BioLAB

PRODUCT CATALOG

THERMAL CYCLER

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THERMAL CYCLER BFJ1T1 BFJ1T2

THERMAL CYCLER

ELVE thermal cycler uses long service life peltier. Its Max. ramping rate is 5°C/s and cycle times is more than 1000,00, 000. The product combines a variety of advanced technologies: Android system; color touch screen; gradient function; WIFI module built-in; support cell phone APP control; email notification function; big storage capacity and support USB device.

1. Long service life Peltier heating units.
2. Scalable hot lid fits tubes of different heights.
3. The running program and left time can be displayed in real time, allow to edit file when program is running.
4. Automatic restart after power failure. When power is restored it can continue to run unfinished program.
5. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
6. Email notification after experiment is over
7. Android System,Teaching Version And Vehicle Version Are Available

SPECIFICATIONS

Model	BFJ1T1	BFJ1T2
Capacity	16x0.2ml (4x4 layout)	32x0.2ml (4x8 layout)
Formats	0.2ml single tube	0.2ml single tube, 8 strip
Reaction Volume	5-80μl	
Temperature Range	4-100°C	
MAX. Ramp Rate	5°C/s	
Uniformity	≤±0.2°C	
Accuracy	≤±0.2°C	
Display Resolution	0.1°C	
Temperature Control	Block/Tube	
Ramping Rate Adjustable	0.1-5°C/s	
Hold at 4°C	Forever	
Gradient Temp. Range	/	30-100°C
Gradient Spread	/	0.1-30°C
Hot Lid Temperature	30-110°C	
Number of Programs	10,000+ (USB FLASH)	
Max. No. of Step	30	
Max. No. of Cycle	100	
Time Increment/Decrement	1s-600s, Long PCR is available	
Temp. Increment/Decrement	0.1-10.0°C, Touchdown PCR is available	
Pause Function	Yes	
Auto Data Protection	Yes	
Touchdown Function	Yes	
Long PCR Function	Yes	
Language	English	
Computer Software	Yes	
Mobile phone APP	Yes	
LCD	5 inch, 800x480 Pixels	
Communication	USB 2.0,WIFI	
Dimensions	267mmx190mmx115mm(LxWxH)	
Weight	2.5kg	2.6kg

Power Supply	100-240VAC,50/60Hz,120W	100-240VAC,50/60Hz,200W
Alt Name	Thermal Cycler	

THERMAL CYCLER BFJ1R1 TO BFJ1R4

THERMAL CYCLER

1. Six pieces of long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. Android operating system, capacitive touch screen, high-definition TFT display (8", 800x600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring.
3. The running program and left time can be displayed in real time, allow to edit file when program is running.
4. Hot lid temperature and hot lid work mode can be set to meet different experiments need.
5. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
6. Email notification after experiment is over.

SPECIFICATIONS

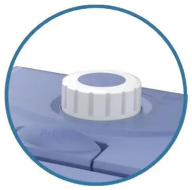
Model	BFJ1R1	BFJ1R2	BFJ1R3	BFJ1R4
Old Model	BTHC-106		BTHC-113	BTHC-115
Capacity	96x0.2ml	96x0.2ml + 77x0.5ml	60x0.5ml	384 well
Formats	0.1/0.2ml tube, 8 strips, 12 strips, Half skirt 96 wells plate, No skirt 96 wells plate	0.1/0.2/0.5ml, 8 strips, 12 strips, Half skirt 96 wells plate, No skirt 96 wells plate	0.5ml tube	384 well plate
Reaction Volume	5-120μl	5-80μl, 5-120μl	5-200μl	5-30μl
Temperature Range	0-105°C			
MAX. Ramp Rate	4.5°C/s			
Uniformity	≤±0.2°C			
Accuracy	≤±0.1°C			
Display Resolution	0.1°C			
Temperature Control	Block/Tube			
Ramping Rate Adjustable	0.01-4.5°C/s			
Hold at 4°C	Forever			
Gradient Uniformity	≤±0.2°C			
Gradient Accuracy	≤±0.2°C			
Gradient Temp. Range	30-105°C			
Gradient Spread	0.1-30°C			
Hot Lid Temperature	30-115°C			
Hot Lid Height Adjustable	Stepless Adjustable			
Number of Programs	200,000+ (USB FLASH)			
Max. No. of Step	30 (Multiple nested PCR experiments)			
Max. No. of Cycle	200 (Up to 100,000 in nested cycles)			
Time Increment/Decrement	1s-600s, Long PCR is available			
Temp. Increment/Decrement	0.1-10.0°C, Touchdown PCR is available			
Pause Function	Yes			

Auto Data Protection	Yes
GLP Report	Record the running information of each step of the program to provide accurate data support for the analysis of experimental results
File Encryption Function	Individual program files can be encrypted
User Management Privilege	Three levels of access (administrator, user, guest)
Email Notification	Email notification after experiment is over
Lock Screen Function	Prevents accidental termination of the program being experimented on
PC-LINK Function	Simultaneous on-line monitoring of more than 250 instruments
Mobile Phone APP	Simultaneous on-line monitoring of more than 250 instruments
Communication	USB 2.0,LAN,WIFI
Dimensions	390mmx270mmx255mm(LxWxH)
Weight	9kg
Alt Name	Thermal Cycler

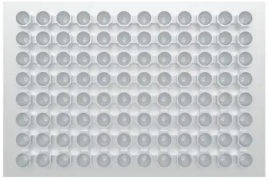
FEATURES

1. Six pieces of long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. Android operating system, capacitive touch screen, high-definition TFT display (8", 800x600 pixels, 16 colors) with graphical interface provides easy use for setting up and monitoring.
3. The running program and left time can be displayed in real time, allow to edit file when program is running.
4. Hot lid temperature and hot lid work mode can be set to meet different experiments need.
5. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
6. Email notification after experiment is over.
7. Intelligent Economic
8. Convenient

Features



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



Block

THERMAL CYCLER BFJ1Q1 BFJ1Q2 BFJ1Q3

THERMAL CYCLER

1. 8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function.
2. GLP report records every step to provide accurate data support for experiment result analysis.
3. Multiple blocks can be replaced. When dual block are selected, it can run 2 different PCR programs simultaneously.
4. The running program and left time can be displayed in real time, allow to edit file when program is running.
5. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
6. Email notification after experiment is over.
7. Powerful

SPECIFICATIONS

Model	BFJ1Q1	BFJ1Q2	BFJ1Q3
Old Model	BTHC-108	BTHC-117	
Capacity	96x0.2ml	Double 48x0.2ml	48x0.2ml + 30x0.5ml
Formats	0.1/0.2ml tube, 8 strips, 12 strips, Half skirt 96 wells plate, No skirt 96 wells plate	0.1/0.2ml tube, 8 strips	0.1/0.2ml tube, 8 strips, 0.5ml tube
Reaction Volume	5-120μl		Left block: 5-120μl, Right block: 5-200μl
Temperature Range	0-105°C		
MAX. Ramp Rate	5°C/s		
Uniformity	≤±0.2°C		
Accuracy	≤±0.1°C		
Display Resolution	0.1°C		
Temperature Control	Block/Tube		
Ramping Rate Adjustable	0.01-5°C/s		
Hold at 4°C	Forever		
Gradient Uniformity	≤±0.2°C		
Gradient Accuracy	≤±0.2°C		
Gradient Temp. Range	30-105°C		
Gradient Spread	0.1-30°C		Left block: 0.1-30°C, Right block: 0.1-30°C
Hot Lid Temperature	30-115°C		
Hot Lid Height Adjustable	Stepless Adjustable		
Number of Programs	200,000+ (USB FLASH)		
Max. No. of Step	30 (Multiple nested PCR experiments)		
Max. No. of Cycle	200 (Up to 100,000 in nested cycles)		
Time Increment/Decrement	1s-600s, Long PCR is available		
Temp. Increment/Decrement	0.1-10.0°C, Touchdown PCR is available		
Pause Function	Yes		
Auto Data Protection	Yes		
GLP Report	Record the running information of each step of the program to provide accurate data support for the analysis of experimental results		

File Encryption Function	Individual program files can be encrypted
User Management Privilege	Three levels of access (administrator, user, guest)
Email Notification	Email notification after experiment is over
Lock Screen Function	Prevents accidental termination of the program being experimented on
PC-LINK Function	Simultaneous on-line monitoring of more than 250 instruments
Mobile Phone APP	Simultaneous on-line monitoring of more than 250 instruments
Communication	USB 2.0,LAN,WIFI
Dimensions	390mmx270mmx255mm(LxWxH)
Weight	9kg
Alt Name	Thermal Cycler

FEATURES

1. 8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function.
2. GLP report records every step to provide accurate data support for experiment result analysis.
3. Multiple blocks can be replaced. When dual block are selected, it can run 2 different PCR programs simultaneously.
4. The running program and left time can be displayed in real time, allow to edit file when program is running.
5. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
6. Email notification after experiment is over.
7. Powerful
8. Up To 18 Blocks Can Be Chosen

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

Large data storage capacity, up to 200, 000 files can be stored

THERMAL CYCLER BFN1E1 BFN1E2

THERMAL CYCLER

Program storage and processing:
Built-in program storage capacity: 2000
Support external USB flash drive, mouse, printer, etc
Equipped with USB2.0, RS232, RJ45 communication Interfaces
Touch screen operating system:
7" color LCD and touch screen, make the operation faster and more convenient
Embedded android system, the operation is more familiar and convenient.
Remote control and remote diagnosis function
Experiment appointment and timed reminder function
Automatic TM calculation
"Handle-type" sample holder:

SPECIFICATIONS

Model	BFN1E1	BFN1E2
Old Model	BTHC-103	
Sample holder specifications	96x(0.2ml)(A);54x0.5ml(B);96x0.2ml+77x0.5ml(C);384 well(D)	96x(0.2ml)+77x0.5ml(C);384 well(D)
Sample holder replacement	Support	
Temperature control method	Imported high-performance thermoelectric refrigeration	
Temperature range	0-99.9℃	
Maximum heating rate	≥5℃/s	
Maximum cooling rate	≥5℃/s	
Temperature accuracy	≤±0.1℃	
Gradient temperature range	30-99℃	
Gradient temperature width	1-30℃	
Heat lid temperature	20-110℃	
Temperature control mode	Block, Tube	
Power failure protection	Support	
Temperature increasing/decreasing	Support	
Time increasing/decreasing	Support	
Gradient	Support	
Program storage	2000 (USB driver expandable)	200
Nested loops	Support	
Communication interface	USB2.0, RS232, RJ45	USB2.0, RS232
Dimensions (LxWxH mm)	380x270x250	
Net weight (kg)	8.1	7.2
Alt Name	Thermal Cycler	

FEATURES

Program storage and processing:
Built-in program storage capacity: 2000
Support external USB flash drive, mouse, printer, etc
Equipped with USB2.0, RS232, RJ45 communication
Interfaces

Touch screen operating system:
7" color LCD and touch screen, make the operation faster and more convenient
Embedded android system, the operation is more familiar and convenient.
Remote control and remote diagnosis function
Experiment appointment and timed reminder function
Automatic TM calculation

"Handle-type" sample holder:
Diverse sample holder options and strong versatility
Optional gold/silver-plated sample holders, for higher heat conduction efficiency and more efficient experiments
Handle-module design, replace sample holders easier and quicker. Convenient maintenance and low cost.

Design of heat lid:
Stepless adjustable heat lid design ensures full contact between the heat lid and various test tubes with appropriate pressure
Position the heat lid at any angle

THERMAL CYCLER BFJ1S1

IN-SITU THERMAL CYCLER

1. Six pieces of long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resist.
3. The running program and left time can be displayed in real time, allow to edit file when program is running.
4. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
5. GLP report records every step to provide accurate data support for experiment result analysis.
6. Email notification after experiment is over.
Setting Interface

SPECIFICATIONS

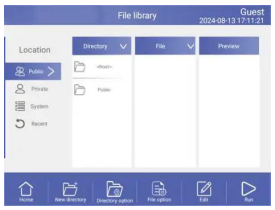
Model	BFJ1S1
Capacity	120x80mm
Temperature Range	0-105℃
MAX. Ramp Rate	4℃/s
Uniformity	≤±0.2℃
Accuracy	≤±0.1℃
Display Resolution	0.1℃
Temperature Control	Block/Tube
Ramping Rate Adjustable	0.01-4℃/s
Hold at 4℃	Forever
Hot Lid Temperature	30-115℃
Hot Lid Height Adjustable	Stepless Adjustable

Number of Programs	200,000+ (USB FLASH)
Max. No. of Step	30 (Multiple nested PCR experiments)
Max. No. of Cycle	200 (Up to 100,000 in nested cycles)
Time Increment/Decrement	1s-600s, Long PCR is available
Temp. Increment/Decrement	0.1-10.0℃, Touchdown PCR is available
Pause Function	Yes
Auto Data Protection	Yes
Language	English
GLP Report	Record the running information of each step of the program to provide accurate data support for the analysis of experimental results
File Encryption Function	Individual program files can be encrypted
User Management Privilege	Three levels of access (administrator, user, guest)
Email Notification	Email notification after experiment is over
Lock Screen Function	Prevents accidental termination of the program being experimented on
PC-LINK Function	Simultaneous on-line monitoring of more than 250 instruments
Mobile Phone APP	Simultaneous on-line monitoring of more than 250 instruments
LCD	8 inch, 800x600 Pixels
Communication	USB 2.0,LAN,WIFI
Dimensions	390mmx270mmx255mm(LxWxH)
Weight	9kg
Power Supply	100-240VAC,50/60Hz,600W
Alt Name	IN-SITU Thermal Cycler

FEATURES

1. Six pieces of long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resist.
3. The running program and left time can be displayed in real time, allow to edit file when program is running.
4. Built-in WIFI module, one machine can control multiple PCR machines at the same time through mobile APP or PC software.
5. GLP report records every step to provide accurate data support for experiment result analysis.
6. Email notification after experiment is over.

Setting Interface



File Interface

Incubation interface

APPLICATIONS

1. Used For In Situ Hybridization or Gene Chip Experiments
2. Accept Customization of different Chip Specifications

THERMAL CYCLER BFJ1V1

THERMAL CYCLER

Thermal cycler uses customized Marlow (US) peltier. Its max. ramping rate is 6°C/s and cycle times is more than 1,000,000. The product combines a variety of advanced technologies: WINCE system; color touch screen; 6 independently controlled temperature zones; PC on-line function; printing function; big storage capacity and support USB device. All above functions allow PCR's excellent performance and meet higher experiment's need.

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°C/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 templates, can quickly edit the required files.

SPECIFICATIONS

Model	BFJ1V1
Old Model	BTHC-107
Capacity	96x0.2ml (6 independent 16 well block)
Temperature Range	4-100°C
MAX.Heating Rate	6°C/s
MAX.Cooling Rate	4°C/s
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Display Resolution	0.1°C
Temperature Control	Block\Tube
Ramping Rate Adjustable	0.1-6°C
Gradient Temp. Range	30-100°C
Gradient Spread	Temperature difference of adjacent temperature zone is 0.1-5°C. 6 temperature zones in total
Hot Lid Temperature	30-110°C
Hot Lid Height Adjustable	Stepless Adjustable
Number of Programs	10000+ (USBFLASH)
Max. No. Step of	30

Max. No. of Cycle	100
Time Increment/Decrement	1 Sec-600 Sec
Temp. Increment/Decrement	0.1-10.0°C
Pause Function	Yes
Auto Data Protection	Yes
Hold at 4°C	Forever
Touchdown Function	Yes
LongPCR Function	Yes
Language	English
LAN to computer	Yes
LCD	8 inch. 800x600 pels
Communication	USB2.0, LAN
Dimensions	390mmx270mmx255mm (LxWxH)
Weight	9kg
Power Supply	85-264VAC, 47-63Hz, 600W
Alt Name	Thermal cycler

FEATURES

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°C/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 templates, 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.
Mini type Bluetooth printer as an option, easily record information.
Support email-alert function when experiment is over.

THERMAL CYCLER BFJ1P1 BFJ1P2

TRIPLE BLOCK THERMAL CYCLER

1. 6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. High heating and cooling rate, max. ramping rate 5°C/s, can save your precious time.
3. 3 blocks independently controlled and can run 3 different PCR gradient programs simultaneously.
4. Automatic restart after power failure. When power is restored it can continue to run unfinished program.
5. WIFI module built-in, one unit can control multiple PCR machine through computer or cell phone with internet connection.
6. Email notification after experiment is over.
7. Triple Block

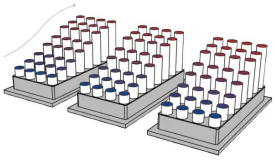
SPECIFICATIONS

Model	BFJ1P1	BFJ1P2
Old Model	BTHC-109	BTHC-110
Capacity	3x(32x0.2ml)	
Formats	0.1/0.2ml, 8 strips	
Reaction Volume	5-120μl	
Temperature Range	0-105°C	
MAX. Ramp Rate	5°C/s	
Uniformity	≤±0.2°C	
Accuracy	≤±0.1°C	
Display Resolution	0.1°C	
Temperature Control	Block/Tube	
Ramping Rate Adjustable	0.01-5°C/s	
Hold at 4°C	Forever	
Gradient Temp. Range	/	30-105°C
Gradient Spread	/	0.1-30°C
Hot Lid Temperature	30-115°C	
Hot Lid Height Adjustable	Stepless Adjustable	
Number of Programs	200,000+ (USB FLASH)	
Max. No. of Step	30 (Multiple nested PCR experiments)	
Max. No. of Cycle	200 (Up to 100,000 in nested cycles)	
Time Increment/Decrement	1s-600s, Long PCR is available	
Temp. Increment/Decrement	0.1-10.0°C, Touchdown PCR is available	
Pause Function	Yes	
Auto Data Protection	Yes	
GLP Report	Record the running information of each step of the program to provide accurate data support for the analysis of experimental results	
File Encryption Function	Individual program files can be encrypted	
User Management Privilege	Three levels of access (administrator, user, guest)	
Email Notification	Email notification after experiment is over	
Lock Screen Function	Prevents accidental termination of the program being experimented on	

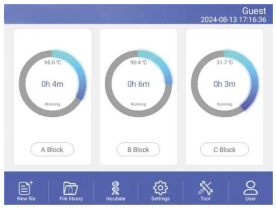
PC-LINK Function	Simultaneous on-line monitoring of more than 250 instruments	
Mobile Phone APP	Simultaneous on-line monitoring of more than 250 instruments	
LCD	8 inch, 800x600 Pixels	
Communication	USB 2.0,LAN,WIFI	
Dimensions	390mmx270mmx255mm(LxWxH)	
Weight	9kg	
Power Supply	100-240VAC,50/60Hz,600W	
Alt Name	Triple Block Thermal Cycler (General)	Triple Block Thermal Cycler (Gradient)

FEATURES

1. 6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones.
2. High heating and cooling rate, max. ramping rate 5°C/s, can save your precious time.
3. 3 blocks independently controlled and can run 3 different PCR gradient programs simultaneously.
4. Automatic restart after power failure. When power is restored it can continue to run unfinished program.
5. WIFI module built-in, one unit can control multiple PCR machine through computer or cell phone with internet connection.
6. Email notification after experiment is over.
7. Triple Block
8. Independent Control



Triple block gradient



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

THERMAL CYCLER BFJ1U1

THERMAL CYCLER

1. Adopt imported customized long-life Peltier heating units, and cycle time is more than 1,000,000.
2. High heating and cooling rate, max ramping rate is 5°C/s, can save your precious time.
3. Electric Self-adapting hot lid can fit full 96 wells plate and half skirt 96 wells plate.
4. Small size, can be equipped with desktop pipetting station.
5. Automatic power-off protection, after the power supply is restored, the unfinished cycle is automatically executed to ensure the safe operation of the entire amplification process.
6. Support opening hot lid and adding samples during the experiment to meet various experimental needs.

SPECIFICATIONS

Model	BFJ1U1
Capacity	96x0.1/0.2ml
Formats	Full 96 wells plate
Reaction Volume	10-80μl
Temp. Range	0-100°C
Max. Ramp Rate	5°C/s
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Display Resolution	0.1°C
Temp. Control	Block/Tube
Ramping Rate Adjustable	0.1-5°C/s
Hold at 4°C	Forever
Gradient Temp. Range	30-100°C
Gradient Spread	0.1-30°C
Hot Lid Temp.	30-110°C
Hot Lid Height Adjustable	Electric hot lid
Max. No. of Step	30
Max. No. of Cycle	100
Time Increment/Decrement	1s-600s
Temp. Increment/Decrement	0.1-10.0°C, Touchdown PCR is available
Pause Function	Yes
Auto Data Protection	Yes
Communication	USB 2.0, RS232/RS485
Dimensions	305mmx155mmx203mm (LxWxH)
Weight	15kg
Power Supply	100-240VAC,50/60Hz,600W
Alt Name	Thermal Cycler

FEATURES

1. Adopt imported customized long-life Peltier heating units, and cycle time is more than 1,000,000.
2. High heating and cooling rate, max ramping rate is 5°C/s, can save your precious time.
3. Electric Self-adapting hot lid can fit full 96 wells plate and half skirt 96 wells plate.
4. Small size, can be equipped with desktop pipetting station.
5. Automatic power-off protection, after the power supply is restored, the unfinished cycle is automatically executed to ensure the safe operation of the entire amplification process.
6. Support opening hot lid and adding samples during the experiment to meet various experimental needs.
7. Accept Personalized Customization
8. Can Be Equipped With Desktop Pipetting Station

THERMAL CYCLER BFN1D1 BFN1D2

THERMAL CYCLER

10.1" color TFT capacitive touch screen, beautiful interface and smooth operation
Direct-acting pull-type electromagnet control, open the lid with one click
Reserved mechanical lid opening function, open the heat lid safely in case of an accident
Run 3 PCR tests independently at the same time, avoid waiting for a long time
Set variable temperature rates for each section, to meet demanding experimental requirements
8G internal storage, equipped USB interface for storage extension and data import or export
Replace the sample holders easily and quickly without tools, convenient maintenance

SPECIFICATIONS

Model	BFN1D1	BFN1D2
Type	Standard edition	Performance edition
Sample holder replacement	Support	
Independent operation of sample holders	Support	
Electromagnetic control lock	Support	
Sample holder specifications	32 wells*0.2ml*3	
Screen	10.1" color touch screen	
Maximum heating rate	≥8 °C/s	
Maximum cooling rate	≥5 °C/s	
Average heating rate	≥3.2 °C/s (55 °C - 95 °C)	≥3.5 °C/s (55 °C - 95 °C)
Average cooling rate	≥2.0 °C/s (95 °C - 55 °C)	≥2.3 °C/s (95 °C - 55 °C)
Temperature uniformity	±0.15 °C (95 °C constant for 10s)	
Temperature accuracy	≤0.1 °C	
Temperature increasing/decreasing	0.1 - 10.0 °C	
Time increasing/decreasing	Standard	
Single module gradient function	Support	
Power failure protection	Support	
Storage capacity	8G (USB expandable)	
Maximum number of cycles	999	
Communication interface	USB 2.0, LAN	

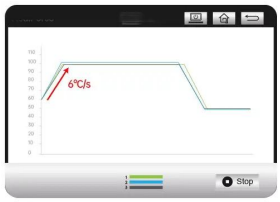
Operating system	Android	
Dimension (L*W*H mm)	502*394*293	
Net weight (kg)	16	18
Alt Name	Thermal Cycler	

FEATURES

10.1" color TFT capacitive touch screen, beautiful interface and smooth operation

Direct-acting pull-type electromagnet control, open the lid with one click
Reserved mechanical lid opening function, open the heat lid safely in case of an accident

Run 3 PCR tests independently at the same time, avoid waiting for a long time
Set variable temperature rates for each section, to meet demanding experimental requirements



8G internal storage, equipped USB interface for storage extension and data import or export
Replace the sample holders easily and quickly without tools, convenient maintenance

THERMAL CYCLER BFN1J1

THERMAL CYCLER

Replace the sample holders easily and quickly without tools, convenient maintenance
Set variable temperature rates for each section, to meet demanding experimental requirements.
Electromagnet attraction solution, say goodbye to traditional mechanical locks.
Run 2 PCR tests independently, each sample holder is an independent device.
Up to 8°C/s heating rate, compresses experimental time and reduces non-specific amplifications.
Android system, equipped with 12.1" color edge-to-edge touch screen. Beautiful interface and smooth operation.
Intelligent heat lid with finger-pinch protection, open or close the lid automatically with one click.

SPECIFICATIONS

Model	BFN1J1
Sample holder specifications	0.2ml*48*2 / 0.1ml 48*2
Temperature control range	0-100°C
Screen	12.1" full touch screen
Electric intelligent heat lid (Electric opening and closing heat lid)	Support
Anti-pinch hand function	Support
Heat lid pressure detection	Support
Voice wake switch hot cover	Support
Temperature control method	Imported high-performance thermoelectric refrigeration
Maximum heating rate	≥8.0°C/s
Maximum cooling rate	≥5.0°C/s
Average heating rate	≥3.0°C/s (55°C - 95°C)
Average cooling rate	≥3.0°C/s (95°C - 55°C)
Temperature uniformity	±0.15°C (95°C constant for 10s)
Temperature accuracy	≤0.1°C
Temperature increasing	Support
Time increasing/decreasing	Support
Temperature rise adjustable range	0.1-10°C
Gradient temperature width	30-40°C
Sample holder replacement	Support
Independent operation of sample holder	Support
Modify experimental parameters during operation	Support
Power failure recovery	Support
One-click to start common programs	Support
Nested loops	Support
Communication interface	USB
Operating system	Android
Dimension (L*W*H mm)	510 * 386 * 304
Alt Name	Thermal Cycler

FEATURES

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