

TECHNICAL DATA SHEET

ALab™ HCM100-Pro/HM100-Pro Thermo Mix

Thermo Mix · HCM100-Pro: heating/cooling/mixing; HM100-Pro: heating/mixing · 200–1500rpm · TFT display



ALab™ HCM100-Pro/HM100-Pro Thermo Mix

The ALab™ HCM100-Pro Thermo Mix. HCM100-Pro shown.

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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
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SECTION I

Product Overview

The ALab™ HCM100-Pro and HM100-Pro Thermo Mix series integrates precise and efficient heating & cooling and mixing function; the HCM100-Pro combines the excellent mixing and accurate temperature control.

Setting range 0–100°C, $\pm 0.5^\circ\text{C}$ control accuracy and uniformity @ 20–45°C; mixing speed 200–1500rpm, orbit 3 mm; TFT display, 9 programs, 200 W, overheating protection 150°C. HCM100-Pro: heating, cooling & mixing; HM100-Pro: heating & mixing.

SECTION II

Core Advantages

- **Models** — HCM100-Pro / HM100-Pro
- **Mixing** — 200–1500rpm
- **Setting** — 0–100°C
- **Display** — TFT
- **Programs** — up to 9
- **Blocks** — 11 listed items

SECTION III

Specifications

Technical data — HCM100-Pro • HM100-Pro

Specifications	
Brand	ALab™ by ACS Material
Model	HCM100-Pro, HM100-Pro
SKU #	ALTMIX00
Temperature setting range [°C]	0–100
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
Mixing speed [rpm]	200–1500
Mixing orbit [mm]	3
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

Specifications by model — HCM100-Pro • HM100-Pro

Specifications by model		
Parameter	HCM100-Pro	HM100-Pro
Functions	Heating, cooling & mixing	Heating & mixing
Temperature range [°C]	Below room temp 15 to 100	Room temp to 100
Temperature setting range [°C]	0–100	0–100
Temperature control accuracy @ 20–45 [°C]	±0.5	±0.5
Temperature uniformity @ 20–45 [°C]	±0.5	±0.5
Power [W]	200	200
Time setting range	0min~99h30min	0min~99h30min
Max. heating speed	5.5°C/min	5.5°C/min
Max. cooling speed	5°C/min (100°C to room temp); 0.5°C/min (below room temp)	—
Mixing speed [rpm]	200–1500	200–1500
Mixing orbit [mm]	3	3
Display	TFT	TFT
Program	9	9
Overheating protection [°C]	150	150
Voltage, frequency	110/220V, 50/60HZ	110/220V, 50/60HZ
Dimension [mm]	200×235×120	200×235×120
Weight [kg]	7.3	7.3
Operating temperature [°C]	10–40	10–40
Operating humidity [% RH]	<80	<80

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

Heating blocks				
Capacity	Magnetic	Mechanical fixation	Speed	Diameter×depth
24×0.5mL	18900401	18900344	1500rpm	8.1×26mm
24×1.5mL	18900402	18900343	1500rpm	10.9×30.8mm
24×2mL	18900403	18900345	1500rpm	10.9×30.8mm
8×5mL round bottom	18900404	18900637	1500rpm	13.6×42mm
8×5mL cone bottom	18900405	18900638	1400rpm	17×51.5mm
24×1.5mL Chromatography Vial	18900874	—	1500rpm	12×20.5mm
8×15mL	18900406	18900241	800rpm	16.9×106mm
4×50mL	18900407	18900242	600rpm	29.6×102mm
12×0.2mL PCR 8-tube strip or 0.2mL 96 PCR Microplate	18900420	18900349	1500rpm	5.7×13.2mm
ELISA microplate	18900423	18900350	1500rpm	127×85mm
Deep well Plate	18900746	—	—	127×85×42mm

SECTION IV

Applications

Precise and efficient heating/cooling and mixing is applicable for many applications such as Gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, and others.

Product value: precise and efficient heating, cooling and mixing in one instrument (HCM100-Pro) or heating and mixing (HM100-Pro), fully programmable, with tool-free block interchange and automatic block recognition. Select the model before ordering.

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