

# Thermo Mix

## HCM100-Pro/HM100-Pro

Thermo Mix series integrates precise and efficient heating & cooling and mixing function

DLAB HCM100-Pro-Heating/Cooling/Mixing

DLAB HCM100-Pro combines the excellent mixing and accurate temperature control, to make your work efficiently and productively



### Magnet adhesion technology

Quick interchange of blocks with magnet adhesion technology without any tools

### Module compatibility

Flexible adapter selection, compatible with various tubes

### Intuitive display

LCD display for time, speed and temperature parameters

### Program keys

Freely programmable  
Fast and simple access to the most frequently used temperature and time parameters  
Save up to 9 user defined programs

### Block self-recognition

The system can automatically identify the heating module to ensure the smooth completion of the experiment

### Add-ons

Three point temperature calibration for precise temperature control

### Temperature protection

Block equipped with a lid for heat preservation

## Features

- Fully programmable
- Precise temperature control for heating and cooling
- Real-time display of speed, temperature and time
- Excellent mixing (200-1500rpm)
- Quick interchange of blocks without tools and automatic block recognition
- Compatible with most popular tubes
- Block equipped with a lid for heat preservation
- Temperature self-calibration

## 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.

# Thermo Control

## HC110-Pro

heating and cooling with digital display



## Features

- Compact, programmable and overheating protection for safe sample handling
- Precise temperature control for heating and cooling -5°C to 110°C for all major lab applications
- Interchangeable sample blocks available
- Most common application includes reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to be processed at or near room temperature.

## As low as -5°C

Precise temperature control for heating and cooling between -5°C-110°C.



Specifications	HCM100-Pro	HM100-Pro	HC110-Pro
Functions	Heating,cooling&mixing	Heating&mixing	Heating&cooling
Temperature range [°C]	Below room temp 15- 100	Room temp-100	Below room temp 25- 110
Temperature Setting range [°C]	0-100	0-100	-5-110
Temperature control accuracy@20-45 [°C]	±0.5	±0.5	±0.5
Temperature uniformity@20-45 [°C]	±0.5	±0.5	±0.5
Power [W]	200	200	200
Time setting range	0min~99h30min	0min~99h30min	0min~99h30min
Max Heating speed	5.5°C/min	5.5°C/min	5.5°C/min
Max Cooling speed	5°C/min (100°C-room temp) 0.5°C/min (below room temp)	-	2.5°C/min (100°C-room temp) 0.5°C/min (below room temp)
Mixing speed [rpm]	200-1500	200-1500	-
Mixing orbit [mm]	3	3	-
Display	TFT	TFT	TFT
Program	9	9	9
Overheating protection [°C]	150	150	150
Voltage,Frequency	110/220V, 50/60HZ	110/220V, 50/60HZ	110/220V, 50/60HZ
Dimension [mm]	200x235X120	200x235X120	200x235X120
Weight [kg]	7.3	7.3	7.3
Operating temperature [°C]	10-40	10-40	10-40
Operating humidity [% RH]	<80	<80	<80

# Blocks

## H100-Pro/HC110-Pro/HCM100-Pro/HM100-Pro

Cat.No	Magnetic	18900401	18900402	18900403	18900404	18900405	
	Mechanical fixation	18900344	18900343	18900345	18900637	18900638	
<b>Block types</b>							
<b>Capacity</b>	0.5mL×24	1.5mL×24	2mL×24	5mL×8 round bottom	5mL×8 cone bottom		
<b>Speed</b>	1500rpm	1500rpm	1500rpm	1500rpm	1400rpm		
<b>Diameter×depth</b>	8.1×26mm	10.9×30.8mm	10.9×30.8mm	13.6×42mm	17×51.5mm		
Cat.No	Magnetic	18900874	18900406	18900407	18900420	18900423	18900746
	Mechanical fixation	—	18900241	18900242	18900349	18900350	—
<b>Block types</b>							
<b>Capacity</b>	1.5mL×24 Chromatography Vial	15mL×8	50mL×4	0.2mL×8 PCR strips or 0.2mL×96 PCR microplate		ELISA microplate	Deep well Plate
<b>Speed</b>	1500rpm	800rpm	600rpm	1500rpm		1500rpm	—
<b>Diameter×depth</b>	12×20.5mm	16.9×80mm	29.6×80mm	5.7×13.2mm		127×85mm	127×85×42mm

## HB120-S/HB120-SC (Standard:151×95×50mm, Thin:151×95×36.5mm)

Cat.No	Standard	18900218	18900219	18900253	18900220	18900818	18900221	
	Thin	18900274	18900275	18900276	18900277	18900877	—	
<b>Block types</b>								
<b>Capacity</b>	0.2mL×54	0.5mL×40	1.5mL×40	2mL×40	2mL×60 Ampoules tubes		5/15mL×28	
<b>Diameter×depth</b>	6.4×15mm	8.2×26.4mm	11×34.7mm	11×34.7mm	12×37mm	17×48mm		
Cat.No	Standard	18900222	18900224	18900223	18900546		—	
	Thin	—	18900278	18900279	—		18900504	
<b>Block types</b>								
<b>Capacity</b>	50mL×8	0.2mL+0.5mL +1.5/2mL 18+18+18	microplate	5mL blood collection tubex45		0.2mL×8 PCR strips or 0.2mL×96 PCR microplate		
<b>Diameter×depth</b>	29.8×48mm	Each capacity	127×85mm	13.5×48mm		5.7×13.2mm		
<b>Capacity</b>	Cat. No.18900523			<b>Capacity</b>				
Two-in-one block, bead bath/water bath Adapt to S2			Aluminum beads				