





TC1000-G

Thermal Cycler Gradient

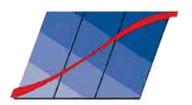
TC1000-S

Thermal Cycler Standard

Thermal cycler is essential laboratory instrument in the field of molecular, research such as gene chip, gene detection, gene cloning, gene expression, and applied market like drug discovery, agriculture, food industry, etc.

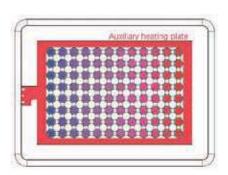
Features

High performance long life Peltier and independent control circuits for different heating segments implement accurate temperature control;



Auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity

Temperature uniformity < 0.3°C



Gradient temperature setting supported, saving time and high efficiency.

Running process can be controlled at will

View the saved program in the operation, click the "Status" button to enter the running interface.





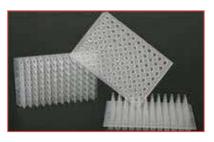
User friendly interface on 7 inch color touch screen enable you edit the program very simple. All parameters is very visible for choice. The PCR touch screen pen improves the operation experience and reduces the cross contamination risk.





It can be adapted to multi-brand common PCR tubes, 8-well PCR strips and 96-well PCR plates.







File customization, multi-file storage, Power-off protection function, automatic program recovery,

Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will automatically turn off.

Specifications	TC1000-G	TC1000-S
Sample Capacity	96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate	96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate
Heating Temperature Range /°C	4~105	4~105
Lid Temperature Range /°C	30~110	30~110
Temperature Display Accuracy /°C	±0.1	±0.1
Temperature Display Accuracy@55°C	±0.3	±0.3
Temperature uniformity@55°C	<0.3	<0.3
Max. Heating/Cooling Rate	5°C/Sec	5°C/Sec
Gradient Temperature Setting Range /°C	30~99°C	-
Gradient Range /°C	1~42°C	-
Adapter block material	Aluminum	Aluminum
Display	7" LCD 800x480	7" LCD 800x480
Input	Touch panel	Touch panel
User defined file system	Max. 30 segments 99 cycles max. 16 folder and 16 files each folder	Max. 30 segments 99 cycle max.16 folder and 16 files each folder
Power off protection	Yes	Yes
Power Supply	100~120V/200~240V,50/60Hz	100~120V/200~240V,50/60Hz
Dimension[WxDxH]	280x370x250 mm	280x370x250 mm
Weight	11kg	11kg

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.

Real-Time PCR System

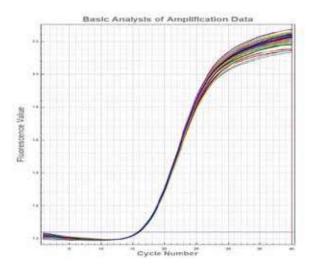
Accurate 96

Features

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required.
- New optical scanning detection system
- Innovative scanning method and time-resolved signal separation technology
- Unique edge temperature compensation technology
- User-friendly software



Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA	ROX/Texas Red	FAM/SYBR
VIC/HEX/TET/JOE	CY5/Quasar 670	FAM/SYBR
Channel 3	Channel 2	Channel 1



Technical Parameters

Temperature control system		Detection system	
Sample capacity	0.1ml PCR tubes \times 96, 8 \times 12 PCR plate or 96 well plate \times 1	Excitation light source	4/6 monochrome high efficiency LEDs
Reaction volume	10-50 μl	Detection device	PMT
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection wavelength range	455-650nm/510-715nm
Heating temperature range	4 – 100 °C	Fluorescent channels	4/6 channels
Temperature accuracy	± 0.2°C	Supported dye	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/ Texas Red, Mustang Purple, Cy5/LIZ
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	Sensitivity	Single copy gene
Temperature gradient setting range	30–100°C	Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR
Temperature gradient difference setting range	1 – 36°C	Dynamic range	10 orders of magnitude copies

HB120-S Dry bath

Features

• A wide range of temperature control up to 120°C

• Timer control up to 99+ hour

• Various types of optional blocks are available

Overheating protection

• Lid for protection and heat preservation

Specifications

Functions Temperature range Temperature setting range Temperature control accuracy [at 37°C] Temperature uniformity Max. heating rate Timer Screen Overheating protection Adapter block material Voltage, Frequency Power Dimension[W×D×H] Weight

HB120-S
Heating
Room temp120°C
15°C~120°C
± 0.5°C
± 0.5°C
5.5°C/min
0min-99h59min
LED
140°C
aluminum
100-120V/220-240V,50Hz/60Hz
160W
175 x 290 x 85mm
3kg





Adapter block selection



Overheating protection



Timer



LED display



Cat.No.

Standard:18900218 Thin: 18900274

> Standard: 18900219 Thin: 18900275

Standard: 18900253(1.5mL) 18900220(2mL) Thin: 18900276(1.5mL) 18900277(2mL)

Standard: 18900221

Standard: 18900222

Standard:18900224 Thin:18900278

Standard: 18900223 Thin:18900279

Thin:18900504

18900523

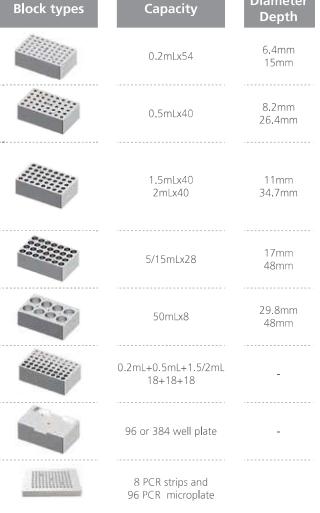




Two-in-one block, bead bath/water bath

No more concern of tube sizes

Diameter



HB60-S Dry bath

Features

- Adjustable temperature from ambient to 60°C;
- Excellent temperature control accuracy and uniformity to protect samples and ensure precision result of tests;
- Timer function and continuous function are available to meet different applications;
- Fast heating rate to improve the efficient workflow;
- Especially suitable for sample preparation of semiautomatic biochemistry analyzer;
- 5ml and 10ml mixed heating block;
- Overheating protection.





C N

Overheating protection



Timer



LED display



Block types

Capacity

5/10mLx38

Diameter Depth

Ф13m/15.25mm 33mm

Specifications

Voltage [VAC]
 Frequency [Hz]
 Power [W]
Capacity

Heating temperature range

Temperature display
 Control accuracy
 Temperature uniformity
Max. heating rate
Safety temperature
Time setting range
Operation type

Dimensions[W \times D \times H]
Weight[kg]

HB60-S

HB60-S
200~240
50/60
160
5ml×30+10ml×8pcs
5 gears: 25°C, 30°C, 37°C, 45°C, 60°C
LED
± 0.5°C
± 0.3°C
5.5°C /min
80 ℃
0min -99h59min

Continuous/ timed operation 175×290×85mm

2.5





HB105-S1/HB105-S2 HB150-S1/HB150-S2 **Dry bath**

Features

- A wide range of temperature control up to 105°C/150°C.
- Overheating protection.
- Sound reminder function.
- External temperature sensor PT1000
- Block equipped with a lid for heat preservation and prevent pollution.

• Knob adjustment is easy to operate.



Two-in-one block, bead bath/water bath Adapt to S1

Two-in-one block, bead bath/water bath Adapt to S2

Aluminum beads





18900523

18900520



HB150-S1

LED



HB150-S2

LED

Depth

6.4×15mm

17×48mm

Specifications

Screen Temperature range[°C] Temperature setting range [°C] Temperature control accuracy[°C] Temperature uniformity@37°C [°C] Power [w] Time setting range External sensor USB interface Power supply External dimension[mm] Weight[kg] Operating temperature[°C] Operating humidity [% RH]

HR 102-2.1
LED
Room temp+5~105
25~105
25-90: ±0.3 90-105: ±0.6
±0.2
100
0~99h59min
Yes
Yes
110/220V, 50/60Hz
290x210x120
3.2
+10~40
<80

LED
Room temp+5~105
25~105
25-90: ±0.3 90-105: ±0.6
±0.2
200
0~99h59min
Yes
Yes
110/220V, 50/60Hz
290x210x120
3.2
+10~40
<80

Room temp+5~150
25~150
25-90: ±0.3 90-150: ±0.6
±0.2
100
0~99h59min
Yes
Yes
110/220V, 50/60Hz
290x210x120
3.2
+10~40
<80

Room temp+5~150
25~150
25-90: ±0.3 90-150: ±0.6
±0.2
200
0~99h59min
Yes
Yes
110/220V, 50/60Hz
290x210x120
3.2
+10~40
<80

Mini Dry bath is portable, compact and convenient. It is useful for rapid and uniform heating of biological samples, in applications like preservation and denaturation of nucleic acids and proteins and many other applications.

Cat.NO.	Block types	Capacity	Diameter x depth
18900414		0.2ml×40	6.4×20 mm
18900415		0.5ml×24	8.2×28.4mm
18900416		1.5mL×15	11.2×31mm
18900428		2ml×15	11×31mm
18900417	03.50	5mL×6	17×31mm
18900426	930	15ml×4	16.4×45mm
18900427	*	50ml×2	29×45mm



Mini HCL100 Mini HC100 Mini H100

Dry Bath

Features

- Light in weight
- LCD display of both temperature and time.
- Rapid calibration support
- Overheating protection
- Optional blocks with different capacities are available
- Safe and stable

Mini HC100

- USB interface to save the data
- Mini HCL100 with hot lid provided to preserve the generated heat

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Display
Temperature setting range[°C]
Temperature range [°C]
Temperature control accuracy[°C]
Temperature display accuracy[°C]
Minimum time taken for heating(25°C-100°C)
Minimum time for cooling (20°C-0°C)
Max. Heating Rate
Max. Cooling Rate
Time setting range
No. of programs in memory
Rapid calibration
USB interface
Error code reminder
External dimension [mm]
Overall weight [kg]
Power supply
Power[w]
Operating temperature[°C]
Operating humidity [% RH]

LCD
0-100
Room temperature-23~100
±0.5
0,1
≤20min
≤25min
8°C /min
3°C /min
0-999min/0-999sec
9(2steps for each)
Support
Support
Support
110x162x140

DC12V,100-240V,

+10-40 ≤80

Mini HCL100

	LCD
	0-100
e-23~100	Room temperature-23~100
	±0.5
	0.1
	≤20min
	≤25min
	8°C /min
	3°C /min
99sec	0-999min/0-999sec
ach)	9 (2steps for each)
	Support
	Support
	Support
40	110x162x140
	≤1
50/60Hz	DC12V,100-240V, 50/60Hz
	60
	+10-40
	≤80

≤80



• Precise temperature control for

 Compatible with various tubes
 Quick interchange of blocks with magnet adhesion technology and

• Block equipped with a lid for heat

heating and coolingFlexible adapter selection

without any tools

• Three-point temperature

preservation

calibration

• Programmable

HC110-Pro
Thermo control
with cooling

Features

Cat.No.	Blocks	Speed	Capacity	Diameter x Depth
18900401		1500rpm	24x0,5mL	8,1x26mm
18900402		1500rpm	24x1.5mL	10.9x30.8mm
18900403		1500rpm	24x2mL	10.9x30.8mm
18900404		1500rpm	8x5mL (round bottom)	13.6x42mm
18900405	2222	1400rpm	8x5mL (cone bottom)	17x51.5mm
18900406	11171	800rpm	8x15mL	16.9x80mm
18900407		600rpm	4x50mL	29.6x80mm
18900420		1500rpm	0.2mLx96 PCR plate	-

1500rpm



Excellent temperature accuracy



Programmable



Adapter self recognition



Specifications

18900423

Functions

Temperature range

Temperature setting range specifications
Temperature control accuracy[@20–45°C]
Temperature uniformity[@20–45°C]

Max. heating rate

	Max. cooling rate	
	Time setting range	
	Screen	
	Program	
0	verheating protection	
А	dapter block material	
	Voltage, Frequency	
	Power	
	Dimension[W×D×H] hout the heating block)	
	Weight	

HC110-Pro

microplate

Heating & cooling

Heating: room temp. - 110°C Cooling: room temp. - below room temp. 25°C

-5~110°C ± 0.5°C ± 0.5°C 5.5°C/min

> 2.5°C/min (100°C-room temp.) 0.5°C/min (below room temp.)

0~99h30min

TFT

9

150°C

aluminum

100–240V,50/60Hz

200W

200×235×120mm

7.3kg

HCM100-Pro

Thermo Mix

HM100-Pro

Thermo Mix with heating

H100-Pro

Thermo control

Features

- Excellent mixing result
- Stable and wide range of speed adjustment
- Precise temperature control for heating and cooling
- Flexible adapter selection
- Programmable
- Compatible with various tubes
- Quick interchange of blocks with magnet adhesion technology and without any tools
- Block equipped with a lid for heat preservation
- Three-point temperature calibration



The Thermo Mix series allow for precise and efficient heating and mixing, as well as excellent temperature accuracy and uniformity, offering a wide range of applications, such as gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, etc.



Blocks self recognition







Specifications

Functions

Temperature range

Temperature setting range specifications Temperature control accuracy[@ 20–45°C] Temperature uniformity[@ 20–45°C] Max. heating rate

Max. cooling rate

Mixing frequency
Mixing orbit
Time setting range
Screen
Program
Overheating protection
Adapter block material
Voltage, Frequency
Power
Dimension[WxDxH]

(without the heating block)

Weight

HCM100-Pro

Heating, cooling & mixing Heating: room temp. - 100°C Cooling: room temp. - below room temp. 15°C

0.1~100°C

 \pm 0.5°C

± 0.5°C

5.5°C/min

5°C /min(100°C-room temp.) 0.5°C/min(below room temp.)

200-1500rpm
3mm
0~99h30min
TFT
9
150°C
aluminum
100-240V,50/60Hz

200×235×120mm 7.3kg

200W

HM100-Pro

Heating & mixing
Heating: room temp. - 100

15~100°C

± 0,5°C

5,5°C/min

± 0.5°C

-200-1500rpm

3mm

0~99h30min

9

150°C

aluminum

100-240V,50/60Hz

200W

7.3kg

H100-Pro

Heating

Heating: room temp+5 °C. · 100°C

15~100 °C

± 0,5°C

± 0.5°C

5,5°C/min

_

> 0~99h30min TFT

9 ------

150°C aluminum 100-240V,50/60Hz

7.3kg

200W

200×235×120mm 200×235×120mm

31