

Designed for easy robotic integration

Automated Thermal Cycler

The Applied Biosystems™ Automated Thermal Cycler offers the flexibility, reliability, and performance needed in a complete PCR automation system. The small, easy-to-integrate format of the Automated Thermal Cycler enables hands-free PCR results.

- **Flexible modular design and small footprint**—helps save space on deck
- **Automated lid**—easy, hands-free operation with a liquid handler or plate stacker
- **Free desktop software**—for PCR optimization prior to robotic integration
- **Plug-and-play drivers and SiLA compatibility**—for easy integration on your liquid handler of choice



Designed for any stage of your workflow automation journey



Stand-alone

Optimize assays before robotic integration with our direct software.

Plug-and-play drivers

Ask about available drivers for leading robotic platforms.

SiLA-compatible

Maximum robotic platform integration flexibility with SiLA rapid integration coding.

Specifications

	96-well, 0.2 mL*	384-well, 0.02 mL
PCR volume range	10–100 µL for full-skirted plates; 20–100 µL for semi-skirted plates	5–20 µL for full-skirted plates
Hardware integration features	<ul style="list-style-type: none"> • Predrilled mounting and/or alignment points at each corner of the chassis • 3-side and top-plate access • Available in 3-connector configurations 	
Software features	<ul style="list-style-type: none"> • Application programming interfaces (APIs) available for integration with robotics systems • SiLA Rapid Integration software—standardized programming access** • Free software available for instrument demonstration and stand-alone operation 	
Block module dimensions (H x W x D)	13.3 x 17.9 x 31.7 cm (5.2 x 7.0 x 12.5 in)	
Control module dimensions (H x W x D)	7.0 x 25.7 x 33.1 cm (2.8 x 10.1 x 13.0 in)	
Temperature accuracy	±0.25°C (35.0–99.9°C)	
Max. block ramp rate†	3.5°C/sec	2.8°C/sec
Max. sample ramp rate†	1.8°C/sec	1.6°C/sec
Temperature range	4–105°C (no condensation risk with sub-ambient temperatures)	
Temperature uniformity	≤0.50°C (20 sec after reaching 95°C)	
Temperature calibration	Calibrated to standards traceable to the National Institute of Standards and Technology (NIST)	
Service options	<ul style="list-style-type: none"> • 2-year standard warranty includes Rapid Exchange Service plan • NIST-traceable temperature probe equipment available 	
Weight	9.4 kg/20.7 lb total (block module 6.0 kg/13.2 lb, control module 3.4 kg/7.5 lb)	
Power	100–240 V, 50–60 Hz, max. 600 W	
Flexible ramp rates	Program your own ramp rates, or use preprogrammed simulation modes	
Data connectivity	LAN	

* Compatible with full- or semi-skirted plates. ATC semi-skirted adaptor required for use with semi-skirted 96-well plates. ATC ships with the full-skirted adaptor installed, which is required for use with full-skirted 96-well plates.

** sila-standard.org

† At reaction volume of 1 µL.

Ordering information

Product	96-well Cat. No.	384-well Cat. No.	3-year extended warranty* with Rapid Exchange Cat. No.
Automated Thermal Cycler System, laptop, 1 m cable	A31486	A33977	ZGEXSCATC3Y
Automated Thermal Cycler System, laptop, 3 m cable	A31487	A33978	ZGEXSCATC3Y
Automated Thermal Cycler System, laptop, 10 cm cable	A31488	A33979	ZGEXSCATC3Y
Automated Thermal Cycler System, 1 m cable	A31489	A33980	ZGEXSCATC3Y
Automated Thermal Cycler System, 3 m cable	A31490	A33981	ZGEXSCATC3Y
Automated Thermal Cycler System, 10 cm cable	A31491	A33982	ZGEXSCATC3Y
Automated Thermal Cycler Semi-skirted Adaptor	A33044	N/A	N/A
Automated Thermal Cycler Full-skirted Adaptor	A33045	N/A	N/A

* The Automated Thermal Cycler comes standard with a 27-month warranty.

Recommended plastics

96-well block	Cat. No.	384-well block	Cat. No.
MicroAmp EnduraPlate Optical 96-Well Full-Skirted Plates with Barcode, Clear	A31728	MicroAmp EnduraPlate Optical 384-Well Clear Reaction Plates with Barcode	4483273
MicroAmp EnduraPlate Optical Semi-Skirted Plates with Barcode*	4483356	MicroAmp EnduraPlate Optical 384-Well Multicolor Reaction Plates with Barcode	4483317
MicroAmp Clear Adhesive Film	4306311	MicroAmp Clear Adhesive Film	4306311

* Requires semi-skirted plate adapter (Cat. No. A33044).

Find out more at thermofisher.com/atc



The Applied Biosystems™ MicroAmp™ EnduraPlate™ (Cat. No. A31728) was specifically designed for the Automated Thermal Cycler and has three-way barcoding.