

# Economy models to meet your various needs

## Economy Models: E02 and E05



Type	Economy	
Model	E02	E05
Block Format	0.2 ml X 96 wells	0.5 ml X 54 wells
Sample Holder Interchangeable	NO	
Temperature Control	PID Control by microprocessors	
Heating / Cooling Method	Block : solid state modules / Cover: ceramic heater	
Temperature Control Range	4.0°C - 99.9°C	
Temperature Control Accuracy	±0.1°C	
Well-to-Well Temperature Distribution	±0.5°C or less	
Gradient Temperature Setting	N/A	
Maximum Heating Rate	3.5°C/sec.	3.0°C/sec.
Maximum Cooling Rate	3.0°C/sec.	2.5°C/sec.
Heating / Cooling Time Setting Range	1 sec. - 9 hrs. 59 min. 59 sec.	
Temperature Ramping	0.1°C - 9.9 °C/cycle	
Reaction Time Setting Range	1 sec. - 59 min. 59 sec. / HOLD / Continuous	
Maximum Number of cycles	99 cycles/segment	
Number of Reaction Temperature Steps	Max. 25 Steps (5 steps/cycle x 5 segments)	
Number of Program Files	Max. 75 files (15 files x 5 boxes)	
Cover Heat Control	Constant temperature / OFF	
Display	5.5-inch wide LCD	
Interface	N/A	
Self-Diagnostic Function	Yes	
Finish Time Display	Yes	
Sample Amount Setting	Yes	
External Dimensions	W220 X D450 X H 250 mm	
Weight	11Kg	
Rated Power Supply	AC 200V - AC 240V, 2.5A, 50/60 Hz AC 100V - AC 120V, 5.0A, 50/60 Hz	

The economy type E02/E05 units have achieved also increased heating and cooling speeds with the built-in Peltier block. The 5.5-inch-wide, eye-friendly LCD gives you the clear view of the reaction processes. No secret that it is economically priced to meet your budget. The user-friendly interface enables you to create and edit programs with ease.

# More affordable models with smaller sample needs

## Entry Models: 322/325 and 482/485



Model	482	485	322	325
No. of Samples	0.2ml x 48 (8x6)	0.5ml x 30 (5x6)	0.2ml x 32 (8x4)	0.5ml x 18 (6x3)
Temperature Control	PID control by microprocessor			
Heating/Cooling	Controlled by solid state module			
Temperature Control Range	4.0°C - 99.9°C (when ambient temp. is 25°C)			
Temperature Fluctuation Range	Temp. control accuracy : ±0.1°C / among holes : ±0.5°C or less			
Maximum Heating Rate	3.5°C/sec.	3.0°C/sec.	3.0°C/sec.	2.5°C/sec.
Maximum Cooling Rate	3.0°C/sec.	2.5°C/sec.	2.5°C/sec.	2.0°C/sec.
No. of Program Files	PROGRAMMED TEMP : Max. 75 files (15 files x 5 Boxes) CONSTANT TEMP : 5 files			
Cover Heater Control	Constant temperature or heater off			
Display	5.5-inch wide LCD screen			
External Dimensions	W212 x D370 x H200 mm		W234 x D370 x H158 mm	
Power	AC 100V - AC 120V 4.0A 50/60Hz AC 200V - AC 240V 2.0A 50/60Hz			
Weight	7kg		5.5kg	



# ASTEC Thermal Cyclers Gene Atlas

Made in Japan



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20 years of experience with Thermal Cyclers,  
 We offer you the most precise, silent, and affordable  
 thermal cyclers made proudly in Japan



### High-performing Thermal Cyclers

Renovated and optimized to meet your versatile PCR applications. Compact-sized GeneAtlas Thermal Cyclers are equipped with a large, easy-to-view 5.7-inch TFT LCD touch screen with prominently improved resolution and touch sensitivity. In addition to the traditional table view, programs can be created, edited, or viewed in the graph view.

### Interchangeable Sample Holder

The sample holder is built into the lib assembly and interchangeable as a unit of sample holder and lid heating systems. This provides the not only the flexibility of sample size and/or capacity but also the top and bottom heating uniformity matched to that sample capacity.



### Specifications

	Gradient		Standard	
Model	G02	G05	S02	S05
Block Format	0.2 ml X 96	0.5 ml X 54	0.2 ml X 96	0.5 ml X 54
Sample Holder Interchangeable	Yes* (0.2 ml x 96 wells, 0.5 ml x 54 wells, For slide glass, for 384-well plate)			
Temperature Control	PID Control by microprocessors			
Heating / Cooling Method	Block : solid state modules / Cover: ceramic heater			
Temperature Control Range	4.0°C - 99.9°C			
Temperature Control Accuracy	±0.1°C			
Well-to-Well Temperature Distribution	±0.5°C or less			
Gradient Temperature Setting	Max 30°C		N/A	
Maximum Heating Rate	3.5°C/sec.	3.0°C/sec.	3.5°C/sec.	3.0°C/sec.
Maximum Cooling Rate	3.0°C/sec.	2.5°C/sec.	3.0°C/sec.	2.5°C/sec.
Heating/Cooling Time Setting Range	1 sec. - 9 hrs. 59 min. 59 sec.			
Temperature Ramping	0.1°C - 30.0 °C/cycle			
Reaction Time Setting Range	1 sec. - 59 min. 59 sec. / HOLD / Continuous			
Maximum Number of cycles	99 cycles / segment			
Number of Reaction Temperature Steps	Max. 25 steps (5 steps/cycle x 5 segments)			
Number of Program Files	Max. 240 files (20 files x 12 boxes)			
Cover Heat Control	Block interlock / constant temperature / OFF			
Display	5.7 - inch TFT color LCD touch screen, 640 x 480 pixels, 262,000 colors			
Interface	Memory card slot			
Self-Diagnostic Function	Yes			
Finish Time Display	Yes			
Sample Amount Setting	Yes			
External Dimensions	W220 X D450 X H 250 mm			
Weight	11Kg			
Rated Power Supply	AC 200V - AC 240V, 2.5A, 50/60 Hz AC 100V - AC 120V, 5.0A, 50/60 Hz			

### Precise and Silent

Sample temperature is regulated precisely by a digital PID control with integrated microprocessors. The temperature gradient of up to 30C with 12 step programmable feature. Our High-level aluminum fabrication technique greatly contributes in temperature reproducibility and uniformity. Industry leading noise reduced cooling fan and redesigned ventilation flow path allow multiple units to be placed side-by-side silently.

