

# Rapid Multi-functional PCR Machine

## Innovative Features, Thoughtful Design

### SCI Cyclor™ Nucleic Acid Thermal Cycler

The SCI Cyclor is a rapid PCR instrument with multiple features: gradient, uniform cooling, USB program transfer, bilingual interface (Chinese/English), dual temperature control methods (Tube/Block), and power failure protection, meeting diverse PCR needs in the lab. Its innovative design includes a unique one-click DNA renaturation function, facilitating experiments requiring uniform cooling.

·**Light Indicator:** Lights on when program starts and off when it ends, preventing accidental lid opening.

·**High-Resolution Touch Screen:** Intuitive graphic interface operable with gloves, allowing easy program editing, running, and saving. Programs importable via USB.

·**Front Intake/Rear Exhaust Air Flow Design:** Allows close side-by-side of multiple units, saving valuable bench space.

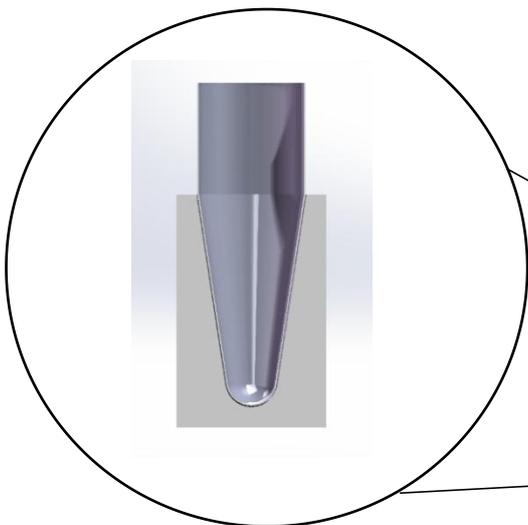
·**Large Memory:** Stores up to 18,000 programs. Unlimited programs on USB disks.

·**Press-Cap Heated Lid:** Easy and ergonomic. 10-year warranty on the handle.

·**Program Setup:** Quick program creation from template by changing temperature, hold time, and cycle number. Temperature adjustable by sliding up and down for higher efficiency.

·**Slow Cooling and DNA Renaturation:** Simplified process requiring inputs of only initial temperature, target temperature, and time.

·**Top-Quality Polycarbonate Shell:** Durable, non-yellowing, and resistant to deformation and cracking.

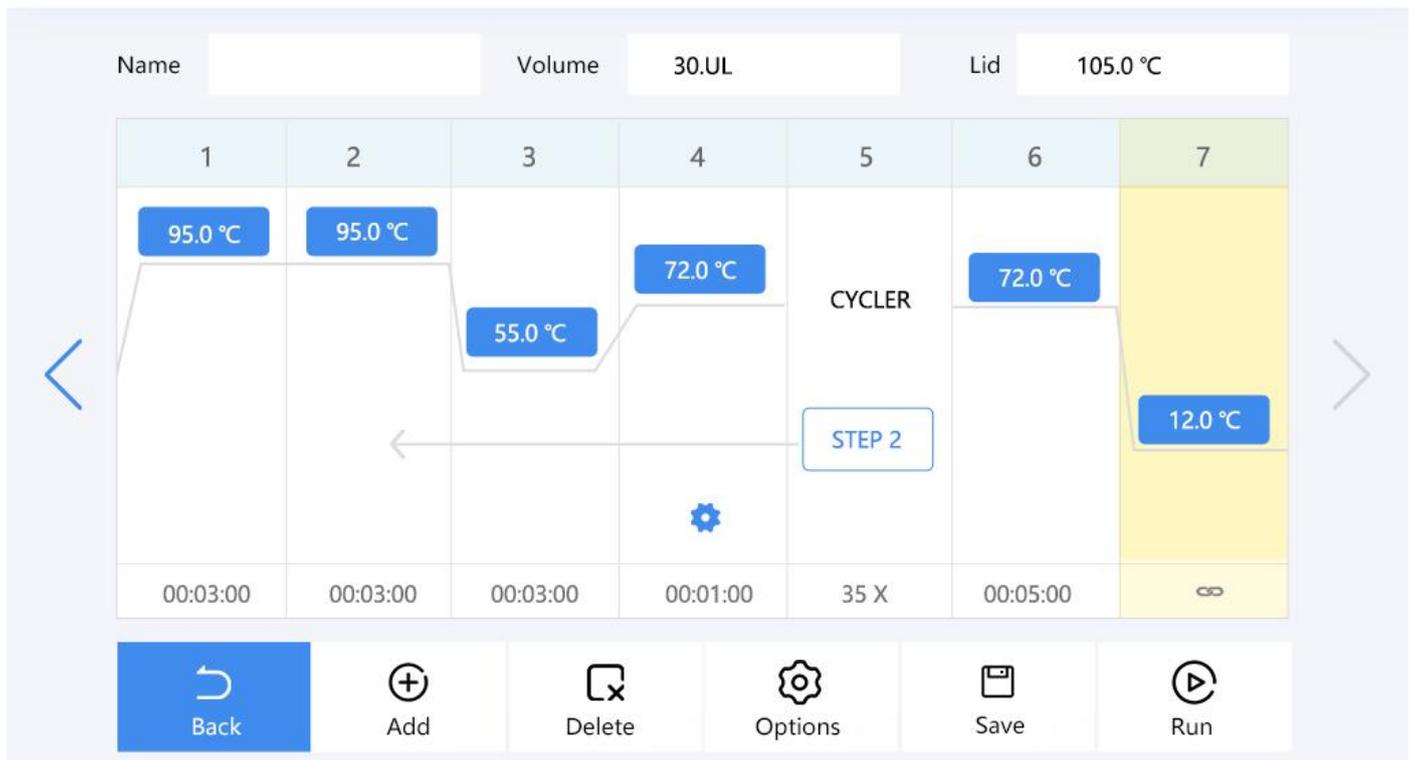


The arc-shaped bottom of temperature control module is designed to better fit the bottom of PCR tubes, ensuring rapid heat conduction for more accurate and uniform sample temperatures.



## Interface

### NEW PROTOCOL



Simple and clear. Temperatures can be adjusted by sliding up and down.

### RENATURATION

The 'RENATURATION' interface includes the following input fields:

- Melting Temp: 95.0 °C
- Melting Time: 00: 03: 00
- Start Temp: 95.0 °C
- Ending Temp: 25.0 °C
- Running Time: 12: 00: 00
- Holding Temp: 12.0 °C
- Holding Time: 12.0 °C

Additional settings: Lid Temp 109.0 °C, Volume 30 UL, and a 'Lorem Ipsum' placeholder. 'Home' and 'Run' buttons are at the bottom.

One-click DNA renaturation with precise temperature control of gradual cooling from 95°C to 25°C within 12 hours, meeting experiment requirements for uniform slow cooling.

## Product Specifications

Model	SCI Cyclor	
Sample Block Module Profiles and Compatible Consumables	96×0.2ml	0.2ml tube, 8-tube strip, 96×0.2ml plate (No skirt, half skirt. Full skirt customizable)
	96×0.1ml	0.1ml tube, 8-tube strip, 96×0.1ml plate (Full skirt, half skirt, no skirt)
	384-well Module	384-well plate
	Plate Module	Default Size: 114×78mm
Language	Chinese, English	
USB Function	Unlimited programs on USB disks	
Air Duct	Front intake/rear exhaust air flow allowing close side-by-side of multiple units, saving valuable bench space.	
Screen	7" High-resolution capacitive touch screen operable with gloves	

## Thermal Functions

Temperature Control Method	Tube/Block
Sample Block Thermal Range	0~99.9°C
Max. Heating Rate	7°C/sec
Max. Cooling Rate	5°C/sec
Sample Block Temperature Uniformity	±0.2°C
Sample Block Temperature Accuracy	±0.1°C
Temperature Display Resolution	0.1°C
Adjustable Temperature Ramp Rate	0.1~4°C

## Gradient Functions

Gradient Temperature Accuracy	±0.1°C
Gradient Temperature Uniformity	±0.2°C
Gradient Temperature Range	30~99.9°C
Max. Temperature Difference	30°C
Gradient Distribution	12 columns

## Heated Lid Functions

Lid Open Method	Press-cap
Lid Height	Self-adaptable
Adjustable Temperature Range	30~110°C
Heating Rate	≤100 sec, from RT to 105°C
Auto Power-off	The heated lid will power off automatically when the sample block is <30°C (configurable) or program ends

## Programming Functions

Multi-user Password Login	Yes, with user addition/deletion.
Program Creation	3-stage cycling PCR amplification template. Temperature adjustable by sliding up and down
Max. Program Storage	18000
Max. Steps	30 (allows nested cycles)
Max. Cycle No.	10000
Time Increment/Decrement	1~120 sec, available for Long PCR
Temperature Increment/Decrement	0.1~10°C, available for TouchDown PCR
Power Failure Protection	Yes
Auto Pause	Yes
Program Running Report	Detailed recording of the entire process, providing comprehensive data support for experiment result analysis.
Computer Server	Yes (optional). One computer can remotely control and manage no less than 100 devices.

## Other Specifications

Voltage and Frequency	Global range: 85-265V, 50-60HZ
Max. Power	550W
Dimensions	26×41×24.5cm
Net Weight	7.3kg

For research use only. Not for diagnostics

For more information about the products please visit:

<http://www.turtle-tech.com.cn/>

Contact:

Tel: +86-21-36583658

E-mail: [contact@turtle-tech.cn](mailto:contact@turtle-tech.cn)

