



THERMAL CYCLER



PCR Thermal Cycler

Darsun Scientific

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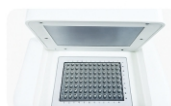


Standard / Gradient

The thermal cycler is basic instrument in molecular laboratories and is mainly used for gene amplification In scientific research and clinical area, qualitative PCR gene amplification, gene chip or other gene analysis applications. The gradient thermal cycler has gradient function, which can quickly Increase and decrease the temperature. It can achieve temperature uniformity In a single process and can quickly and stably complete polymerase chain reaction (PCR) experiments.

Specification

1. Portable and compact design
2. Elastic structure hot lid design, adaptable to 96-well micro plate or 0.1/0.2ml PCR tube Using high-quality pettier, ensure excellent temperature uniformity.
3. The heating and cooling rate can reach to 5.5°C/s, saving experimental time
4. Humanized standard program file template, which can quickly edit experimental files Automatic fault detection and alarm function



Elastic hot lid
prevents reagents from evaporating



Color touch screen
friendly user interface, simple programming, can quickly check working status



Excellent cooling system
efficient heat dissipation, fast heating and cooling speed



good temp uniformity between the wells



precise pettier temp control technology

Model	DS96S	DS96G
Temp mode	Standard	Gradient
Power(kW)	1.4	2
Sample capacity	96x1.1 / 0.2ml PCR tube/96-wells microplate	
Block temp control range	4~105°C	
Hot lid temp control range	30~110°C	
Temp display accuracy	±0.1°C	
Temp control accuracy	±0.3°C	
Temp uniformity	±0.3°C	
Display	double rows digital tube display	
Max temp change rate	5.5°C/s	
Gradient setting range	/	30~105°C
Gradient span	/	1~42°C
Heating module material	Aviation aluminum	
Display	7-inch color touch screen	
User defined file storage	676 Files	
Power outage protection	Yes	
Dimension	L270xW240xH150mm	
Weight	4.8kg	
Power supply	100~240V;50/60HZ	

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Quantitative Real-time PCR-16-wells

DSQPI6C2/DSQPI6C4



Can detect 16 samples at the same time, and the standard configuration is FAM/SYBR, VIC two-color fluorescence channels. Lightweight & compact and supports stand-alone operations. Adopts innovative liquid cycle refrigeration technology combined with peltier temperature control technology to achieve rapid heating and cooling. It offers CT value analysis, absolute quantitative analysis, supports isothermal amplification and end point analysis.

Specification

1. Stand-alone use, compact design, easy to carry
2. Humanized software design, simple operation
3. Sensitive and efficient light signal detection system, with no crosstalk in multi-channel fluorescence and good sample detection stability
4. Two-channel or four-channel fluorescence detection systems optional, can achieve multiple fluorescence quantitative detection
5. Advanced semiconductor heating technology, fast heating and cooling, short detection time
6. 32G data memory, excel format or pictures can be kept through U disk, easy management

Model	DSQPI6C2	DSQPI6C4
Sample capacity	16×0.2ml PCR tube / 2×0.2ml 8-strip tube	
Reaction volume	10–50 µl	
Display	7-inch color touch screen	
Thermal cycling	Peltier	
Max temp change rate	6°C/s	
Block temp control	10–100°C	
Hot lid temp range	30–105°C	
Temp accuracy	±0.2°C	
Temp uniformity	±0.2°C@60°C / ±0.3°C@95°C	
Excitation light	LED	
Detection module	MPPC	
Detection mode	Linear individually scan	
Fluorescence channels	FAM/SYBR, VIC/HEX/TET	FAM/SYBR, VIC/HEX/TET, ROX, CY5/TAMRA
Sensitivity	Single copy gene	
Dynamic range	10 orders of magnitude copies	
Analysis mode	CT value / absolute quant analysis	
Dimension (mm)	225 (L) × 270 (W) × 132 (H)	
Weight	4 kg	
Power supply	100–240V, 50/60 Hz	

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Quantitative Real-time PCR-96-wells

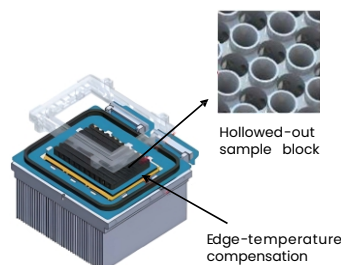


DS-QP-96C4 DS-QP-96C6

As an important detection method for molecular biology detection, real-time fluorescence quantitative PCR has been widely used in many fields such as scientific research, clinical detection and diagnosis and forensic application.

Specification

1. Four channels and six channels cover most fluorescence
2. Effectively reduces multi-color crosstalk and edge effects without fluorescence correction
3. Innovative scanning method and time-resolved signal separation technology
4. Optical scanning detection system, high sensitivity and resolution, accurate identification of negative and positive
5. Unique zoned temperature control and edge temperature compensation technology ensures temperature uniformity



Model	DS-QP-96C4	DS-QP-96C6
Sample capacity	96x0.1ml PCR tube/12x0.1ml 8-strip tube/96-well microplate	
Reaction volume	10~50µl	
Thermal cycling	Peltier (6 temperature control modules)	
Maximum Ramp Rate	6°C/s	
Temperature Setting Range	4~100°C	
Temperature Accuracy	≤ ±0.1°C	
Temperature Uniformity	≤ ±0.1°C	
Gradient Zone	12 columns	
Gradient Range	1~40°C	
Excitation Light Source	4pcs LED	6pcs LED
Detection Module	MPPC	
Scanning Principle	Time-resolved scanning technology	
Excitation/Detection Range	455~745nm	
Fluorescence Channel	4 channels	6 channels
Detection Sensitivity	1 copy of the target sequence	
System Sensitivity	1.33-fold copy number differences in singleplex reactions	
Dynamic Range	10 orders of magnitude	
Dye Compatibility	F4: Cy5/LIZ F5: Quasar 705/Alexa Fluor 680/Cy5.5 F6: ATTO425	
Dimension	L500xW360xH380mm	
Weight	25 kg	
Power Supply	100~240V, 50~60Hz	



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