

TruCycler-Hybrid96 Dual-Block Gradient PCR

///Introduction

TruCycler-Hybrid96 (TC-H96) Dual-Block Gradient PCR Instrument delivers outstanding thermal performance. Equipped with Ferrotec's high-durability Peltier modules, it achieves over 1 million thermal cycles. Featuring user-friendly software with versatile functions, it enables two-dimensional gradient optimization for ideal reaction temperatures. Its two independent gradient blocks operate simultaneously, broadening the scope of applications.



///Features

- Android OS with a 10.1-inch capacitive touchscreen (1920×1200 HD resolution)
- Two blocks are independent temperature control: left block supports 2D gradient for 96well, right block supports vertical gradient for 32well format; wide gradient range up to 42° C, compatible with both standard and linear temperature modes.
- Smart scheduling management system, allowing independent program scheduling for each block.
- Highspeed ramping up to 8° C/second, significantly reducing experimental time.
- Versatile applications: wide-ranging applications for diverse experimental needs across various fields, supports both block/tube temperature control.
- Edge temperature compensation with a high thermal conductivity uniform heating block, ensuring excellent temperature uniformity and accuracy.
- Rear and Front Air Duct Design enables side by side placement of instruments for space saving.
- Automatically creates operating history and error logs.
- Auto restart of a running protocol after a power failure.

Product parameters

Model	TC-H96	Sample Capacity	96*0.2mL (Block A) 32*0.2mL (Block B)
Tube Type	0.2mL (96-well PCR plate/ semi-skirt PCR plate)	Sample Volume	5~100uL
Block Temperature Range	0~105°C	Temperature Control Mode	Block/Tube
Temperature Accuracy	0.1°C	Block/Tube	≤ ±0.2°C
Temperature Precision	≤ ±0.1°C	Max. Ramping	8°C /S
Ramping Range	0.1~8°C /S	Gradient Setting Range	0.1~42°C Vertical Gradient
Gradient Temperature Range	30~105°C	Heated Lid Temperature Range	30~115°C
Time Increment/ Decrement	1~600s Supports LongPCR	Temperature Increment/ Decremen	0.1~10°C Supports Touchdown PCR
User Management	Three-level authority management (Admin/User/Guest)	Block Reserve	User can reserve block from Admin
Screen Lock	Independently screen lock for block	Programs stored	> 10000
Max. Steps	30	Max. Cycles	100
Program Pause	Yes	Power-off Recovery	Yes
Incubation	Unlimited Duration	LCD Touch Screen	10.1-inch (1920x1200 pixel)
OS	Android	Communication Interface	USB, Internet, WIFI
Input Voltage	100~240V, 50/60Hz, Max.power: 1200W	Dimension LxWxH	385mm×285mm×253mm
Weight	12Kg		