

THERMAL CYCLERS & REAL-TIME PCR SYSTEM



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Iris Thermal cycler is a laboratory instrument used in PCR as well as gene cloning application, processing DNA for sequencing, detecting the presence or absence of a gene to help identify pathogens during infection, and generating forensic DNA profiles from tiny samples of DNA. Offers a choice of an advanced thermal cycler, touch thermal cycler, real-time PCR thermal cycler to encounter different kinds of PCR methods.

Available in gradient and in- gradient option. Designed with holes that holding the PCR tubes with the reaction mixture. Ability to increases and decrease the temperature of the block in separate, pre-programmed stages. Developed to meet the highest standards in reliability, precision and block uniformity in the long term. The use of these instruments guarantees accurate and consistent results. All instruments come with a 7-inch color touch screen and an easy-to-use software interface. Its features include the combination of ultra-fast heating and cooling rates, the wide range of exchangeable block modules and the professional user management system.

1. Q Series Thermal Cyclers
2. Gradient Thermal Cyclers
3. Muti-Block Thermal Cyclers
4. Advanced Thermal Cyclers

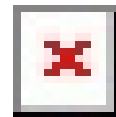
Q Series Thermal Cyclers

Q Series Laboratory Thermal Cycler is furnished with an integral 8-inch color touch screen, which continually monitor and controls every aspect of the performance of the machine. It utilizes 6 Peltier's and 3 temperature zones for precise sample control using drive technology and active control algorithms which ensure temperatures are perfectly executed in every sample.



qLab Thermal Cyclers ITCL-1000 Series

qLab Thermal Cyclers ITCL-1000 Series designed with a 96-well block, with the availability of a gradient function. The most popular block dual 96/96 well block is capable of holding up to 96×0.2 ml tubes on either side along with 77×0.5 ml, 60×0.5 ml and 384 well, with each side acting as its own independent thermal cycler, with a programmable thermal gradient for optimizing annealing or denaturing temperatures. The combination of excellent technical data and an attractive price makes it the right choice for many research and routine laboratories.



qLab Thermal Cyclers ITCL-1000 accommodates 96×0.2 ml, 96×0.2 ml+77×0.5 ml, 60×0.5 ml, and 384 well and this block are completely independently of each other and without interference. Fabricated with anodizing technology that has prompt heating conducting and adequate corrosion resistance property.

- Quicker ramp rates allow more work to be done in a workday
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- Peltier heating units with 6 long service life and form 3 circuits to control 3 temperature zones
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time
- Support USB device with enormous storage capability, 10000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Operating windows comes with 8" (800×600, 16 colors) TFT vibrant touch graphical display
- Accurate data support and result from analysis record in GLP
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Assure password and data security along with user login management and three-tier permission
- Connect numerous sets of PCR by single PC controlled
- Email-alert function at the end of the experiment
- To avoid vaporization and melting tubes are fits at different height by a step-less adjustable hot lid with pressure-protection
- Bluetooth printer (option)

qGene Thermal Cyclers ITCL-2000 Series

qGene Thermal Cyclers ITCL-2000 Series has been used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics, and analytical laboratories. Features with Marlow Peltier heating units with Operating windows come with 5 inch LCD 800×480 pixels, 65K vibrant touch display with quicker ramp rates allow more work to be done in a workday.



Iris qGene Thermal Cyclers ITCL-2040 has features with Marlow Peltier heating units with a touch LCD display and 0.2 ml single tube along with holding capacity up to 16×0.2 ml(4×4 layout) and maximum ramping rate 5°C/s and power consumption 120 W. Support USB device with enormous storage capacity. Fabricated with anodizing technology that has prompt heating conducting and adequate corrosion resistance property and the scalable hot lid fits tubes of different altitudes.

Iris qGene Thermal Cyclers ITCL-2080 has features with Marlow Peltier heating units with a touch LCD display and 0.2 ml single tube, 8 strips along with holding capacity up to 32×0.2 ml(4×8 layout) and maximum ramping rate 5°C/s and power consumption 200 W. Support USB device with enormous storage capacity. Fabricated with anodizing technology that has prompt heating conducting and adequate corrosion resistance property and the scalable hot lid fits tubes of different altitudes.

- Manufactured with Marlow Peltier heating units and maximum ramping rate up to 5°C/s
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- The scalable hot lid fits tubes of different altitudes
- Support USB device with enormous storage capability, 10000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Accurate data support and result from analysis record in GLP
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Bluetooth printer (option)
- Assure password and data security along with user login management and three-tier permission
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time.
- Connect numerous sets of PCR by single PC controlled
- Email-alert function at the end of the experiment
- To avoid vaporization and melting tubes are fits at different height by a step-less adjustable hot lid with pressure-protection
- Support English language
- Fully adjustable heated lid

Gradient Thermal Cyclers

Gradient Thermal Cycler offer 3 important dynamics to reflect when choosing a laboratory instrument are accuracy, consistency, and reproducibility. Accuracy for accurate results, consistency for trusting your product can perform as needed, and reproducibility to assure experiments are handled in a suitable conditions. Supply high performance and maximum flexibility with an ability to promote a base model to gradient capability with available with a different choice of thermal cycler blocks: 96×0.2 ml, 96×0.2 ml + 77×0.5 ml, 54×0.5 ml, and 384 well.



Gradient Thermal Cyclers ITCG-1000 Series

Gradient Thermal Cyclers ITCG-1000 offers superior performance and a large color touch screen for easy programming. This fully modular platform is able to accommodate different throughput needs with easily interchangeable reaction modules that swap in seconds without tools. Each PCR module has a fully adjustable heated lid that supports a wide range of vessels and sealers, including low-profile and standard-height PCR plates.

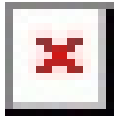


Gradient Thermal Cyclers ITCG-1000 accommodates 96×0.2 ml, 96×0.2 ml+77×0.5 ml, 54×0.5 ml, 384 well, and this block are completely independently of each other and without interference. Standard Marlow Peltier along with graphical LCD display and responsive color touch screen shortens device processes with an easy to read interface and maximum ramping rate 0.1 to 4.5°C. Semiconductor based technology using advanced Peltier heating units with 6 long service life.

- Quicker ramp rates allow more work to be done in a workday
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- Large LCD graphical display along with GUI
- Data protection
- Fabricated with the metal shell
- Movable lid with a different angle
- Assurance of stability and reliability of test perform under high sealing reaction zone
- The hot lid is step-less adjustable
- Fully adjustable heated lid

Gradient Thermal Cyclers ITCG-2000 Series

Gradient Thermal Cyclers ITCG-2000 has been used in Clinical detection in hospital, professional, expert. Accommodates 2 different wells including 96×0.2 ml, adaptive to 8-well strip PCR tubes and 96-well plates and this block is completely independently of each other and without interference. Fabricated for easy-to-use, compressed, and accurate thermal cycler to fit every necessary PCR workflow.



- Operating windows comes with 8 inches TFT vibrant touch graphical display and WinCE
- Compatible with mouse connection with smart touch control as well as access to LAN
- Quicker ramp rates allow more work to be done on a workday
- Simple to program unit is compact in design and built to perform
- Bluetooth printer for easy operation
- Meet the need for another testing hot lid temperature and hot lid work mode available
- 4 Temperature Control modules
- Great reproducibility of PCR reaction
- Achieve traceability of experimental result
- Portable and User-friendly
- Faster speeds
- No condensation after overnight cooling at $\geq 4^{\circ}\text{C}$

Gradient Thermal Cyclers ITCG-3000 Series

Gradient Thermal Cyclers ITCG-3000 has been used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics, and analytical laboratories. Features with Peltier heating units, control 6 temperature zones with vibrant touch LCD display along with holding capacity up to 96×0.2ml (6 independent 16 well blocks) and maximum ramping rate 6°C/s and advanced technologies with WINCE system.



- Peltier heating units with 6 long service life, control 6 temperature zones
- Quicker ramp rates allow more work to be done on a workday
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Advanced technologies with WINCE system
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time
- Support USB device with enormous storage capability, 10000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Operating windows comes with 8"(800×600, 16 colors) TFT vibrant touch graphical display
- Portable and User-friendly
- Accurate data support and result from analysis record in GLP
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Bluetooth printer (option)
- Assure password and data security along with user login management and three-tier permission
- Connect numerous sets of PCR by single PC controlled

Muti-Block Thermal Cyclers

Muti-Block Thermal Cyclers are used for PCR and other important applications controlled by Marlow Peltier elements to maximize tests, and running multiple reaction conditions for accurate incubations and other useful works. Provide high-throughput, multi-user abilities and interchangeable blocks facilities with an intuitive touch display for easy programming and functioning. Its working technology allows for 2 to 3 independent protocols to be run simultaneously without sacrificing sample throughput.



Dual Block Thermal Cyclers ITCM-4000D Series

Dual Block Thermal Cyclers ITCM-4000D series has been used in PCR applications in research and development, food science, pharmaceuticals, life science, animal diagnostics, and analytical laboratories. Features with customized Marlow Peltier heating units and form 4 circuits to control 4 temperature zones with vibrant touch LCD display and maximum ramping rate 5 °C/s.

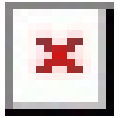


Dual Block Thermal Cyclers ITCM-4000D accommodates 96×0.2 ml, 60×0.5 ml, Double 48×0.2 ml, 48×0.2 ml + 30×0.5 ml along with 384 well and In-situ plate, this block is completely independently of each other and without interference. Fabricated with anodizing technology that have prompt heating conducting and adequate corrosion resistance property.

- Quicker ramp rates allow more work to be done on a workday
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- Time-saving with great heating and cooling rate along with maximum ramping rate up to 5°C/s
- Peltier heating units with 8 long service life and form 4 circuits to control 4 temperature zones
- Capabilities to run 2 different PCR program in 2 independent blocks controlled simultaneously
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time
- Support USB device with enormous storage capability, 10000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Operating windows comes with 8" (800×600, 16 colours) TFT vibrant touch graphical display
- Accurate data support and result from analysis record in GLP
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Assure password and data security along with user login management and three-tier permission
- Connect numerous sets of PCR by single PC controlled
- Email-alert function at the end of the experiment
- To avoid vaporization and melting tubes are fits at different height by a step-less adjustable hot lid with pressure-protection

Trio Block Thermal Cyclers ITCM-4000T Series

Trio Block Thermal Cyclers ITCM-4000T equipped with three independent blocks in one instrument. Both multiuser environments, as well as users with lower sample numbers but different samples, will enjoy this model. The three-block design and the specific Temperature Optimisation Step function support the fast optimization of ideal annealing temperatures with Fast Ramping and Best Accuracy, high-performance sample blocks.



- Capabilities to run 3 different PCR program in 3 independent blocks controlled simultaneously
- Quicker ramp rates allow more work to be done in a workday
- Simple to program unit is compact in design and built to perform
- Programming is in-built with large display and multiple pre-programmed templates supplied with the unit
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time
- Support USB device with enormous storage capability, 10000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Portable and User-friendly
- Accurate data support and result from analysis record in GLP
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Bluetooth printer (option)
- Assure password and data security along with user login management and three-tier permission
- Connect numerous sets of PCR by single PC controlled
- Email-alert function at the end of the experiment
- To avoid vaporization and melting tubes are fits at different height by a step-less adjustable hot lid with pressure-protection
- Fully adjustable heated lid

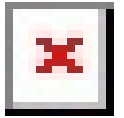
Advanced Thermal Cyclers

Advanced Thermal Cyclers are used for nucleic acid amplification and ELISA assay through PCR and controlled by Peltier elements for longer durability, and control temperature zones. Offer temperature uniformity over the entire block and reproducible outcomes regardless of the position of the inserted samples with an intuitive touch display for easy programming and functioning and provide maximum flexibility with an ability to promote gradient system including nonlinear gradient, dynamics gradient, and 2D gradient.



Advanced Thermal Cyclers ITCP-5000 Series

The Iris Advanced Thermal Cyclers ITCP-5000 is designed with 3 different gradient system including nonlinear gradient, dynamics gradient, and 2D gradient. Suitable for the denaturation, enzymes cutting, enzymes link and ELISA assay applications. Offer high heating and cooling rate with the Peltier design unit. Equipped with 11 standard programs for fast editing in particular programs.



Suitable for the denaturation, enzymes cutting, enzymes link and ELISA assay applications. Offer high heating and cooling rate with a ramping rate up to 7°C/sec. Equipped with 11 standard programs for fast editing in particular programs. Features with Peltier design, large LCD touch display, reaction blocks, air ventilation, hot lid plate, cooling fins and handle. Accommodates 4 different wells including 96×0.2 ml, 6×16×0.2 ml, and 96×0.2 ml well plates with the availability of tubes: 0.2 ml tube, 8 strips, 96 wells plate and this block are completely independently of each other and without interference. Available in 3 different gradient types: Nonlinear Gradient, Dynamics Gradient, and 2D Gradient.

- Peltier heating units with long service life, and control temperature zones
- Suitable for long term use for PCR
- Temperature Range: 4 to 105°C
- Available in 3 different gradient type: Nonlinear Gradient, Dynamics Gradient, and 2D Gradient
- Quicker ramp rates allow more work to be done on a workday
- Simple to program unit is compact in design and built to perform
- Equipped with Built-in 11 standard program file template for rapidly and accurate necessary files
- Throughout the program, it allows to edit files and showed the remaining time and running program in real-time
- Support USB device with enormous storage capability, 20000 typical PCR files in free configurable folders and LAN for software updating also compatible with devices like mouse and keyboard
- Meet the requirement of denaturation, enzyme cutting/enzyme link, and ELISA
- Operating windows comes with 10.1-inch LCD touch display
- Portable and User-friendly
- Automatic restart mode and run the unfinished program after power failure
- Meet the need for another testing hot lid temperature and hot lid work mode available
- Available with 9 shortcut key in main unit
- Support USB2.0 and WIFI
- Assure password and data security along with user login management and three-tier permission
- Connect numerous sets of PCR by single PC controlled

Advanced Thermal Cyclers ITCP-6000 Series

Advanced Thermal Cyclers ITCP-6000 has been used in rapid outdoor detection, all kinds of isothermal amplification of DNA/RNA. Mainly used in Gene amplification with the highest flexibility. Designed with 8×0.2 ml (20 to 100 µl) capacity along with 523 nm (FAM) 584 nm(VIC/HEX) detection wavelength and 470 nm (FAM) 525 nm(VIC/HEX) excitation wavelength. Rapidly set up runs and monitor amplification. Deliver the most sensitive, reliable detection for nucleic acid application.



- Achieve accurate results
- On board chargers for rapid outdoor detection
- Small and transportable unit
- 10000 + (USB Flash) program storage memory
- Simple to practice: Sharp, clear 7 inch TFT with resistive touch screen commands
- USB2.0, RS232 cable
- Based on amplification of nucleic acid and fluorescence detection technology

