STALWART

**Thermal Cycler
STC-Series**

Introduction

STC Series Thermal Cycler has android and 10.1 inch capacitive Touch Screen. Operation is very Smooth and Simple. Air Channel is in Front and Back and it allows machine placed side by side, Self adapting pressure hot lid makes closing lid in one Step. It has long service life Peltier heating units and max. ramping rate is 8°C/S and cycle me is more than 100000 the two dimensional gradient function can present 96 temperature combination at one me, and accurately explore the denaturation and annealing temperature. Wifi Unit is built in and user can control many units of PCR through mobile App.

Features

- Long Service Peltier heating Units
- Reinforced aluminium module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance.
- High heating and cooling rate max. Ramping rate 8°C/S can save your precious me.
- Self-adapting pressure hot lid made closing lid and tightening lid in one step.
- Air Channel is in Front and back and it allows machine placed side by side.
- It has Android operating system and 10.1 inch capacitive touch screen. It has graphical menu navigation interface and operation is very simple.
- Built in 11 standard program file template, can quickly edit the required files.
- The running program and le me can be displayed in real me, allow to edit file when program is running.
- One-click quick incubation function can meet experiment's need such as denaturation, enzyme cutting/enzyme-ink and ELISA.
- Hot lid temperature and hot lid work mode can be set to meet different Experiment need.
- Automatic Start after Power Failure. When Power is restored it can continue to run unfinished program.
- Support USB to store and copy PCR data, user can control PCR by USB mouse.
- Update software by USB and LAN.
- WIFI module built-in, one unit can control multiple PCR machine through computer or cell phone with internet connection.
- Email notification after experiment is over.

Specification

Item	STC-96RA	STC-96RB	STC-96RC	STC-96RF	STC-384R
Capacity	96x0.2ml	6x 16x 0.2ml	96 x0.2ml	96x0.2ml	384 well
Tube	0.2ml tube, 8 strips, Half skirt 96 wells plate, No skirt 96 wells plate	0.2ml tube, 8strips,Half Skirt 96well plate, No Skirt 96well plate	0.2ml tube, B strips,Half Skirt 96 wells plate, No Skirt 96 wells plate	0.2ml tube, 8 strips, Full 96 wells plate, Half skirt 96 wells plate, No Skirt 96 wells plate	384 PCR microplate
Temperature Range	0-105°C	0-105°C	0-105°C	0-105°C	0-105°C
MAX. Ramp rate	5°C/s	6°C/s	8°C/s	6°C/s	6°C/s
Uniformity	≤±0.2°C	≤±0.2°C	≤±0.2°C	≤±0.2°C	≤±0.2°C
Accuracy	≤±0.1°C	≤±0.1°C	≤±0.1°C	≤±0.1°C	≤±0.1°C
Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Control	Block/Tube	Block/Tube	Block/Tube	Block/Tube	Block/Tube
Ramping Rate Adjustable	0.1-5°C	0.1-6°C	0.1-8°C	0.1-6°C	0.1-6°C
Gradient Temp. Range	30-105°C	30-105°C	30-105°C	30-105°C	30-105°C
Gradient Type	Dynamic Gradient	Dynamic Gradient	Two-Dimensional Gradient	Normal Gradient	Normal Gradient
Gradient Spread	Six zone, each zone is 0.1-5°C	Six zone, each zone is 0.1-5°C	Horizontal: 1-30°C Vertical: 1-24°C	1-42	1-42
Hot Lid Temperature	30-115°C	30-115°C	30-115°C	30-115°C	30-115°C
Number of Programs	20000+(USB Flash)	20000+(USB Flash)	20000+(USB Flash)	20000+(USB Flash)	20000+(USB Flash)

Specification

Max. No of Step	40	40	40	30	30
Max. No of Cycle	100	100	100	100	100
Time Increment/ Decrement	1Sec-600Sec	1Sec-600Sec	1Sec-600Se	1Sec-600Se	1Sec-600Sec
Temp Increment/ Decrement	0.1-10.0°C	0.1-10.0°C	0.1-10.0°C	0.1-10.0°C	0.1-10.0°C
Pause Function	Yes	Yes	Yes	Yes	Yes
Auto Data Protection	Yes	Yes	Yes	Yes	Yes
Long PCR Function	Yes	Yes	Yes	Yes	Yes
Computer Software	Yes	Yes	Yes	Yes	Yes
Mobile Phone Application	Yes	Yes	Yes	Yes	Yes
Display	10.1" Touch Screen	10.1" Touch Screen	10.1" Touch Screen	10.1" Touch Screen	10.1" Touch Screen
Communication	USB2.0, WIFI	USB2.0, WIFI	USB2.0, WIFI	USB2.0, WIFI	USB2.0, WIFI
Dimension	385mm*270mm*255mm (L*W*H)	385mm*270mm*255mm (L*W*H)	385mm*270mm*255mm (L*W*H)	385mm*270mm*255mm (L*W*H)	385mm*270mm*255mm (L*W*H)
Weight	10Kg	10Kg	17kg	10Kg	10Kg
Power Supply	100-240VAC, 50/60Hz, 600W	100-240VAC, 50/60Hz, 600W	100-240VAC, 50/60Hz, 1200W	100-240VAC, 50/60Hz, 600W	100-240VAC, 50/60Hz ,600W

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