by model; assess product details and application suitability for the intended use. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.