GRADIENT PCR THERMAL CYCLER

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GRADIENT PCR THERMAL CYCLER

Engineered by finest quality and leading edge technology according to the advance technology and market norms under the direction of competent experts. Simple, intuitive programming, cost-efficient, fast setup and convenient to use makes it an ideal choice.

Used in Molecular biology, Gene amplification, Gene Expression, Research, Development, Food Science, Pharmaceutical, Life Science, Animal Diagnostics, Analytical Laboratories.

Also known as Laboratory Gradient PCR Thermal Cycler, Gradient PCR Thermocycler, Gradient PCR Machine, Laboratory Gradient PCR Thermocycler.

PCR11-096 GRADIENT THERMAL CYCLER

Convenient and flexible module change
Hermetic seal protects TEs from consendation, maximizing their life
Two-stage hot lid pressure regulator, endures good sealing performance
Gold-plated or silver-plated module improves the efficiency of heat conduction
Large size and color super-high-definition LCD screen
Intuitive and user-friendly interface, makes programming quick and easy
Infinitely adjustable lid knob, suitable for various types of the tube
Memory function in case of power-down
Low noise, low energy consumption, long application life
Heat lid could be positioned at any angle for easy sample access
Metal material lid, more reliable and safe
Hard disk and mouse can be linked
Linked with PC for its multiple control
Windows operating system
Convenient, free-charge program upgraded
Remote diagnosis system for easy maintenance
Achieve Circulation nesting
110-220V international general voltage

SPECIFICATIONS

Model	PCR11-096
Temperature Range	0°C~99.9°C
Max.Heating Ramp Rate	4.0°C/s
Max.Cooling Ramp Rate	3.5°C/s
Block Formats	96x0.2 ml (A) / 54x0.5 ml (B) / 96x0.2 ml+77x05 ml (C) / 384well (D)
Display Interface	5.7′ LCD
Heating/Cooling adjustable rate	0.1°C/s~4.0°C/s
Uniformity	≤±0.2°C(20~75°C)
Accuracy	≤±0.2°C
Gradient Temp Range	30~99°C
Thermal Gradient Span	2~30°C
Gradient Uniformity	≤0.2°C(single row)
Hot Lid Temperature	30~115°C
Max.No.of Cycle	99

Communication	USB2.0 / RS 232
Temp Control Mode	Block, tube
Memory Capacity	200
Dimension (W×D×H)	380x270x250 mm
Weight	7.2 kg

ACCESSORIES

Accessory Code	Name	Description
LS53578	Block C	96×0.2 ml+77×0.5 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Description
LS53542	Block A	96×0.2 ml
LS53554	Block B	54×0.5 ml
LS53566	Block D	384 well

PCR12-096 GRADIENT THERMAL CYCLER

Optimized to very low energy consumption
Low noise, low energy consumption, long application life
Specially designed lids reduce the evaporation during PCR
Hinge utilized in labtop industry makes lode open more flexible
Infinitely adjustable lid knob, suitable for various types of the tube
Versatile configuration options
Gold-plated or silver-plated module improves the efficiency of heat conduction
Portable desgin is easy for sample blocks interchange without maintenance
2000 protocols on board, unlimited with use of USB memeory stick
ARM Platform, Windows CE operating system
Large size and color super-high-definition LCD screen
Intuitive and user-friendly interface, makes programming quick and easy
Make a reservation and alarm for daily lab work
Support the function of TM value calculation
Portability: Transfers method between Genemate systems via USB ports
Backup: Store your most important methods on a USB memory stick
Storage: Store an unlimited number of methods by using a USB memory stick
Uploads: Update firmware when enhancements become available

SPECIFICATIONS

Model	PCR12-096
Temperature Range	0°C~99.9°C
Max.Heating Ramp Rate	4.5°C/s
Max.Cooling Ramp Rate	4°C/s
Block Formats	96x0.2 ml (A) / 54x0.5 ml (B) / 96x0.2 ml+77x05 ml (C) / 384well (D)
Display Interface	5.7′ LCD

Heating/Cooling adjustable rate	0.1°C/s~4.0°C/s
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Gradient Temp Range	30~99°C
Thermal Gradient Span	1~30°C
Gradient Uniformity	≤0.2°C(single row)
Hot Lid Temperature	20~110°C
Max.No.of Cycle	999
Communication	USB2.0 / RS 232 / RJ45
Temp Control Mode	Block, tube*
Memory Capacity	1000**
Note	*10~100μl Optional **Unlimited with use of USB memory stick
Intelligent Diagnosis	108
Dimension (W×D×H)	380x270x250 mm
Weight	7.8 kg

ACCESSORIES

Accessory Code	Name	Description
LS53578	Block C	96×0.2 ml+77×0.5 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Description
LS53542	Block A	96×0.2 ml
LS53554	Block B	54×0.5 ml
LS53566	Block D	384 well

PCR13-096 GRADIENT TOUCH SCREEN THERMAL CYCLER

The most advanced peltier-based semiconductor technology
Highly performance universal power supply
Large 5.7 inch high-definition LCD display
Graphical user interface in English and Chinese
Power-down data protection
Metal shell, solid, practical, beautiful and generous
Stepless adjustable hot lid
Lid can be positioned at any angle
High-sealing reaction zone, to ensure stable and reliable test

SPECIFICATIONS

Model	PCR13-096
Temperature Range	0°C~99.9°C
Max.Heating Ramp Rate	5°C/s

Max.Cooling Ramp Rate	5°C/s
Block Formats	96x0.2 ml (A) / 54x0.5 ml (B) / 96x0.2 ml+77x0.5 ml (C) / 384well (D)
Display Interface	7′ LCD
Heating/Cooling adjustable rate	0.1°C/s~4.0°C/s
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Gradient Temp Range	30~99°C
Thermal Gradient Span	1~30°C
Gradient Uniformity	≤0.2°C(single row)
Hot Lid Temperature	20~110°C
Max.No.of Cycle	999
Communication	USB2.0 / RS 232 / RJ45
Temp Control Mode	Block, tube*
Memory Capacity	2000*
Note	*10~100μl Optional **Unlimited with use of USB memory stick
Intelligent Diagnosis	108
Dimension (W×D×H)	380x270x250 mm
Weight	8.1 kg

PCR14-096 96 WELL GRADIENT THERMAL CYCLER

The most advanced peltier-based semiconductor technology
Highly performance universal power supply
Large 5.7 inch high-definition LCD display
Graphical user interface in English and Chinese
Power-down data protection
Metal shell, solid, practical, beautiful and generous
Stepless adjustable hot lid
Lid can be positioned at any angle
High-sealing reaction zone, to ensure stable and reliable test

SPECIFICATIONS

Model	PCR14-096
Sample Capacity	96×0.2 ml
Temperature Range	0°C~99.9°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~2.5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Thermal Gradient Accuracy	≤±0.3°C

Gradient Spread	1~30°C
Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR14-096C 96 WELL GRADIENT THERMAL CYCLER

Six pieces of long service life Peltier heating units and form 3 circuits to control 3 temperature zones

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 4.5 ?/s, can save your precious time

Stepless adjustable hot lid, fit tubes of different heights to avoid tube melt and evaporation

TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time, allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Min type Bluetooth printer as an option, easily record information

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR14-096C
Sample Capacity	96×0.2 ml+77×0.5 ml
Temperature Range	0°C~99.9°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~2.5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Thermal Gradient Accuracy	≤±0.3°C
Gradient Spread	1~30°C
Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR15-096C1 96 WELL GRADIENT THERMAL CYCLER

8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 5 ?/s, can save your precious time

Two blocks independently controlled and can run 2 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR15-096C1
Sample Capacity	96×0.2 ml
Temperature Range	0°C-100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~4.5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Thermal Gradient Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C

Gradient Spread	1~30°C
Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	8.5 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR16-096 96 WELL GRADIENT THERMAL CYCLER

6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 4.5 ?/s, can save your precious time

3 blocks independently controlled and can run 3 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

Windows interface, 8" (800x600, 16 colors) TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Min type Bluetooth printer as an option, easily record information

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR16-096
Sample Capacity	96×0.2 ml (6 independent 16 well block）
Temperature Range	4°C~100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~6°C
Max Heating Rate	6°C / s
Max Cooling Rate	4°C / s
Display Interface	LCD, 8'，800×600, TFT
Display Resolution	0.1°C
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C
Gradient Spread	Temperature difference of adjacent temperature zone is 0.1-5℃. 6 temperature zones in total
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR15-096C2 96 WELL GRADIENT THERMAL CYCLER

Six pieces of long service life Peltier heating units and can independently control 6 temperature zones

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 6 ?/s, can save your precious time

Stepless adjustable hot lid, fit tubes of different heights to avoid tube melt and evaporation

Windows interface, 8" (800x600, 16 colors) TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time, allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Min type Bluetooth printer as an option, easily record information

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR15-096C2
Sample Capacity	96×0.2 ml, In-situ Plate
Temperature Range	0°C-100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~5°C
Max Heating Rate	5°C / s
Max Cooling Rate	4°C / s
Display Interface	LCD, 8'，800×600
Display Resolution	0.1°C
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Thermal Gradient Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C
Gradient Spread	1~30°C

Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR17-032H1 32X0.2MLX3 GRADIENT THERMAL CYCLER

6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 4.5 ?/s, can save your precious time

3 blocks independently controlled and can run 3 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

Windows interface, 8" (800x600, 16 colors) TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Min type Bluetooth printer as an option, easily record information

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR17-032H1
Sample Capacity	3×(32×0.2 ml)
Temperature Range	0~100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8'，800×600, TFT
Display Resolution	0.1°C
Uniformity	≤±0.4°C
Accuracy	≤±0.3°C
Gradient Temp Range	30°C~100°C
Gradient mode	Can independently set three gradient temperature(in update)
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR17-032H2 32X0.2MLX3 GRADIENT THERMAL CYCLER

The most advanced peltier-based semiconductor technology
Highly performance universal power supply
Large 5.7 inch high-definition LCD display
Graphical user interface in English and Chinese
Power-down data protection
Metal shell, solid, practical, beautiful and generous
Stepless adjustable hot lid
Lid can be positioned at any angle
High-sealing reaction zone, to ensure stable and reliable test

SPECIFICATIONS

Model	PCR17-032H2
Sample Capacity	3×(32×0.2 ml)
Temperature Range	0~100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~5°C
Max Heating Rate	5°C / s
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600, TFT
Display Resolution	0.1°C
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C
Gradient Spread	1~30°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR1A-384 384 WELL GRADIENT THERMAL CYCLER

8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 5 ?/s, can save your precious time

Two blocks independently controlled and can run 2 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR1A-384
Sample Capacity	384 well
Temperature Range	0°C~99.9°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~2.5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Thermal Gradient Accuracy	≤±0.3°C
Gradient Spread	1~30°C

Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR1B-384 384 WELL GRADIENT THERMAL CYCLER

8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

High heating and cooling rate, max. Ramping rate 5 ?/s, can save your precious time

Two blocks independently controlled and can run 2 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

TFT color touch-screen with graphical display provides easy use for setting up and monitoring

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

Automatic restart after power failure. When power is restored it can continue to run unfinished program

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Support email-alert function when experiment is over

SPECIFICATIONS

Model	PCR1B-384
Sample Capacity	384 well, In-situ Plate
Temperature Range	0°C-100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~5°C
Max Heating Rate	5°C / s
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Thermal Gradient Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C
Gradient Spread	1~30°C
Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85～264 V AC , 47～63 Hz

PCR1C-048C1 DOUBLE BLOCK GRADIENT THERMAL CYCLER

It is small-sized and easy to program with an intuitive user interface

The lid adopts the high temperature resistant material and applicable to various types of test tube

Memory function in case of power-down

Two control mode:PCR control through the PC operating software

It is benefit for students to understand with the animation presentation capabilities of the PC operating software

Achieve circulation nesting

SPECIFICATIONS

Model	PCR1C-048C1
Sample Capacity	Double 48×0.2 ml, In-situ Plate
Temperature Range	0°C-100°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4℃	Forever
Max. ramp rate	0.1°C~5°C
Max Heating Rate	5°C / s
Max Cooling Rate	4°C / s
Display Interface	LCD, 8′，800×600
Display Resolution	0.1°C
Uniformity	≤±0.2°C
Accuracy	≤±0.1°C
Thermal Gradient Accuracy	≤±0.2°C
Gradient Temp Range	30°C~100°C
Gradient Spread	1~30°C
Gradient Uniformity	≤±0.2°C
Hot Lid Temperature	30°C~110°C
Height of hot Lid	Stepless Adjustable
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , LAN
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (W×D×H)	270x390x255 mm
Power	600 W
Weight	9 kg

ACCESSORIES

Accessory Code	Name	Description
LS53590	Block A	30×0.2 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Description
LS53602	Block B	9×0.5 ml
LS53614	Block C	16×0.2 ml+9×0.5 ml

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