

# Thermal Cycler



Labtron Equipment Ltd

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## TOUCH THERMAL CYCLER (BASIC) LTCB-A SERIES

We manufacture a wide range of thermal cyclers (basic/gradient) that are designed with quality and keeping in mind all kinds of PCR uses. Our products features 8 pieces custom-built US Marlow peltier, maximum ramping rate of 5°C, cycle run  $\geq 600000$  times. With latest technology such as Windows OS, PC control function, print function, color touch-screen and large data storage along with USB interface makes this product a necessity in every type of PCR-based experimental protocols.

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### Features

- Independent temperature control sensors and eight peltier units maintain temperature uniformity
- Internal flash memory for 10000 typical PCR files
- Auto restart after power failure
- 8" TFT colour screen for easy monitoring
- Easy view of actual and target temperatures in real time
- Compatible with various devices- mouse, keyboard
- Optional dual block module can run two programs at the same time
- Software update and data transfer via USB drive

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### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LTCB-A10	LTCB-A11	LTCB-A12
Capacity	96×0.2ml	60×0.5ml	384well
Block Temperature Range	0-100°C		
Temperature Control Accuracy	±0.1°C		
Ramping Rate Adjustable	0.1-5°C		
Temperature Uniformity	±0.2°C		
Heating Rate	5°C/s		
Cooling Rate	4°C/s		
Temperature Control Mode	Block\Tube		
Hot-lid Temperature Range	30-110°C		
Hot Lid Height Adjustable	Stepless Adjustable		
Time Increment/Decrement	1sec ~ 9 Min 59sec		
Temperature Increment/Decrement	0.1-9.9°C		
Program	10000 +(USB FLASH)		
Max No. of Steps	30		
Max No. of Cycles	99		
Pause Function	Yes		
Auto Data Protection	Yes		
Print	Yes		
LCD	8inch□800×600 Pixels, TFT		
Communication	USB2.0 , LAN		
Power Supply	85-264V AC , 47-63Hz , 600W		
Dimension ( L×W×H )	380×240×260mm		
Weight	8.5kg		

## TOUCH THERMAL CYCLER (GRADIENT) LTCG-A SERIES

We provide a wide range of thermal cyclers (basic/gradient) that are designed with quality and keeping in mind all kinds of PCR uses. Our products features 8 pieces custom-built US Marlow peltier, maximum ramping rate of 5°C, cycle run  $\geq 600000$  times. With latest technology such as Windows OS, PC control function, print function, color touch-screen and large data storage along with USB interface makes this product a necessity in every type of PCR-based experimental protocols.

### Features

- Independent temperature control sensors and eight peltier units maintain temperature uniformity
- Internal flash memory for 10000 typical PCR files
- Auto restart after power failure
- 8" TFT colour screen for easy monitoring
- Easy view of actual and target temperatures in real time
- Compatible with various devices- mouse, keyboard
- Optional dual block module can run two programs at the same time
- Software update and data transfer via USB drive

### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LTCG-A10	LTCG-A11	LTCG-A12
Capacity	96×0.2ml	60×0.5ml	384well
Block Temperature Range	0-100°C		
Temperature Control Accuracy	≤±0.1°C		
Ramping Rate Adjustable	0.1-5°C		
Temperature Uniformity	≤±0.2°C		
Heating Rate	5°C/s		
Cooling Rate	4°C/s		
Temperature Control Mode	Block\Tube		
Gradient Temperature Range	30-100°C		
Gradient Uniformity	≤±0.2°C		
Gradient Accuracy	≤±0.2°C		
Gradient Spread	1-30°C		
Hot-lid Temperature Range	30-110°C		
Hot Lid Height Adjustable	Stepless Adjustable		
Time Increment/Decrement	1sec - 9 Min 59sec		
Temperature Increment/Decrement	0.1-9.9°C		
Program	10000+(USB FLASH)		
Max No. of Steps	30		
Max No. of Cycles	99		
Pause Function	Yes		
Auto Data Protection	Yes		
Print	Yes		
LCD	8inch-800×600 Pixels, TFT		
Communication	USB2.0 , LAN		
Power Supply	85-264V AC , 47-63Hz , 600W		
Dimension ( L×W×H )	380×240×260mm		
Weight	8.5kg		

## Specification

Model	LTCG-A20	LTCG-A21
Capacity	Double 48×0.2ml	48×0.2ml+30×0.5ml
Block Temperature Range	0-100°C	
Temperature Control Accuracy	≤±0.1°C	
Ramping Rate Adjustable	0.1-5°C	
Temperature Uniformity	≤±0.2°C	
Heating Rate	5°C/s	
Cooling Rate	4°C/s	
Temperature Control Mode	Block\Tube	
Gradient Temperature Range	30-100°C	
Gradient Uniformity	≤±0.2°C	
Gradient Accuracy	≤±0.2°C	
Gradient Spread	1-30°C	
Hot-lid Temperature Range	30-110°C	
Hot Lid Height Adjustable	Stepless Adjustable	
Time Increment/Decrement	1sec ~ 9 Min 59sec	
Temperature Increment/Decrement	0.1-9.9°C	
Program	10000+(USB FLASH)	
Max No. of Steps	30	
Max No. of Cycles	99	
Pause Function	Yes	
Auto Data Protection	Yes	
Print	Yes	
LCD	8inch-800×600 Pixels, TFT	
Communication	USB2.0 , LAN	
Power Supply	85-264V AC , 47-63Hz , 600W	
Dimension ( L×W×H )	380×240×260mm	
Weight	8.5kg	

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## HD THERMAL CYCLER (BASIC) LHTB-A SERIES

These models of thermal cyclers (basic/gradient) consists latest assembling with high efficiency and keeping in mind all types of PCR uses. They are equipped with 8 pieces custom-built US Marlow peltier, maximum ramping rate of 5°C, cycle run  $\geq 600000$  times, included with latest technology such as Windows OS, PC control function, print function, HD-color touch-screen and large data storage along with USB interface for every type of PCR-based experimental protocols.

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### Features

- Replaceable six modules to meet different applications
- Adjustable hot lid
- Wireless Bluetooth printing and LAN online
- Data protection during power cut
- High definition 5.6" TFT colour display for easy observation
- Temperature uniformity via semiconductor technology
- High performance universal power supply

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### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LHTB-A10	LHTB-A11	LHTB-A12
Capacity	96×0.2ml	60×0.5ml	384well
Block Temperature Range	0-100°C		
Temperature Control Accuracy	±0.1°C		
Ramping Rate Adjustable	0.1-5°C		
Temperature Uniformity	±0.2°C		
Heating Rate	5°C/s		
Cooling Rate	4°C/s		
Temperature Control Mode	Block\Tube		
Hot-lid Temperature Range	30-110°C		
Hot Lid Height Adjustable	Stepless Adjustable		
Time Increment/Decrement	1sec ~ 9 Min 59sec		
Temperature Increment/Decrement	0.1-9.9°C		
Program	1000 +(USB FLASH)		
Max No. of Steps	30		
Max No. of Cycles	99		
Pause Function	Yes		
Auto Data Protection	Yes		
Print	Yes		
LCD	5.6inch-640×480 Pixels, TFT		
Communication	USB2.0 , LAN		
Power Supply	85-264V AC , 47-63Hz , 600W		
Dimension ( L×W×H )	380×240×260mm		
Weight	8.5kg		



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## HD THERMAL CYCLER (GRADIENT) LHTG-A SERIES

These models of thermal cyclers (basic/gradient) consists latest assembling with high efficiency and keeping in mind all types of PCR uses. They are equipped with 8 pieces custom-built US Marlow peltier, maximum ramping rate of 5°C, cycle run  $\geq 600000$  times, included with latest technology such as Windows OS, PC control function, print function, HD-color touch-screen and large data storage along with USB interface for every type of PCR-based experimental protocols.

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### Features

- Replaceable six modules to meet different applications
- Adjustable hot lid
- Wireless Bluetooth printing and LAN online
- Data protection during power cut
- High definition 5.6" TFT colour display for easy observation
- Temperature uniformity via semiconductor technology
- High performance universal power supply

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### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LHTG-A10	LHTG-A11	LHTG-A12
Capacity	96×0.2ml	60×0.5ml	384well
Block Temperature Range	0-100°C		
Temperature Control Accuracy	±0.1°C		
Ramping Rate Adjustable	0.1-5°C		
Temperature Uniformity	±0.2°C		
Heating Rate	5°C/s		
Cooling Rate	4°C/s		
Temperature Control Mode	Block\Tube		
Gradient Temperature Range	30-100°C		
Gradient Uniformity	±0.2°C		
Gradient Accuracy	±0.2°C		
Gradient Spread	1-30°C		
Hot-lid Temperature Range	30-110°C		
Hot Lid Height Adjustable	Stepless Adjustable		
Time Increment/Decrement	1sec - 9 Min 59sec		
Temperature Increment/Decrement	0.1-9.9°C		
Program	1000 +(USB FLASH)		
Max No. of Steps	30		
Max No. of Cycles	99		
Pause Function	Yes		
Auto Data Protection	Yes		
Print	Yes		
LCD	5.6inch-640×480 Pixels, TFT		
Communication	USB2.0 , LAN		
Power Supply	85-264V AC , 47-63Hz , 600W		
Dimension ( L×W×H )	380×240×260mm		
Weight	8.5kg		

## Specification

Model	LHTG-A20	LHTG-A21
Capacity	Double 48×0.2ml	48×0.2ml+30×0.5ml
Block Temperature Range	0-100°C	
Temperature Control Accuracy	≤±0.1°C	
Ramping Rate Adjustable	0.1-5°C	
Temperature Uniformity	≤±0.2°C	
Heating Rate	5°C/s	
Cooling Rate	4°C/s	
Temperature Control Mode	Block\Tube	
Gradient Temperature Range	30-100°C	
Gradient Uniformity	≤±0.2°C	
Gradient Accuracy	≤±0.2°C	
Gradient Spread	1-30°C	
Hot-lid Temperature Range	30-110°C	
Hot Lid Height Adjustable	Stepless Adjustable	
Time Increment/Decrement	1sec - 9 Min 59sec	
Temperature Increment/Decrement	0.1-9.9°C	
Program	1000 +(USB FLASH)	
Max No. of Steps	30	
Max No. of Cycles	99	
Pause Function	Yes	
Auto Data Protection	Yes	
Print	Yes	
LCD	5.6inch-640×480 Pixels, TFT	
Communication	USB2.0 , LAN	
Power Supply	85-264V AC , 47-63Hz , 600W	
Dimension ( L×W×H )	380×240×260mm	
Weight	8.5kg	

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## ADVANCED THERMAL CYCLER (BASIC) LATB-A SERIES

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.

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### Features

- Advanced peltier based semi conductor technology for thermal uniformity
- High performance universal power supply
- Data protection during power failure
- Stepless adjustable lid for various height
- High sealing reaction zone ensures stable reactions
- High definition 5.7" LCD display for easy observation

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### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LATB-A10	LATB-A11	LATB-A12	LATB-A13
Capacity	96×0.2ml	96×0.2ml+77×0.5ml	54×0.5ml	384well
Block Temperature Range	0-99.9°C			
Temperature Control Accuracy	±0.2°C			
Ramping Rate Adjustable	0.1-2.5°C			
Temperature Uniformity	±0.3°C			
Heating Rate	4°C/s			
Cooling Rate	3°C/s			
Temperature Control Mode	Block\Tube			
Hot-lid Temperature Range	30-110°C			
Hot Lid Height Adjustable	Stepless Adjustable			
Time Increment/Decrement	1sec ~ 9 Min 59sec			
Temperature Increment/Decrement	0.1-9.9°C			
Program	200			
Max No. of Steps	9			
Max No. of Cycles	99			
Pause Function	Yes			
Auto Data Protection	Yes			
Print	Yes			
LCD	5.7inch~320×240 pixels			
Communication	USB2.0 , RS232			
Power Supply	85-264V AC , 47-63Hz , 600W			
Dimension (L×W×H)	380×240×260mm			
Weight	10kg			

## ADVANCED THERMAL CYCLER (GRADIENT) LATG-A SERIES

With advance configuration and high quality these thermal cyclers (basic/gradient) can be used for all sort of PCR based experiments. These products includes 8 pieces custom-built US Marlow peltier, maximum ramping rate of 5°C, cycle run  $\geq 600000$  times, along with latest technology such as Windows OS, PC control function, print function, color touch-screen and large data storage along with USB interface for reliable, safe and high performance.

### Features

- Advanced peltier based semi conductor technology for thermal uniformity
- High performance universal power supply
- Data protection during power failure
- Stepless adjustable lid for various height
- High sealing reaction zone ensures stable reactions
- High definition 5.7" LCD display for easy observation

### Application

Widely used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics and analytical laboratories.



## Specification

Model	LATG-A10	LATG-A11	LATG-A12	LATG-A13
Capacity	96×0.2ml	96×0.2ml+77×0.5ml	54×0.5ml	384well
Block Temperature Range	0-99.9°C			
Temperature Control Accuracy	±0.2°C			
Ramping Rate Adjustable	0.1-2.5°C			
Temperature Uniformity	±0.3°C			
Heating Rate	4°C/s			
Cooling Rate	3°C/s			
Temperature Control Mode	Block\Tube			
Gradient Temperature Range	30-99.9°C			
Gradient Uniformity	±0.3°C			
Gradient Accuracy	±0.2°C			
Gradient Spread	1-30°C			
Hot-lid Temperature Range	30-110°C			
Hot Lid Height Adjustable	Stepless Adjustable			
Time Increment/Decrement	3sec - 9 Min 59sec			
Temperature Increment/Decrement	0.1-9.9°C			
Program	200			
Max No. of Steps	9			
Max No. of Cycles	99			
Pause Function	Yes			
Auto Data Protection	Yes			
Print	Yes			
LCD	5.7inch-320×240 pixels			
Communication	USB2.0 , RS232			
Power Supply	85-264V AC , 50-60Hz , 600W			
Dimension ( L×W×H )	392×262×252mm			
Weight	10kg			



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