

AcTGene AgileCycler

AgileCycler features a truly intuitive user interface with a colored touch screen. Precision is enhanced by a 4-zone temperature regulation that corrects for any differences between the 4 peltier elements. AgileCycler can utilize a USB network to control up to 30 completely independent cycler modules for higher throughput or multi-user situations.



Features :

- Each thermal block has 4 independent temperature control sensors and 6-8 peltier heating units, ensuring that temperature control and uniformity across the block surface is accurate and reproducible time after time.
 - Five interchangeable reaction modules provide various kinds of PCR testing methods and each module has Gradient function.
 - Module with dual block allows 2 independently controlled protocols to be run simultaneously.
 - 8" TFT large color touch screen with graphical display allows for easy run setup and monitoring.
 - The status of the cycler is always visible with actual and target temperatures displayed graphically in real time.
 - LAN function provides the ability to connect up to 30 thermal cyclers to one PC, eliminating the need to program each thermal cycler or remember stored program names.
 - Max. gradient 30°C takes 0.2ml tubes : non-skirted, semi and fully skirted plated.
 - Connects optional input devices Mouse, Keyboard and transfers data and performs software updates by USB Drive.
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Reaction Module Parameters

Sample capacity	Heating Rate	Cooling Rate
96 x 0.2ml(Gradient)	4.5°C/s	4°C/s
60 x 0.5mL(Gradient)	4.5°C/s	4°C/s
48 x 0.2mL dual block(Gradient)	5°C/s	4°C/s
48 x 0.2mL + 30 x 0.5mL dual block(Gradient)	5°C/s	4°C/s
384-well PCR microplate(Gradient)	4.5°C/s	4°C/s



Specifications :

Temperature Range	0~100°C 4~100°C(384 well)
Uniformity	≤ ±0.2°C(30~72°C, 10 Sec) ≤ ±0.3°C(90°C, 10 Sec)
Accuracy	≤ ±0.1°C(30~99°C)
Display Resolution	0.1°C
Temperature Control	Block\Tube
Gradient Uniformity	≤±0.2°C
Gradient Accuracy	≤±0.2°C
Gradient Temp. Range	30~100°C
Gradient Span	1~30°C between 30~99.9°C
Hot Lid Temperature	30~110°C
Over-temperature cut-out	Yes
Number of Programs	10,000 +(USB FLASH)
End of program alarm	Yes(can be disabled)
Max.No.of Step	30
Max.No.of Cycle of each step	100
Time Increment/Decrement	1 Sec ~ 9 Min 59 Sec
Temp. Increment/Decrement	0.1~9.9°C
Auto-start on power failure	Yes
Connection to PC control software	Yes
Gradient calculator	Yes
Password protection	Yes
User level	Yes
Hold at 4°C	Yes
Printing	Yes
Wireless blue tooth	Yes
LAN to computer	Yes
LCD	8 inch , 800×600 pixels, TFT
Real time temperature sensor feedback	Yes
Communication	USB2.0 , LAN
Noise emission	Very low
Dimensions	38cm×24cm×26cm (L×W×H)
Weight	8.5kg
Power Supply	85~264VAC , 47~63Hz , 600 W