

ZenCycler™

Innovative Life

Sciences Testing

and Instrumentation.

ZenCycler™ is a new concept in thermal cycler technology, combining rapid amplification with end-point and quantitative analysis in one straightforward system. No gels to load...just results to collect in under 30 minutes.

Innovations in Thermal Cycling

ZenCycler™ combines rapid amplification, automated results analysis, flexibility and portability.

- Rapid amplification
 - Automated primer design
 - Optimized protocols
 - Simple to operate
 - Autoscore results
 - Quantitative analysis
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- Suitable for a wide range of Genetic and Microbial diagnostics including point of sample analysis
 - Can be run from a low power source for field applications such as veterinary diagnostics, food testing or environmental testing.



ZenCycler™ delivers 30 cycle amplification plus melt curve in under 30 minutes, and now gives quantitative data.

Suited for diagnostic applications

ZenCycler™ will allow complex genetic analysis to become a routine clinical diagnostic test. Its portability enables testing not only in the confines of a laboratory, but at point-of-care locations, empowering medical professionals to make the correct decision, fast, resulting in better patient management and care.

- Simple to operate
- Rapid recycling
- Yes/no results
- Multiple protocols can be run together
- Fully portable – can be run off low power source

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Open Platform

- Many applications including human diagnostics, veterinary diagnostics, environmental and food testing
- Minimal sample log
- Improved cycling times
- Can be used with multiple chemistries and kits

Rapid Cycling with Exceptional Linearity

Anzen Biosciences has moved away from the conventional slower Peltier based technology, to design an efficient heating and cooling mechanisms, which offers exceptionally linear heating and cooling dynamics. This technology coupled with the design of a unique high performance tube with ultra-thin walls and a high surface to volume ratio, yields ultra-rapid and uniform cycling performance.

Optimized Tube Design

- Superior temperature uniformity
- Minimal sample log
- Improved cycling times
- Can be used with multiple chemistries
- No BSA required
- Variable volumes of between 10µl and 100µl
- Easy to load with standard pipette tips
- Easy handling and storage

Thermal Cycler Technical Specifications

Sample Capacity

12 wells

Sample Volume

10µl – 100µl

Footprint

300 x 160 x 160mm (w x h x d)

Weight

5kg/11lb

Heating – Ramp rates

Max 10°C/sec, Min 0.05C/sec

Method of heating/cooling

Circulating air (subject to patent applications)

Modes of temperature monitoring

Air probe and algorithms

Temperature Range

Ambient - 100°C

Temperature accuracy

±0.1°C

Temperature Uniformity

±0.4°C

Thermal Gradient

Range ±5°C, Accuracy ±0.4°C, Uniformity ±0.4°C

Optical Detection

Excitation source

12 x Ultra bright blue LEDs and detection and emission filters

Filter

490nm excitation filters

Detection

2 x Photodiode

Emission Filter

535nm

Emission range

Linear dynamic range of sample concentration of at least 6 orders of magnitude

Operational Specifications

Operating Temperature

15-32°C ambient

Operating Humidity

20-80%

Power Supply

100/110/240V, 50/60Hz

Field Use

12V car battery, with 500W power inverter

Electrical approvals IEC, CE

Input Power

400W

Communication Parts

USB 2.0

Minimum Computer Requirement

Windows XP/2000, 400 MHz processor, 256 color VGA monitor, 6 GB hard drive, 6 x CD-ROM drive, 128 MB RAM, 1024 x 768 pixel screen resolution

Ordering Information

For product pricing, please visit our web site at www.anzenbiosciences.com or call toll-free at 800.544.8502.

Product:

ZenCycler™

ZenTubes™

Description:

100mL lysis L001 buffer solution (1000 preps)

Catalog Number:

ZenCycler™ ABS-C001

ZenTubes™ ABS-C100

(10 bags of 100 tubes and caps)

Note: includes software, power cord, USB cable, 100 ZenTubes™ and manual. A PC is needed in addition to run this system.

Related Products:

Brett Primer - ZenKits™, Anzen Biosciences' primers-probe-enzyme chemistry provides excellent PCR efficiency and detection of the Dekker/Brettanomyces organism.

ZenLyse™ - A single reagent system designed to lyse bacterial cells and release PCR-ready DNA in approximately 25 minutes from start to finish. 30 minutes.



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