STALWART

Thermal Cycler STG-D Series



Introduction

STC-D/D+ series thermal cycler has Android operation system and 10.1 inch capacitive touch screen. Independent operation of double blocks. Air channel is in front and back and it allows machine placed side by side. Self-adapting pressure hot lid makes closing lid and tightening lid in one step. It has long service life peltier heating units and max. ramping rate is 8°C/S. Wifi unit is built in and user can control many units of PCR through mobile App

Features

- Long service life Peltier heating units.
- 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 8 °C/s, can save your precious time.
- Double blocks design, 64 well block on the left can set two-dimensional gradient, 32 well module on the right can set conventional gradient.
- Self-adapting pressure hot lid makes 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 operation 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 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.
- 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.
- 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-19DC		STC-22DL		STC-56DP	
Capacity	×0.2ml (A Block) +		×0.2ml (A Block) +		×0.2ml (A Block) +	
	32×0.2ml (B Block)		32×0.2ml (B Block)		32×0.2ml (B Block)	
Tube	0.2ml tube, 8 strips		0.2ml tube, 8 strips		0.2ml tube, 8 strips	
Temperature Range	0-105°C		0-105°C		0-105°C	
MAX. Ramp Rate	5°C/s		5°C/s		8°C/s	
Uniformity	≤±0.2°C		≤±0.2°C		≤±0.2°C	
Accuracy	≤±0.1°C		≤±0.1°C		≤±0.1°C	
Display Resolution	0.1°C		0.1°C		0.1°C	
Temperature Control	BlockTube		BlockTube		BlockTube	
Ramping Rate Adjustable	0.1-5°C		0.1-5°C		0.1-8°C	
Gradient Temp. Range	30°C105°C		30°C105°C		30°C105°C	
Gradient Type	Normal	Normal	Two-	Normal	Two-	Normal
	Gradient	Gradient	Dimensional	Gradient	Dimensional	Gradient
	(A	(B	Gradient		Gradient	
	BLOCK)	BLOCK)				

Specification

Gradient Spread	1-30°C -	Horizontal: 1-30°C	Horizontal: 1-30°C	
		1-30°C	1-30°C	
		Vertical:	Vertical:	
		1-24°C	1-24°C	
Hot Lid Temperature	30-115°C	30-115°C	30-115°C	
Number of Programs	20000 +(USB FLASH) 20000 +(USB FLASH)	20000 +(USB FLASH)	
Max.No.of Step	40	40	40	
Max.No.of Cycle	100	100	100	
Time Increment/	1 Sec - 600 Sec	1 Sec - 600 Sec	1 Sec - 600 Sec	
Decrement				
Temp. Increment/	0.1-10.0°C	0.1-10.0°C	0.1-10.0°C	
Decrement				
Pause Function	Yes	Yes	Yes	
Auto Data Protection	Yes	Yes	Yes	
Hold at 4°C	Forever	Forever	Forever	
Touchdown Function	Yes	Yes	Yes	
Long PCR Function	Yes	Yes	Yes	
Language	English	English	English	
Computer Software	Yes	Yes	Yes	
Mobile phone APP	Yes	Yes	Yes	
LCD	10.1 inch, 1280×800	10.1 inch, 1280×800	10.1 inch, 1280×800	
	pexels	pexels	pexels	
Communication	USB2.0, WIFI	USB2.0, WIFI	USB2.0, WIFI	
Dimensions	× 270mm× 255mm	× 270mm× 255mm	× 270mm× 255mm	
	(L×W×H)	(L×W×H)	(L×W×H)	
Weight	11kg	11kg	18kg	
Power Supply	100-240VAC, 50/60Hz	z, 100-240VAC, 50/60Hz,	100-240VAC, 50/60Hz,	
	600 W	600 W	1200 W	