



**Bioer
Technology**

Modular Thermal Cycler with Controller MTC

GeneExplorer OD



Easy integration into automated workflows, with a compact design compatible with mainstream liquid handling platforms.



Adjustable ramping rate meets different experimental demands.



With power-off protection function.



ITI advanced thermoelectric refrigeration technology brings stable and reliable performance.

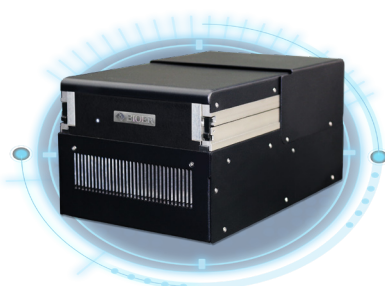


Two modules with different working volumes are compatible with low- or high-profile plates to meet diverse application needs.

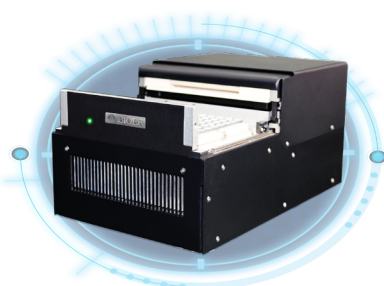


Equipped with standard network interface, more convenient connection.

▶ OPERATING DEMONSTRATION



Lid closed when turn off



Lid opened when turn on



Built-in Reusable PCR Plate Sealing Mat (BSH142S2), easily exchangeable

▶ PCR SEALING ACCESSORY

- 1 Compatible with motorized hot lids of thermal cyclers in liquid handling workstations.
- 2 Cleanable with 1:10 diluted bleach, rinse thoroughly with deionized water, and allow to air dry.
- 3 Reusable for approximately 50 runs under normal operating conditions.
- 4 Effectively prevents contamination and evaporation, with an evaporation rate below 3%.

▶ PRODUCT SPECIFICATION

Module Parameters

Product Name	Modular Thermal Cycler	
Model	MTC-96A	MTC-96B
Sample Capacity	96×0.1mL	96×0.2mL
Working Volume	0.1mL	0.2mL
Compatible PCR plate types	low profile full-skirted 96 well PCR plates low profile semi-skirted 96 well PCR plates	high profile full-skirted 96 well PCR plates high profile semi-skirted 96 well PCR plates
Temperature Range	4.0-105°C (Minimum setting scale:0.1°C)	
Average Heating Rate	≥4.0°C/s	
Average Cooling Rate:	≥2.0°C/s	
Temperature Uniformity	≤±0.3°C	
Temperature Accuracy	≤±0.3°C	
Hot Lid Temperature Range	30°C-110°C	
Weight (kg)	7	
Dimension (L x W x H)	156.5mm×255mm×125.8mm	156.5mm×275mm×129.6mm

Controller Parameters

Product Name	Modular Thermal Cycler Controller
Model	MTCC-A
Interface	Network protocol USB Ethernet (RJ45 Connector)
On-board Storage	≥2000(programs)
Dimension (L x W x H)	256.5mm×439.5mm×64mm
Weight (kg)	6
Power Supply	100-240V/50-60Hz (1000W)

* Effect value tested in standard lab environment

▶ COMPATIBLE CONSUMABLES

MTC-96A	MTC-96B
BSH134S1C Hard-Frame 0.1 ml 96 Well Full Skirted PCR Plate BSH134S1W Hard-Frame 0.1 mL 96 Well Full Skirted White PCR Plate HSP-9xxx Bio-Rad Low-Profile 96-Well Skirted PCR Plates	BSH143S1C Hard-Frame 0.2 ml 96 Well Semi-Skirted PCR Plate HSS-9xxx Bio-Rad high profile 96-Well Semi Skirted PCR Plates