
Thermal Cycler

GeneAtlas



High-performing Thermal Cycler GeneAtlas series: Renewed to meet your needs for versatile PCR applications!

Gradient Type / Standard Type

Compact-sized GeneAtlas Thermal Cyclers are now outfitted with a large, new, easy-to-view 5.7-inch TFT color LCD touch screen, with greatly improved resolution and sensitivity to touch (G/S types only). In addition to the familiar Table view, programs can now be created, edited, or viewed in the Graph view. You can select whichever works better for you!

User-Friendly!



Gradient Type G02/G05
(Display: Table view)



Standard Type S02/S05
(Display: Graph view)

Fast!

Precise!

Silent!



Our high-level aluminum fabrication techniques greatly contribute in temperature reproducibility and uniformity.

Temperature Control Sample temperature is precisely controlled by digital PID control with microprocessors.

Ease of Use The new TFT color LCD touch screen provides light-touch operations.

Easy-Viewing The large, 5.7-inch high-resolution TFT color LCD, with the Table and Graph view formats, provides a clear, easy-to-see screen.

Gradient Feature Temperature gradient of up to 30°C in 12 steps can be programmed (G type only).

Security File storage areas (Boxes) can be individually password-protected.

Low Noise The cooling fan control has made possible the industry-leading low noise level.

Log Data Usage logs, operation logs, and error logs can be saved and exported.

Interface A memory card allows you to transfer protocols (.csv) from one unit to another, edit them with a computer, and write the log data to a file (.txt).

Installation The re-designed ventilation flow path allows multiple units to be placed side-by-side.

Backup Equipped with a rechargeable lithium battery for data backup, no need for battery replacement.

■ Operation Screen Examples

Numeric value entry screen



Run screen (Graph view)



Run screen (Table view)



Run screen (Table view)



Show Gradient screen



Log data screen

Economy Type

While retaining the ease-of-use of the preceding models, the Economy type E02/E05 models have achieved 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 reaction processes. Available at reasonable prices !



Economy Type E02/E05



The Economy models' user-friendly interface enables you to create or edit programs with ease and to view reaction processes at a glance.

GeneAtlas Specifications

Type	Gradient		Standard		Economy	
Model	G02	G05	S02	S05	E02	E05
Block Format	0.2ml x 96 wells	0.5ml x 54 wells	0.2ml x 96 wells	0.5ml x 54 wells	0.2ml x 96 wells	0.5ml x 54 wells
Sample Holder Interchangeable	Yes ^(*) (0.2ml x 96 wells, 0.5ml x 54 wells, for slide glass, for 384-well plate)				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	Max. 30°C			N/A		
Maximum Heating Rate	3.5°C/sec.	3.0°C/sec.	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.	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			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. 240 files (20 files x 12 boxes)				Max. 75 files (15 files x 5 boxes)	
Cover Heater Control	Block interlock / constant temperature / OFF				Constant temperature / OFF	
Display	5.7-inch TFT color LCD touch screen, 640 x 480 pixels, 262,000 colors				5.5-inch wide LCD	
Interface	Memory card slot				N/A	
Self-Diagnostic Function	Yes					
Finish Time Display	Yes					
Sample Amount Setting	Yes					
External Dimensions	W220xD450xH250mm					
Weight	11Kg					
Rated Power Supply	AC200V – AC240V, 2.5A, 50/60Hz AC100V – AC120V, 5.0A, 50/60Hz					

*1: The sample holder is built into the lid assembly and replaceable only as a whole unit.

Related Products

Genuine Disposable PCR Tubes

Genuine disposable PCR tubes are made to fit perfectly with our Thermal Cyclers, which guarantees high reproducibility.

Product	Part Number	Quantity	Product	Part Number	Quantity
0.2ml Thin Wall Tube – Domed	AT-02D	1,000/box	Silicon Rubber Mat for AP-96	AM-96	10/pack
0.2ml Thin Wall Tube – Flat ^{(*)2}	AT-02F	1,000/box	96-Well PCR Plate (Semi-Skirted)	AP-96HS	10/pack
0.2ml Thin Wall 8-Tube Strip	AT-028	125/pack	Silicon Rubber Mat for AP-96HS	AM-96HS	10/pack
Thin Wall 8-Cap Strip	AC-028	125/pack	Sealing Film (Pressure-Sensitive Type ^{(*)3})	AUC-500	100/box
0.5ml Thin Wall Tube – Flat	AT-05F	1,000/box	Sealing Film (Adhesive Type)	AB-TS	100/box
96-Well PCR Plate (Non-Skirted)	AP-96	10/pack	Sealing Roller	AT329	1 ea.

*2: AT-02F tubes do not fit PC-812. *3: Compatible with real-time PCR.

- Tubes are made of virgin polypropylene. ● The wall of the tube is very thin, providing superior thermal conductivity.
- DNase, RNase, and Pyrogen-free: Our PCR tubes are made through manufacturing processes that prevent biological contamination.

Film Pads



A combined use of a PCR plate and sealing film will prevent the sample from evaporating during PCR reaction.

Film Pad (AFC-Pad): 5 sheets/pack



URL <http://www.astec-bio.com/global/>

E-mail info@astec-bio.com

facebook <https://www.facebook.com/asteclaboratory>

Head Office:

4-6-15, Minamizato, Shime, Kasuya

Fukuoka 811-2207, Japan

TEL: +81-92-935-5585 FAX: +81-92-936-6613

Korea Office:

4F, 403-191 Gaebong3 Dong, Guro gu, Seoul, Korea

TEL: +82-2-2611-4281 FAX: +82-2-2611-4285