IRIS ANALYTICAL

THERMAL CYCLERS & REAL-TIME PCR SYSTEM



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Gradient Thermal Cycleroffer 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℃.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 ≥4°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℃/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



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