

TECHNICAL DATA SHEET

ALab™ HC110-Pro Thermo Control

Thermo Control · heating & cooling · -5–110°C · TFT display



ALab™ HC110-Pro Thermo Control

The ALab™ HC110-Pro Thermo Control. Image shown for reference.

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SECTION I

Product Overview

The ALab™ HC110-Pro is a compact, programmable Thermo Control for heating and cooling with digital display and overheating protection for safe sample handling.

Setting range -5–110°C; control accuracy and uniformity $\pm 0.5^{\circ}\text{C}$ @ 20–45°C; max. heating speed 5.5°C/min, max. cooling speed 2.5°C/min (100°C to room temp); TFT display, 9 programs, 200 W, overheating protection 150°C.

SECTION II

Core Advantages

- **Setting** — -5 to 110°C
- **Accuracy** — $\pm 0.5^{\circ}\text{C}$ @ 20–45°C
- **Programs** — 9
- **Function** — heating & cooling
- **Display** — TFT
- **Blocks** — 11 listed items

SECTION III

Specifications

Technical data — HC110-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	HC110-Pro
SKU #	ALHC1000
Functions	Heating & cooling
Temperature range [°C]	Below room temp 25 to 110
Temperature setting range [°C]	-5–110
Temperature control accuracy @ 20–45 [°C]	± 0.5
Temperature uniformity @ 20–45 [°C]	± 0.5
Power [W]	200
Time setting range	0min~99h30min
Max. heating speed	5.5°C/min
Max. cooling speed	2.5°C/min (100°C to room temp); 0.5°C/min (below room temp)
Mixing speed [rpm]	—
Mixing orbit [mm]	—
Display	TFT
Program	9
Overheating protection [°C]	150
Voltage, frequency	110/220V, 50/60HZ
Dimension [mm]	200×235×120
Weight [kg]	7.3
Operating temperature [°C]	10–40
Operating humidity [% RH]	<80

Heating blocks — H100-Pro / HC110-Pro / HCM100-Pro / HM100-Pro

Heating blocks			
Capacity	Magnetic	Mechanical fixation	Diameter×depth
24×0.5mL	18900401	18900344	8.1×26mm
24×1.5mL	18900402	18900343	10.9×30.8mm
24×2mL	18900403	18900345	10.9×30.8mm
8×5mL round bottom	18900404	18900637	13.6×42mm
8×5mL cone bottom	18900405	18900638	17×51.5mm
24×1.5mL Chromatography Vial	18900874	—	12×20.5mm
8×15mL	18900406	18900241	16.9×106mm
4×50mL	18900407	18900242	29.6×102mm
12×0.2mL PCR 8-tube strip or 0.2mL 96 PCR Microplate	18900420	18900349	5.7×13.2mm
ELISA microplate	18900423	18900350	127×85mm
Deep well Plate	18900746	—	127×85×42mm

SECTION IV

Applications

Reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to be processed at or near room temperature.

Product value: precise temperature control for heating and cooling between -5°C and 110°C for all major lab applications, compact and programmable with overheating protection and interchangeable sample blocks.

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